Water Year 2016
Washington Walla Walla Basin Aquifer Recharge Report

FINAL VERSION

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Water Year 2016
Washington Walla Walla Basin Aquifer Recharge Report

Written by:

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Walla Walla Basin Watershed Council
2017
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EXECUTIVE SUMMARY

This report summarizes operations at the two operating aquifer recharge (AR) sites in the Washington portion of the Walla Walla Basin, the Locher Road Aquifer Recharge (Locher Road) site and Stiller Pond Aquifer Recharge (Stiller Pond) site during Water Year 2016 (October 1 2015 to September 30 2016). It also summarizes the two new sites that have not operated yet, Last Chance Road and WA Mud Creek. Data include recharge amounts, supporting groundwater level, groundwater quality, source water quality and soil quality data.

For Water Year 2016, water for the Locher Road site was sourced from the Walla Walla River at Gardena Farms Irrigation District #13’s (GFID) main diversion just upstream of Mojonnier Road. The water was delivered down the Gardena Farms Canal to the Locher Road site. A total of 525.59 acre-feet of water were delivered to the Locher Road site with an additional ~340 acre-feet of recharge water seeping into the ground during conveyance. Water for the Stiller Pond site was sourced from Mill Creek at a private diversion located downstream of Wallula Road. The water was delivered down a pipeline to the Stiller Pond site. A total of 278.06 acre-feet were delivered to the Stiller Pond site. The total amount of water diverted for the two aquifer recharge sites during WY2016 was ~1,143.65 acre-feet (~372.66 million gallons).

Water level and water quality data were collected in accordance to the approved monitoring plan (WWBWC, 2015). Down-gradient groundwater monitoring wells in the vicinity of the recharge sites responded to recharge activities, with groundwater elevations increasing and decreasing as recharge operations began and ended.

Groundwater and surface water quality data collected during aquifer recharge activities do not indicate any potential water quality concerns or that AR activities are degrading groundwater quality. Source water being delivered to the AR sites was of acceptable quality and likely resulted in some observed improvement in groundwater quality over the recharge season.
INTRODUCTION
The Walla Walla Basin Aquifer Recharge program has been in existence since 2004. The first pilot project, the Johnson site, was started in Oregon in the spring of 2004. The program expanded in 2006 with the addition of the Hall-Wentland site just south of the Oregon-Washington state line. The first site in Washington, Locher Road, started in 2007. For a more in-depth background to the aquifer recharge program and the Walla Walla basin's hydrology and geology, please see the Walla Walla Basin Aquifer Recharge Strategic Plan (available at www.wwbwc.org/projects/recharge.html).

H Y D R O L O G I C S E T T I N G
The Walla Walla River (River) system is a bi-state watershed located in northeast Oregon and southeast Washington (Figure 1). The River’s headwaters are located in the Blue Mountains, the crest of which defines the eastern extent of the watershed. The mainstem Walla Walla River and its primary tributaries, Mill Creek and the Touchet River, are the three primary surface channels of the system. They coalesce within the Walla Walla Valley from which the Walla Walla River then flows draining to the Columbia River (Figure 2). This report focuses on the portion of the River system that comprises the Walla Walla River mainstem and Mill Creek, especially where they flow onto and across the area referred to in the balance of this report as the Walla Walla Valley (Figure 4).
Figure 1 - The Walla Walla Watershed in Northeast Oregon and Southeast Washington.
Walla Walla Basin hydrology is largely defined by a distributary river system and an underlying alluvial aquifer system hosted by the sediments overlying basalt. Surface waters entering the Walla Walla Valley effectively change regime from steep sided canyons in the headwaters portion of the watershed to a system of distributary and coalescing streams on the valley floor. With this, shallow groundwater systems see a regime change from localized, saturated valley deposits and confined basalt aquifers controlled by the geologic structure of the Columbia River basalt to the more widespread, thick alluvial aquifer system immediately underlying the valley floor. Depth to basalt beneath the base of the canyon floors in the highland areas upstream of the cities of Walla Walla and Milton-Freewater is typically less than 60 feet, with 30 feet more commonly observed. Beneath the valley floor the top of basalt often is hundreds of feet deep below overlying alluvial sediments.

Groundwater in the Walla Walla Basin occurs in two principal aquifer systems: (1) the unconfined to confined suprabasalt sediment (alluvial) aquifer system and (2) the underlying confined basalt aquifer system (Newcomb, 1965). The basalt aquifer system is regional in character, having limited hydraulic connection to the Walla Walla River, primarily in the canyons of the Blue Mountains. The alluvial aquifer system is the focus of the aquifer recharge program because of its high degree of hydraulic connection with streams on the valley floor.
The alluvial aquifer system, or alluvial aquifer, is found within a sequence of continental clastic sediments overlying the top of basalt (the Mio-Pliocene strata (upper coarse, fine and lower coarse units) and the Quaternary coarse unit). Beneath the Walla Walla Valley floor these sediments, and the alluvial aquifer system is up to 800 feet thick. The majority of the productive portions of the alluvial aquifer system are hosted by the Mio-Pliocene coarse unit although, at least locally, it is hosted in the overlying Quaternary coarse unit. The alluvial aquifer is generally characterized as unconfined, but it does, at least locally, display evidence of confined conditions. Preferential groundwater flow within the gravel aquifer is inferred to largely reflect the distribution of coarse sedimentary strata. General groundwater flow direction can be inferred from the alluvial aquifer water table map (Figure 3).

Figure 3 - Water table contours for the alluvial aquifer system.

The surficial hydrology of the Walla Walla Basin generally is defined by streams confined to steep-walled canyons in the foothills surrounding the valley, a distributary stream system as these streams exit the highlands and flow out onto the valley floor, and then, as the streams flow west, they coalesce into the main Walla Walla River channel. The distributary system formed as streams leaving the highlands entered the valley, went from higher to lower gradient and, as a consequence, deposited coarse sediment loads and formed a series of low angle, coalescing alluvial fans. Upon the alluvial fans in and around the cities of Walla Walla and Milton-Freewater these natural distributary channels still exist in part or in whole to this day. These channels are known today as the East Little Walla Walla River, West Little Walla Walla River, Mud Creek, Yellowhawk Creek, and Garrison Creek. Prior to the development of water resources in the valley, these distributary channels, with other (un-named) channels, served as high water channels that conveyed high
amounts of energy and water across the alluvial fan and away from the mainstem Walla Walla River and Mill Creek. The channels run for several miles, accumulating spring flow, before returning back to the River further down the valley (Figure 4).

Figure 4 - Map of the distributary stream networks of the Walla Walla River and Mill Creek. Historically these stream networks conveyed winter and spring high flows across the valley’s alluvial fans allowing for reduced flood pressure on the mainstem rivers, provided off-channel habitat and provided recharge to the alluvial aquifer system.

In recent decades the management and development of surface water resources has led to installation of flow control devices (irrigation head gates) at the head of the distributary channels. Over time, the management of the distributary network has become less natural. High flows during the winter and spring no longer have free access to the distributary network and the adjacent floodplains. This, along with the development of groundwater resources and the channelization of the valley’s rivers and creeks, has created a declining alluvial aquifer condition.
Generally, the ‘spreading out’ of water across the alluvial fans via distributary channels and adjacent floodplains, coupled with the high hydraulic conductivity of the underlying coarse sediment, function as a primary groundwater recharge mechanism for the entire alluvial aquifer. This seasonally recharged aquifer system in-turn feeds the valley’s springs, spring creeks and larger streams. This cycling of surface water to groundwater recharge, followed by later discharge in springs and as stream base flow creates a delay in discharge of these waters from the valley. Depending on local conditions, this delay can range from days to months, and even years (Jiménez, 2012).

The declining alluvial aquifer, coupled with high connectivity between surface water and alluvial groundwater, has created stream reaches where high seepage loss occurs and significant volumes of surface water drain to the aquifer (Figure 5 & 6). In recent years, the listing of steelhead and bull trout as threatened under the Endangered Species Act and the reintroduction of spring chinook salmon within the watershed, has led to out-of-court agreements between irrigators and Federal fishery agencies. As a result of these agreements, local irrigators are leaving a portion of their legal water rights instream as bypass water year round. For example, per civil agreement, Gardena Farm Irrigation District #13 (GFID) irrigators leave 18 cfs instream (bypass) throughout the year. However, depending on the water-year and a number of other factors, it is not unusual to have a significant portion (40-50%) of the bypass water seep into the underlying aquifer.

Spring fed creeks across the valley, sourced by springs discharging from the alluvial aquifer, have seen declining discharge since the earliest hydrogeologic studies were conducted by Piper (acting on behalf of the US Supreme Court) in the 1930s, Newcomb in the 1960s and Barker and MacNish in the 1970s. Water level declines in the alluvial aquifer since the 1930s and 1940s (Figures 7 & 8) are consistent with the general decline of the related springs (Figure 9). These trends lead one to conclude that there has generally been decreasing groundwater-sourced baseflow over the past several decades contributing to the Walla Walla River and other surface bodies during critical low-flow periods. This loss of groundwater baseflow to streams affects not only the amount of flow in the river but also leads to increased surface water temperature as the cold groundwater derived baseflow is lost.
Figure 5 - Results from the water budget analysis of the Walla Walla River in August 2009. Color indicates a given reach as either gaining or losing. Gains indicate groundwater discharging to the river and losses indicate surface water seeping into the ground (see WWBWC, 2012 for details or www.wwbwc.org/monitoring/monitoring-reports.html).

Figure 6 - Results from the water budget analysis of the Walla Walla River in August 2009. Color indicates a given reach as either gaining or losing. Gains indicate groundwater discharging to the river and losses indicate surface water seeping into the ground (see WWBWC, 2012 for details or www.wwbwc.org/monitoring/monitoring-reports.html).
Figure 7 - Hydrograph for Monitoring Well GW_16 showing the long-term decline in the alluvial aquifer system in the Walla Walla Basin.

Figure 8 - Hydrograph for Monitoring Well GW_19 showing the long-term decline in the alluvial aquifer system in the Walla Walla Basin.
Figure 9 - Hydrograph for McEvoy Spring Creek located just north of the WA-OR state line. Hydrograph shows the decline in spring performance over the last 80 years.

Aquifer Recharge Sites

Locher Road

The Locher Road site (Figure 10), located at the intersection of Stateline Road and Locher Road, is a former gravel quarry that has been operated by Gardena Farms Irrigation District #13 (GFID) as an aquifer recharge (AR) site since 2007. From 2006-2007 through the end of the 2010-2011 season, approximately 1/3 acre of the 4+ acre site was utilized for recharge. In late 2011, the site was reconstructed to allow infiltration over a 2.5 acre portion of the site (Figures 11-15). Inflow volume rates at the site increased from approximately 1.3 cfs to 3.5+ cfs. Total recharge volumes for the season are described below in the results section.

The Locher Road site has operated under successive one and two-year temporary use authorizations issued by Washington Department of Ecology (WADOE). In addition to the temporary use authorizations, in 2010 the Walla Walla Watershed Management Partnership (WWWMP), a locally led organization that co-manages Walla Walla Basin water resources with the State of Washington, passed a Local Water Plan (LWP) that allows GFID to utilize up to 5 cfs of its existing water right for AR (WWWMP, 2010). This authorization, like the temporary use authorization, is governed by the maintenance of minimum instream flows in the river (measured at the Detour Road gauging station), water quality testing, and hydrologic monitoring in local wells and surface water points.
Figure 10 – Walla Walla Basin Washington Aquifer Recharge Sites.
Figure 11 - Preliminary design for expansion of the Locher Road site’s main recharge basin in late 2011.

Figure 12 - Photo during expansion of the Locher Road site’s main recharge basin, December 2011.
Figure 13 - Photo of the completed expansion of the Locher Road site’s main recharge basin, December 2011.

Figure 14 - Photo of the Locher Road aquifer recharge site during operations.
Figure 15 - Aerial photographs showing the Locher Road site before (A) and after (B) the expansion that occurred in December 2011. The diversion and settling pond were not changed. During the expansion work, the ditch from the diversion flume to the settling pond was reinforced with additional rock and the main recharge basin was expanded from approximately 1/3 of an acre to approximately 2.5 acres.

**Stiller Pond**

In 2012 the WWBWC and the Walla Walla County Conservation District (WWCCD) partnered to develop this AR site (Figure 10 & 16). This site is currently operated under a Local Water Plan with the Walla Walla Watershed Management Partnership (WWWMP) to recharge up to 32 acre-feet of the landowners existing water right via a dry pond located on the Schwenke property, within the lower Mill Creek drainage. Additional authorization for an Environmental Enhancement Project (EEP) was issued in early 2014. This additional authorization allows for diversion of up to 991 acre-feet of water from Mill Creek to the Stiller Pond for AR.

In its current configuration the Stiller Pond site can recharge approximately 1-2 cfs depending upon other demands from the diversion system. Future plans include a new diversion structure and larger pump to allow the delivery of up to approximately 4 cfs to the site. Like the Locher Road site,
this authorization requires minimum instream flow to be met at two gages on Mill Creek and at the WADOE Walla Walla River gauging station at Detour Road and additional hydrologic monitoring and water quality analysis (GSI, 2012 and WWBWC, 2013).

Figure 16 - Stiller Pond Aquifer Recharge site during operations.

LAST CHANCE ROAD
The Last Chance Road site was constructed in June 2015 (Figure 10, 17 and 18). The site did not operate during the 2015 or 2016 recharge seasons, but is ready for future operations. The site includes two recharge features, an infiltration gallery and a new open ditch along the hillside. The project also installed a fish screen on the diversion from the West Little Walla Walla River. This site is currently permitted under a Local Water Plan with the Walla Walla Watershed Management Partnership (WWWMP) to recharge up to 250 acre-feet per year from November 1-May 30. Minimum instream flows (1 cfs) for the site will be measured at the WWBWC’s gauge on the West Little Walla Walla River at Swegle Road (S-227). In its current configuration, the Last Chance Road site can recharge up to 1 cfs of water from the West Little Walla Walla River. If the site operates in the future, an Environmental Enhancement Project permit may be sought for the site (WWWMP, 2014).
Figure 17 - Infiltration gallery area for the Last Chance Road Aquifer Recharge site.

Figure 18 - Irrigation ditch, fish screen and intake (back left) for the Last Chance Road Aquifer Recharge site.
**WA Mud Creek**

The WA Mud Creek site was constructed in the fall of 2015, but did not operate during the 2016 recharge season (Figure 10). The site encompasses two recharge areas with water delivered via two separate irrigation ditches. The first recharge area will be supplied by the Gardena Farms Canal on the south side of the property. Water from this canal will feed into an infiltration gallery in a draw up-gradient of Mud Creek. The second recharge area will be supplied by the Lowden #2 ditch on the northern side of the property. Water from this ditch will feed into an infiltration field within an existing pasture. The pasture will be reconfigured to enhance infiltration as much as possible. This site is currently permitted under a Local Water Plan with the Walla Walla Watershed Management Partnership (WWWMP) to recharge up to 783.7 acre-feet per year from November 1-May 30. The designed recharge areas are estimated to recharge approximately 1.5-2 cfs between the two sites. If the site operates in the future, an Environmental Enhancement Project permit may be sought for the site (WWWMP, 2014a).

**Water Year 2016 Recharge Season Results**

**Locher Road**

**Overview**

During the WY2016 recharge season, the Locher Road site operated under the Local Water Plan authorization because the temporary authorization had expired. The site operated from early February until early May. Minimum in-stream bypass flows did not prevent the site from operating during the WY2016 season until the early May. Site operations were shut down due to low instream flows in early May. (Figure 19).
Figure 19 – Water Year 2016 hydrograph for Washington Department of Ecology's Walla Walla River at Detour Road (32A100) gage.

**Alluvial Well Responses**

Groundwater monitoring (Figure 20) at the Locher Road site includes four “on-site” monitoring wells (GW_57, GW_70, GW_71 and GW_72), three down-gradient monitoring wells (GW_108, GW_110 and GW_122) and two down-gradient irrigation wells (GW_103 and GW_104). The four on-site wells surround the site with GW_70 up-gradient, GW_72 and GW_57 immediately down-gradient of the site and GW_71 farther down-gradient. Wells 70, 71 and 72 are shallow alluvial aquifer monitoring wells that were drilled in 2005 to monitoring site operations and aquifer response while well 57 was drilled in 1972-73 to be fully open to the entire gravel sequence. The “on-site” monitoring wells all show a similar response to canal and recharge operations (Figures 21-24). Water levels rise in early October with the start of the Gardena Farms Canal for fall irrigation. The canal was turned off in early-mid December. Starting in early December water levels show neutral to declining conditions until the canal turned on again in early February. Water levels increase due to aquifer recharge operations from early February through late April. Down-gradient wells do not show the same rapid response to canal or recharge operations (Figures 25-27). One of the offsite, distal, monitoring wells, GW_108, also show the influence of nearby groundwater pumping on alluvial aquifer water levels during recharge operations.
Figure 20 – Map showing groundwater monitoring sites for the Locher Road Aquifer Recharge Site.
Figure 21 - Hydrograph for GW_57 during the WY 2016 recharge season.

Figure 22 - Hydrograph for GW_70 during the WY 2016 recharge season.
Figure 23 - Hydrograph for GW_71 during the WY 2016 recharge season. The pressure transducer failed sometime before early February, 2016.

Figure 24 - Hydrograph for GW_72 during the WY 2016 recharge season.
Figure 25 - Hydrograph for GW_108 during the WY 2016 recharge season. The pressure transducer failed sometime in before mid-february.

Figure 26 - Hydrograph for GW_110 during the WY 2016 recharge season.
Figure 27 - Hydrograph for GW_122 during the WY 2016 recharge season.

**WATER QUALITY**

Full water quality data and laboratory QA records can be found in Appendix B.

**SOURCE WATER**

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**UP-GRADEINT WELL (GW_70 – L1)**

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### Mid-gradient Well (GW_72 – L3)

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<td>Chloride (mg/L)</td>
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### Down-gradient Well (GW_71 – L2)

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<td>Polychlorinated Biphenyls (pg/L)</td>
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### Stillier Pond

**Overview**

The WWCCD operated the Stillier Pond Aquifer Recharge site during the WY2016 recharge season. WWBWC staff collected monitoring data, including water quality samples while WWCCD managed and collected inflow data. The Stillier Pond site operated under the WWWMP Local Water Plan LW-10-02 which allows 32 acre-feet to be recharged to the shallow alluvial aquifer and the EEP temporary authorization for up to 991 acre-feet. Minimum in-stream flows did not prevent the site from operating during the WY2016 season until the early part of April (Figures 19, 28 and 29). Mill Creek was monitored at two locations, above the site at Wallula Road (Figure 28) and below the site at Swegle Road (Figure 29). During the WY2016 recharge season 278.06 acre-feet of water was delivered to the site.
Figure 28 - 2016 hydrograph for WWBWC’s Mill Creek at Wallula Road (S520) gage.

Figure 29 - 2016 hydrograph for WWBWC’s Mill Creek at Swegle Road (S512) gage. Note, this site was started once recharge operations started.
**Alluvial Well Responses**

Groundwater monitoring (Figure 30) at the Stiller Pond site includes four on-site monitoring wells (GW_136, GW_145, GW_146 and GW_147). The four on-site wells surround the site with GW_147 up-gradient, GW_136 immediately down-gradient of the site and GW_145 and GW_146 farther down-gradient. All of the on-site wells are purpose-built monitoring wells. All of the on-site wells show a similar response during and after recharge operations (Figures 31-34). Water levels start to rise coinciding with the start of recharge operations. Water levels appear to peak in late March or early April coinciding with the end of recharge operations. After recharge operations end in early April, water levels start to decline.

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Figure 30 - Map showing groundwater and surface water monitoring sites for the Stiller Pond Aquifer Recharge Site.
Figure 31 - Hydrograph for GW_136 during the WY 2016 recharge season.

Figure 32 - Hydrograph for GW_145 during the WY 2016 recharge season.
Figure 33 - Hydrograph for GW_146 during the WY 2016 recharge season.

Figure 34 - Hydrograph for GW_147 during the WY 2016 recharge season.
**WATER QUALITY**

Full water quality data and laboratory QA records can be found in Appendix B.

**SOURCE WATER**

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**UP-GRADIENT WELL (GW_147)**

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<th>February 3rd, 2016</th>
<th>April 7th, 2016</th>
<th>May 3rd, 2016</th>
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<tr>
<td>Nitrate</td>
<td>6</td>
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<td>44.2</td>
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<td>293</td>
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<tr>
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<td>32</td>
<td>30</td>
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<td>ND</td>
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<tr>
<td>Polychlorinated Biphenyls (pg/L)</td>
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**MID-GRADIENT WELL (GW_136)**

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<tr>
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**DOWN-GRADIENT WELL (GW_145)**

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**DOWN-GRADIENT WELL (GW_146)**

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<td>Total DCPA (µg/L)</td>
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<td>858</td>
<td>1100</td>
<td>1430</td>
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**Soil Quality**

Full soil quality data and laboratory QA records can be found in Appendix B.

---

**Figure 35** – Surface soil nitrate values at the Stiller Pond site during the WY2016 recharge season.

**Figure 36** - Subsurface (~1’ below ground surface) soil nitrate values at the Stiller Pond site during the WY2016 recharge season.
LAST CHANCE ROAD

OVERVIEW
The Last Chance Road site did not operate during the WY2016 recharge season. A pre-operations sample was collected, however no further samples were collected because the site did not operate (Figure 39). West Little Walla Walla River flows were monitored at the WWBWC’s S-227 gage (Figure 40).

Figure 37 – Surface soil Polychlorinated Biphenyls (PCBs) values at the Stiller Pond site during the WY2016 recharge season.

Figure 38 - Subsurface (~1’ below ground surface) soil Polychlorinated Biphenyls (PCBs) values at the Stiller Pond site during the WY2016 recharge season.
Figure 39 - Map showing groundwater monitoring sites for the Last Chance Road Aquifer Recharge Site.
Figure 40 – Water Year 2016 hydrograph for WWBWC’s West Little Walla Walla River at Swegle Road (S227) gage.

**WATER QUALITY**

Full water quality data and laboratory QA records can be found in Appendix B.

**SOURCE WATER (RECHARGE INTAKE)**

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**UP-GRADIENT WELL (GW_158)**

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**MID-GRADIENT WELL (GW_148)**

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**MID-GRADIENT WELL (GW_159)**

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**DOWN-GRADIENT WELL (GW_149)**

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WA MUD CREEK

OVERVIEW
The WA Mud Creek site did not operate during the WY2016 recharge season (Figure 41). The site was constructed in the fall of 2015 and is ready for future recharge operations. No water quality or soil quality samples were collected.

Figure 41 - Map showing groundwater monitoring sites for the WA Mud Creek Aquifer Recharge Site.

SUMMARY AND DISCUSSION

WATER LEVEL AND QUANTITY
The AR program summarized here simulates floodplain function and processes that have been lost due to irrigation and urban development and channelization of the river and stream channels for flood control and other uses. With continued AR activities at the Locher Road and Stiller Pond sites
we anticipate that increasing alluvial aquifer water levels could lead to the types of spring flow increases and increased groundwater inputs to streams and rivers that have been observed in recent years resulting from Oregon AR activities elsewhere in the valley. Also, the addition of the Last Chance Road and WA Mud Creek sites will likely increase spring and stream flows in the West Little Walla Walla River and Mud Creek respectively, when those sites are operated.

Over the course of the WY2016 recharge season, the aquifer recharge program in the Washington portion of the Walla Walla Basin put ~1,143.65 acre-feet (~372.66 million gallons) of winter/spring run-off water into the shallow alluvial aquifer at the Locher Road site (525.59 acre-feet and ~340 acre-feet during conveyance) and Stiller Pond (~278.06 acre-feet) AR sites. Water levels in the alluvial aquifer at both sites responded to AR activities. More data will need to be collected, especially at the Stiller Pond site, in order to establish trends and ongoing improvements to the alluvial aquifer system or surface water system.

The Locher Road site wells indicate improving groundwater levels from the start of the project in 2007 until approximately 2011-12. Water levels in the area start to show a yearly decline starting in the summer of 2012. These decreasing water levels coincide with the last phase of the Hyline piping project on the Oregon side of the border that was completed in 2012. Water levels around the Locher Road site have dropped approximately 1 foot per year since 2012 (Appendix A). Water levels in the area rise during recharge operations, however the volume of water added to the alluvial aquifer does not appear to be sufficient to overcome the regional deficit. Recharge operations during 2013-2015 were limited in length and volume. WY2016 recharge operations are a significant improvement. The complete impact of the WY2016 recharge operations at the Locher Road site will not be realized until after summer/fall time water levels are recorded. Piping of the Gardena Farms Canal (source water for Locher Road) would most likely increase the rate of decline in water levels in the area without proper mitigation.

Trends and impacts due to recharge operations at the Stiller Pond site cannot yet be inferred due to limited data. However, based upon the few years of data at the site, there appear to be positive trends in groundwater levels at all four monitoring wells. Additional years of operation and data collection will be needed to further evaluate the influence of this site both on groundwater and surface conditions.

**WATER QUALITY**

As mentioned previously in this report and in GSI, 2012a, aquifer recharge program operations do not appear to have degraded groundwater quality (Appendix B).

*The water quality data collected over several AR seasons from four different sites are interpreted to have not resulted in alluvial aquifer water quality degradation. Field parameters and major ion hydrochemical trends seen in monitoring well data commonly show reduced concentrations, indicating dilution of groundwater concentrations by AR operations. A few anomalies did occur in these trends, but low source water concentrations versus high monitoring well concentrations strongly suggest that AR operations were not the cause of these anomalies. There were no significant SOC detections from any site. Of the SOC detections seen in the data sets, SOC concentrations are low enough to be considered background levels*
and/or these detections were instances of localized transient introduction to the water table from an unaltered ground surface AR site (specifically HW).

Locher Road water and soil quality data was reviewed by WADOE staff and “based upon two year of results of water quality monitoring data at the Locher Road SAR site, Ecology has concluded that operation of the site is not contaminating groundwater with PCBs and chlorinated pesticides” (Kuttel, 2015). A similar review process is in process with the Stiller Pond site using data collected through the WY2015 recharge season.
REFERENCES


APPENDIX A - MONITORING WELL HYDROGRAPHS, INCLUDING ALL AVAILABLE DATA, FOR THE Locher Road and Stiller Pond Aquifer Recharge sites
Monitoring Well GW_57

- Manual Water Level Measurements
Monitoring Well GW_70

- Manual Water Level Measurements
Monitoring Well GW_103

- Manual Water Level Measurements

Water Level (feet bgs) [Green Line]

Water Temperature (°C) [Blue Line]

Date

Monitoring Well GW_110

- Manual Water Level Measurements

![Graph showing water level and temperature over time](image-url)
Monitoring Well GW_136

- Manual Water Level Measurements
APPENDIX B - WATER & SOIL QUALITY RESULTS FOR WY2016

Download Water and Soil Quality Data

www.wwbwc.org/images/Projects/AR/Reports/WY2016_Data.zip
Locher Road – WY2016
March 21, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 16-03235 - Locher Road

Dear Mr. Steve Patten,

Your project: Locher Road, was received on Friday February 12, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report
## Data Report

**Client Name:** Walla Walla Basin Watershed Council  
**Reference Number:** 16-03235  
**Project:** Locher Road  
**Report Date:** 3/21/16  
**Date Received:** 2/12/16  
**Approved by:** bj,dml,jaa,mvp  
**Authorized by:** Lawrence J Henderson, PhD  
**Director of Laboratories, Vice President**

**Sample Description:** GW_70 - Locher Road  
**Lab Number:** 7592  
**Sample Comment:**  
**Sample Date:** 2/11/16  
**Collected By:** Steven Patten  
**Date: 8:50 am**

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**Notes:**

- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
- D.F. - Dilution Factor  

If you have any questions concerning this report contact us at the above phone number.
# Data Report

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**Notes:**

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. = Dilution Factor

Form: cResult.rpt
## Data Report

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- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- DF = Dilution Factor
- SI = Single Injection
- MDL = Method Detection Limit
- pH Units = pH
- Temperature: °C
- Units = mg/L, mg CaCO3/L, mg/L, mg/L, mg/L, mg/L, TO1, and pH Units

---

Analyst: Steven Patten

Laboratory Number: 7593

Sample Description: GW_71 - Locher Road

Sample Date: 2/11/16 10:10 am

Collected By: Steven Patten

Sample Comment: Lab Number: 7593 - Locher Road

Sample Date: 2/11/16 10:10 am

Reference Number: 16-03235

Report Date: 3/21/16
## Data Report

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Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor

Form: cResult.rpt
### Data Report

**Sample Description:** Canal - Locher Road  
**Lab Number:** 7595  
**Sample Comment:**  
**Sample Date:** 2/11/16 10:45 am  
**Collected By:** Steven Patten

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**Notes:**  
ND = Not detected below the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
D.F. - Dilution Factor  

Form: cResult.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**Milton-Freewater, OR 97862**

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**Reference Number:** 16-03235  
**Project:** Locher Road

**Report Date:** 3/21/16  
**Date Analyzed:** 2/26/16  
**Analyst:** RJK  
**Analytical Method:** 8151A  
**Batch:** 8151W_160218  
**Approved By:** co.pdm.rjk

**Authorized by:**  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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Form: c608.rpt
**DATA REPORT**

**Reference Number:** 16-03235  
**Project:** Locher Road

**Report Date:** 3/21/16  
**Date Analyzed:** 2/17/16  
**Analyst:** HY  
**Analytical Method:** 8260C  
**Batch:** 8260W_160217  
**Approved By:** co.pdm,rjk

**Authorized by:**  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**810 South Main Street**  
**Milton-Freewater, OR 97862**

- **Lab Number:** 07594  
- **Field ID:** GW_72  
- **Sample Description:** Locher Road  
- **Matrix:** Water  
- **Sample Date:** 2/11/16  
- **Extraction Date:** 2/18/16  
- **Extraction Method:** 3510C

**Report Date:** 3/21/16  
**Date Analyzed:** 2/29/16  
**Analyst:** RJK  
**Analytical Method:** 8081B  
**Batch:** 8081w_160218  
**Approved By:** co.pdm,rjk

**Authorized by:**  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

---

**Lab Number:** 07594  
**Field ID:** GW_72  
**Sample Description:** Locher Road  
**Matrix:** Water  
**Sample Date:** 2/11/16  
**Extraction Date:** 2/18/16  
**Extraction Method:** 3510C

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Form: c608.rpt
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

Lab Number: 07594  
Field ID: GW_72  
Sample Description: Locher Road  
Matrix: Water  
Sample Date: 2/11/16  
Extraction Date: 2/17/16  
Extraction Method: 5030B

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Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. = Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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- D.F. - Dilution Factor.

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 07593  
**Field ID:** GW_71  
**Sample Description:** Locher Road  
**Matrix:** Water  
**Sample Date:** 2/11/16  
**Extraction Date:** 2/18/16  
**Extraction Method:** 3510C

**Report Date:** 3/21/16  
**Date Analyzed:** 2/29/16  
**Analytical Method:** 8081B  
**Batch:** 8081w_160218  
**Approved By:** co.pdm.rjk

**Authorized by:** Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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**Notes:**

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street, Milton-Freewater, OR 97862

**Lab Number:** 07593  
**Field ID:** GW_71  
**Sample Description:** Locher Road  
**Matrix:** Water  
**Sample Date:** 2/11/16  
**Extraction Date:** 2/17/16  
**Extraction Method:** 5030B

**Reference Number:** Project: Locher Road

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**Notes:**  
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.  
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D.F. - Dilution Factor.

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D.F. - Dilution Factor.
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 07592  
**Field ID:** GW_70

**Sample Description:** Locher Road  
**Matrix:** Water  
**Sample Date:** 2/11/16  
**Extraction Date:** 2/18/16  
**Extraction Method:** 3510C

### Results

**- Organochlorine Pesticides**

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### CAS | Compound | RESULT | Flag | UNITS | PQL | MRL | MDL | D.F. | Lab | COMMENT
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75-34-3 | 1,1 - DICHLOROETHANE | ND | | | | | | | | |
75-35-4 | 1,1 - DICHLOROETHYLENE | ND | | | | | | | | |
563-58-6 | 1,1 - DICHLOROPROPENE | ND | | | | | | | | |
71-55-6 | 1,1,1,1 - TRICHLOROETHANE | ND | | | | | | | | |
630-20-6 | 1,1,1,2 - TETRACHLOROETHANE | ND | | | | | | | | |
79-00-5 | 1,1,2 - TRICHLOROETHANE | ND | | | | | | | | |
79-34-5 | 1,1,2,2 - TETRACHLOROETHANE | ND | | | | | | | | |
106-93-4 | 1,2 - DIBROMOETHANE (EDB) | ND | | | | | | | | |
95-50-1 | 1,2 - DICHLOROBENZENE (ortho) | ND | | | | | | | | |
107-06-2 | 1,2 - DICHLOROETHANE | ND | | | | | | | | |
78-87-5 | 1,2 - DICHLOROPROPANE | ND | | | | | | | | |
87-61-6 | 1,2,3 - TRICHLOROBENZENE | ND | | | | | | | | |
96-18-4 | 1,2,3 - TRICHLOROPROPANE | ND | | | | | | | | |
120-82-1 | 1,2,4 - TRICHLOROBENZENE | ND | | | | | | | | |
95-63-6 | 1,2,4 - TRICHLOROPROPANE | ND | | | | | | | | |
96-12-8 | 1,2,4 - TRIMETHYLBENZENE | ND | | | | | | | | |
541-73-1 | 1,3 - DICHLOROBENZENE (meta) | ND | | | | | | | | |
142-29-9 | 1,3 - DICHLOROPROPANE | ND | | | | | | | | |
108-67-8 | 1,3,5 - TRIMETHYLBENZENE | ND | | | | | | | | |
106-46-7 | 1,4 - DICHLOROBENZENE (para) | ND | | | | | | | | |
594-20-7 | 2,2 - DICHLOROPROPANE | ND | | | | | | | | |
71-43-2 | BENZENE | ND | | | | | | | | |
108-86-1 | BROMOBENZENE | ND | | | | | | | | |
74-97-5 | BROMOCHLOROMETHANE | ND | | | | | | | | |
75-27-4 | BROMODICHLOROMETHANE | ND | | | | | | | | |
75-25-2 | BROMOFORM | ND | | | | | | | | |
74-83-9 | BROMOMETHANE | ND | | | | | | | | |

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## Calibration Check

**Reference Number:** 03/21/16  
**Report Date:** 16-03235

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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*Notation:
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NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent3.rpt
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Laboratory Fortified Blank**

Reference Number: 16-03235  
Report Date: 03/21/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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*Notation:
% Recovery = \( \frac{\text{Result of Analysis}}{\text{True Value}} \times 100 \)

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### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **16-03235**  
Report Date: **03/21/16**

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% Recovery = (Result of Analysis)/(True Value) * 100  
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FORM: QCIndependent3.rpt
SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 16-03235
Report Date: 03/21/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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**Report Date:** 03/21/16

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% Recovery = (Result of Analysis)/True Value) * 100  
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# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

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*Notation:*

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**SAMPLE INDEPENDENT QUALITY CONTROL REPORT**

Quality Control Sample  
Reference Number: **16-03235**  
Report Date: **03/21/16**

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*Notation:*  
% Recovery = \((\text{Result of Analysis})/\text{(True Value)}) \times 100  
NA = Indicates % Recovery could not be calculated.

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### SAMPLE DEPENDENT QUALITY CONTROL REPORT

**Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report**

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%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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**Laboratory Fortified Matrix (MS)**

**200.7_160222A**

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**200.8_160222WW**

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**245.1_160223**

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**8081W_160218**

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</table>

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<table>
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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

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FORM: QC Dependent.rpt
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</tbody>
</table>

**%RPD** = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

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FORM: QC Dependent.rpt
# Qualifier Definitions

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<th>Definition</th>
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<td>H5</td>
<td>This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.</td>
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<tr>
<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
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<tr>
<td>IM</td>
<td>Matrix induced bias assumed</td>
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<td>IS</td>
<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
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<tr>
<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
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<tr>
<td>LE</td>
<td>The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.</td>
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<tr>
<td>LR</td>
<td>Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.</td>
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</table>

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
<table>
<thead>
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<th>Location</th>
<th>2/11/16 20CC</th>
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<td></td>
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**Sample ID:**

- Sample 1: 16-03235
- Sample 2: 12-03235
- Sample 3: 17-03235
- Sample 4: 18-03235
- Sample 5: 19-03235
- Sample 6: 20-03235
- Sample 7: 21-03235
- Sample 8: 22-03235
- Sample 9: 23-03235
- Sample 10: 24-03235

**Sample Information:**

- **Sample Date:** 2/11/16
- **Sample Time:** 1200
- **Sample Location:**
  - Sample 1: Location 1
  - Sample 2: Location 2
  - Sample 3: Location 3
  - Sample 4: Location 4
  - Sample 5: Location 5
  - Sample 6: Location 6
  - Sample 7: Location 7
  - Sample 8: Location 8
  - Sample 9: Location 9
  - Sample 10: Location 10

**Sample Analysis Request:**

- **Analysis Requested:** Other
- **Other Analysis:**
  - Project Name: Other Analysis
  - Description: Other Analysis
  - Method: Other Analysis
  - Sample Type: Other Analysis
  - Date: Other Analysis

**Sample Form:**

- Chain of Custody & Labels Agree
- Evidence of Cooling
- Customer Status Intact
- Sample Received Initial
- Sample Received Initail
- Sample Received Initial
- Sample Received Initial
- Sample Received Initial

**Sample Form Instructions:**

- **Instructions:**
  - Enter number of containers
  - For each sample location, enter the required analysis type
  - Use one line per sample location
  - Include the sample name, location, and date
  - Include the turn around time required
  - Include the analyst name
  - Include the date and time
  - Include the sample number
  - Include the sample type
  - Include the sample description
  - Include the sample analysis
  - Include the sample date
  - Include the sample time
  - Include the sample location

**Sample Analysis Request Form:**

- **Analysis Requested:** Other
- **Other Analysis:**
  - Project Name: Other Analysis
  - Description: Other Analysis
  - Method: Other Analysis
  - Sample Type: Other Analysis
  - Date: Other Analysis

**Sample Analysis Request Form Instructions:**

- **Instructions:**
  - Enter number of containers
  - For each sample location, enter the required analysis type
  - Use one line per sample location
  - Include the sample name, location, and date
  - Include the turn around time required
  - Include the analyst name
  - Include the date and time
  - Include the sample number
  - Include the sample type
  - Include the sample description
  - Include the sample analysis
  - Include the sample date
  - Include the sample time
  - Include the sample location

**Sample Analysis Request Form Notes:**

- **Notes:**
  - Include any additional notes or comments about the sample
  - Include any special instructions or requirements for the sample
  - Include any contact information for the person handling the sample

**Sample Analysis Request Form Contact Information:**

- **Contact Name:** Other Analysis
- **Contact Phone:** Other Analysis
- **Contact Email:** Other Analysis
- **Contact Address:** Other Analysis
- **Contact City:** Other Analysis
- **Contact State:** Other Analysis
- **Contact Zip:** Other Analysis
- **Contact Relationship:** Other Analysis
- **Contact Title:** Other Analysis
- **Contact Notes:** Other Analysis

**Sample Analysis Request Form Additional Information:**

- **Additional Information:**
  - Include any additional information related to the sample
  - Include any additional information related to the analysis
  - Include any additional information related to the sample form
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<th>Total Containers</th>
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<tr>
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</tbody>
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### Instructions

1. Use one line per sample location.
2. Be specific in test requests.
3. New test results, each meta-individual.
4. Check off analyses to be performed.
5. Enter number of containers for each sample location.

### Analyses Requested

- **Other**
- **ORPA / CERCLA**
- **Close Water Act**
- **Safe Drinking Water Act**
- **CERCLA Regulatory Program**

### Sample Information

- **Sample Requested (Must Include Fax or Email)**
- **Sample Temp. Requested (Must Include Fax or Email)**
- **Sample Received Intact**
- **Evidence of Cooling**
- **Evidence of Cooling**
- **Temp. of Water**
- **S. Soil Water**
- **SW - Surface Water**
- **GW - Ground Water**
- **DW - Drinking Water**

### Chain of Custody

- **Sample No.**
- **Received By**
- **Date**
- **Time**
- **Returned By**
- **Date**
- **Time**

### Additional Information

- **Comments**
February 29, 2016

Vista Work Order No. 1600124

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on February 12, 2016. This sample set was analyzed on a standard turn-around time, under your Project Name 'Locher Road'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director
Sample Condition on Receipt:

Four groundwater samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. PCB-11 was detected at 6.90 pg/L in the Method Blank. No other analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
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<tbody>
<tr>
<td>Case Narrative</td>
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<tr>
<td>Sample Inventory</td>
<td>4</td>
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<tr>
<td>Analytical Results</td>
<td>5</td>
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<tr>
<td>Qualifiers</td>
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# Sample Inventory Report

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ANALYTICAL RESULTS
### Sample ID: Method Blank

**Sample ID:** E PA Method 1668C  
**Matrix:** Aqueous  
**Sample Size:** 1.00 L  
**QC Batch:** B6B0104  
**Date Extracted:** 23-Feb-2016 8:12  
**Lab Sample:** B6B0104-BLK1  
**Date Analyzed:** 24-Feb-16 17:16  
**Column:** ZB-1  
**Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit
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**Qualifiers**

**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit
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- DL - Sample specific estimated detection limit
- EMPC - Estimated maximum possible concentration
- LCL-UCL - Lower control limit - upper control limit
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DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
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LCL-UCL = Lower control limit - upper control limit
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- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 8:50

### Sample Data
- **Matrix:** Groundwater
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600124-01
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-16 18:21
- **Column:** ZB-1
- **Analyst:** MAS

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- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
### Sample ID: GW-70

**Sample Data**
- **Matrix:** Groundwater
- **Sample Size:** 1.02 L

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 8:50

**Laboratory Data**
- **Lab Sample:** 1600124-01
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-16 18:21
- **Column:** ZB-1
- **Analyst:** MAS

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Total triCB    | 200             | 205   |         |           |
Total tetraCB  | 55.4            | 56.3  | B       |           |
Total pentaCB  | 7.46            | 10.8  |         |           |
Total hexaCB   | 2.95            | 4.26  | B       |           |
Total heptaCB  | ND              | 1.41  |         |           |

**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit
Sample ID: GW-70
EPA Method 1668C

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 8:50

### Sample Data
- **Matrix:** Groundwater
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600124-01
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-2016 18:21
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 10:10

### Sample Data
- **Matrix:** Groundwater
- **Sample Size:** 1.03 L

### Laboratory Data
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- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Analyzed:** 23-Feb-2016 9:36
- **Date Extracted:** 24-Feb-16 20:26
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
### Sample Data
- **Sample ID:** GW-71
- **Matrix:** Groundwater
- **Sample Size:** 1.03 L

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 10:10

### Laboratory Data
- **Lab Sample:** 1600124-02
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-2016 19:26
- **Column:** ZB-1
- **Analyst:** MAS

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**Qualifiers:**
- **DL:** Sample specific estimated detection limit
- **EMPC:** Estimated maximum possible concentration
- **LCL-UCL:** Lower control limit - upper control limit

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**Client Data:**  
Name: Walla Walla Basin Watershed Council  
Project: Locher Road  
Date Collected: 11-Feb-2016 10:10  
**Sample Data:**  
Matrix: Groundwater  
Sample Size: 1.03 L  
**Laboratory Data:**  
Lab Sample: 1600124-02  
QC Batch: B6B0104  
Date Received: 12-Feb-2016 9:36  
Date Extracted: 23-Feb-2016 8:12  
Date Analyzed: 24-Feb-16 19:26  
Column: ZB-1  
Analyst: MAS  
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**Notes:**  
EMPC - Estimated maximum possible concentration  
DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit
### Client Data

- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 9:30

### Sample Data

- **Matrix:** Groundwater
- **Sample Size:** 1.03 L

### Laboratory Data

- **Lab Sample:** 1600124-03
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Analyzed:** 24-Feb-16 20:31
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EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit

LCL-UCL - Lower control limit - upper control limit
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 9:30

### Sample Data
- **Matrix:** Groundwater
- **Sample Size:** 1.03 L

### Laboratory Data
- **Lab Sample:** 1600124-03
- **QC Batch:** B6B0104
- **Date Analyzed:** 24-Feb-2016 20:31
- **Column:** ZB-1
- **Analyst:** MAS
- **Date Received:** 12-Feb-2016 9:36
- **Date Extracted:** 23-Feb-2016 8:12

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit
## Sample ID: GW-72

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 9:30

### Sample Data
- **Matrix:** Groundwater
- **Sample Size:** 1.03 L

### Laboratory Data
- **Lab Sample:** 1600124-03
- **QC Batch:** B6B0104
- **Date Analyzed:** 24-Feb-16 20:31
- **Date Received:** 12-Feb-2016 9:36
- **Date Extracted:** 23-Feb-2016 8:12
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC:** Estimated maximum possible concentration
**DL:** Sample specific estimated detection limit
**LCL-UCL:** Lower control limit - upper control limit
### Sample ID: GW-72

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 9:30

**Sample Data**
- **Matrix:** Groundwater
- **Sample Size:** 1.03 L

**Laboratory Data**
- **Lab Sample:** 1600124-03
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-16 20:31
- **Column:** ZB-1
- **Analyst:** MAS

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**Qualifiers**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
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**Sample Data**

- **Matrix:** Groundwater
- **Sample Size:** 1.02 L

**Laboratory Data**

- **Lab Sample:** 1600124-04
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Analyzed:** 24-Feb-16 21:37
- **Column:** ZB-1
- **Analyst:** MAS

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- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-16 21:37
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**

- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
**Sample ID: CANAL**

**Client Data**

- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 10:45

**Sample Data**

- **Matrix:** Groundwater
- **Sample Size:** 1.02 L

**Laboratory Data**

- **Lab Sample:** 1600124-04
- **QC Batch:** B6B0104
- **Date Analyzed:** 24-Feb-16 21:37
- **Column:** ZB-1
- **Analyst:** MAS

**Analyte Conc. (pg/L) DL EMPC Qualifiers**

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**Analyte Conc. (pg/L) DL EMPC Qualifiers**

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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**
## Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Locher Road
- **Date Collected:** 11-Feb-2016 10:45

## Sample Data
- **Matrix:** Groundwater
- **Sample Size:** 1.02 L

## Laboratory Data
- **Lab Sample:** 1600124-04
- **Date Received:** 12-Feb-2016 9:36
- **QC Batch:** B6B0104
- **Date Extracted:** 23-Feb-2016 8:12
- **Date Analyzed:** 24-Feb-2016 21:37
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC:** Estimated maximum possible concentration

**DL:** Sample specific estimated detection limit

**LCL-UCL:** Lower control limit - upper control limit
DATA QUALIFIERS & ABBREVIATIONS

B  This compound was also detected in the method blank.

D  Dilution

E  The associated compound concentration exceeded the calibration range of the instrument.

H  Recovery and/or RPD was outside laboratory acceptance limits.

I  Chemical Interference

J  The amount detected is below the Lower Calibration Limit of the instrument.

*  See Cover Letter

Conc.  Concentration

DL  Sample-specific estimated detection limit

MDL  The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.

EMPC  Estimated Maximum Possible Concentration

NA  Not applicable

RL  Reporting Limit – concentrations that correspond to low calibration point

ND  Not Detected

TEQ  Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.
# CERTIFICATIONS

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*Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.*
# NELAP Accredited Test Methods

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## MATRIX: Biological Tissue

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<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
</tbody>
</table>

## MATRIX: Drinking Water

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613</td>
</tr>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
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## MATRIX: Non-Potable Water

<table>
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<tbody>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Dioxin by GC/HRMS</td>
<td>EPA 613</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
<tr>
<td>MATRIX: Solids</td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td></td>
</tr>
<tr>
<td><strong>Description of Test</strong></td>
<td><strong>Method</strong></td>
</tr>
<tr>
<td>Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613</td>
</tr>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
</tbody>
</table>
**CHAIN OF CUSTODY**

**Work Order 1600124**

**Invoice to:** Name: CHESS STREET, Company: WINSTON, Address: 810 S. MAIN, City: VANCOUVER, State: WA, Zip: 98662, Ph#: 541-935-2170, Fax#: 541-935-2170

**Method of Shipment:** UPS

**Container(s):**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Date</th>
<th>Time</th>
<th>Location/Sample Description</th>
<th>Z</th>
<th>A</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>GW-70</td>
<td>2/11/16</td>
<td>8:50</td>
<td>Locher Rd</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>GW-71</td>
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<td>10:10</td>
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<td>CANAR</td>
<td>2/11/16</td>
<td>10:45</td>
<td>Locher Rd</td>
<td>X</td>
<td></td>
<td></td>
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</table>

**Special Instructions/Comments:**

---

**SEND**

**DOCUMENTATION AND RESULTS TO:**

Name: STEVEN PATTON

Company: Loomis WC

Address: 810 S. MAIN

City: VANCOUVER, State: WA, Zip: 98662

Phone: 541-935-2170

Fax: 541-935-2170

Email: steven_patten@loomiswc.com

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Paper/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum

AQ = Aqueous, O = Other

* Bottle Preservative Type: T = Triosulfate, O = Other

Container Types: A = 1 Liter Amber, G = Glass Jar

P = PUF, T = MMS Train, O = Other

---

Work Order 1600124

**WHITE - ORIGINAL**

**YELLOW - ARCHIVE**

**PINK - COPY**

Page 32 of 33
### SAMPLE LOG-IN CHECKLIST

**Vista Project #:** 1600124  
**TAT:** Std

<table>
<thead>
<tr>
<th>Samples Arrival:</th>
<th>Date/Time</th>
<th>Initials:</th>
<th>Location:</th>
<th>Shelf/Rack:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02/12/16</td>
<td>V3B6</td>
<td>WR-2</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Logged In:</th>
<th>Date/Time</th>
<th>Initials:</th>
<th>Location:</th>
<th>Shelf/Rack:</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>02/12/16</td>
<td>V3B6</td>
<td>WR-2</td>
<td>B3</td>
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</table>

<table>
<thead>
<tr>
<th>Delivered By:</th>
<th>FedEx</th>
<th>UPS</th>
<th>On Trac</th>
<th>DHL</th>
<th>Hand Delivered</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Preservation:</th>
<th>Ice</th>
<th>Blue Ice</th>
<th>Dry Ice</th>
<th>None</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Temp °C:</th>
<th>3</th>
<th>(uncorrected)</th>
<th></th>
<th>1001</th>
<th>Thermometer ID: IR-2</th>
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</thead>
<tbody>
<tr>
<td>Temp °C:</td>
<td></td>
<td>(corrected)</td>
<td>Time:</td>
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</table>

<table>
<thead>
<tr>
<th>Adequate Sample Volume Received?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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<tbody>
<tr>
<td>Holding Time Acceptable?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Container(s) Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Custody Seals Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Documentation Present?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airbill</td>
<td>Trk #</td>
<td>1262E 3F 7011549016</td>
<td></td>
</tr>
<tr>
<td>Sample Container Intact?</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Sample Custody Seals Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain of Custody / Sample Documentation Present?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC Anomaly/Sample Acceptance Form completed?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| If Chlorinated or Drinking Water Samples, Acceptable Preservation? |     |    |    |
| Na₂S₂O₃ Preservation Documented? | COC | Sample Container | None |
| Shipping Container | Vista | Client | Retain | Return | Dispose |

**Comments:**
April 21, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 16-07437 - Walla Walla Basin Aquifer Recharge

Dear Mr. Steve Patten,

Your project: Walla Walla Basin Aquifer Recharge, was received on Thursday April 07, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

[Signature]

Patrick Miller, MS
QA Officer

Enclosures: Data Report
<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Sample Information</th>
<th>Analytical Method</th>
<th>Notes</th>
<th>Created by</th>
</tr>
</thead>
<tbody>
<tr>
<td>17241</td>
<td>Locher Road - Intake</td>
<td>200.8</td>
<td>High LFB results for Cu and Zn; samples rerun on 4/19/16 for Cu Zn LFB</td>
<td>BJ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>results for 4/19/16 acceptable. Confirmation results for 4/19/16</td>
<td></td>
</tr>
</tbody>
</table>
### Data Report

**Client Name:** Walla Walla Basin Watershed Council  
**Project:** Walla Walla Basin Aquifer Recharge  
**Report Date:** 4/21/16

**Sample Description:** Locher Road - Intake  
**Sample Date:** 4/6/16 10:35 am  
**Collected By:** Steven Patten

<table>
<thead>
<tr>
<th>CAS ID#</th>
<th>Parameter</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>DF</th>
<th>Method</th>
<th>Lab</th>
<th>Analyst</th>
<th>Batch</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-10617</td>
<td>TURBIDITY</td>
<td>7.37</td>
<td>0.10</td>
<td></td>
<td>NTU</td>
<td>1.0</td>
<td>180.1</td>
<td>4/7/16</td>
<td>RHF</td>
<td>TURB_160407</td>
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<tr>
<td>7439-97-6</td>
<td>MERCURY</td>
<td>ND</td>
<td>0.0002</td>
<td>1.40E-05</td>
<td>mg/L</td>
<td>1.0</td>
<td>245.1</td>
<td>4/8/16</td>
<td>MMH</td>
<td>2451_160408</td>
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<tr>
<td>16887-00-6</td>
<td>CHLORIDE</td>
<td>1.1</td>
<td>0.1</td>
<td>0.0043</td>
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<td>300.0</td>
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<td>MMH</td>
<td>I160408A</td>
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<td>16984-48-8</td>
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<td>ND</td>
<td>0.1</td>
<td>0.0049</td>
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<td>MMH</td>
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<tr>
<td>14808-79-8</td>
<td>SULFATE</td>
<td>2.1</td>
<td>0.2</td>
<td>0.0087</td>
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<td>300.0</td>
<td>4/9/16</td>
<td>MMH</td>
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<tr>
<td>NA</td>
<td>BICARBONATE</td>
<td>34.6</td>
<td>5.00</td>
<td></td>
<td>mgCaCO₃/L</td>
<td>1.0</td>
<td>310.2</td>
<td>4/8/16</td>
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<td>3102_160408</td>
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<tr>
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<td>CORROSIVITY</td>
<td>-1.84</td>
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<tr>
<td>E-11712</td>
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<td>15</td>
<td>5</td>
<td></td>
<td>Color Units</td>
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<td>SM2120 B</td>
<td>4/7/16</td>
<td>RHF</td>
<td>COLOR_160407</td>
<td>pH: 7.5</td>
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<td>E-11734</td>
<td>ODOR</td>
<td>ND</td>
<td>1</td>
<td></td>
<td>TON</td>
<td>1.0</td>
<td>SM2150</td>
<td>4/7/16</td>
<td>RHF</td>
<td>ODOR_160407</td>
<td>Temperature: 41.2</td>
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<tr>
<td>E-10173</td>
<td>TOTAL DISSOLVED SOLIDS (TDS)</td>
<td>76</td>
<td>10</td>
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<td>SM2540 C</td>
<td>4/7/16</td>
<td>MMH</td>
<td>TDS_160407</td>
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<tr>
<td>E-10139</td>
<td>HYDROGEN ION (pH)</td>
<td>7.48</td>
<td>H5</td>
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<td>MMH</td>
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<tr>
<td>14797-55-8</td>
<td>NITRATE-N</td>
<td>0.28</td>
<td>0.01</td>
<td>0.002</td>
<td>mg/L</td>
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<td>SM4500-NO3 F</td>
<td>4/7/16</td>
<td>ANP</td>
<td>NO3NO2_160407</td>
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<td>ORTHO-PHOSPHATE</td>
<td>0.04</td>
<td>0.005</td>
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<td>mg/L</td>
<td>1.0</td>
<td>SM4500-P F</td>
<td>4/7/16</td>
<td>ANP</td>
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<tr>
<td>NA</td>
<td>SURFACTANTS</td>
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<td>1.0</td>
<td>SM5540 C</td>
<td>4/8/16</td>
<td>KF</td>
<td>AMTE5540_160406</td>
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<td>7440-70-2</td>
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<td>0.5</td>
<td>0.009</td>
<td>mg/L</td>
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<td>200.7/3010A</td>
<td>4/13/16</td>
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<td>2007_160413B</td>
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<td>0.0012</td>
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<td>4/13/16</td>
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<td>0.001</td>
<td>0.0002</td>
<td>mg/L</td>
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<td>7440-38-2</td>
<td>ARSENIC</td>
<td>0.00024 J</td>
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<td>4/13/16</td>
<td>MVP</td>
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<td>0.00014</td>
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<td>200.8/3010A</td>
<td>4/13/16</td>
<td>MVP</td>
<td>2008_160413WW</td>
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<tr>
<td>7440-47-3</td>
<td>CHROMIUM</td>
<td>0.0003 J</td>
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<td>0.00011</td>
<td>mg/L</td>
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<td>4/13/16</td>
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</tr>
<tr>
<td>7440-50-8</td>
<td>COPPER</td>
<td>0.002</td>
<td>0.002</td>
<td>8.6E-05</td>
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<td>200.8/3010A</td>
<td>4/13/16</td>
<td>MVP</td>
<td>2008_160413WW</td>
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<tr>
<td>7439-92-1</td>
<td>LEAD</td>
<td>0.0002 J</td>
<td>0.0005</td>
<td>0.00012</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.8/3010A</td>
<td>4/13/16</td>
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<tr>
<td>7782-49-2</td>
<td>SELENIUM</td>
<td>ND</td>
<td>0.001</td>
<td>0.0022</td>
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<td>200.8/3010A</td>
<td>4/13/16</td>
<td>MVP</td>
<td>2008_160413WW</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor

If you have any questions concerning this report contact us at the above phone number.
## Data Report

### Sample Description:
Locher Road - GW-70

### Lab Number:
17242

### Sample Comment:

<table>
<thead>
<tr>
<th>CAS ID#</th>
<th>Parameter</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>DF</th>
<th>Method</th>
<th>Lab</th>
<th>Batch</th>
<th>Analyzed</th>
<th>Analyst</th>
<th>Comment</th>
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</thead>
<tbody>
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### Notes:
- **ND** = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- **PQL** = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **D.F.** - Dilution Factor

**Sample Date:** 4/6/16 9:50 am
**Report Date:** 4/21/16
**Reference Number:** 16-07437
**Collected By:** Steven Patten

**Form:** CDrill_2.rpt
### Data Report

**7723-14-0**

**TOTAL PHOSPHORUS**

0.129

0.010

0.0061

mg/L

1.0

SM4500-P F/SM4500-P B(6)

a

4/11/16

ANP

TPHOS_160411

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**Sample Description:** Locher Road - GW-71

**Lab Number:** 17243

**Sample Date:** 4/6/16

**11:10 am**

**Collected By:** Steven Patten

---

- **CAS ID#**
- **Parameter**
- **Result**
- **PQL**
- **MDL**
- **Units**
- **DF**
- **Method**
- **Lab**
- **Analyzed**
- **Analyst**
- **Batch**
- **Comment**

---

**Notes:**

- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor
# Data Report

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**Notes:**
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

Form: cRslt_2.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 17244  
**Field ID:** Locher Road  
**Sample Description:** GW-72  
**Matrix:** Water  
**Sample Date:** 4/6/16  
**Extraction Date:** 4/13/16  
**Extraction Method:** 3535

**Reference Number:** 16-07437  
**Project:** Walla Walla Basin Aquifer Re

**Report Date:** 4/21/16  
**Date Analyzed:** 4/19/16  
**Analyst:** CO  
**Analytical Method:** 8081B  
**Batch:** 8081B_160413  
**Approved By:** pdm.rjk

**Authorized by:**  
Patrick Miller, MSQA Officer

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**Notes:**

- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.  
- ND - indicates the compound was not detected above the PQL or MDL.  
- Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.  
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
**Data Report**

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 17244  
**Field ID:** Locher Road  
**Sample Description:** GW-72  
**Matrix:** Water  
**Sample Date:** 4/6/16  
**Extraction Date:** 4/12/16  
**Extraction Method:** 3510C

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

- **Lab Number:** 17244  
- **Field ID:** Locher Road  
- **Sample Description:** GW-72  
- **Matrix:** Water  
- **Sample Date:** 4/6/16  
- **Extraction Date:** 4/11/16  
- **Extraction Method:** 5030B

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- D.F. - Dilution Factor.
- Form: c608.rpt

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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

Form: c608.rpt
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17243  
Field ID: Locher Road  
Sample Description: GW-71  
Matrix: Water  
Sample Date: 4/6/16  
Extraction Date: 4/13/16  
Extraction Method: 3535

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- D.F. - Dilution Factor.

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Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

**Lab Number:** 17243  
**Field ID:** Locher Road  
**Sample Description:** GW-71  
**Matrix:** Water  
**Sample Date:** 4/6/16  
**Extraction Date:** 4/12/16  
**Extraction Method:** 3510C

**Report Date:** 4/21/16  
**Date Analyzed:** 4/18/16  
**Analyst:** KAH  
**Analytical Method:** 8151A  
**Batch:** 8151W_160412  
**Approved By:** pdm.rjk

**Authorized by:** Patrick Miller, MS QA Officer

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D.F. - Dilution Factor.

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### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17243  
Field ID: Locher Road  
Sample Description: GW-71  
Matrix: Water  
Sample Date: 4/6/16  
Extraction Date: 4/11/16  
Extraction Method: 5030B

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1. Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
2. ND - indicates the compound was not detected above the PQL or MDL.
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4. Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
5. D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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**DATA REPORT**

Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17242  
Field ID: Locher Road  
Sample Description: GW-70  
Matrix: Water  
Sample Date: 4/6/16  
Extraction Date: 4/13/16  
Extraction Method: 3535

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Form: c608.rpt
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 17242  
**Field ID:** Locher Road  
**Sample Description:** GW-70  
**Matrix:** Water  
**Sample Date:** 4/6/16  
**Extraction Date:** 4/12/16  
**Extraction Method:** 3510C

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D.F. - Dilution Factor.

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Form: c608.rpt
### DATA REPORT

#### Client Name:
Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

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- D.F. - Dilution Factor.
# DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17241  
Field ID: Locher Road  
Sample Description: Intake  
Matrix: Surface Water  
Sample Date: 4/6/16  
Extraction Date: 4/13/16  
Extraction Method: 3535

## - Organochlorine Pesticides

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If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

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- **50594-66-1** ACIFLUORFEN 114 ug/L 0.1 0.1 0.06 1.00 a
- **55338-06-3** TRICLOPYR ND ug/L 0.1 0.1 0.06 1.00 a
- **94-75-7** 2,4 - D ND ug/L 0.1 0.1 0.04 1.00 a
- **94-82-6** 2,4 DB ND ug/L 0.8 0.8 0.32 1.00 a
- **93-72-1** 2,4,5 - TP (SILVEX) ND ug/L 0.1 0.1 0.02 1.00 a
- **93-76-5** 2,4,5 T ND ug/L 0.1 0.1 0.01 1.00 a
- **75-99-0** DALAPON ND ug/L 1.3 1.3 0.49 1.00 a
- **1918-00-9** DICAMBA ND ug/L 0.1 0.1 0.01 1.00 a
- **120-36-5** DICHLORPROP ND ug/L 0.1 0.1 0.09 1.00 a
- **88-85-7** DINOSEB ND ug/L 0.1 0.1 0.03 1.00 a
- **87-86-5** PENTACHLOROPHENOL ND ug/L 0.04 0.04 0.02 1.00 a
- **51-36-5** 3,5 - DICHLOROBENZOIC ACID ND ug/L 0.5 0.5 0.08 1.00 a
- **25057-89-4** BENTAZON ND ug/L 0.5 0.5 0.08 1.00 a
- **133-90-4** CHLORAM苯 ND ug/L 0.2 0.2 0.03 1.00 a
- **1861-32-1** TOTAL DCPA ND ug/L 0.1 0.1 0.06 1.00 a
- **1918-02-1** PICLORAM ND ug/L 0.2 0.2 0.04 1.00 a

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## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 17241  
**Field ID:** Locher Road  
**Sample Description:** Intake  
**Matrix:** Surface Water  
**Sample Date:** 4/6/16  
**Extraction Date:** 4/11/16  
**Extraction Method:** 5030B

**Reference Number:** 16-07437  
**Project:** Walla Walla Basin Aquifer Recharge

**Report Date:** 4/21/16  
**Date Analyzed:** 4/11/16  
**Analyst:** HY  
**Analytical Method:** 8260C  
**Batch:** 8260W_160411  
**Approved By:** pdm, rjk  
**Authorized by:** Patrick Miller, MS QA Officer

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**Notes:**
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- NO indicates the compound was not detected above the PQL or MDL.
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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. = Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
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D.F. - Dilution Factor.

## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**

Reference Number: **16-07437**  
Report Date: **04/21/16**

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**  
Reference Number: **16-07437**  
Report Date: **04/21/16**

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*Notation:*

\[
\% \text{ Recovery} = \frac{\text{Result of Analysis}}{\text{True Value}} \times 100
\]

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent3.rpt
### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Reference Number:** 04/21/16  
**Report Date:** 16-07437  
**Laboratory Fortified Blank**  
**Report Date:** 04/21/16

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*Notation:  
% Recovery = (Result of Analysis)/True Value) * 100  
NA = Indicates % Recovery could not be calculated.

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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Reference Number: 16-07437  
Report Date: 04/21/16

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**Notation:**

% Recovery = (Result of Analysis)/(True Value) * 100

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- **Report Date:** 04/21/16

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*Notation:

- % Recovery = (Result of Analysis)/(True Value) * 100
- NA = Indicates % Recovery could not be calculated

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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**Reference Number:** 16-07437

**Report Date:** 04/21/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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FORM: QCIndependent3.rpt
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Report Date: **04/21/16**

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent3.rpt
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Report Date: 04/21/16

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*Notation:*  
% Recovery = (Result of Analysis)/(True Value) * 100  
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*Notation:  
% Recovery = (Result of Analysis)/True Value * 100  
NA = Indicates % Recovery could not be calculated.*

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Method Blank**

**Reference Number:** 16-07437  
**Report Date:** 04/21/16

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*Notation:

- % Recovery = (Result of Analysis)/(True Value) * 100
- NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

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*Notation:*

- \% Recovery = (Result of Analysis)/(True Value) * 100
- NA = Indicates \% Recovery could not be calculated.

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## SAMPLE DEPENDENT QUALITY CONTROL REPORT

**Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report**

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**%RPD** = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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NA = Indicates %RPD could not be calculated
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%RPD = Relative Percent Difference
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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.
Only Duplicate sample with detections are listed in this report
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
FORM: QC Dependent.rpt
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</table>

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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<th>Batch</th>
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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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FORM: QC Dependent.rpt
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<th>Qualifier</th>
<th>Definition</th>
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<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
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<tr>
<td>IM</td>
<td>Matrix induced bias assumed</td>
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<tr>
<td>INH</td>
<td>The sample was non-homogeneous</td>
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<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
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<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
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<td>LE</td>
<td>The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.</td>
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<td>LR</td>
<td>Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.</td>
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Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
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<th>Purpose</th>
<th>Project</th>
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*Instruments*

**Project**
- Agulher Recreacion Water and Soil 2019

**Contact Information**
- Phone: 541-992-7170
- FAX: 541-992-7179
- Email: agulher@wec.org

**Address**
- 810 South Main Street
- Willamette Valley, Oregon
- 97382

**Analysis Requested**
- Please complete all applicable shaded sections.
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<th>Other</th>
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<th>Clean Water Act</th>
<th>Site Drilling Water Act</th>
<th>Check Regulator Program</th>
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</table>

**Instruments**

1. Use one line per sample location
2. Be specific in analysis requests
3. New list each metal individually (now) High-Time (50% surrogate)
4. Check all analytes to be performed for each sample location
5. Enter number of containers (Non-REU only)

**Chain of Custody / Analysis Request**

- Email:
- Phone:
- Address:
- Bill To: Walla Walla Basin Watered Council

**Project Details**

- Project:
- Site:
- Permit #:
- P.O. Box:
- Fax:
- City:
- Zip:
- Phone:
- Email:
- PO #:
- Ref #: 97282
- Address:
- Bill To: Walla Walla Basin Watered Council

Please complete all applicable shaded sections.
June 7, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 16-10884 - Aquifer Recharge Water 2016

Dear Mr. Steve Patten,

Your project: Aquifer Recharge Water 2016, was received on Thursday May 12, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

[Signature]

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report
June 7, 2016

Case Narrative

Reference: 16-10884

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FORM: CaseNarrative.rpt
# Data Report

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City, State:** Milton-Freewater, OR 97862

**Reference Number:** 16-10884  
**Project:** Aquifer Recharge Water  
**Year:** 2016

**Date:** 6/7/16  
**Report Date:** 5/12/16  
**Approved by:** anp,bj,clc,mvp, mvp

**Authorized by:** Lawrence J Henderson, PhD  
**Title:** Director of Laboratories, Vice President

---

## Sample Description:

**Lab Number:** 24774  
**Sample Comment:** Locher Road - Intake

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**Notes:**

- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor

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If you have any questions concerning this report contact us at the above phone number.

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Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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Notes:
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- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

Form: cResult.rpt
## Data Report

**Reference Number:** 16-10884  
**Report Date:** 6/7/16

---

### CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment
---|---|---|---|---|---|---|---|---|---|---|---|---
E-10617 | TURBIDITY | 0.32 | 0.10 | NTU | 1.0 | 180.1 | a | 5/12/16 | RHF | TURB_160512 |
7439-97-6 | MERCURY | ND | 0.0002 | 1.40E-05 | mg/L | 1.0 | 245.1 | a | 5/16/16 | MMH | 245.1_160516 |
16887-00-8 | CHLORIDE | 3.4 | 0.1 | 0.0043 | mg/L | 1.0 | 300.0 | a | 5/13/16 | MHH | I160512A |
16894-48-8 | FLUORIDE | 0.12 | 0.1 | 0.0049 | mg/L | 1.0 | 300.0 | a | 5/13/16 | MHH | I160512A |
14808-79-8 | SULFATE | 23.9 | 0.2 | 0.0087 | mg/L | 1.0 | 300.0 | a | 5/13/16 | MHH | I160512A |
NA | BICARBONATE | 106 | 5.0 | mg | 1.0 | 310.2 | a | 5/16/16 | ANP | 310.2_160516 |
NA | CARBONATE | ND | 5.0 | mgCaCO3/L | 1.0 | 310.2 | a | 5/16/16 | ANP | 310.2_160516 |
NA | CORROSIVITY | -1.1 | | SI | 1.0 | SM203 | a | 5/20/16 | msp | COR_160520 |
E-11712 | COLOR | 6 | 5 | Color Units | 1.0 | SM2150 | a | 5/12/16 | RHF | COLOR_160512 |
E-11734 | ODOR | ND | 1 | TON | 1.0 | SM2150 | a | 5/12/16 | RHF | ODOR_160512 |
E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 280 | 10 | mg/L | 1.0 | SM2540 C | a | 5/12/16 | MHH | TDS_160512 |
E-10139 | HYDROGEN ION (pH) | 7.08 | H5 | pH Units | 1.0 | SM4500-H+ B | a | 5/16/16 | RHF | PH_160512 |
14797-55-8 | NITRATE-N | 16.7 | 0.10 | 0.002 | mg/L | 10.0 | SM4500-NO3 F | a | 5/13/16 | ANP | NO3NO2_160513 |
14265-44-2 | ORTHO-PHOSPHATE | 0.09 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 5/13/16 | ANP | OPHOS_160512 |
NA | SURFACTANTS | ND | 0.05 | 0.05 | mg/L | 1.0 | SM5440 C | 5/26/16 | KF | AMTE5440_160521 |
7440-70-2 | CALCIUM | 33.8 | 0.5 | 0.009 | mg/L | 1.0 | 200.7 | a | 5/19/16 | BJ | 200.7_160519B |
7439-89-6 | IRON | 0.02 | J | 0.050 | mg/L | 1.0 | 200.7 | a | 5/19/16 | BJ | 200.7_160519B |
7439-96-5 | MANGANESE | ND | 0.001 | 0.0002 | mg/L | 1.0 | 200.7 | a | 5/19/16 | BJ | 200.7_160519B |
7440-38-2 | ARSENIC | 0.00029 | J | 0.0005 | 7.93E-05 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7440-39-3 | BARIUM | 0.051 | | 0.00014 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7440-43-9 | CADMIUM | ND | 0.00025 | 2.08E-05 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7440-47-3 | CHROMIUM | 0.00015 | J | 0.0005 | 0.00012 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7440-50-8 | COPPER | 0.003 | 0.002 | 8.63E-05 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7439-92-1 | LEAD | ND | 0.0005 | 5.53E-05 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7782-49-2 | SELENIUM | ND | 0.001 | 0.00016 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7440-22-4 | SILVER | ND | 0.0002 | 2.27E-05 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
7440-66-6 | ZINC | 0.0016 | J | 0.0025 | 0.00047 | mg/L | 1.0 | 200.8 | a | 5/24/16 | MVP | 200.8_16052WW2 |
E. Coli | | <1.0 | 1 | MPN/100mL | 1.0 | SM9223 B.2.b/Colilert-18 | b | 5/13/16 | CLH | qtl_160512 |
TOTAL COLIFORM | 1.0 | 1 | MPN/100mL | 1.0 | SM9223 B.2.b/Colilert-18 | b | 5/13/16 | CLH | qtl_160512 |
7723-14-0 | TOTAL PHOSPHORUS | 0.101 | 0.010 | 0.003 | mg/L | 1.0 | SM4500-P F/SM4500-P B(R) | a | 5/18/16 | ANP | TPHOS_160518 |

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- D.F. - Dilution Factor

---

Form: oResult.rpt
### Data Report

**Sample Description:** Locher Road - GW_72  
**Lab Number:** 24777  
**Sample Comment:**  
**Sample Date:** 5/12/16 10:15 am  
**Collected By:** Steven Patten

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- **D.F.** = Dilution Factor

**Reference Number:** 16-10884  
**Report Date:** 6/7/16
## DATA REPORT

### Lab Number: 24777
- **Field ID:** Locher Road
- **Sample Description:** GW_72
- **Matrix:** Water
- **Sample Date:** 5/12/16
- **Extraction Date:** 5/18/16
- **Extraction Method:** 3535

### Client Name: Walla Walla Basin Watershed Council
- **Address:** 810 South Main Street
  - **City:** Milton-Freewater
  - **State:** OR
  - **ZIP:** 97862

### Project: Aquifer Recharge Water 2016
- **Report Date:** 6/7/16
- **Date Analyzed:** 5/24/16
- **Analyst:** CO
- **Batch:** 8081B_160518
- **Approved By:** pdm.rjk

### Analytical Method:
- **Report Number:** 16-10884

### CAS Number | Compound | RESULT | Flag | UNITS | Lab QL | Permit QL | MDL | D.F. | Lab |
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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
DATA REPORT

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Report Date: 6/7/16
Date Analyzed: 5/19/16
 Analyst: KAH
Analytical Method: 8151A
Batch: 8151W_160518

Authorized by:
Lawrence J Henderson, PhD
Director of Laboratories, Vice President

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
## DATA REPORT

**Reference Number:** 16-10884  
**Project:** Aquifer Recharge Water 2014

### Client Information
- **Client Name:** Walla Walla Basin Watershed Council  
  **Address:** 810 South Main Street, Milton-Freewater, OR 97862

### Laboratory Information
- **Lab Number:** 24777  
  **Field ID:** Locher Road  
  **Sample Description:** GW_72

### Analysis Details
- **Matrix:** Water  
  **Sample Date:** 5/12/16  
  **Extraction Date:** 5/16/16  
  **Extraction Method:** 5030B

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- D.F. - Dilution Factor.
- a: unanalyzed sample

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Notes:
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- D.F. = Dilution Factor.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City & State:** Milton-Freewater, OR 97862

**Lab Number:** 24776  
**Field ID:** Locher Road  
**Sample Description:** GW_71  
**Matrix:** Water  
**Sample Date:** 5/12/16  
**Extraction Date:** 5/18/16  
**Extraction Method:** 3535

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**- Organochlorine Pesticides**

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 24776  
**Field ID:** Locher Road  
**Sample Description:** GW_71  
**Matrix:** Water  
**Sample Date:** 5/12/16  
**Extraction Date:** 5/18/16  
**Extraction Method:** 3510C

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**Notes:**  
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Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.  
D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

Lab Number: 24776  
Field ID: Locher Road  
Sample Description: GW_71  
Matrix: Water  
Sample Date: 5/12/16  
Extraction Date: 5/16/16  
Extraction Method: 5030B

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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

Lab Number: 24775  
Field ID: Locher Road  
Sample Description: GW_70  
Matrix: Water  
Sample Date: 5/12/16  
Extraction Date: 5/18/16  
Extraction Method: 3535

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- D.F. - Dilution Factor.
- If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Reference Number:** 16-10884  
**Project:** Aquifer Recharge Water 2016

**Lab Number:** 24775  
**Field ID:** Locher Road

**Sample Description:** GW_70  
**Matrix:** Water

**Sample Date:** 5/12/16  
**Extraction Date:** 5/18/16  
**Extraction Method:** 3510C

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

**Lab Number:** 24774  
**Field ID:** Locher Road  
**Sample Description:** Intake  
**Matrix:** Water  
**Sample Date:** 5/12/16  
**Extraction Date:** 5/18/16  
**Extraction Method:** 3535

---

**Reference Number:** [16-10884](#)  
**Project:** Aquifer Recharge Water 201-

---

**Report Date:** 6/7/16  
**Date Analyzed:** 5/24/16  
**Analyst:** CO  
**Analytical Method:** 8081B  
**Batch:** 8081B_160518  
**Approved By:** pdm.rjk

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**Authorized by:**  
**Lawrence J Henderson, PhD**  
**Director of Laboratories, Vice President**

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#### Table: Organochlorine Pesticides

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- D.F. - Dilution Factor.

---

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
## DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

| Lab Number: | 24774 |
| Field ID: | Locher Road |
| Sample Description: | Intake |
| Matrix: | Water |
| Sample Date: | 5/12/16 |
| Extraction Date: | 5/18/16 |
| Extraction Method: | 3510C |

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Form: c608.rpt
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 24774  
**Field ID:** Locher Road  
**Sample Description:** Intake  
**Matrix:** Water  
**Sample Date:** 5/12/16  
**Extraction Date:** 5/16/16  
**Extraction Method:** 5030B

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Notes:
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**

**Reference Number:** 16-10884  
**Report Date:** 06/07/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Laboratory Fortified Blank**

Reference Number: **16-10884**  
Report Date: **06/07/16**

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Laboratory Reagent Blank**

Reference Number: **16-10884**
Report Date: **06/07/16**

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FORM: QCIndependent3.rpt
### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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**Reference Number:** 16-10884  
**Report Date:** 06/07/16

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*Notation:*

% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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Report Date: 06/07/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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Reference Number: **16-10884**  
Report Date: **06/07/16**

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

### Quality Control Sample

**Reference Number:** 16-10884  
**Report Date:** 06/07/16

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**Notation:**

- % Recovery = (Result of Analysis)/(True Value) * 100
- NA = Indicates % Recovery could not be calculated.

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FORM: QCIndependent3.rpt
# SAMPLE DEPENDENT QUALITY CONTROL REPORT

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%RPD = Relative Percent Difference

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FORM: QC Dependent.rpt
Laboratory Fortified Matrix (MS)

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%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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FORM: QC Dependent.rpt
### Batch Analyte Sample Duplicate

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<th>Spike Result</th>
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#### 8151W_160518

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#### I160512A

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FORM: QC Dependent.rpt
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## Qualifier Definitions

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<th>Definition</th>
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<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
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<tr>
<td>INH</td>
<td>The sample was non-homogeneous</td>
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<td>IS</td>
<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
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<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
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<td>LR</td>
<td>Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.</td>
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<td>Matrix spike recovery was low; the associated blank spike recovery was acceptable.</td>
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<td>See case narrative.</td>
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</tbody>
</table>

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
<table>
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<th>Date/Time</th>
<th>Location</th>
<th>Sample ID</th>
<th>Sample Type</th>
<th>Quantity</th>
<th>Date</th>
<th>Time</th>
<th>Comments</th>
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| 5/11/6 | Field 1 | Sample 1 | SW - Surface Water | 1.0 L | 5/11/6 | 10:00 | Cleaned-
| 5/11/6 | Field 2 | Sample 2 | SW - Surface Water | 1.0 L | 5/11/6 | 11:00 | Cleaned-
| 5/11/6 | Field 3 | Sample 3 | SW - Surface Water | 1.0 L | 5/11/6 | 12:00 | Cleaned-

**Analyses Requested**

- SW - Surface Water
- GW - Ground Water
- DW - Drinking Water
- WW - Wastewater
- OL - Oil

**Special Instructions**

- Please complete all applicable shaded sections.
- Phone: 541-998-7170
- Fax: 541-998-7170
- Address: 810 S Main Street
- Bill to: Walla Walla Basin Watershed Council
- Email: steve@wallawallawatershed.org
- Report to: Walla Walla Basin Watershed Council

**Chain of Custody:**

- Sample ID:
- Date:
- Time:
- Sample:
- Analyst:
- Phone:
- Fax:
- Address:
- Bill to:
March 9, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 16-02539 - Walla Walla Basin Aquifer Recharge

Dear Mr. Steve Patten,

Your project: Walla Walla Basin Aquifer Recharge, was received on Thursday February 04, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report
## Case Narrative

**Reference:** 16-02539

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Sample Information</th>
<th>Analytical Method</th>
<th>Notes</th>
<th>Created by</th>
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</table>

Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor

If you have any questions concerning this report contact us at the above phone number.
## Data Report

<table>
<thead>
<tr>
<th>Reference Number: 16-02539</th>
<th>Report Date: 3/9/16</th>
</tr>
</thead>
</table>

### SELENIUM
- **Code:** 7782-49-2
- **Concentration:** 0.00033 J mg/L
- **Method:** 200.8/3010A
- **Date:** 2/9/16
- **Location:** MVP
- **Report:** 200.8_160209WW

### SILVER
- **Code:** 7440-22-4
- **Concentration:** 0.0002 mg/L
- **Method:** 200.8/3010A
- **Date:** 2/9/16
- **Location:** MVP
- **Report:** 200.8_160209WW

### ZINC
- **Code:** 7440-66-6
- **Concentration:** 0.004 mg/L
- **Method:** 200.8/3010A
- **Date:** 2/9/16
- **Location:** MVP
- **Report:** 200.8_160209WW

### TOTAL PHOSPHORUS
- **Code:** 7723-14-0
- **Concentration:** 0.081 mg/L
- **Method:** SM4500-P F/SM4500-P F B(5)
- **Date:** 2/9/16
- **Location:** ANP
- **Report:** TPHOS_160209

### Notes:
- **ND:** Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- **PQL:** Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **D.F.:** Dilution Factor

---

Form: cResult.rpt
# Data Report

**Sample Description:** GW_136 - Stiller Pond  
**Lab Number:** 5989  
**Sample Comment:**  
**Sample Date:** 2/3/16 11:45 am  
**Collected By:** Steven Patten

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<td>2/9/16</td>
<td>ANP</td>
<td>TPHOS_160209</td>
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</table>

**Notes:**  
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
DF - Dilution Factor
### CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
0.4 | TURBIDITY | 1.40 | 0.10 | NTU | 1.0 | 180.1 | a | 2/4/16 | RHF | TURB_160204 |
ND | MERCURY | ND | 0.0002 | 1.40E-05 | mg/L | 1.0 | 245.1 | a | 2/16/16 | MMH | 245.1_160216 |
21 | CHLORIDE | 0.1 | 0.0043 | mg/L | 1.0 | 300.0 | a | 2/16/16 | MMH | I160204A |
0.21 | FLUORIDE | 0.1 | 0.0049 | mg/L | 1.0 | 300.0 | a | 2/16/16 | MMH | I160204A |
24.2 | SULFATE | 0.2 | 0.0087 | mg/L | 1.0 | 300.0 | a | 2/16/16 | MMH | I160204A |
-0.42 | CORROSIVITY | 5 | 5 | Color Units | 1.0 | SM1220 B | a | 2/4/16 | RHF | COLOR_160204 |
ND | ODOR | ND | 1 | TON | 1.0 | SM2150 | a | 2/4/16 | RHF | ODOR_160204 |
188 | BICARBONATE | 1 | mg | CaCO3/L | 1.0 | SM2320 B | a | 2/9/16 | MVP | ALK_160204A |
ND | CARBONATE | ND | 1 | mg CaCO3/L | 1.0 | SM2320 B | a | 2/9/16 | MVP | ALK_160204A |
321 | TOTAL DISSOLVED SOLIDS (TDS) | 10 | mg/L | 1.0 | SM2540 C | a | 2/9/16 | MMH | TDS_160209 |
7.40 | HYDROGEN ION (pH) | H5 | pH Units | 1.0 | SM4500-H B | a | 2/4/16 | RHF | PH_160204 |
4.12 | NITRATE-N | 0.010 | 0.0024 | mg/L | 1.0 | SM4500-NO3 F | a | 2/18/16 | ANP | NO3_160216 |
4.70 | TOTAL NITRATE/NITRITE | 0.01 | 0.0028 | mg/L | 1.0 | SM4500-NO3 F | a | 2/18/16 | ANP | NO3_160216 |
0.13 | ORTHO-PHOSPHATE | 0.01 | 0.0023 | mg/L | 1.0 | SM4500-P F | a | 2/16/16 | BJ | OPHOS_160205 |
ND | SURFACTANTS | ND | 0.025 | 0.025 | mg/L | 1.0 | SM5440 C | a | 2/16/16 | KF | AMTE420_160206 |
47.0 | CALCIUM | 0.5 | 0.009 | mg/L | 1.0 | 200.7/3010 A | a | 2/9/16 | BJ | 200.7_160209B |
0.21 | IRON | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010 A | a | 2/9/16 | BJ | 200.7_160209B |
0.005 | MANGANESE | 0.001 | 0.0002 | mg/L | 1.0 | 200.7/3010 A | a | 2/9/16 | BJ | 200.7_160209B |
0.0019 | ARSENIC | 0.0005 | 8.11E-05 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.058 | BARIUM | 0.001 | 0.00014 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.00025 | CADMIUM | 8.11E-05 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.0003 | CHROMIUM | 0.001 | 0.00011 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.0013 | COPPER | 0.002 | 8.63E-05 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
ND | LEAD | ND | 0.0005 | 0.00012 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.0008 | SELENIUM | 0.001 | 0.00022 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
ND | SILVER | ND | 6.30E-05 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.0013 | ZINC | 0.0025 | 0.00047 | mg/L | 1.0 | 200.8/3010 A | a | 2/9/16 | MVP | 200.8_160206W |
0.149 | TOTAL PHOSPHORUS | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P | a | 2/9/16 | ANP | TPHOS_160209 |

**Notes:**
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor
## Data Report

### Sample Description: GW-146 - Stiller Pond

### Lab Number: 5991

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**Notes:**
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

**Form:** cResult.rpt

**Reference Number:** 16-02539

**Report Date:** 3/9/16
## Data Report

### Sample Description:
GW-147 - Stiller Pond

### Lab Number:
5992

### Sample Date:
2/3/16

### Report Date:
3/9/16

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### Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor
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- D.F. - Dilution Factor
## Data Report

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- **Lab Number:** 5994
- **Sample Comment:**

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- **PQL** = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **D.F.** = Dilution Factor

Form: cResult.rpt
# DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

---

**Lab Number:** 05994  
**Field ID:** Field Blank  
**Sample Description:** Field Blank  
**Matrix:** Water  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/10/16  
**Extraction Method:** 3510C

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**Notes:**  
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.  
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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

**Lab Number:** 05994  
**Field ID:** Field Blank  
**Sample Description:** Field Blank  
**Matrix:** Water  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 5030B

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**Notes:**  
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.  
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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

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**Reference Number:** 16-02539  
**Project:** Walla Walla Basin Aquifer Re

**Report Date:** 3/9/16  
**Date Analyzed:** 2/10/16  
**Analyst:** CO  
**Analytical Method:** 8081B  
**Batch:** 8081B_W160210  
**Approved By:** co,hy,pdm  
**Authorized by:** Lawrence J Henderson, PhD  
**Director of Laboratories, Vice President**

### Organochlorine Pesticides

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 05993  
Field ID: Field Dup  
Sample Description: Field Dup  
Matrix: Water  
Sample Date: 2/3/16  
Extraction Date: 2/9/16  
Extraction Method: 3510C

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- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Report Date: 3/9/16  
Date Analyzed: 2/8/16  
Analyst: RJK  
Batch: 8260W_160208

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D.F. - Dilution Factor.
## DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

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Reference Number: 16-02539  
Project: Walla Walla Basin Aquifer Re

Report Date: 3/9/16  
Date Analyzed: 2/10/16  
Analyst: CO  
Analytical Method: 8081B  
Batch: 8081B_W160210  
Approved By: co,hy,pdm  
Authorized by:  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

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## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR  **Zip:** 97862

**Lab Number:** 05992  
**Field ID:** GW-147

**Sample Description:** Stillers Pond

**Matrix:** Water

**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16

**Extraction Method:** 5030B

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If you have any questions concerning this report contact us at the above phone number.

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## DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 05991  
Field ID: GW-146  
Sample Description: Stiller Pond  
Matrix: Water  
Sample Date: 2/3/16  
Extraction Date: 2/10/16  
Extraction Method: 3510C

Reference Number: 16-02539  
Project: Walla Walla Basin Aquifer Recharge

Report Date: 3/9/16  
Date Analyzed: 2/10/16  
Analyst: CO  
Analytical Method: 8081B  
Batch: 8081B_W160210  
Approved By: co.hy.pdm

Authorized by:  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

### - Organochlorine Pesticides

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D.F. - Dilution Factor.  

If you have any questions concerning this report contact us at the above phone number.
**DATA REPORT**

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

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**Reference Number:** 16-02539  
Project: Walla Walla Basin Aquifer Re

**Report Date:** 3/9/16  
Date Analyzed: 2/10/16  
 Analyst: RJK  
**Analytical Method:** 8151A  
Batch: 8151W_160209  
**Approved By:** co_hy_pdm

**Authorized by:**

Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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Form: c608.rpt
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

**Reference Number:** 16-02539  
**Project:** Walla Walla Basin Aquifer Recharge

**Lab Number:** 05991  
**Field ID:** GW-146  
**Sample Description:** Stiller Pond  
**Matrix:** Water  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 5030B

### CAS  Compound | RESULT | UNITS | PQL | MRL | MDL | D.F. | Lab | COMMENT
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75-34-3  | 1,1 - DICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |  
75-35-4  | 1,1 - DICHLOROETHYLENE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |  
563-58-6  | 1,1 - DICHLOROPROPENE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |  
71-55-6  | 1,1,1 - TRICHLOROETHANE | ND | ug/L | 0.1 | 0.05 | 1.00 | a |  
630-20-6  | 1,1,1,2 - TETRACHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |  
79-00-5  | 1,1,2 - TRICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |  
79-34-5  | 1,1,2,2 - TETRACHLOROETHANE | ND | ug/L | 0.4 | 0.15 | 1.00 | a |  
106-93-4  | 1,2 - DIBROMOETHANE (EDB) | ND | ug/L | 0.4 | 0.15 | 1.00 | a |  
95-50-1  | 1,2 - DICHLOROBENZENE (ortho) | ND | ug/L | 0.4 | 0.08 | 1.00 | a |  
107-06-2  | 1,2 - DICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |  
78-87-5  | 1,2 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |  
87-61-6  | 1,2,3 - TRICHLOROBENZENE | ND | ug/L | 0.4 | 0.08 | 1.00 | a |  
96-18-4  | 1,2,3 - TRICHLOROPROPANE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |  
120-82-1  | 1,2,4 - TRICHLOROBENZENE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |  
95-63-6  | 1,2,4 - TRIMETHYLBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |  
96-12-8  | 1,2-DIBROMO-3-CHLOROPROPANE | ND | ug/L | 1.0 | 0.17 | 1.00 | a |  
541-73-1  | 1,3 - DICHLOROBENZENE (meta) | ND | ug/L | 0.4 | 0.07 | 1.00 | a |  
142-29-9  | 1,3 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |  
108-67-8  | 1,3,5 - TRIMETHYLBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |  
106-46-7  | 1,4 - DICHLOROBENZENE (para) | ND | ug/L | 0.4 | 0.06 | 1.00 | a |  
594-20-7  | 2,2 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.22 | 1.00 | a |  
71-43-2  | BENZENE | ND | ug/L | 0.4 | 0.16 | 1.00 | a |  
108-86-1  | BROMOBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |  
74-97-5  | BROMOCHLOROMETHANE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |  
75-27-4  | BROMODICHLOROMETHANE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |  
75-25-2  | BROMOFORM | ND | ug/L | 0.4 | 0.2 | 1.00 | a |  
74-83-9  | BROMOMETHANE | ND | ug/L | 0.4 | 0.3 | 1.00 | a |

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Notes:
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- Screening Only
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- D.F. - Dilution Factor.
## DATA REPORT

### Client Name:
Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

### Lab Number:
05990  
Field ID: GW-145

### Sample Description:
Still Pond

### Matrix:
Water

### Sample Date:
2/3/16

### Extraction Date:
2/10/16

### Extraction Method:
3510C

### CAS Compound | RESULT | UNITS | PQL | MRL | MDL | D.F. | Lab |
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### Notes:
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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862  

Lab Number: 05990  
Field ID: GW-145  
Sample Description: Stiller Pond  
Matrix: Water  
Sample Date: 2/3/16  
Extraction Date: 2/9/16  
Extraction Method: 3510C

**CAS**  | **Compound**  | **RESULT**  | **Flag** | **UNITS**  | **PQL**  | **MRL**  | **MDL**  | **D.F.**  | **Lab**  | **COMMENT**  
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---  
50594-66-1 | ACIFLUORFEN | ND | ug/L | 0.1 | 0.15 | 1.00 | a  
55336-06-3 | TRICLOPYR | ND | ug/L | 0.1 | 0.02 | 1.00 | a  
94-75-7 | 2,4 - D | ND | ug/L | 0.1 | 0.05 | 1.00 | a  
94-82-6 | 2,4 DB | ND | ug/L | 0.8 | 0.22 | 1.00 | a  
93-72-1 | 2,4,5 - TP (SILVEX) | ND | ug/L | 0.1 | 0.04 | 1.00 | a  
93-76-5 | 2,4,5 T | ND | ug/L | 0.1 | 0.03 | 1.00 | a  
75-99-0 | DALAPON | ND | ug/L | 1.3 | 0.77 | 1.00 | a  
1918-00-9 | DICAMBA | ND | ug/L | 0.1 | 0.03 | 1.00 | a  
120-36-5 | DICHLORPROP | ND | ug/L | 0.1 | 0.05 | 1.00 | a  
88-85-7 | DINOSEB | ND | ug/L | 0.1 | 0.13 | 1.00 | a  
94-74-6 | MCPA | ND | ug/L | 0.1 | 0.03 | 1.00 | a  
7085-19-0 | MCPP | ND | ug/L | 0.1 | 0.03 | 1.00 | a  
87-86-5 | PENTACHLOROPHENOL | ND | ug/L | 0.04 | 0.02 | 1.00 | a  
51-36-5 | 3,5 - DICHLOROBENZOIC ACID | ND | ug/L | 0.5 | 0.05 | 1.00 | a  
25057-88-1 | BENTazon | ND | ug/L | 0.5 | 0.03 | 1.00 | a  
133-90-4 | CHLORAMÈN | ND | ug/L | 0.2 | 0.03 | 1.00 | a  
1861-32-1 | TOTAL DCPA | ND | ug/L | 0.1 | 0.04 | 1.00 | a  
1918-02-1 | PICLORAM | ND | ug/L | 0.2 | 0.03 | 1.00 | a

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 05990  
Field ID: GW-145  
Sample Description: Stillie Pond  
Matrix: Water  
Sample Date: 2/3/16  
Extraction Date: 2/8/16  
Extraction Method: 5030B

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- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
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**DATA REPORT**

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**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR  
**ZIP:** 97862

Lab Number: 05989  
Field ID: GW_136  
Sample Description: Stiller Pond  
Matrix: Water  
Sample Date: 2/3/16  
Extraction Date: 2/10/16  
Extraction Method: 3510C

Reference Number: 16-02539  
Project: Walla Walla Basin Aquifer Recharge

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Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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D.F. = Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 05989  
Field ID: GW_136  
Sample Description: Stiller Pond  
Matrix: Water  
Sample Date: 2/3/16  
Extraction Date: 2/9/16  
Extraction Method: 3510C

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR  
**Zip Code:** 97862

**Lab Number:** 05989  
**Field ID:** GW_136  
**Sample Description:** Stillie Pond  
**Matrix:** Water  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 5030B

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Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

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PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 05988  
**Field ID:** Mill Creek  
**Sample Description:** Stiller Pond  
**Matrix:** Surface Water  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/10/16  
**Extraction Method:** 3510C

**Reference Number:** 16-02539  
**Project:** Walla Walla Basin Aquifer Recharge

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If you have any questions concerning this report contact us at the above phone number.

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 05988  
Field ID: Mill Creek  
Sample Description: Stiller Pond  
Matrix: Surface Water  
Sample Date: 2/3/16  
Extraction Date: 2/9/16  
Extraction Method: 3510C

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City, State:** Milton-Freewater, OR 97862

**Lab Number:** 05988  
**Field ID:** Mill Creek  
**Sample Description:** Stiller Pond  
**Matrix:** Surface Water  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 5030B

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</table>

Notes:
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor.
**Sample Information**

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

**Sample Purpose:** Investigative or Other

<table>
<thead>
<tr>
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**NOTES:**

If the result is Unsatisfactory a repeat sample is required for Public Water Systems. Private individuals should investigate the cause of the unsatisfactory result and resample.

E. Coli or Fecal Coliform are present in sample do not drink the water until it is properly treated.

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP unless otherwise noted. This report shall not be reproduced, except in full, and with written consent of this laboratory. Estimates of uncertainty are not included in this report. If this information is required please contact us at the phone number listed in the report header.
**Reference Number:** 16-02539

**System ID**

**System Name:**

**Sampler Phone:**

**FAX/Email:** steven.patten@wwbwc.org

**Authorized by:**

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

---

**Client Name:** Walla Walla Basin Watershed Council

810 South Main Street
Milton-Freewater, OR 97862

---

**Date/Time Collected:** 2/3/16 10:40 am

**Sample Location:** Field Blank

**Sample Type:** Lab Sample #: 16_05994

**Field ID:** Field Blank

**PARAMETER** | **RESULT** | **CI2 Residual** | **Original Sample Date** | **Repeat Sample Number** | **Lab**
---|---|---|---|---|---
E. Coli | <1 | | | | 
TOTAL COLIFORM | <1 | | | | 

---

**NOTES:**

If the result is Unsatisfactory a repeat sample is required for Public Water Systems. Private individuals should investigate the cause of the unsatisfactory result and resample.

If E. Coli or Fecal Coliform are present in sample do not drink the water until it is properly treated.

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NEALP unless otherwise noted. This report shall not be reproduced, except in full, and with written consent of this laboratory. Estimates of uncertainty are not included in this report. If this information is required please contact us at the phone number listed in the report header.
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<th>Result</th>
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<th>Units</th>
<th>Method</th>
<th>% Recovery</th>
<th>Limits*</th>
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<th>QC Qualifier Type</th>
<th>Comment</th>
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</table>

*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
<table>
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*Notation:*

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Laboratory Fortified Blank**

**Reference Number:** 16-02539  
**Report Date:** 03/09/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
# Sample Independent Quality Control Report

**Laboratory Fortified Blank**

Reference Number: 16-02539  
Report Date: 03/09/16

## Analyte Results

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

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*Notation:*

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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% Recovery = (Result of Analysis)/(True Value) * 100
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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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**Reference Number:** 03/09/16  
**Report Date:** 03/09/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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**SAMPLE INDEPENDENT QUALITY CONTROL REPORT**

Quality Control Sample

Reference Number: 16-02539
Report Date: 03/09/16

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FORM: QCIndependent3.rpt
# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

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FORM: QCIndependent3.rpt
## SAMPLE DEPENDENT QUALITY CONTROL REPORT

Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

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%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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FORM: QC Dependent.rpt
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%RPD = Relative Percent Difference
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### Laboratory Fortified Matrix (MS)

#### 200.7_160209B

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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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</table>

%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## Qualifier Definitions

<table>
<thead>
<tr>
<th>Qualifier</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>Sample analysis performed past holding time.</td>
</tr>
<tr>
<td>H5</td>
<td>This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.</td>
</tr>
<tr>
<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
</tr>
<tr>
<td>IM</td>
<td>Matrix induced bias assumed</td>
</tr>
<tr>
<td>INH</td>
<td>The sample was non-homogeneous</td>
</tr>
<tr>
<td>IS</td>
<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
</tr>
<tr>
<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
</tr>
<tr>
<td>L2</td>
<td>The associated blank spike recovery was below laboratory acceptance limits.</td>
</tr>
<tr>
<td>N1</td>
<td>See case narrative.</td>
</tr>
</tbody>
</table>

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
**Sample Request (Must Include Fax or Email)**

- **Date:** 2-3-13
- **Time:** 10:00
- **Location:** Field ID

### Analyses Requested

<table>
<thead>
<tr>
<th>Field ID</th>
<th>Other</th>
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<th>Other Analyses</th>
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<th>Comment</th>
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</tr>
</tbody>
</table>

### Instructions

1. Use one line per sample location.
2. Be specific in analogical requests.
3. **(WIN)** List each metal individually (new).
4. **(WIN)** Check off analyses to be performed for each sample location.
5. Enter number of containers.

<table>
<thead>
<tr>
<th>NO.3</th>
<th>Total P in Soil</th>
<th>Metals</th>
<th>Inorganics</th>
<th>Foaming Agents</th>
<th>8580</th>
<th>8580A - Water</th>
<th>8580A - Soil</th>
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</thead>
<tbody>
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**Other Analyses Required**

- **Form / Ceria**
- **Other Analyses**
- **Count:** 5

**Address:**

- **City:** Yuma
- **State:** AZ
- **Zip:** 85367
- **Phone:** 520-922-7700
- **Fax:** 520-922-7701

**Project:**

- **Name:** Steven Pefkin
- **Email:** steven.pefkink@wmdc.gov
- **Phone:** 520-922-7700
- **Fax:** 520-922-7701
- **Address:** 810 S. Main Street

**Waive Walla Walla Watershed Council**

**Note:** Please complete all applicable shaded sections (1 of 2)
<table>
<thead>
<tr>
<th>ColumnHeaders</th>
<th>Rows</th>
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</thead>
<tbody>
<tr>
<td>Chain of custody &amp; labels agee</td>
<td></td>
</tr>
<tr>
<td>Samples received intact</td>
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<tr>
<td>Sample Temp C satisfaction</td>
<td></td>
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<tr>
<td>Custody Seal intact</td>
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<tr>
<td>Other</td>
<td></td>
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<tr>
<td>Chain of custody &amp; labels agee</td>
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</table>

**Instructions:**
- Footnote: (Must Include Fax or Email)
- Issue: 3/31/2010
- Sample Request Request
- Phone: 517-938-2741

<table>
<thead>
<tr>
<th>Total Containers</th>
<th>Number of Containers</th>
<th>Trip Blank (CS20)</th>
<th>T-Pros (Particular)</th>
<th>Quality (Particular)</th>
<th>Code</th>
<th>Location</th>
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<tbody>
<tr>
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**ANALYTICAL**

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<tr>
<th>Other</th>
<th>ORA</th>
<th>Cerlal</th>
<th>Clean Water Act</th>
<th>Other Drinking Water Act</th>
<th>Check Regulation Program</th>
<th>Code</th>
<th>Dept</th>
<th>Lab</th>
<th>Exp</th>
<th>Expr</th>
<th>P.O.</th>
<th>FAX</th>
<th>OR RZ</th>
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<th>810 S Main Street</th>
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</tbody>
</table>

**For Lab Use Only**

(please complete all applicable shaded sections)
<table>
<thead>
<tr>
<th>Analyte</th>
<th>Sample Matrix</th>
<th>Samples [sampling times]</th>
<th>Reporting Limit</th>
<th>Analytical Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloride</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 mg/L</td>
<td>Standard Method 4110</td>
</tr>
<tr>
<td>Chloride</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 mg/L</td>
<td>Standard Method 4110</td>
</tr>
<tr>
<td>Sulfate</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.5 mg/L</td>
<td>Standard Method 4110</td>
</tr>
<tr>
<td>Sulfate</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.5 mg/L</td>
<td>Standard Method 4110</td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>2 mg/L</td>
<td>Standard Method 2540 C</td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>2 mg/L</td>
<td>Standard Method 2540 C</td>
</tr>
<tr>
<td>Foaming Agents</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.05 mg/L</td>
<td>N/A</td>
</tr>
<tr>
<td>Foaming Agents</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.05 mg/L</td>
<td>N/A</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>Noncorrosive</td>
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</tr>
<tr>
<td>Corrosivity</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>Noncorrosive</td>
<td>N/A</td>
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<td>Color</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>15 Color Units</td>
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<td>Color</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>15 Color Units</td>
<td>N/A</td>
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<tr>
<td>Odor</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>3 Threshold Odor Units</td>
<td>Standard Method 2150</td>
</tr>
<tr>
<td>Odor</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>3 Threshold Odor Units</td>
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</tr>
<tr>
<td>Chlorinated Pesticides</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 μg/L</td>
<td>EPA Method 8081</td>
</tr>
<tr>
<td>Chlorinated Pesticides</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 μg/L</td>
<td>EPA Method 8081</td>
</tr>
<tr>
<td>Chlorinated Pesticides</td>
<td>Soil</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 μg/Kg</td>
<td>EPA Method 8081</td>
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<tr>
<td>PCBs</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>1 pg/L</td>
<td>EPA Method 1668C</td>
</tr>
<tr>
<td>PCBs</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>1 pg/L</td>
<td>EPA Method 1668C</td>
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<tr>
<td>PCBs</td>
<td>Soil</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>10 pg/Kg</td>
<td>EPA Method 1668C</td>
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<tr>
<td>Nitrate (as N)</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.01 mg/L</td>
<td>Standard Method 4500-NO₃⁻</td>
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<td>Nitrate (as N)</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.01 mg/L</td>
<td>Standard Method 4500-NO₃⁻</td>
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<td>Analyte</td>
<td>Sample Matrix</td>
<td>Samples [sampling times]</td>
<td>Reporting Limit</td>
<td>Analytical Method</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------</td>
<td>--------------------------</td>
<td>-----------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>Nitrate (as N)</td>
<td>Soil</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 mg/Kg</td>
<td>Standard Method 4500-NO₃⁻</td>
</tr>
<tr>
<td>Total Phosphorus (Dissolved &amp; Particulate)</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.005 mg/L</td>
<td>Standard Method 4500-P</td>
</tr>
<tr>
<td>Total Phosphorus (Dissolved &amp; Particulate)</td>
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<td>Pre, Mid &amp; Post Operations</td>
<td>0.005 mg/L</td>
<td>Standard Method 4500-P</td>
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<td>Total Phosphorus</td>
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<td>Pre, Mid &amp; Post Operations</td>
<td>0.05 mg/Kg</td>
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<tr>
<td>Carbonate &amp; Bicarbonate</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>10 mg/L</td>
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<tr>
<td>Carbonate &amp; Bicarbonate</td>
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<tr>
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<tr>
<td>Arsenic</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.01 μg/L</td>
<td>Standard Method 3125</td>
</tr>
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</table>
### SAMPLING PARAMETERS

<table>
<thead>
<tr>
<th>Analyte</th>
<th>Sample Matrix</th>
<th>Samples [sampling times]</th>
<th>Reporting Limit</th>
<th>Analytical Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Temperature</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 °C</td>
<td>NIST Thermometer</td>
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<td>Water Temperature</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 °C</td>
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<tr>
<td>Specific Conductance</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>1 µS/cm</td>
<td>YSI 30/Orion 5-Star</td>
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<tr>
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<tr>
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<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 pH units</td>
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</tr>
<tr>
<td>Dissolved Oxygen</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
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<tr>
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<td>Groundwater</td>
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<td>0.1 µg/L</td>
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<tr>
<td>Cadmium</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 µg/L</td>
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</tr>
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<td>Cadmium</td>
<td>Groundwater</td>
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<td>Chromium</td>
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<td>Lead</td>
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<td>Mercury</td>
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<td>Silver</td>
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<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 µg/L</td>
<td>Standard Method 3150 B</td>
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</table>

WWBWC Washington Aquifer Recharge QAPP - Version 1.3
<table>
<thead>
<tr>
<th>Analyte</th>
<th>Sample Matrix</th>
<th>Samples [sampling times]</th>
<th>Reporting Limit</th>
<th>Analytical Method</th>
</tr>
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<tbody>
<tr>
<td>Fluoride</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 mg/L</td>
<td>Standard Method 4110</td>
</tr>
<tr>
<td>Fluoride</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 mg/L</td>
<td>Standard Method 4110</td>
</tr>
<tr>
<td>Endrin</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 µg/L</td>
<td>EPA Method 8081</td>
</tr>
<tr>
<td>Endrin</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 µg/L</td>
<td>EPA Method 8081</td>
</tr>
<tr>
<td>Methoxychlor</td>
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<td>Pre, Mid &amp; Post Operations</td>
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<td>EPA Method 8081</td>
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<td>Methoxychlor</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 µg/L</td>
<td>EPA Method 8081</td>
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<tr>
<td>1,1,1-Trichloroethane</td>
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<td>1,1,1-Trichloroethane</td>
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<td>2,4-D</td>
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<td>EPA Method 8151</td>
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<td>2,4,5-TP Silvex</td>
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<td>Pre, Mid &amp; Post Operations</td>
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<td>EPA Method 8151</td>
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<tr>
<td>2,4,5-TP Silvex</td>
<td>Groundwater</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>0.1 µg/L</td>
<td>EPA Method 8151</td>
</tr>
<tr>
<td>Total Coliform Bacteria</td>
<td>Surface Water</td>
<td>Pre, Mid &amp; Post Operations</td>
<td>1/100 ml</td>
<td>Standard Method 9221 D and 9222 B</td>
</tr>
<tr>
<td>Total Coliform Bacteria</td>
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<td>Pre, Mid &amp; Post Operations</td>
<td>1/100 ml</td>
<td>Standard Method 9221 D and 9222 B</td>
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<td>Pre, Mid &amp; Post Operations</td>
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<td>Pre, Mid &amp; Post Operations</td>
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<td>Standard Method 3150 B</td>
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March 7, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR  97862

RE: 16-02545 - Stiller Pond Soil Sampling

Dear Mr. Steve Patten,

Your project: Stiller Pond Soil Sampling, was received on Thursday February 04, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

[Signature]

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures:  Data Report
Case Narrative

Reference: 16-02545

### Project Notes

<table>
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<tr>
<th>Analytical Method</th>
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<tr>
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<td>4,4'-DDE - all results reported were confirmed by alternate column or GC/MS (SIM). The dilution factor is the conversion to dry weight based on the sample Total Solids.</td>
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# Data Report

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

**Reference Number:** 16-02545  
**Project:** Stiller Pond Soil Sampling

**Report Date:** 3/7/16  
**Date Received:** 2/4/16  
**Approved by:** jaa, mvp  
**Authorized by:** Lawrence J Henderson, PhD  
**Position:** Director of Laboratories, Vice President

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**Notes:**  
ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
D.F. - Dilution Factor

---

If you have any questions concerning this report contact us at the above phone number.

Form: cRslt_2.rpt
## Data Report

### Soil #5 - Stiller Pond

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### Soil #8 - Stiller Pond

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### Soil #10 - Stiller Pond

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<td>2/17/16</td>
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<td>6010B_160217B</td>
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### Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor
# DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR  **Zip Code:** 97862

**Lab Number:** 06009  
**Field ID:** Soil #10  
**Sample Description:** Stiller Pond  
**Matrix:** Soil  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 3540C

---

## CAS Compound | RESULT | Flag | UNITS | PQL | MRL | MDL | D.F. | Lab | COMMENT
---|---|---|---|---|---|---|---|---|---
| - Organochlorine Pesticides | | | | | | | | | |
| 309-00-2 ALDRIN | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 319-84-6 BHC, ALPHA - | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 319-85-7 BHC, BETA - | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 58-89-9 LINDANE (BHC - GAMMA) | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 319-86-8 BHC, DELTA - | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 5103-71-9 ALPHA-CHLORDANE | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 5103-72-4 GAMMA-CHLORDANE | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 50-29-3 4,4' - DDT | ND | CV | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 72-55-9 4,4' - DDE | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 72-54-8 4,4' - DDD | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 60-57-1 DIELDRIN | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 959-98-8 ENDOSULFAN I | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 33213-65-1 ENDOSULFAN II | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 1031-07-8 ENDOSULFAN SULFATE | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 72-20-8 ENDRIN | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 7421-93-4 ENDRIN ALDEHYDE | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 53494-70-1 ENDRIN KETONE | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 76-44-8 HEPTACHLOR | ND | CV | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 1024-57-3 HEPTACHLOR EPOXIDE "B" | ND | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 72-43-5 METHOXYCHLOR | ND | CV | ug/Kg | 0.6 | 0.4 | 1.40 | a |
| 8001-35-2 TOXAPHENE | ND | ug/Kg | 350 | 250 | 1.40 | a |

---

**Notes:**

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.  
ND - indicates the compound was not detected above the PQL or MDL.  
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
# DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

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- D.F. = Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
DATA REPORT

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Lab Number: 06007
Field ID: Soil #8
Sample Description: Stiller Pond
Matrix: Soil
Sample Date: 2/3/16
Extraction Date: 2/8/16
Extraction Method: 3540C

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## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Report Date:** 3/7/16  
**Date Analyzed:** 2/11/16  
**Analyst:** CO

**Project:** Stiller Pond Soil Sampling  
**Reference Number:** 16-02545

**Lab Number:** 06006  
**Field ID:** Soil #7  
**Sample Description:** Stiller Pond  
**Matrix:** Soil  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 3540C

### Organochlorine Pesticides

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Form: c608.rpt
# DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

Lab Number: 06005  
Field ID: Soil #6  
Sample Description: Stiller Pond  
Matrix: Soil  
Sample Date: 2/3/16  
Extraction Date: 2/8/16  
Extraction Method: 3540C

Reference Number: 16-02545  
Project: Stiller Pond Soil Sampling

Report Date: 3/7/16  
Date Analyzed: 2/11/16  
Analyst: CO  
Analytical Method: 8081B  
Batch: 8081B_160208S  
Approved By: rjk

Authorized by: Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
**DATA REPORT**

**Reference Number:** 16-02545  
**Project:** Stiller Pond Soil Sampling

**Lab Number:** 06004  
**Field ID:** Soil #5  
**Sample Description:** Stiller Pond  
**Matrix:** Soil  
**Sample Date:** 2/3/16  
**Extraction Date:** 2/8/16  
**Extraction Method:** 3540C

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**Milton-Freewater, OR 97862**

**Report Date:** 3/7/16  
**Date Analyzed:** 2/11/16  
**Analyst:** CO  
**Batch:** 8081B_160208S  
**Approved By:** rjk

**Authorized by:**  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 06003  
Field ID: Soil #4  
Sample Description: Stiller Pond  
Matrix: Soil  
Sample Date: 2/3/16  
Extraction Date: 2/8/16  
Extraction Method: 3540C

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt

Reference Number: 16-02545  
Project: Stiller Pond Soil Sampling

Report Date: 3/7/16  
Date Analyzed: 2/11/16  
Analyst: CO  
Analytical Method: 8081B  
Batch: 8081B_160208S  
Approved By: rjk

Authorized by: Lawrence J Henderson, PhD  
Director of Laboratories, Vice President
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# DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

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# DATA REPORT

## Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

### Laboratory Information
- **Lab Number:** 06000
- **Field ID:** Soil #1
- **Sample Description:**Still Pond
- **Matrix:** Soil
- **Sample Date:** 2/3/16
- **Extraction Date:** 2/8/16
- **Extraction Method:** 3540C

### Client Name:
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

### Reference Number:
16-02545

### Project:
Stiller Pond Soil Sampling

### Report Date:
3/7/16

### Date Analyzed:
2/11/16

### Analyst:
CO

### Batch:
8081B_160208S

### Approved By:
rjk

## Organochlorine Pesticides

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### Notes:
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
### Calibration Check

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Low-Level Lab Fortified Blank**

Reference Number: **16-02545**  
Report Date: **03/07/16**

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*Notation:*

% Recovery = (Result of Analysis)/True Value * 100

NA = Indicates % Recovery could not be calculated.

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent3.rpt
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Quality Control Sample**

Reference Number: **16-02545**  
Report Date: **03/07/16**

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE DEPENDENT QUALITY CONTROL REPORT

**Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report**

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<th>QC Result</th>
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<th>%RPD</th>
<th>Limits</th>
<th>Qualifier</th>
<th>Type</th>
<th>Comments</th>
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<td>0-20</td>
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<td></td>
<td>TOTAL SOLIDS FOR CALCULATION</td>
<td>73.13</td>
<td>73.03</td>
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<td>0.1</td>
<td>0-20</td>
<td>DUP</td>
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</tbody>
</table>

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

<table>
<thead>
<tr>
<th>Batch</th>
<th>Sample</th>
<th>Analyte</th>
<th>Result</th>
<th>Spike Result</th>
<th>Spike Result</th>
<th>Spike Result</th>
<th>Percent Recovery</th>
<th>QC Qualifier</th>
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<th>Comments</th>
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<tbody>
<tr>
<td>6000</td>
<td>TOTAL PHOSPHORUS</td>
<td>6010B_160217B</td>
<td>938</td>
<td>1288</td>
<td>1265</td>
<td>382</td>
<td>mg/Kg</td>
<td>92</td>
<td>86</td>
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## Qualifier Definitions

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<th>Definition</th>
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<tbody>
<tr>
<td>CV</td>
<td>The end calibration verification was significantly below the acceptance criterion of 80%. Low recovery is a result of this sample's high boiling material residue analyzed prior affecting chromatography. Data if reported, is suspect as biased low.</td>
</tr>
<tr>
<td>D6</td>
<td>Data is suspect, the matrix spike for this sample had little or no recovery. The LFB had acceptable recovery. A matrix affect is indicated.</td>
</tr>
<tr>
<td>EC</td>
<td>This compound is subject to erratic chromatographic behavior.</td>
</tr>
<tr>
<td>HQ</td>
<td>High QCS recovery due to increased detector response of the sample extract. The continuing calibration checks are within acceptance limits.</td>
</tr>
</tbody>
</table>

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
February 18, 2016

Vista Work Order No. 1600091

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on February 04, 2016. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director
Case Narrative

Sample Condition on Receipt:

Seven aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The ion abundance ratio for the internal standard 13C-PCB-47 in sample "Mill Creek" did not meet the acceptance criteria. The recoveries and ion abundance ratios for all other internal standards in the QC and field samples were within method acceptance criteria.
# TABLE OF CONTENTS

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- Certifications .......................................................................................................... 41
- Sample Receipt ....................................................................................................... 44
## Sample Inventory Report

<table>
<thead>
<tr>
<th>Vista Sample ID</th>
<th>Client Sample ID</th>
<th>Sampled</th>
<th>Received</th>
<th>Components/Containers</th>
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<tbody>
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<td>04-Feb-16 09:53</td>
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Vista Project: 1600091  
Client Project: Stiller Pond
ANALYTICAL RESULTS
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
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<th>Analyte</th>
<th>Conc. (pg/L)</th>
<th>DL</th>
<th>EMPC</th>
<th>Qualifiers</th>
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
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**EPA Method 1668C**

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**Qualifiers**

- **PCB**: Polychlorinated Biphenyls
- **DL**: Sample specific estimated detection limit
- **EMPC**: Estimated maximum possible concentration
- **LCL-UCL**: Lower control limit - upper control limit

- **Work Order**: 1600091
- **Page**: 8 of 47
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DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
EMPC - Estimated maximum possible concentration

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Lab Sample: B6B0038-BLK1
Date Analyzed: 11-Feb-16 15:23
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**Lab Sample:** B6B0038-BS1  
**Date Analyzed:** 11-Feb-16 13:13  
**Column:** ZB-1  
**Analyst:** MAS

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Sample ID: GW-146

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- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 9:50

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600091-01
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 11-Feb-16 17:33
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**
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Name: Walla Walla Basin Watershed Council  
Project: Stiller Pond  
Date Collected: 03-Feb-2016 9:50  

**Sample Data**  
Matrix: Aqueous  
Sample Size: 1.02 L  

**Laboratory Data**  
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QC Batch: B6B0038  
Date Analyzed: 11-Feb-16 17:33  
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Analyst: MAS  

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**Total PCB**: 481  
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**EMPC**: Estimated maximum possible concentration  
**DL**: Sample specific estimated detection limit  
**LCL-UCL**: Lower control limit - upper control limit

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
### Sample ID: GW-136

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
**Sample ID:** GW-136  
**EPA Method 1668C**

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 11:45

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

**Laboratory Data**
- **Lab Sample:** 1600091-02
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 11-Feb-16 18:38
- **Column:** ZB-1
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EMPC - Estimated maximum possible concentration  
DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit
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- **Project**: Stiller Pond
- **Date Collected**: 03-Feb-2016 11:45

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- **Matrix**: Aqueous
- **Sample Size**: 1.01 L

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- **Lab Sample**: 1600091-02
- **QC Batch**: B6B0038
- **Date Analyzed**: 11-Feb-16 18:38
- **Column**: ZB-1
- **Analyst**: MAS

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**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit
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- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 12:45

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- **Sample Size:** 1.01 L

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- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
### Sample ID: GW-145

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 12:45

#### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

#### Laboratory Data
- **Lab Sample:** 1600091-03
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 11-Feb-16 19:43
- **Column:** ZB-1
- **Analyst:** MAS
- **Work Order:** 1600091

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| Total heptaCB | ND           |      | 1.43 |            |

**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit
### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

### Laboratory Data
- **Lab Sample:** 1600091-03
- **QC Batch:** B6B0038
- **Date Analyzed:** 11-Feb-16 19:43
- **Column:** ZB-1
- **Analyst:** MAS
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 8:45

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 12:45

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**Notes:**
- **LCL-UCL** - Lower control limit - upper control limit
- **EMPC** - Estimated maximum possible concentration
- **DL** - Sample specific estimated detection limit

**Work Order 1600091**
**Sample ID: GW-147**

**Client Data**
Name: Walla Walla Basin Watershed Council  
Project: Stiller Pond  
Date Collected: 03-Feb-2016 13:20

**Sample Data**
Sample ID: GW-147  
Contact: EPA Method 1668C  
Matrix: Aqueous  
Sample Size: 0.999 L

**Laboratory Data**
Lab Sample: 1600091-04  
QC Batch: B6B0038  
Date Collected: 03-Feb-2016 13:20  
Date Analyzed: 09-Feb-2016 8:45  
Column: ZB-1  
Analyst: MAS

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PCB-12/13 ND 4.89  
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PCB-16/32 17.6  
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PCB-22 5.30  
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PCB-87/117/125 ND 1.45  
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**Notes:**  
EMPC - Estimated maximum possible concentration  
DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
**Sample ID:** GW-147

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 13:20

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 0.999 L

**Laboratory Data**
- **Lab Sample:** 1600091-04
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 16-Feb-2016 20:48
- **Column:** ZB-1
- **Analyst:** MAS

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**Laboratory Data**
- **Lab Sample:** 1600091-04
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- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 16-Feb-2016 20:48
- **Column:** ZB-1
- **Analyst:** MAS

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- **%R**
- **LCL-UCL**
- **Qualifiers**

**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit
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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL/UCL** - Lower control limit - upper control limit
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 11:30

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.989 L

### Laboratory Data
- **Lab Sample:** 1600091-05
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 8:45
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit
### Sample ID: Mill Creek

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
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- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 11:30

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.989 L

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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**
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- Sample specific estimated detection limit (DL)
- Lower control limit - upper control limit (LCL-UCL)
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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit
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**Client Data**
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- **Project:** Still Pond
- **Date Collected:** 03-Feb-2016 10:40

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 0.990 L

**Laboratory Data**
- **Lab Sample:** 1600091-06
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 11-Feb-16 16:28

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- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:40

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 0.990 L

**Laboratory Data**
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- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0038
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 11-Feb-16 16:28
- **Column:** ZB-1
- **Analyst:** MAS

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**Qualifiers**

- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit

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**Work Order 1600091**

Page 35 of 47
### Sample ID: Field Duplicate

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:10

#### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

#### Laboratory Data
- **Lab Sample:** 1600091-07
- **QC Batch:** B6B0038
- **Date Analysis:** 11-Feb-16 22:58
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
**Sample ID: Field Duplicate**

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:10

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

**Laboratory Data**
- **Lab Sample:** 1600091-07
- **QC Batch:** B6B0038
- **Date Analyzed:** 11-Feb-16 22:58
- **Column:** ZB-1
- **Analyst:** MAS

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**Total hexaCB**
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**Total heptaCB**
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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**

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**Work Order 1600091**

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## Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:10

## Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

## Laboratory Data
- **Lab Sample:** 1600091-07
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 8:45
- **Date Analyzed:** 11-Feb-16 22:58
- **Column:** ZB-1
- **Analyst:** MAS

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<td>92.8</td>
<td>10</td>
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<td>13C-PCB-126</td>
<td>97.5</td>
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<td>13C-PCB-127</td>
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<td>13C-PCB-138</td>
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<td>13C-PCB-141</td>
<td>87.9</td>
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<tr>
<td>13C-PCB-153</td>
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<td>13C-PCB-156</td>
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<thead>
<tr>
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<th>%R</th>
<th>LCL-UCL</th>
<th>Qualifiers</th>
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<tr>
<td>13C-PCB-170</td>
<td>87.2</td>
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<td>13C-PCB-180</td>
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<td>-145</td>
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<td>13C-PCB-188</td>
<td>76.1</td>
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<td>13C-PCB-189</td>
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<tr>
<td>13C-PCB-194</td>
<td>91.3</td>
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<td>-145</td>
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<tr>
<td>13C-PCB-202</td>
<td>83.5</td>
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<tr>
<td>13C-PCB-206</td>
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<td>-145</td>
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<tr>
<td>13C-PCB-208</td>
<td>83.6</td>
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<td>-145</td>
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<td>13C-PCB-209</td>
<td>111</td>
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<td>13C-PCB-79</td>
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<td>10</td>
<td>-145</td>
</tr>
<tr>
<td>13C-PCB-178</td>
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<td>10</td>
<td>-145</td>
</tr>
</tbody>
</table>

**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit
DATA QUALIFIERS & ABBREVIATIONS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>This compound was also detected in the method blank.</td>
</tr>
<tr>
<td>D</td>
<td>Dilution</td>
</tr>
<tr>
<td>E</td>
<td>The associated compound concentration exceeded the calibration range of the instrument.</td>
</tr>
<tr>
<td>H</td>
<td>Recovery and/or RPD was outside laboratory acceptance limits.</td>
</tr>
<tr>
<td>I</td>
<td>Chemical Interference</td>
</tr>
<tr>
<td>J</td>
<td>The amount detected is below the Lower Calibration Limit of the instrument.</td>
</tr>
<tr>
<td>*</td>
<td>See Cover Letter</td>
</tr>
<tr>
<td>Conc.</td>
<td>Concentration</td>
</tr>
<tr>
<td>DL</td>
<td>Sample-specific estimated detection limit</td>
</tr>
<tr>
<td>MDL</td>
<td>The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.</td>
</tr>
<tr>
<td>EMPC</td>
<td>Estimated Maximum Possible Concentration</td>
</tr>
<tr>
<td>NA</td>
<td>Not applicable</td>
</tr>
<tr>
<td>RL</td>
<td>Reporting Limit – concentrations that correspond to low calibration point</td>
</tr>
<tr>
<td>ND</td>
<td>Not Detected</td>
</tr>
<tr>
<td>TEQ</td>
<td>Toxic Equivalency</td>
</tr>
</tbody>
</table>

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.
## CERTIFICATIONS

<table>
<thead>
<tr>
<th>Accrediting Authority</th>
<th>Certificate Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Department of Health – ELAP</td>
<td>2892</td>
</tr>
<tr>
<td>DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005</td>
<td>3091.01</td>
</tr>
<tr>
<td>Florida Department of Health</td>
<td>E87777</td>
</tr>
<tr>
<td>Hawaii Department of Health</td>
<td>N/A</td>
</tr>
<tr>
<td>Louisiana Department of Environmental Quality</td>
<td>01977</td>
</tr>
<tr>
<td>Maine Department of Health</td>
<td>2014022</td>
</tr>
<tr>
<td>Nevada Division of Environmental Protection</td>
<td>CA004132016-1</td>
</tr>
<tr>
<td>New Jersey Department of Environmental Protection</td>
<td>CA003</td>
</tr>
<tr>
<td>New York Department of Health</td>
<td>11411</td>
</tr>
<tr>
<td>Oregon Laboratory Accreditation Program</td>
<td>4042-004</td>
</tr>
<tr>
<td>Pennsylvania Department of Environmental Protection</td>
<td>012</td>
</tr>
<tr>
<td>South Carolina Department of Health</td>
<td>87002001</td>
</tr>
<tr>
<td>Tennessee department of Environmental Quality</td>
<td>TN02996</td>
</tr>
<tr>
<td>Texas Commission on Environmental Quality</td>
<td>T104704189-15-6</td>
</tr>
<tr>
<td>Virginia Department of General Services</td>
<td>7923</td>
</tr>
<tr>
<td>Washington Department of Ecology</td>
<td>C584</td>
</tr>
<tr>
<td>Wisconsin Department of Natural Resources</td>
<td>998036160</td>
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</table>

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.
# NELAP Accredited Test Methods

## MATRIX: Air

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Determination of Polychlorinated p-Dioxins &amp; Polychlorinated Dibenzofurans</td>
<td>EPA 23</td>
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## MATRIX: Biological Tissue

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Determination of Polychlorinated p-Dioxins &amp; Polychlorinated Dibenzofurans</td>
<td>EPA 23</td>
</tr>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
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</tbody>
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## MATRIX: Drinking Water

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
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<tbody>
<tr>
<td>Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613</td>
</tr>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
</tbody>
</table>

## MATRIX: Non-Potable Water

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Dioxin by GC/HRMS</td>
<td>EPA 613</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
<tr>
<td>Description of Test</td>
<td>Method</td>
</tr>
<tr>
<td>------------------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613</td>
</tr>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
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<tr>
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</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
</tbody>
</table>
**CHAIN OF CUSTODY**

**FOR LABORATORY USE ONLY**

- **Laboratory Project ID:** 1600091
- **Storage ID:** W
- **Temp:** -0.7°C
- **TAT:** (Check One):
  - Standard: ☑ 21 Days
  - Rush (surcharge may apply):
    - ☐ 14 days ☑ 7 days Specify:

**Relinquished by:** Steven Patten  
**Date:** 2-3-16  
**Time:** 14:00

**Received by:** (Signature and Printed Name)  
**Time:** 14:00

**Relinquished by:** (Signature and Printed Name)  
**Date:** 2-3-16  
**Time:** 14:00

**See “Sample Log-in Checklist” for additional sample information**

**SHIP TO:** Vista Analytical Laboratory  
1104 Windfield Way  
El Dorado Hills, CA 95762  
(916) 673-1520 • Fax (916) 673-0106

**Method of Shipment:** UPS

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Date</th>
<th>Time</th>
<th>Location/Sample Description</th>
<th>Add Analysis(s) Requested</th>
<th>Container(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLW-146</td>
<td>2-3-16</td>
<td>9:50</td>
<td>STILWY PARK</td>
<td>Z A AC</td>
<td>X</td>
</tr>
<tr>
<td>GLW-131</td>
<td>2-3-16</td>
<td>11:15</td>
<td>STILWY PARK</td>
<td>Z A AC</td>
<td>X</td>
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<tr>
<td>GLW-145</td>
<td>2-3-16</td>
<td>12:15</td>
<td>STILWY PARK</td>
<td>Z A AC</td>
<td>X</td>
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<tr>
<td>GLW-147</td>
<td>2-3-16</td>
<td>12:40</td>
<td>STILWY PARK</td>
<td>Z A AC</td>
<td>X</td>
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<tr>
<td>MILL CLEAN</td>
<td>2-3-16</td>
<td>11:30</td>
<td>STILWY PARK</td>
<td>Z A AC</td>
<td>X</td>
</tr>
</tbody>
</table>

**Special Instructions/Comments:**

**SEND DOCUMENTATION AND RESULTS TO:**

- **Name:** Steven Patten
- **Company:** LOUGHLIN
- **Address:** 510 S MAIN
- **City:** Medford  
  **State:** OR  
  **Zip:** 97502
- **Phone:** 541-938-2170  
  **Fax:**
- **Email:** steven.patten@louglinc.org

**Matrix Types:** DW = Drinking Water, EF = Effluent, PP = PulP/Paper,  
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum  
AQ = Aqueous, O = Other

- **Container Types:** A = 1 Liter Amber, G = Glass Jar  
  P = PUF, T = MMS Train, O = Other

- **Bottle Preservative Type:** T = Triosulfate, O = Other

Work Order 1600091  WHITE - ORIGINAL  YELLOW - ARCHIVE  PINK - COPY  Page 44 of 47
**CHAIN OF CUSTODY**

**FOR LABORATORY USE ONLY**

<table>
<thead>
<tr>
<th>Laboratory Project ID</th>
<th>Storage ID</th>
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</thead>
<tbody>
<tr>
<td>160091</td>
<td>WR3</td>
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</table>

<table>
<thead>
<tr>
<th>TAT: (Check One):</th>
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<tbody>
<tr>
<td>Standard: 21 Days</td>
</tr>
<tr>
<td>Rush (surcharge may apply):</td>
</tr>
<tr>
<td>0 14 days 0 7 days Specify:</td>
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<table>
<thead>
<tr>
<th>Project I.D.</th>
<th>P.O.#</th>
<th>Sampler:</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEVENS POND</td>
<td></td>
<td>STEVEN PAATIEN</td>
</tr>
</tbody>
</table>

**See "Sample Log-in Checklist" for additional sample information**

**SHIP TO:** Vista Analytical Laboratory 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520 • Fax (916) 673-0106

**Method of Shipment:**

**Add Analysis(es) Requested**

<table>
<thead>
<tr>
<th>Container(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quality</td>
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</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Date</th>
<th>Time</th>
<th>Location/Sample Description</th>
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<tbody>
<tr>
<td>FIELD BLANK</td>
<td>3/3/16</td>
<td>10:40</td>
<td>STEVENS POND</td>
</tr>
<tr>
<td>FIELD BLANK</td>
<td>23/16</td>
<td>10:00</td>
<td>STEVENS POND</td>
</tr>
</tbody>
</table>

**Special Instructions/Comments:**

**SEND DOCUMENTATION AND RESULTS TO:**

| Name: | STEVEN PAATIEN |
| Company: | WINBUCK |
| Address: | 510 S. MAIN |
| City: | MELTON - FREDERICK |
| State: | OK |
| Zip: | 77802 |
| Phone: | 541-935-2170 |
| Fax: | 541-935-2170 |
| Email: | STEVEN PAATIEN @ WINBUCK |

**Matrix Types:**
- DW = Drinking Water
- EF = Effluent
- PP = Pulp/Paper
- SD = Sediment
- SL = Sludge
- SO = Soil
- WW = Wastewater
- B = Blood/Serum
- AQ = Aqueous
- O = Other

**Container Types:**
- A = 1 Liter Amber
- G = Glass Jar
- P = PUF
- T = MMS Train
- O = Other
### SAMPLE LOG-IN CHECKLIST

#### Vista Project #: 1600091

<table>
<thead>
<tr>
<th>Samples Arrival</th>
<th>Date/Time</th>
<th>Initials:</th>
<th>Location: WR-2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02/04/16 0953</td>
<td>VASB</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Logged In:</th>
<th>Date/Time</th>
<th>Initials:</th>
<th>Location: WR-7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>02/04/16 1238</td>
<td>JBB</td>
<td>A4</td>
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<table>
<thead>
<tr>
<th>Delivered By:</th>
<th>FedEx</th>
<th>UPS</th>
<th>On Trac</th>
<th>DHL</th>
<th>Hand Delivered</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preservation:</td>
<td>Ice</td>
<td>Blue Ice</td>
<td>Dry Ice</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp °C:</td>
<td>-0.1 (uncorrected)</td>
<td>0958</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp °C:</td>
<td>-0.7 (corrected)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

| Thermometer ID: | IR-2 |

| Adequate Sample Volume Received? | YES |
| Holding Time Acceptable?        | YES |
| Shipping Container(s) Intact?   | YES |
| Shipping Custody Seals Intact?  | YES |
| Shipping Documentation Present? | YES |
| Airbill                        | 1 of 2 Trk # 1E6E3F70181855824 |
| Sample Container Intact?        | YES |
| Sample Custody Seals Intact?    | YES |
| Chain of Custody / Sample Documentation Present? | YES |
| COC Anomaly/Sample Acceptance Form completed? | YES |

If Chlorinated or Drinking Water Samples, Acceptable Preservation?

<table>
<thead>
<tr>
<th>Na₂S₂O₃ Preservation Documented?</th>
<th>COC</th>
<th>Sample Container</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shipping Container</th>
<th>Vista</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comments:</td>
<td></td>
</tr>
</tbody>
</table>

Sample labels: GW-147 A³B
GW-146
GW-136
GW-45
Mill Creek

Sample Login 11/2013 ckt
## SAMPLE LOG-IN CHECKLIST

### Samples Arrival:
- **Date/Time:** 02/04/16 0953
- **Initials:** VB
- **Location:** WR-3
- **Shelf/Rack:** NA

### Logged In:
- **Date/Time:** 02/04/16 1230
- **Initials:** VB
- **Location:** WR-5
- **Shelf/Rack:** A4

### Delivered By:
- FedEx
- UPS
- On Trac
- DHL
- Hand Delivered
- Other

### Preservation:
- Ice
- Blue Ice
- Dry Ice
- None

### Temp °C:
- Uncorrected: 1.0
- Corrected: 0.4

### Time:
- 0955

### Thermometer ID:
- IR-2

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Adequate Sample Volume Received?
- ✓

### Holding Time Acceptable?
- ✓

### Shipping Container(s) Intact?
- ✓

### Shipping Custody Seals Intact?
- ✓

### Shipping Documentation Present?
- ✓

### Airbill:
- 2 of 2
- Trk #: ZE62F3F7018851622
- ✓

### Sample Container Intact?
- ✓

### Sample Custody Seals Intact?
- ✓

### Chain of Custody / Sample Documentation Present?
- ✓

### COC Anomaly/Sample Acceptance Form completed?
- ✓

### If Chlorinated or Drinking Water Samples, Acceptable Preservation?
- None

### Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Preservation Documented?
- Vista

### Shipping Container:
- Client
- Retain
- Return
- Dispose

### Comments:
March 01, 2016

**Vista Work Order No. 1600092**

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on February 04, 2016. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director
Vista Work Order No. 1600092
Case Narrative

Sample Condition on Receipt:

Ten soil samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

**EPA Method 1668C**

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

**Holding Times**

The samples were extracted and analyzed within the method hold times.

**Quality Control**

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.
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<table>
<thead>
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<th>Section</th>
<th>Page</th>
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<td>Qualifiers</td>
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# Sample Inventory Report

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Client Project: Stiller Pond
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
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<th>EMPC</th>
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
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**Date Extracted:** 09-Feb-2016 10:07  
**Lab Sample:** B6B0040-BLK1  
**Date Analyzed:** 16-Feb-16 17:04  
**Column:** ZB-1  
**Analyst:** MAS  

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**Notes:**  
- **EMPC** - Estimated maximum possible concentration  
- **DL** - Sample specific estimated detection limit  
- **LCL-UCL** - Lower control limit - upper control limit  
- The results are reported in dry weight. The sample size is reported in wet weight.
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DL - Sample specific estimated detection limit
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LCL-UCL - Lower control limit - upper control limit
## Sample ID: Soil #1

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 9:55

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.5 g
- **% Solids:** 69.4

### Laboratory Data
- **Lab Sample:** 1600092-01
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 18:10
- **Column:** ZB-1
- **Analyst:** MAS

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**Note:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #1

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 03-Feb-2016 9:55

**Sample Data**
- Matrix: Soil
- Sample Size: 14.5 g
- % Solids: 69.4

**Laboratory Data**
- Lab Sample: 1600092-01
- Date Received: 04-Feb-2016 9:53
- QC Batch: B6B0040
- Date Extracted: 09-Feb-2016 10:07

**Work Order 1600092**

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**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
**Sample ID: Soil #1**

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 9:55

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.5 g
- **% Solids:** 69.4

### Laboratory Data
- **Lab Sample:** 1600092-01
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-16 18:10
- **Column:** ZB-1
- **Analyst:** MAS

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### Total PCB Concentrations
- **Total PCB 1540**
- **Total octaCB 105**
- **Total nonaCB 41.1**
- **DecaCB 35.0**

**Notes:**
- **EMPC - Estimated maximum possible concentration**
- **DL - Sample specific estimated detection limit**
- **The results are reported in dry weight. The sample size is reported in wet weight.**

**Work Order 1600092**

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**Page 14 of 57**
### Client Data
Name: Walla Walla Basin Watershed Council
Project: Stiller Pond
Date Collected: 03-Feb-2016 9:55

### Sample Data
Matrix: Soil
Sample Size: 14.5 g
% Solids: 69.4

### Laboratory Data
Lab Sample: 1600092-01
QC Batch: B6B0040
Date Extracted: 09-Feb-2016 10:07

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**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:00

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 13.4 g
- **% Solids:** 75.6

### Laboratory Data
- **Lab Sample:** 1600092-02
- **QC Batch:** B6B040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-16 19:15
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**Qualifiers**
- **ND** - Not detected
- **J** - Below detection limit

The results are reported in dry weight. The sample size is reported in wet weight.
Sample ID: Soil #2

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**Sample Data**

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**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- The results are reported in dry weight. The sample size is reported in wet weight.

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #3

**EPA Method 1668C**

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:12

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.5 g
- **% Solids:** 69.8

#### Laboratory Data
- **Lab Sample:** 1600092-03
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 20:20
- **Column:** ZB-1
- **Analyst:** MAS
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 10:07

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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
## Sample ID: Soil #3

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:12

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.5 g
- **% Solids:** 69.8

### Laboratory Data
- **Lab Sample:** 1600092-03
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-16 20:20
- **Column:** ZB-1
- **Analyst:** MAS

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Work Order 1600092
Sample ID: Soil #3

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Project: Stiller Pond
Date Collected: 03-Feb-2016 10:12

Sample Data
Matrix: Soil
Sample Size: 14.5 g
% Solids: 69.8

Laboratory Data
Lab Sample: 1600092-03
QC Batch: B6B0040
Date Analyzed: 16-Feb-2016 20:20
Column: ZB-1
Analyst: MAS

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #4

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:17

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.3 g
- **% Solids:** 70.4

#### Laboratory Data
- **Lab Sample:** 1600092-04
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 21:25
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #4

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 03-Feb-2016 10:17

**Sample Data**
- Matrix: Soil
- Sample Size: 14.3 g
- % Solids: 70.4

**Laboratory Data**
- Lab Sample: 1600092-04
- Date Received: 04-Feb-2016 9:53
- QC Batch: B6B0040
- Date Extracted: 09-Feb-2016 10:07
- Date Analyzed: 16-Feb-16 21:25
- Column: ZB-1
- Analyst: MAS

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
The results are reported in dry weight. The sample size is reported in wet weight.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Still Pond
- **Date Collected:** 03-Feb-2016 10:17

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.3 g
- **% Solids:** 70.4

### Laboratory Data
- **Lab Sample:** 1600092-04
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-2016 21:25
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- The results are reported in dry weight. The sample size is reported in wet weight.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:17

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.3 g
- **% Solids:** 70.4

### Laboratory Data
- **Lab Sample:** 1600092-04
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-16 21:25
- **Column:** ZB-1
- **Analyst:** MAS

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**Qualifier Key:**
- **IS:** Internal Standard
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:27

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.1 g
- **% Solids:** 72.1

### Laboratory Data
- **Lab Sample:** 1600092-05
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 22:30
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit

**Work Order 1600092**

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The results are reported in dry weight. The sample size is reported in wet weight.
### Sample Data

- **Sample ID:** Soil #5
- **EPA Method:** 1668C

**Client Data**

- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:27

**Sample Data**

- **Matrix:** Soil
- **Sample Size:** 14.1 g
- **% Solids:** 72.1

**Laboratory Data**

- **Lab Sample:** 1600092-05
- **Date Received:** 04-Feb-2016 9:53
- **Date Analyzed:** 09-Feb-2016 10:07
- **Date Extracted:** 16-Feb-16 22:30
- **Column:** ZB-1
- **Analyst:** MAS

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- **EMPC - Estimated maximum possible concentration**
- **DL - Sample specific estimated detection limit**
- **LCL-UCL - Lower control limit - upper control limit**
- The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #5

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:27

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.1 g
- **% Solids:** 72.1

#### Laboratory Data
- **Lab Sample:** 1600092-05
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-2016 22:30
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
**Sample ID:** Soil #5  
**Client Data**  
Name: Walla Walla Basin Watershed Council  
Project: Stiller Pond  
Date Collected: 03-Feb-2016 10:27

**Sample Data**  
Matrix: Soil  
Sample Size: 14.1 g  
% Solids: 72.1

**Laboratory Data**  
Lab Sample: 1600092-05  
QC Batch: B6B0040  
Date Collected: 04-Feb-2016 9:53  
Date Received: 09-Feb-2016 10:07  
Date Extracted: 09-Feb-2016 10:07  
Date Analyzed: 16-Feb-2016 22:30  
Column: ZB-1  
Analyst: MAS

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**EMPC -** Estimated maximum possible concentration  
**DL -** Sample specific estimated detection limit  
**LCL-UCL -** Lower control limit - upper control limit  
The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #6

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:32

**Sample Data**
- **Matrix:** Soil
- **Sample Size:** 14.1 g
- **% Solids:** 71.1

**Laboratory Data**
- **Lab Sample:** 1600092-06
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-16 23:35
- **Column:** ZB-1
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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
### Sample Data
- **Sample ID:** Soil #6
- **Soil:** E PA Method 1668C
- **Client Data:**
  - **Name:** Walla Walla Basin Watershed Council
  - **Project:** Stiller Pond
  - **Date Collected:** 03-Feb-2016 10:32
- **Sample Data:**
  - **Matrix:** Soil
  - **Sample Size:** 14.1 g
  - **% Solids:** 71.1

### Laboratory Data
- **Lab Sample:** 1600092-06
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 16-Feb-16 23:35
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #6

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:32

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.1 g
- **% Solids:** 71.1

#### Laboratory Data
- **Lab Sample:** 1600092-06
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 23:35
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit  

The results are reported in dry weight. The sample size is reported in wet weight.
**Sample ID:** Soil #6

**EPA Method 1668C**

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:32

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.1 g
- **% Solids:** 71.1

### Laboratory Data
- **Lab Sample:** 1600092-06
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 23:35
- **Column:** ZB-1
- **Analyst:** MAS71.1
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 10:07

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**Note:**
- **EMPC** - Estimated maximum possible concentration
- **DL** - Sample specific estimated detection limit
- **LCL-UCL** - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #7

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 03-Feb-2016 10:42

**Sample Data**
- Matrix: Soil
- Sample Size: 13.7 g
- % Solids: 73.1

**Laboratory Data**
- Lab Sample: 1600092-07
- Date Received: 04-Feb-2016 9:53
- QC Batch: B6B0040
- Date Extracted: 09-Feb-2016 10:07
- Date Analyzed: 17-Feb-16 00:40
- Column: ZB-1
- Analyst: MAS

#### Analyte Conc. (pg/g) DL EMPC Qualifiers

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| PCB-5/8 | ND | 1.44 |
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| PCB-7/9 | ND | 3.43 |
| PCB-11 | 9.24 |
| PCB-12/13 | ND | 3.28 |
| PCB-14 | ND | 2.82 |
| PCB-15 | 5.71 |
| PCB-16/32 | ND | 0.325 |
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| PCB-18 | ND | 0.956 |
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| PCB-20/21/33 | ND | 1.23 |
| PCB-22 | ND | 0.910 |
| PCB-23 | ND | 0.333 |
| PCB-24/27 | ND | 0.262 |
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| PCB-41/64/71/72 | 4.01 | J |
| PCB-42/59 | 1.13 | J |
| PCB-43/49 | 9.25 |

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| PCB-84/92 | 14.7 |
| PCB-85/116 | 16.3 |
| PCB-86 | ND | 0.764 |
| PCB-87/117/125 | 17.0 |
| PCB-88/91 | 4.58 | J |

**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.

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**Work Order 1600092**

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### Sample ID: Soil #7

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:42

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 13.7 g
- **% Solids:** 73.1

#### Laboratory Data
- **Lab Sample:** 1600092-07
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 17-Feb-16 00:40
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- **EMPC** - Estimated maximum possible concentration
- **DL** - Sample specific estimated detection limit
- **LCL-UCL** - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
## Sample ID: Soil #8

### Client Data
- **Name**: Walla Walla Basin Watershed Council
- **Project**: Stiller Pond
- **Date Collected**: 03-Feb-2016 10:47

### Sample Data
- **Matrix**: Soil
- **Sample Size**: 13.7 g
- **% Solids**: 74.7

### Laboratory Data
- **Lab Sample**: 1600092-08
- **Date Received**: 04-Feb-2016 9:53
- **QC Batch**: B6B0040
- **Date Extracted**: 09-Feb-2016 10:07
- **Date Analyzed**: 18-Feb-16 03:57
- **Column**: ZB-1
- **Analyst**: MAS

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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #8

**EPA Method 1668C**

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**Note:**
- **EMPC** - Estimated maximum possible concentration
- **DL** - Sample specific estimated detection limit
- **LCL-UCL** - Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
## Sample ID: Soil #8

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- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:47

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 13.7 g
- **% Solids:** 74.7

### Laboratory Data
- **Lab Sample:** 1600092-08
- **Date Collected:** 03-Feb-2016 10:47
- **QC Batch:** B6B0040
- **Date Analyzed:** 16-Feb-16 03:57
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- The results are reported in dry weight. The sample size is reported in wet weight.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:47

### Sample Data
- **Matrix:** Soil
- **Sample Size:** 13.7 g
- **% Solids:** 74.7

### Laboratory Data
- **Lab Sample:** 1600092-08
- **Date Received:** 04-Feb-2016 9:53
- **Date Analyzed:** 18-Feb-16 03:57
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC:** Estimated maximum possible concentration
**DL:** Sample specific estimated detection limit
**LCL-UCL:** Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #9

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:55

**Sample Data**
- **Matrix:** Soil
- **Sample Size:** 14.2 g
- **% Solids:** 70.7

**Laboratory Data**
- **Lab Sample:** 1600092-09
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 18-Feb-16 05:02
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- The results are reported in dry weight. The sample size is reported in wet weight.
**Sample ID: Soil #9**

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:55

**Sample Data**
- **Matrix:** Soil
- **Sample Size:** 14.2 g
- **% Solids:** 70.7

**Laboratory Data**
- **Lab Sample:** 1600092-09
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 18-Feb-16 05:02
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**Analysts**
- Work Order 1600092

---

The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #9

**Method:** EPA Method 1668C

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 10:55

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 14.2 g
- **% Solids:** 70.7

#### Laboratory Data
- **Lab Sample:** 1600092-09
- **Date Received:** 04-Feb-2016 9:53
- **QC Batch:** B6B0040
- **Date Extracted:** 09-Feb-2016 10:07
- **Date Analyzed:** 18-Feb-16 05:02
- **Column:** ZB-1
- **Analyst:** MAS

#### Sample Data

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**Conc. (pg/g):** Concentration in picograms per gram. **DL:** Sample specific estimated detection limit. **EMPC:** Estimated maximum possible concentration. **Qualifiers:** D (Determined), L (Lower), U (Upper), J (Joint), B (Background). **LCL-UCL:** Lower control limit - upper control limit. The results are reported in dry weight. The sample size is reported in wet weight.
### Transparent-Sample ID: Soil #9

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**Notes:**
- Labeled Standard
- %R: Estimated maximum possible concentration
- LCL-UCL: Lower control limit - upper control limit
- Qualifiers
- The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #10

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 03-Feb-2016 11:00

**Sample Data**
- Matrix: Soil
- Sample Size: 13.7 g
- % Solids: 73.1

**Laboratory Data**
- Lab Sample: 1600092-10
- QC Batch: B6B0040
- Date Analyzed: 18-Feb-16 06:07
- Column: ZB-1
- Analyst: MAS

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- 3.50
- 0.449
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- 0.288
- 6.02
- 0.294
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- 0.324
- 6.04
- 0.200
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- 22.1
- 0.238
- 0.591
- 0.245
- 10.0
- 0.230
- 0.506
- 0.237
- 3.53
- 3.70
- 0.195
- 1.51
- 0.169
- 0.256
- 5.86
- 0.531
- 24.4
- 29.0
- 0.854
- 28.5
- 8.59

**LCL-UCL**
- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.
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**Sample ID: Soil #10**

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 03-Feb-2016 11:00

**Sample Data**
- Matrix: Soil
- Sample Size: 13.7 g
- % Solids: 73.1

**Laboratory Data**
- Lab Sample: 1600092-10
- QC Batch: B6B0040
- Date Analyzed: 18-Feb-16 06:07
- Column: ZB-1
- Analyst: MAS

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
The results are reported in dry weight. The sample size is reported in wet weight.
### Sample ID: Soil #10

**EPA Method 1668C**

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 11:00

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 13.7 g
- **% Solids:** 73.1

#### Laboratory Data
- **Lab Sample:** 1600092-10
- **QC Batch:** B6B0040
- **Date Analyzed:** 18-Feb-16 06:07
- **Column:** ZB-1
- **Analyst:** MAS
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 10:07

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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**

The results are reported in dry weight. The sample size is reported in wet weight.

---

Work Order 1600092
### Sample ID: Soil #10

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-Feb-2016 11:00

#### Sample Data
- **Matrix:** Soil
- **Sample Size:** 13.7 g
- **% Solids:** 73.1

#### Laboratory Data
- **Lab Sample:** 1600092-10
- **QC Batch:** B6B0040
- **Date Analyzed:** 18-Feb-2016 06:07
- **Column:** ZB-1
- **Analyst:** MAS
- **Date Received:** 04-Feb-2016 9:53
- **Date Extracted:** 09-Feb-2016 10:07

### Labeled Standard Qualifiers

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**Qualifiers:**
- **LCL-UCL:** Lower control limit - upper control limit
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit

**Notes:**
The results are reported in dry weight. The sample size is reported in wet weight.
DATA QUALIFIERS & ABBREVIATIONS

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<td>E</td>
<td>The associated compound concentration exceeded the calibration range of the instrument.</td>
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<tr>
<td>H</td>
<td>Recovery and/or RPD was outside laboratory acceptance limits.</td>
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<td>I</td>
<td>Chemical Interference</td>
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<td>J</td>
<td>The amount detected is below the Lower Calibration Limit of the instrument.</td>
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<td>*</td>
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<td>DL</td>
<td>Sample-specific estimated detection limit</td>
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<td>MDL</td>
<td>The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.</td>
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Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.
## CERTIFICATIONS

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Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.
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<td>EPA 1613B</td>
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<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
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<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
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<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
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<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
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<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
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# Chain of Custody

## Project ID:

**Struck Pond**

## P.O.:

___

## Sampler:

Tara Patern

## See "Sample Log-in Checklist" for additional sample information

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<th>Location/Sample Description</th>
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**Container(s):**

- Quality
- Type
- Matrix
- 5th, TCDD
- PCBs
- PCDDs
- PCDFs
- PCDFs
- PCDDs
- PCDFs
- TOXIC
- COBALT
- COPPER
- 19 Cancers
- BPA
- PAH
- WHO-20

**Container Types:**

A = 1 Liter Amber, G = Glass Jar

P = PUF, T = MMS Train, O = Other

**Bottle Preservative Type:**

T = Thiosulfate

O = Other

**Send Documentation and Results To:**

Name: **Steven Patern**

Company: **Lyubluc**

Address: **810 S MAIN**

City: **MELTON-FELDER**  State: **WI**  Zip: **53152**

Phone: **541-955-2170**  Fax: **541-955-2170**

Email: **steven.patern@barwco.org**

**Matrix Types:**

DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,

SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum

AG = Aqueous, O = Other
## SAMPLE LOG-IN CHECKLIST

**Vista Project #:** 1600092

<table>
<thead>
<tr>
<th>Samples Arrival:</th>
<th>Date/Time: 02/04/16 0953</th>
<th>Initials: U3BB</th>
<th>Location: W3-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf/Rack:</td>
<td>NA</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Logged In:</th>
<th>Date/Time: 02/04/16 1319</th>
<th>Initials: U3BB</th>
<th>Location: N3-7</th>
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</thead>
<tbody>
<tr>
<td>Shelf/Rack:</td>
<td>E4</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Delivered By:</th>
<th>FedEx</th>
<th>UPS</th>
<th>On Trac</th>
<th>DHL</th>
<th>Hand Delivered</th>
<th>Other</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Preservation:</th>
<th>Ice</th>
<th>Blue Ice</th>
<th>Dry Ice</th>
<th>None</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Temp °C:</th>
<th>0.7 (uncorrected)</th>
<th>Time: 0959</th>
<th>Thermometer ID: IR-2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Adequate Sample Volume Received?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Holding Time Acceptable?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Shipping Container(s) Intact?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shipping Custody Seals Intact?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shipping Documentation Present?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Airbill</th>
<th>Trk #: 1269E377015B3568</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Sample Container Intact?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Sample Custody Seals Intact?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Chain of Custody / Sample Documentation Present?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>COC Anomaly/Sample Acceptance Form completed?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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</thead>
</table>

If Chlorinated or Drinking Water Samples, Acceptable Preservation?

<table>
<thead>
<tr>
<th>Na₂S₂O₃ Preservation Documented?</th>
<th>COC</th>
<th>Sample Container</th>
<th>None</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Shipping Container</th>
<th>Vista</th>
<th>Client</th>
<th>Retain</th>
<th>Return</th>
<th>Dispose</th>
</tr>
</thead>
</table>

Comments:
May 5, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 16-07632 - Walla Walla Basin Aquifer Recharge

Dear Mr. Steve Patten,

Your project: Walla Walla Basin Aquifer Recharge, was received on Friday April 08, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

[Signature]

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report
## Case Narrative

Reference: **16-07632**

### Lab Sample ID 17648

<table>
<thead>
<tr>
<th>Sample Information</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stiller Pond - Mill Creek</td>
<td>Sample said to smell of seawater, or pond water</td>
</tr>
</tbody>
</table>

- **Notes**: Sample said to smell of seawater, or pond water
- **Created by**: ANP

#### Analytical Method

<table>
<thead>
<tr>
<th>Method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>200.8</td>
<td>High LFB results for Cu and Zn; samples rerun on 4/19/16 for Cu Zn LFB results for 4/19/16 acceptable. Confirmation results for 4/19/16 suggest laboratory contamination for some Cu and Zn samples at low concentrations.</td>
</tr>
</tbody>
</table>

- **Created by**: BJ

#### Analytical Method

<table>
<thead>
<tr>
<th>Method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SM2120 B</td>
<td>Sample was filtered prior to analysis.</td>
</tr>
</tbody>
</table>

- **Created by**: RHF

### Lab Sample ID 17649

<table>
<thead>
<tr>
<th>Sample Information</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stiller Pond - GW_136</td>
<td></td>
</tr>
</tbody>
</table>

- **Analytical Method**: 200.8
- **Notes**: High LFB results for Cu and Zn; samples rerun on 4/19/16 for Cu Zn LFB results for 4/19/16 acceptable. Confirmation results for 4/19/16 suggest laboratory contamination for some Cu and Zn samples at low concentrations.

- **Created by**: BJ

#### Analytical Method

<table>
<thead>
<tr>
<th>Method</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>SM2120 B</td>
<td>Sample was filtered prior to analysis.</td>
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</table>

- **Created by**: RHF

### Lab Sample ID 17650

<table>
<thead>
<tr>
<th>Sample Information</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stiller Pond - GW_145</td>
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</tbody>
</table>

- **Analytical Method**: 200.8
- **Notes**: High LFB results for Cu and Zn; samples rerun on 4/19/16 for Cu Zn LFB results for 4/19/16 acceptable. Confirmation results for 4/19/16 suggest laboratory contamination for some Cu and Zn samples at low concentrations.

- **Created by**: BJ

#### Analytical Method

<table>
<thead>
<tr>
<th>Method</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>SM2120 B</td>
<td>Sample was filtered prior to analysis.</td>
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</tbody>
</table>

- **Created by**: RHF
### Lab Sample ID | Sample Information
--- | ---
17651 | Stiller Pond - GW_146

<table>
<thead>
<tr>
<th>Analytical Method</th>
<th>Notes</th>
<th>Created by</th>
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</thead>
<tbody>
<tr>
<td>200.8</td>
<td>High LFB results for Cu and Zn; samples rerun on 4/19/16 for Cu Zn LFB results for 4/19/16 acceptable. Confirmation results for 4/19/16</td>
<td>BJ</td>
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</table>

Sample was filtered prior to analysis.

### Lab Sample ID | Sample Information
--- | ---
17652 | Stiller Pond - GW_147

<table>
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<th>Analytical Method</th>
<th>Notes</th>
<th>Created by</th>
</tr>
</thead>
<tbody>
<tr>
<td>200.8</td>
<td>High LFB results for Cu and Zn; samples rerun on 4/19/16 for Cu Zn LFB results for 4/19/16 acceptable. Confirmation results for 4/19/16</td>
<td>BJ</td>
</tr>
</tbody>
</table>

Sample was filtered prior to analysis.
# Data Report

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Reference Number: 16-07632  
Project: Walla Walla Basin Aquifer Recharge

Report Date: 5/5/16  
Date Received: 4/15/16  
Approved by: anp, bj, clc, ch, fm, jaa, mvp  
Authorized by: Lawrence J Henderson, PhD

## Sample Description: Stiller Pond - Mill Creek

<table>
<thead>
<tr>
<th>CAS ID#</th>
<th>Parameter</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>DF</th>
<th>Method</th>
<th>Lab</th>
<th>Computer</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-10617</td>
<td>TURBIDITY</td>
<td>5.43</td>
<td>0.10</td>
<td></td>
<td>NTU</td>
<td>1.0</td>
<td>180.1</td>
<td>a</td>
<td>4/15/16</td>
<td>TURB_160415</td>
</tr>
<tr>
<td>7439-97-6</td>
<td>MERCURY</td>
<td>ND</td>
<td>0.0002</td>
<td>1.40E-05</td>
<td>mg/L</td>
<td>1.0</td>
<td>245.1</td>
<td>a</td>
<td>4/13/16</td>
<td>MMH_160413</td>
</tr>
<tr>
<td>16887-00-6</td>
<td>CHLORIDE</td>
<td>3.3</td>
<td>0.1</td>
<td>0.0043</td>
<td>mg/L</td>
<td>1.0</td>
<td>300.0</td>
<td>a</td>
<td>4/16/16</td>
<td>MMH_160415A</td>
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<tr>
<td>16894-48-8</td>
<td>FLUORIDE</td>
<td>ND</td>
<td>0.1</td>
<td>0.0049</td>
<td>mg/L</td>
<td>1.0</td>
<td>300.0</td>
<td>a</td>
<td>4/16/16</td>
<td>MMH_160415A</td>
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<tr>
<td>14808-79-8</td>
<td>SULFATE</td>
<td>2.7</td>
<td>0.2</td>
<td>0.0087</td>
<td>mg/L</td>
<td>1.0</td>
<td>300.0</td>
<td>a</td>
<td>4/16/16</td>
<td>MMH_160415A</td>
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<tr>
<td>NA</td>
<td>CORROSIONITY</td>
<td>-1.76</td>
<td></td>
<td></td>
<td></td>
<td>1.0</td>
<td>Bi</td>
<td>a</td>
<td>4/15/16</td>
<td>mvp COR_160419</td>
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<tr>
<td>E-11712</td>
<td>COLOR</td>
<td>ND N1</td>
<td>5</td>
<td></td>
<td></td>
<td>1.0</td>
<td>SM2120 B</td>
<td>a</td>
<td>4/15/16</td>
<td>RHF COLOR_160415</td>
</tr>
<tr>
<td>E-11734</td>
<td>ODOR</td>
<td>3.6 N1</td>
<td>1</td>
<td></td>
<td></td>
<td>1.0</td>
<td>SM2150</td>
<td>a</td>
<td>4/15/16</td>
<td>RHF ODOR_160415</td>
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<tr>
<td>NA</td>
<td>BICARBONATE</td>
<td>40</td>
<td>1</td>
<td></td>
<td>mg CaCO3</td>
<td>1.0</td>
<td>SM2320 B</td>
<td>a</td>
<td>4/12/16</td>
<td>MVP alk_160411a</td>
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<tr>
<td>NA</td>
<td>CARBONATE</td>
<td>ND</td>
<td>1</td>
<td></td>
<td>mgCaCO3</td>
<td>1.0</td>
<td>SM2320 B</td>
<td>a</td>
<td>4/12/16</td>
<td>MVP alk_160411a</td>
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<tr>
<td>E-10173</td>
<td>TOTAL DISSOLVED SOLIDS (TDS)</td>
<td>91</td>
<td>10</td>
<td></td>
<td>mg/L</td>
<td>1.0</td>
<td>SM2540 C</td>
<td>a</td>
<td>4/11/16</td>
<td>MMH TDS_160411</td>
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<tr>
<td>E-10139</td>
<td>HYDROGEN ION (pH)</td>
<td>7.44 H5</td>
<td></td>
<td></td>
<td>pH Units</td>
<td>1.0</td>
<td>SM4500-H+ B</td>
<td>a</td>
<td>4/15/16</td>
<td>RHF pH_160415</td>
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<tr>
<td>14797-55-8</td>
<td>NITRATE-N</td>
<td>0.64</td>
<td>0.01</td>
<td>0.002</td>
<td>mg/L</td>
<td>1.0</td>
<td>SM4500-N03 F</td>
<td>a</td>
<td>4/15/16</td>
<td>ANP NO3NO2_160415</td>
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<tr>
<td>14265-44-2</td>
<td>ORTHO-PHOSPHATE</td>
<td>0.17</td>
<td>0.005</td>
<td>0.002</td>
<td>mg/L</td>
<td>1.0</td>
<td>SM4500-P F</td>
<td>a</td>
<td>4/15/16</td>
<td>ANP OPHOS_160415</td>
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<tr>
<td>NA</td>
<td>SURFACTANTS</td>
<td>0.034</td>
<td>0.05</td>
<td>0.05</td>
<td>mg/L</td>
<td>1.0</td>
<td>SM5540 C</td>
<td>a</td>
<td>5/4/16</td>
<td>MJ AMTESS40_16050</td>
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<tr>
<td>7440-70-2</td>
<td>CALCIUM</td>
<td>8.4</td>
<td>0.5</td>
<td>0.009</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.73010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>BJ 200.7_16041B</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>IRON</td>
<td>0.20</td>
<td>0.050</td>
<td>0.0012</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.73010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>BJ 200.7_16041B</td>
</tr>
<tr>
<td>7439-96-5</td>
<td>MANGANESE</td>
<td>0.0043</td>
<td>0.001</td>
<td>0.0002</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.73010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>BJ 200.7_16041B</td>
</tr>
<tr>
<td>7440-38-2</td>
<td>ARSENIC</td>
<td>0.00019 J</td>
<td>0.0005</td>
<td>8.1E-05</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>MVP 200.8_160413 WW</td>
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<tr>
<td>7440-39-3</td>
<td>BARIUM</td>
<td>0.011</td>
<td>0.001</td>
<td>0.00014</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>MVP 200.8_160413 WW</td>
</tr>
<tr>
<td>7440-43-9</td>
<td>CADMIUM</td>
<td>ND</td>
<td>0.00025</td>
<td>8.1E-05</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>MVP 200.8_160413 WW</td>
</tr>
<tr>
<td>7440-47-3</td>
<td>CHROMIUM</td>
<td>0.0003 J</td>
<td>0.0005</td>
<td>0.00011</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>MVP 200.8_160413 WW</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>COPPER</td>
<td>0.00099 J</td>
<td>0.002</td>
<td>8.6E-05</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>MVP 200.8_160413 WW</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>LEAD</td>
<td>ND</td>
<td>0.0005</td>
<td>0.00012</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
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</tr>
<tr>
<td>7782-49-2</td>
<td>SELENIUM</td>
<td>ND</td>
<td>0.001</td>
<td>0.0022</td>
<td>mg/L</td>
<td>1.0</td>
<td>200.83010 A</td>
<td>a</td>
<td>4/13/16</td>
<td>MVP 200.8_160413 WW</td>
</tr>
</tbody>
</table>

Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.
## Data Report

<table>
<thead>
<tr>
<th>Substance</th>
<th>Units</th>
<th>Result</th>
<th>Method</th>
<th>Date</th>
<th>Dilution Factor</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SILVER</strong></td>
<td>mg/L</td>
<td>ND</td>
<td>200.8/3010A</td>
<td>4/13/16</td>
<td>a</td>
<td>MVP_160413WW</td>
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<tr>
<td><strong>ZINC</strong></td>
<td>mg/L</td>
<td>0.0025</td>
<td>200.8/3010A</td>
<td>4/13/16</td>
<td>a</td>
<td>MVP_160413WW</td>
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<tr>
<td>E. Coli</td>
<td>MPN/100mL</td>
<td>84.2</td>
<td>SM9223 B.2.b/Colilert-18</td>
<td>4/16/16</td>
<td>b</td>
<td>CKK qt_160415</td>
</tr>
<tr>
<td><strong>TOTAL COLIFORM</strong></td>
<td>MPN/100mL</td>
<td>&gt;2419.6</td>
<td>SM9223 B.2.b/Colilert-18</td>
<td>4/16/16</td>
<td>b</td>
<td>CKK qt_160415</td>
</tr>
<tr>
<td><strong>TOTAL PHOSPHORUS</strong></td>
<td>mg/L</td>
<td>0.183</td>
<td>SM4500-P</td>
<td>4/12/16</td>
<td>a</td>
<td>ANP TPHOS_160412</td>
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</tbody>
</table>

Notes:

- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor

Form: dResult.rpt
<table>
<thead>
<tr>
<th>CAS ID#</th>
<th>Parameter</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>DF</th>
<th>Method</th>
<th>Lab</th>
<th>Analyzed</th>
<th>Analyst</th>
<th>Batch</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-10617</td>
<td>TURBIDITY</td>
<td>387</td>
<td>1</td>
<td>NTU</td>
<td>10.0</td>
<td>180.1</td>
<td></td>
<td></td>
<td>4/8/16</td>
<td>RHF</td>
<td>TURB_160408</td>
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</tr>
<tr>
<td>7439-97-6</td>
<td>MERCURY</td>
<td>ND</td>
<td>0.0002</td>
<td>1.40E-05</td>
<td>mg/L</td>
<td>1.0</td>
<td>245.1</td>
<td></td>
<td>4/13/16</td>
<td>MMH</td>
<td>245.1_1_160413</td>
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**Notes:**
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

Reference Number: 16-07632
Report Date: 5/5/16
Page 3 of 6
### Data Report

**Sample Description:** Stiller Pond - GW_145

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**E-11734**

- **ODOR**
  - Value: ND

**CAS ID#**

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  - Value: 178

- **CARBONATE**
  - Value: ND

**E-10173**

- **TOTAL DISSOLVED SOLIDS (TDS)**
  - Value: 309

**E-10139**

- **HYDROGEN ION (pH)**
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**14797-55-8**

- **NITRATE-N**
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**14265-44-2**

- **ORTHOPHOSPHATE**
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**NA**

- **SURFACANTS**
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- **CALCIUM**
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**7439-96-5**

- **MANGANESE**
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**7440-38-2**

- **ARSENIC**
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**7440-39-3**

- **BARIUM**
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**7440-43-9**

- **CADMIUM**
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- **CHROMIUM**
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**7440-50-8**

- ** COPPER**
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**7439-92-1**

- **LEAD**
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- **SELENIUM**
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**7440-22-4**

- **SILVER**
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**7440-66-6**

- **ZINC**
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**E. Coli**

- **Value:** <1 H3

**TOTAL COLIFORM**

- **Value:** 12.1 H3

**7723-14-0**

- **TOTAL PHOSPHORUS**
  - Value: 0.130

---

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- D.F. = Dilution Factor

---

**Form:** cResult.rpt
## Data Report

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Lab Number: 17651  
Sample Comment:  
Sample Date: 4/7/16  
Lab:  
Analyst: Steven Patten

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- D.F. - Dilution Factor

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Form: cResult.rpt
### Data Report

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**Sample Date:** 4/7/16 8:10 am  
**Reference Number: 16-07632**  
**Report Date:** 5/5/16  
**Lab Number:** 17652  
**Sample Comment:**  
**Collected By:** Steven Patten  
**Estimated Temperature:** 41.6°C

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**Notes:**  
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.  
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
- D.F. - Dilution Factor

**Form:** cResult.rpt
## DATA REPORT

### Client Information
- **Client Name:** Walla Walla Basin Watershed Council
- **Address:** 810 South Main Street, Milton-Freewater, OR 97862

### Lab Information
- **Lab Number:** 17652
- **Field ID:** Stiller Pond
- **Sample Description:** GW_147
- **Matrix:** Water
- **Sample Date:** 4/7/16
- **Extraction Date:** 4/13/16
- **Extraction Method:** 3535

### Project Details
- **Reference Number:** 16-07632
- **Project:** Walla Walla Basin Aquifer Re\n
### Report Details
- **Report Date:** 5/5/16
- **Date Analyzed:** 4/19/16
- **Analyst:** CO
- **Batch:** 8081B
- **Approval:** pdm.rjk

### Authorized by:
- **Lawrence J Henderson, PhD**
  Director of Laboratories, Vice President

### Organochlorine Pesticides

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**Notes:**
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
**DATA REPORT**

Client Name:  
Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17652  
Field ID: Stiller Pond  
Sample Description: GW_147  
Matrix: Water  
Sample Date: 4/7/16  
Extraction Date: 4/12/16  
Extraction Method: 3510C

Reference Number: 16-07632  
Project: Walla Walla Basin Aquifer Re

Report Date: 5/5/16  
Date Analyzed: 4/18/16  
Analytical Method: 8151A  
Batch: 8151W_160412  
Approved By: pdm.rjk

Authorized by:  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
# DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

**Lab Number:** 17652  
**Field ID:** Stiller Pond  
**Sample Description:** GW_147  
**Matrix:** Water  
**Sample Date:** 4/7/16  
**Extraction Date:** 4/11/16  
**Extraction Method:** 5030B

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- D.F. - Dilution Factor.
Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Lab Number: 17651
Field ID: Stiller Pond
Sample Description: GW_146
Matrix: Water
Sample Date: 4/7/16
Extraction Date: 4/13/16
Extraction Method: 3535

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Form: c608.rpt
Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

Lab Number: 17651  
Field ID: Stiller Pond  
Sample Description: GW_146  
Matrix: Water  
Sample Date: 4/7/16  
Extraction Date: 4/11/16  
Extraction Method: 5030B

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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D.F. - Dilution Factor.
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17650  
Field ID: Stiller Pond  
Sample Description: GW_145  
Matrix: Water  
Sample Date: 4/14/16  
Extraction Date: 4/13/16  
Extraction Method: 3535

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Form: c608.rpt
## DATA REPORT

### Client Name:
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

### Lab Information:
Lab Number: 17650
Field ID: Stiller Pond
Sample Description: GW_145
Matrix: Water
Sample Date: 4/14/16
Extraction Date: 4/12/16
Extraction Method: 3510C

### Project Information:
Reference Number: 16-07632
Project: Walla Walla Basin Aquifer Recharge
Report Date: 5/5/16
Date Analyzed: 4/18/16
Analyst: KAH
Analytical Method: 8151A
Batch: 8151W_160412
Approved By: pdm.rjk
Authorized by:
Lawrence J Henderson, PhD
Director of Laboratories, Vice President

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Form: c608.rpt
DATA REPORT

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Lab Number: 17650
Field ID: Stiller Pond
Sample Description: GW_145
Matrix: Water
Sample Date: 4/14/16
Extraction Date: 4/11/16
Extraction Method: 5030B

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- D.F. - Dilution Factor.
Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17649  
Field ID: Stiller Pond  
Sample Description: GW_136  
Matrix: Water  
Sample Date: 4/7/16  
Extraction Date: 4/13/16  
Extraction Method: 3535

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If you have any questions concerning this report contact us at the above phone number.
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Form: c608.rpt
DATA REPORT

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Lab Number: 17649
Field ID: Stiller Pond
Sample Description: GW_136
Matrix: Water
Sample Date: 4/7/16
Extraction Date: 4/11/16
Extraction Method: 5030B

Reference Number: Project: Walla Walla Basin Aquifer Re

Report Date: 5/5/16
Date Analyzed: 4/11/16
Analysis: HY
Analytical Method: 8260C
Batch: 8260W_160411
Approved By: pdm, rjk

Authorized by:
Lawrence J Henderson, PhD
Director of Laboratories, Vice President

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Notes:
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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
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D.F. - Dilution Factor.

Screening Only

Form: c608.rpt
# DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City, State:** Milton-Freewater, OR 97862

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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 17648  
Field ID: Stiller Pond  
Sample Description: Mill Creek  
Matrix: Surface Water  
Sample Date: 4/7/16  
Extraction Date: 4/12/16  
Extraction Method: 3510C

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Form: c608.rpt
DATA REPORT

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Lab Number: 17648
Field ID: Still Pond
Sample Description: Mill Creek
Matrix: Surface Water
Sample Date: 4/7/16
Extraction Date: 4/11/16
Extraction Method: 5030B

Reference Number: 16-07632
Project: Walla Walla Basin Aquifer Re

Report Date: 5/5/16
Date Analyzed: 4/11/16
Analyst: HY
Analytical Method: 8260C
Batch: 8260W_160411
Approved By: pdm.rjk

Authorized by:
Lawrence J Henderson, PhD
Director of Laboratories, Vice President

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Notes:
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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**

**Reference Number:** 16-07632  
**Report Date:** 05/05/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**

**Reference Number:** 16-07632  
**Report Date:** 05/05/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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FORM: QCIndependent3.rpt
### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 16-07632
Report Date: 05/05/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent3.rpt
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 16-07632
Report Date: 05/05/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
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# SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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Reference Number: 16-07632
Report Date: 05/05/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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**Reference Number:** 16-07632

**Report Date:** 05/05/16

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*Notation: % Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## Sampling Independent Quality Control Report

**Reference Number:** 16-07632  
**Report Date:** 05/05/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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Reference Number: 16-07632  
Report Date: 05/05/16

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Report Date: **05/05/16**

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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## Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

**200.7_160413B**

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### Notes

- %RPD = Relative Percent Difference
- NA = Indicates %RPD could not be calculated
- Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.
- Only Duplicate sample with detections are listed in this report.
- Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

**FORM:** QC Dependent.rpt
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%RPD = Relative Percent Difference
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Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.
Only Duplicate sample with detections are listed in this report
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.
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Form: QC Dependent.rpt
## Qualifier Definitions

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<td>H3</td>
<td>Sample was received and analyzed past holding time.</td>
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<td>H5</td>
<td>This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.</td>
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<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
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<td>INH</td>
<td>The sample was non-homogeneous</td>
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<td>IS</td>
<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
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<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
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<tr>
<td>LE</td>
<td>The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.</td>
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<tr>
<td>LR</td>
<td>Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.</td>
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<td>N1</td>
<td>See case narrative.</td>
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</table>

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
April 28, 2016

Vista Work Order No. 1600387

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 08, 2016. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director
Case Narrative

Sample Condition on Receipt:

Five aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. PCB-11 was detected at 6.15 pg/L in the Method Blank. No other analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.
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<td>Sample Inventory</td>
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<td>Analytical Results</td>
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## Sample Inventory Report

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**Vista Project:** 1600387  
**Client Project:** Stiller Pond  
**Work Order:** 1600387
ANALYTICAL RESULTS
## Sample ID: Method Blank

**EPA Method 1668C**

**Matrix:** Aqueous  
**Sample Size:** 1.00 L

**QC Batch:** B6D0088  
**Date Extracted:** 20-Apr-2016  8:30

**Lab Sample:** B6D0088-BLK1  
**Date Analyzed:** 20-Apr-16  20:10  
**Column:** ZB-1  
**Analyst:** MS

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**DL** - Sample specific estimated detection limit  
**Qualifiers** - See individual congeners for qualifiers.
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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit  
See individual congeners for qualifiers.
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**Notes:**
- **DL** - Sample specific estimated detection limit
- **EMPC** - Estimated maximum possible concentration
- **LCL-UCL** - Lower control limit - upper control limit
- See individual congeners for qualifiers.
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DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit  
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See individual congeners for qualifiers.
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LCL-UCL - Lower control limit - upper control limit
**Sample ID:** Mill Creek

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 9:25

**Matrix:** Aqueous

**Sample Size:** 0.958 L

**Laboratory Data**
- **Lab Sample:** 1600387-01
- **Date Receieved:** 08-Apr-2016 9:26
- **QC Batch:** B6D0088
- **Date Extracted:** 20-Apr-2016 8:30
- **Column:** ZB-1
- **Analyst:** MS

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**Analyte Conc. (pg/L)**

- **DL:** Sample specific estimated detection limit
- **EMPC:** Estimated maximum possible concentration
- **Qualifiers:** See individual congeners for qualifiers

**Work Order 1600387**

Page 12 of 37
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 9:25

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.958 L

### Laboratory Data
- **Lab Sample:** 1600387-01
- **QC Batch:** B6D0088
- **Date Analyzed:** 20-Apr-16 21:16
- **Column:** ZB-1
- **Analyst:** MS
- **Date Received:** 08-Apr-2016 9:26
- **Date Extracted:** 20-Apr-16 8:30

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
### Sample ID: Mill Creek

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stillerd Pond
- **Date Collected:** 07-Apr-2016 9:25

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 0.958 L

**Laboratory Data**
- **Lab Sample:** 1600387-01
- **Date Received:** 08-Apr-2016 9:26
- **QC Batch:** B6D088
- **Date Extracted:** 20-Apr-2016 8:30
- **Date Analyzed:** 20-Apr-16 21:16
- **Column:** ZB-1
- **Analyst:** MS

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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 9:25

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.958 L

### Laboratory Data
- **Lab Sample:** 1600387-01
- **Date Received:** 08-Apr-2016 9:26
- **QC Batch:** B6D0088
- **Date Extracted:** 20-Apr-2016 8:30
- **Date Analyzed:** 20-Apr-2016 21:16
- **Column:** ZB-1
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**Labeled Standard**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- **See individual congeners for qualifiers.**
## Sample ID: GW_136

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 8:35

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.987 L

### Laboratory Data
- **Lab Sample:** 1600387-02
- **Date Received:** 08-Apr-2016 9:26
- **QC Batch:** B6D0088
- **Date Extracted:** 20-Apr-2016 8:30
- **Date Analyzed:** 20-Apr-16 22:21
- **Column:** ZB-1
- **Analyst:** MS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 8:35

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.987 L

### Laboratory Data
- **Lab Sample:** 1600387-02
- **Date Received:** 08-Apr-2016 9:26
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- **Date Extracted:** 20-Apr-2016 8:30
- **Date Analyzed:** 20-Apr-16 22:21
- **Column:** ZB-1
- **Analyst:** MS

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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit
**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
Sample ID: GW_136  

**Client Data**  
Name: Walla Walla Basin Watershed Council  
Project: Stillers Pond  
Date Collected: 07-Apr-2016 8:35

**Sample Data**  
Matrix: Aqueous  
Sample Size: 0.987 L

**Laboratory Data**  
Lab Sample: 1600387-02  
QC Batch: B6D0088  
Date Received: 08-Apr-2016 9:26  
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| Total diCB:   | 137       |          |          |          |
| Total triCB:  | 152       |          |          |          |
| Total tetraCB: | 28.3  | 36.0      |          |          |
| Total pentaCB: | ND    | 16.6      |          |          |
| Total hexaCB: | 3.02      |          |          |          |
| Total heptaCB: | ND    | 1.50      |          |          |

**Notes:**  
EMPC - Estimated maximum possible concentration  
DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit  
See individual congeners for qualifiers.
## Sample ID: GW_136

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 8:35

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.987 L

### Laboratory Data
- **Lab Sample:** 1600387-02
- **QC Batch:** B6D0088
- **Date Analyzed:** 20-Apr-2016 22:21
- **Column:** ZB-1
- **Analyst:** MS

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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- **See individual congeners for qualifiers.**
## Sample ID: GW_145

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- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 9:00

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600387-03
- **Date Received:** 08-Apr-2016 9:26
- **QC Batch:** B6D0088
- **Date Extracted:** 20-Apr-2016 8:30
- **Date Analyzed:** 20-Apr-16 23:26
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- **Analyst:** MS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
Sample ID: GW_145

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- **DL** - Sample specific estimated detection limit
- **EMPC** - Estimated maximum possible concentration
- **LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
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See individual congeners for qualifiers.

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EMPC - Estimated maximum possible concentration

DL - Sample specific estimated detection limit

LCL-UCL - Lower control limit - upper control limit
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- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 9:20

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

**Laboratory Data**
- **Lab Sample:** 1600387-04
- **Date Received:** 08-Apr-2016 9:26
- **QC Batch:** B6D0088
- **Date Extracted:** 20-Apr-2016 8:30
- **Date Analyzed:** 21-Apr-16 00:31
- **Column:** ZB-1
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**EMPC - Estimated maximum possible concentration**
**DL - Sample specific estimated detection limit**
**LCL-UCL - Lower control limit - upper control limit**

See individual congeners for qualifiers.
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EMPC - Estimated maximum possible concentration

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- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit
- See individual congeners for qualifiers.
## Sample ID: GW_147

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- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 07-Apr-2016 8:10

### Sample Data
- Matrix: Aqueous
- Sample Size: 1.01 L

### Laboratory Data
- Lab Sample: 1600387-05
- QC Batch: B6D0088
- Date Analyzed: 21-Apr-16 01:36
- Column: ZB-1
- Analyst: MS

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- PCB-2 1.60
- PCB-3 8.05
- PCB-4 45.6
- PCB-5 102
- PCB-6 18.5
- PCB-7 7.66
- PCB-11 9.92
- PCB-12/13 ND 0.994
- PCB-15 20.1
- PCB-16/32 31.1
- PCB-17 16.4
- PCB-18 44.3
- PCB-19 5.60
- PCB-20/21/33 20.4
- PCB-22 12.1
- PCB-23 ND 0.424
- PCB-24/27 3.12
- PCB-25 2.32
- PCB-26 4.52
- PCB-28 25.9
- PCB-29 ND 0.424
- PCB-30 ND 0.538
- PCB-31 24.3
- PCB-34 ND 0.394
- PCB-35 ND 0.410
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- PCB-38 ND 0.415
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- PCB-40 1.56
- PCB-41/64/71/72 4.91
- PCB-42/59 2.03
- PCB-43/49 4.33

### DL - Sample specific estimated detection limit
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- PCB-2 0.856
- PCB-3 0.424
- PCB-4 0.394
- PCB-5 0.410
- PCB-6 0.397
- PCB-7 0.994
- PCB-11 0.856
- PCB-12/13 0.424
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### Work Order 1600387
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### Sample ID: GW_147

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- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 8:10

#### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

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- **Date Received:** 08-Apr-2016 9:26
- **QC Batch:** B6D0088
- **Date Extracted:** 20-Apr-2016 8:30
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- **Analyst:** MS

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**DL** - Sample specific estimated detection limit

**EMPC** - Estimated maximum possible concentration

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
Sample ID: GW_147  

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Still Pond
- Date Collected: 07-Apr-2016 8:10

**Sample Data**
- Matrix: Aqueous
- Sample Size: 1.01 L

**Laboratory Data**
- Lab Sample: 1600387-05
- QC Batch: B6D0088
- Date Analyzed: 21-Apr-2016 01:36
- Date Received: 08-Apr-2016 9:26
- Date Extracted: 20-Apr-2016 8:30
- Column: ZB-1
- Analyst: MS

### Analyte Concentration (pg/L)

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**Analyte Concentration (pg/L)**

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**Notes:**
- DL - Sample specific estimated detection limit
- EMPC - Estimated maximum possible concentration
- LCL-UCL - Lower control limit - upper control limit
- See individual congeners for qualifiers.
### Sample ID: GW_147

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 07-Apr-2016 8:10

#### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

#### Laboratory Data
- **Lab Sample:** 1600387-05
- **QC Batch:** B6D0088
- **Date Analyzed:** 21-Apr-2016 01:36
- **Column:** ZB-1
- **Analyst:** MS
- **Date Received:** 08-Apr-2016 9:26
- **Date Extracted:** 20-Apr-2016 8:30

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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- See individual congeners for qualifiers.
DATA QUALIFIERS & ABBREVIATIONS

B  This compound was also detected in the method blank.
D  Dilution
E  The associated compound concentration exceeded the calibration range of
the instrument.
H  Recovery and/or RPD was outside laboratory acceptance limits.
I  Chemical Interference
J  The amount detected is below the Lower Calibration Limit of the instrument.
*  See Cover Letter
Conc.  Concentration
DL  Sample-specific estimated detection limit
MDL  The minimum concentration of a substance that can be measured and
reported with 99% confidence that the analyte concentration is greater
than zero in the matrix tested.
EMPC  Estimated Maximum Possible Concentration
NA  Not applicable
RL  Reporting Limit – concentrations that correspond to low calibration point
ND  Not Detected
TEQ  Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.
## CERTIFICATIONS

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<tr>
<td>DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005</td>
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<td>Florida Department of Health</td>
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<td>Hawaii Department of Health</td>
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*Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request*
### NELAP Accredited Test Methods

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<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
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<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
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<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
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<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
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<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
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<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
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<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
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</table>
# Chain of Custody Record

## Project Information
- **Project ID:** Stillier Pond
- **P.O. #:**
- **Sampler:** Steven Patten

## Invoice to:
- **Name:** Chris Sheets
- **Company:** WWBWC
- **Address:** 810 S. Main St
- **City:** Milton-Freewater
- **State:** OR
- **Zip:** 97862
- **Ph#:** 541-938-2170
- **Fax #:** 541-938-2170

## Relinquished by:
- **Date:** 4-7-16
- **Time:** 11:32
- **Received by:** UPS
- **Date:** 4-7-16

## Details
- **Ship To:** Vista Analytical Laboratory
  - **Address:** 1104 Windfield Way
  - **City:** El Dorado Hills, CA
  - **State:** CA
  - **Zip:** 95762
  - **Phone:** (916) 673-1520
  - **Fax:** (916) 673-0106

## Method of Shipment:
- **UPS Next Day Air**

## Sample Information
<table>
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<tr>
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<th>Date</th>
<th>Time</th>
<th>Location/Sample Description</th>
<th>Quantity</th>
<th>Type</th>
<th>Matrix 1</th>
<th>Matrix 2</th>
<th>Matrix 3</th>
<th>Matrix 4</th>
<th>Matrix 5</th>
<th>Matrix 6</th>
<th>Matrix 7</th>
<th>Matrix 8</th>
<th>Matrix 9</th>
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<td>2L</td>
<td>A</td>
<td>AQ</td>
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## Special Instructions/Comments:

## Documentation and Results To:
- **Name:** Steven Patten
- **Company:** WWBWC
- **Address:** 810 S. Main St
- **City:** Milton-Freewater
- **State:** OR
- **Zip:** 97862
- **Phone:** 541-938-2170
- **Fax:** 541-938-2170
- **Email:** steven.patten@wwbwc.org

## Matrix Types:
- DW = Drinking Water
- EF = Effluent
- PP = Pulp/Paper
- SD = Sediment
- SL = Sludge
- SO = Soil
- WW = Wastewater
- B = Blood/Serum

*Note: Bottle Preservative Type: □ T = Thiosulfate, □ O = Other*
## SAMPLE LOG-IN CHECKLIST

**Vista Project #:** 1600387  
**TAT:** Std

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<thead>
<tr>
<th>Samples Arrival:</th>
<th>Date/Time: 04/03/16 09:27</th>
<th>Initials: YSB</th>
<th>Location: WR-2</th>
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<tbody>
<tr>
<td>Shelf/Rack: NA</td>
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<th>Logged In:</th>
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<th>Location: WR-2</th>
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<tr>
<th>Delivered By:</th>
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<th>UPS</th>
<th>On Trac</th>
<th>DHL</th>
<th>Hand Delivered</th>
<th>Other</th>
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<table>
<thead>
<tr>
<th>Preservation:</th>
<th>Ice</th>
<th>Blue Ice</th>
<th>Dry Ice</th>
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<table>
<thead>
<tr>
<th>Temp °C:</th>
<th>6.4 (uncorrected)</th>
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<tbody>
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<td>-0.9 (corrected)</td>
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<table>
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<tr>
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<tr>
<td>Shipping Container(s) Intact?</td>
<td>√</td>
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<tr>
<td>Shipping Custody Seals Intact?</td>
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<tr>
<td>Shipping Documentation Present?</td>
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<td>Trk # 1E02E3F70117233161</td>
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<tr>
<td>Sample Custody Seals Intact?</td>
<td>√</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain of Custody / Sample Documentation Present?</td>
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<tr>
<td>COC Anomaly/Sample Acceptance Form completed?</td>
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If Chlorinated or Drinking Water Samples, Acceptable Preservation?  √

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<th>COC</th>
<th>Sample Container</th>
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<tbody>
<tr>
<td>Shipping Container</td>
<td>Vista</td>
<td>Client</td>
<td>Retain</td>
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*Comments:*
May 24, 2016

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 16-09951 - Aquifer Recharge Water 2016

Dear Mr. Steve Patten,

Your project: Aquifer Recharge Water 2016, was received on Wednesday May 04, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

Patrick Miller, MS
QA Officer

Enclosures: Data Report
<table>
<thead>
<tr>
<th>CAS ID#</th>
<th>Parameter</th>
<th>Result</th>
<th>PQL</th>
<th>MDL</th>
<th>Units</th>
<th>DF</th>
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<th>Lab</th>
<th>Analyst</th>
<th>Batch</th>
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</table>

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.
### Data Report

**Reference Number:** 16-09951  
**Report Date:** 5/24/16

**Sample Description:** Stiller Pond - GW_136  
**Lab Number:** 22667  
**Sample Comment:**

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<th>Lab</th>
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- **NA** = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- **PQL** = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **DF** = Dilution Factor
- **NOTE:** Analysis performed by Steven Patten on 5/16/16 at 10:00 am.

---

**Notes:**

- **NA** = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- **PQL** = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **D.F.** - Dilution Factor
### Data Report

**Sample Description:** Stiller Pond - GW_145  
**Lab Number:** 22668  
**Sample Comment:**  
**Sample Date:** 5/3/16 10:50 am  
**Collected By:** Steven Patten

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**Notes:**
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- DF = Dilution Factor

**Sample Date:** 5/3/16 10:50 am  
**Collected By:** Steven Patten
## Data Report

### Sample Description:
- **Sample Date:** 5/3/16 9:15 am
- **Lab Number:** 22670
- **Sample Comment:**

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### Notes:
- **ND** = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- **PQL** = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **DF** = Dilution Factor

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**Sample Date:** 5/24/16  
**Report Date:** 5/24/16  
**Reference Number:** 16-09951
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**Notes:**
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

Form: cRslt_2.rpt
### DATA REPORT

**Reference Number:** 16-09951  
**Project:** Aquifer Recharge Water 2016

**Report Date:** 5/24/16  
**Date Analyzed:** 5/5/16  
**Analyst:** CO

**Batch:** 8081B  
**Approved By:** pdm.rjk

**Authorized by:**
Patrick Miller, MS  
QA Officer

#### Organochlorine Pesticides

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**Notes:**
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
# DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 22670  
**Field ID:** Stiller Pond  
**Sample Description:** GW-147  
**Matrix:** Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/5/16  
**Extraction Method:** 3510C

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**Notes:**  
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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

**Lab Number:** 22670  
**Field ID:** Stiller Pond  
**Sample Description:** GW-147  
**Matrix:** Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/10/16  
**Extraction Method:** 5030B

**Report Date:** 5/24/16  
**Date Analyzed:** 5/10/16  
**Analytical Method:** 8260C  
**Batch:** 8260W_160510  
**Approved By:** pdm.rjk

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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR  97862

- **Lab Number:** 22669  
- **Field ID:** Stiller Pond  
- **Sample Description:** GW_146  
- **Matrix:** Water  
- **Sample Date:** 5/3/16  
- **Extraction Date:** 5/5/16  
- **Extraction Method:** 3535  

**Lab QL** = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.  
**MDL** = Method Detection Limit is the lowest level that can be quantitatively detected.  
**Permit QL** = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.  
**D.F.** = Dilution Factor.

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### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 22669  
Field ID: Stiller Pond  
Sample Description: GW_146  
Matrix: Water  
Sample Date: 5/3/16  
Extraction Date: 5/5/16  
Extraction Method: 3510C

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862  

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Notes:

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- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

**Lab Number:** 22668  
**Field ID:** Stiller Pond  
**Sample Description:** GW_145  
**Matrix:** Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/5/16  
**Extraction Method:** 3535

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### Organochlorine Pesticides

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- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 22668  
**Field ID:** Stiller Pond  
**Sample Description:** GW_145  
**Matrix:** Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/5/16  
**Extraction Method:** 3510C

**Reference Number:** 16-09951  
**Project:** Aquifer Recharge Water 2016

**Report Date:** 5/24/16  
**Date Analyzed:** 5/6/16  
**Analyst:** KAH  
**Analytical Method:** 8151A  
**Batch:** 8151W_160505  
**Approved By:** pdm,rjk

**Authorized by:** Patrick Miller, MS QA Officer

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Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street, Milton-Freewater, OR 97862

**Lab Number:** 22668  
**Field ID:** Stiller Pond  
**Sample Description:** GW_145  
**Matrix:** Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/10/16  
**Extraction Method:** 5030B

---

**Reference Number:** 16-09951  
**Project:** Aquifer Recharge Water 2016

**Report Date:** 5/24/16  
**Date Analyzed:** 5/10/16  
**Analyst:** HY  
**Batch:** 8260W_160510  
**Approved By:** pdm, rjk

### CAS Number  | Compound                  | RESULT | Flag | UNITS | Lab QL | Permit QL | MDL | D.F. | Lab QL | COMMENT
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
75-34-3 | 1,1 - DICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 |
75-35-4 | 1,1 - DICHLOROETHYLENE | ND | ug/L | 0.4 | 0.13 | 1.00 |
563-58-6 | 1,1 - DICHLOROPROPENE | ND | ug/L | 0.4 | 0.13 | 1.00 |
71-55-6 | 1,1,1 - TRICHLOROETHANE | ND | ug/L | 0.1 | 0.16 | 1.00 |
630-20-6 | 1,1,1,2 - TETRACHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 |
79-00-5 | 1,1,2 - TRICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 |
79-34-5 | 1,1,2,2 - TETRACHLOROETHANE | ND | ug/L | 0.4 | 0.15 | 1.00 |
106-93-4 | 1,2 - DIBROMOETHANE (EDB) | ND | ug/L | 0.4 | 0.15 | 1.00 |
95-50-1 | 1,2 - DICHLOOROBENZENE (ortho) | ND | ug/L | 0.4 | 0.08 | 1.00 |
107-06-2 | 1,2 - Dichloroethane | ND | ug/L | 0.4 | 0.11 | 1.00 |
78-87-5 | 1,2 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.11 | 1.00 |
87-61-6 | 1,2,3 - TRICHLOROBENZENE | ND | ug/L | 0.4 | 0.08 | 1.00 |
96-18-4 | 1,2,3 - TRICHLOROPROPANE | ND | ug/L | 0.4 | 0.09 | 1.00 |
120-82-1 | 1,2,4 - TRICHLOROBENZENE | ND | ug/L | 0.4 | 0.13 | 1.00 |
95-63-6 | 1,2,4 - TRIMETHYLBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 |
96-12-8 | 1,2,4 - DIBROMO-3-CHLOROPROPANE | ND | ug/L | 1.0 | 0.17 | 1.00 |
541-73-1 | 1,3 - DICHLOOROBENZENE (meta) | ND | ug/L | 0.4 | 0.07 | 1.00 |
142-29-9 | 1,3 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.09 | 1.00 |
108-67-8 | 1,3,5 - TRIMETHYLBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 |
106-46-7 | 1,4 - DICHLOOROBENZENE (para) | ND | ug/L | 0.4 | 0.06 | 1.00 |
594-20-7 | 2,2 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.22 | 1.00 |
71-43-2 | BENZENE | ND | ug/L | 0.4 | 0.16 | 1.00 |
108-86-1 | BROMOBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 |
74-97-5 | BROMOCHLOROMETHANE | ND | ug/L | 0.4 | 0.09 | 1.00 |
75-27-4 | BROMODICHLOROMETHANE | ND | ug/L | 0.4 | 0.13 | 1.00 |
75-25-2 | BROMOFORM | ND | ug/L | 0.4 | 0.2 | 1.00 |

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Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
D.F. = Dilution Factor.
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Reference Number: 16-09951
Project: Aquifer Recharge Water 2016

Lab Number: 22667
Field ID: Stiller Pond
Sample Description: GW_136
Matrix: Water
Sample Date: 5/3/16
Extraction Date: 5/5/16
Extraction Method: 3535

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- D.F. = Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c668.rpt
# DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR 97862

**Lab Number:** 22667  
**Sample Description:** GW_136  
**Matrix:** Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/5/16  
**Extraction Method:** 3510C

**Report Date:** 5/24/16  
**Date Analyzed:** 5/6/16  
** Analyst:** KAH  
**Analytical Method:** 8151A  
**Batch:** 8151W_160505  
**Approved By:** pdm, rjk

**Authorized by:**  
Patrick Miller, MSQA Officer

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5. D.F. - Dilution Factor.

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 22667  
Field ID: Stiller Pond  
Sample Description: GW_136  
Matrix: Water  
Sample Date: 5/3/16  
Extraction Date: 5/10/16  
Extraction Method: 5030B

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**Notes:**

- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- MDL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
### Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

**ND** - indicates the compound was not detected above the PQL or MDL.

Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.

**D.F.** - Dilution Factor.

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**810 South Main Street**  
**Milton-Freewater, OR 97862**

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**Reference Number:** 16-09951  
**Project:** Aquifer Recharge Water 2016

**Report Date:** 5/24/16  
**Date Analyzed:** 5/5/16  
**Analyst:** CO  
**Analytical Method:** 8081B  
**Batch:** 8081B_160505  
**Approved By:** pdm,rjk

**Authorized by:**

Patrick Miller, MS  
QA Officer

## Organochlorine Pesticides

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If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
### Experimental Details

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City:** Milton-Freewater, OR  97862

**Lab Number:** 22666  
**Field ID:** Stiller Pond  
**Sample Description:** Mill Creek  
**Matrix:** Surface Water  
**Sample Date:** 5/3/16  
**Extraction Date:** 5/5/16  
**Extraction Method:** 3510C

### Data Report

#### Results

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Form: c608.rpt
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street, Milton-Freewater, OR 97862

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Notes:
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- Lab QL = Laboratory Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- Permit QL = Quantitation Limit required by permit (listed in Appendix A) or other regulatory requirement.
- D.F. - Dilution Factor.
- Screening Only
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**

Reference Number: 16-09951  
Report Date: 05/24/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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**FORM: QCIndependent3.rpt**
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation: % Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limit criteria are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
**SAMPLE INDEPENDENT QUALITY CONTROL REPORT**

**Laboratory Fortified Blank**

Reference Number: 16-09951  
Report Date: 05/24/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Reference Number:** 16-09951  
**Report Date:** 05/24/16

**Laboratory Fortified Blank**

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation:

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: 16-09951  
Report Date: 05/24/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
**SAMPLE INDEPENDENT QUALITY CONTROL REPORT**

Reference Number: 16-09951  
Report Date: 05/24/16

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*Notation:*

% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

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### SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Quality Control Sample**

**Reference Number:** 16-09951  
**Report Date:** 05/24/16

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*Notation:  
\% Recovery = \frac{\text{Result of Analysis}}{\text{True Value}} \times 100  
NA = Indicates \% Recovery could not be calculated.

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FORM: QCIndependent3.rpt
### SAMPLE DEPENDENT QUALITY CONTROL REPORT
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

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NA = Indicates %RPD could not be calculated
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%RPD = Relative Percent Difference

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FORM: QC Dependent.rpt

Reference Number: 16-09951
Report Date: 5/24/2016
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**Trichlorofluoromethane**

- **Batch**: 22669
- **Sample**: TRICHLOROFUOROMETHANE
- **Result**: ND
- **Spike Result**: 2.9 ug/L
- **Conc**: 4 ug/L
- **Units**: NA
- **MS**: 73
- **MSD**: NA
- **Limits**: 70-130
- **%RPD**: NA
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**Vinyl Chloride**

- **Batch**: 22669
- **Sample**: VINYL CHLORIDE
- **Result**: ND
- **Spike Result**: 4.9 ug/L
- **Conc**: 4 ug/L
- **Units**: NA
- **MS**: 123
- **MSD**: NA
- **Limits**: 70-130
- **%RPD**: NA
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**chloride**

- **Batch**: 22585
- **Sample**: CHLORIDE
- **Result**: 2.1 mg/L
- **Spike Result**: 3.1 mg/L
- **Conc**: 1 mg/L
- **Units**: NA
- **MS**: 100
- **MSD**: NA
- **Limits**: 90-110
- **%RPD**: NA
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**Fluoride**

- **Batch**: 22622
- **Sample**: FLUORIDE
- **Result**: 0.69 mg/L
- **Spike Result**: 1.72 mg/L
- **Conc**: 1 mg/L
- **Units**: NA
- **MS**: 103
- **MSD**: NA
- **Limits**: 90-110
- **%RPD**: NA
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**Sulfate**

- **Batch**: 22861
- **Sample**: SULFATE
- **Result**: 4.6 mg/L
- **Spike Result**: 6.4 mg/L
- **Conc**: 2 mg/L
- **Units**: NA
- **MS**: 90
- **MSD**: NA
- **Limits**: 90-110
- **%RPD**: NA
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**Nitrate-N**

- **Batch**: 22666
- **Sample**: NITRATE-N
- **Result**: 0.77 mg/L
- **Spike Result**: 1.30 mg/L
- **Conc**: 0.5 mg/L
- **Units**: NA
- **MS**: 106
- **MSD**: 104
- **Limits**: 80-120
- **%RPD**: 1.9
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**Ortho-Phosphate**

- **Batch**: 22529
- **Sample**: ORTHO-PHOSPHATE
- **Result**: 0.17 mg/L
- **Spike Result**: 1.10 mg/L
- **Conc**: 1.13 mg/L
- **Units**: NA
- **MS**: 93
- **MSD**: 96
- **Limits**: 70-130
- **%RPD**: 3.2
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

**Total Phosphorus**

- **Batch**: 22666
- **Sample**: TOTAL PHOSPHORUS
- **Result**: 0.139 mg/L
- **Spike Result**: 0.189 mg/L
- **Conc**: 0.195 mg/L
- **Units**: NA
- **MS**: 100
- **MSD**: 112
- **Limits**: 70-130
- **%RPD**: 11.3
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

- **Batch**: 23005
- **Sample**: TOTAL PHOSPHORUS
- **Result**: 0.074 mg/L
- **Spike Result**: 0.133 mg/L
- **Conc**: 0.124 mg/L
- **Units**: NA
- **MS**: 118
- **MSD**: 100
- **Limits**: 70-130
- **%RPD**: 16.5
- **Limit**: NA
- **%RPD**: 0-20
- **Type**: LFM

---

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## Qualifier Definitions

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<th>Definition</th>
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<tr>
<td>AH</td>
<td>Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.</td>
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<tr>
<td>H1</td>
<td>Sample analysis performed past holding time.</td>
</tr>
<tr>
<td>H3</td>
<td>Sample was received and analyzed past holding time.</td>
</tr>
<tr>
<td>H5</td>
<td>This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.</td>
</tr>
<tr>
<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
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<tr>
<td>IS</td>
<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
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<tr>
<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
</tr>
<tr>
<td>LE</td>
<td>The end calibration verification for this compound was below the acceptance limit. There were no sample detections and there was adequate sensitivity at the reporting limit. No further action taken with this sample batch.</td>
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<tr>
<td>LR</td>
<td>Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.</td>
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Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
<table>
<thead>
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<th>Phone: 541-382-9770</th>
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May 26, 2016

Vista Work Order No. 1600562

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 04, 2016. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director
Sample Condition on Receipt:

Five aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

**EPA Method 1668C**

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

**Holding Times**

The samples were extracted and analyzed within the method hold times.

**Quality Control**

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. PCB-11 was detected at 9.19 pg/L in the Method Blank. No other analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.
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<table>
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<th>Page</th>
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ANALYTICAL RESULTS
### Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers
--- | --- | --- | --- | ---
PCB-1 | ND | 1.39 | | 
PCB-2 | ND | 1.52 | | 
PCB-3 | ND | 1.52 | | 
PCB-4/10 | ND | 1.04 | | 
PCB-5/8 | ND | 1.45 | | 
PCB-6 | ND | 1.48 | | 
PCB-7/9 | ND | 1.79 | | 
PCB-11 | ND | 9.19 | | 
PCB-12/13 | ND | 1.45 | | 
PCB-14 | ND | 1.25 | | 
PCB-15 | ND | 1.27 | | 
PCB-16/32 | ND | 0.969 | J | 
PCB-17 | ND | 0.812 | | 
PCB-18 | ND | 0.769 | | 
PCB-19 | ND | 0.990 | | 
PCB-20/21/33 | ND | 0.424 | | 
PCB-22 | ND | 0.429 | | 
PCB-23 | ND | 0.413 | | 
PCB-24/27 | ND | 0.598 | | 
PCB-25 | ND | 0.455 | | 
PCB-26 | ND | 0.404 | | 
PCB-28 | ND | 0.765 | | 
PCB-29 | ND | 0.413 | | 
PCB-30 | ND | 0.626 | | 
PCB-31 | ND | 0.884 | J | 
PCB-34 | ND | 0.384 | | 
PCB-35 | ND | 0.388 | | 
PCB-36 | ND | 0.375 | | 
PCB-37 | ND | 0.361 | | 
PCB-38 | ND | 0.393 | | 
PCB-39 | ND | 0.387 | | 
PCB-40 | ND | 0.843 | | 
PCB-41/64/71/72 | ND | 0.674 | J | 
PCB-42/59 | ND | 0.585 | | 
PCB-43/49 | ND | 0.655 | | 

**Analyte** | **Conc. (pg/L)** | **DL** | **EMPC** | **Qualifiers**
--- | --- | --- | --- | ---
PCB-44 | ND | 0.830 | | 
PCB-45 | ND | 0.717 | | 
PCB-46 | ND | 0.786 | | 
PCB-47 | ND | 3.75 | J | 
PCB-48/75 | ND | 0.545 | | 
PCB-50 | ND | 0.721 | | 
PCB-51 | ND | 1.09 | | 
PCB-52/69 | ND | 0.913 | J | 
PCB-53 | ND | 0.656 | | 
PCB-54 | ND | 0.548 | | 
PCB-55 | ND | 0.448 | | 
PCB-56/60 | ND | 0.498 | | 
PCB-57 | ND | 0.523 | | 
PCB-58 | ND | 0.515 | | 
PCB-61/70 | ND | 0.557 | | 
PCB-62 | ND | 0.532 | | 
PCB-63 | ND | 0.503 | | 
PCB-65 | ND | 0.549 | | 
PCB-66/76 | ND | 0.418 | J | 
PCB-67 | ND | 0.536 | | 
PCB-68 | ND | 0.785 | | 
PCB-73 | ND | 0.529 | | 
PCB-74 | ND | 0.483 | | 
PCB-77 | ND | 0.478 | | 
PCB-78 | ND | 0.501 | | 
PCB-79 | ND | 0.475 | | 
PCB-80 | ND | 0.416 | | 
PCB-81 | ND | 0.457 | | 
PCB-82 | ND | 2.12 | | 
PCB-83 | ND | 1.30 | | 
PCB-84/92 | ND | 1.73 | | 
PCB-85/116 | ND | 1.55 | | 
PCB-86 | ND | 2.09 | | 
PCB-87/117/125 | ND | 1.36 | | 
PCB-88/91 | ND | 1.79 | | 

**Notes:**
- **DL:** Sample specific estimated detection limit
- **EMPC:** Estimated maximum possible concentration
- **LCL-UCL:** Lower control limit - upper control limit
- See individual congener qualifiers.
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**EMPC - Estimated maximum possible concentration**  
**DL - Sample specific estimated detection limit**  
**LCL-UCL - Lower control limit - upper control limit**  
See individual congeners for qualifiers.
### Analyte Concentration (pg/L)

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**Qualifiers** - See individual congeners for qualifiers.
## Sample ID: Method Blank

**EPA Method 1668C**

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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**

See individual congeners for qualifiers.
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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**Laboratory Data**

- **Lab Sample:** 1600562-01
- **Date Received:** 04-May-2016  10:04
- **QC Batch:** B6E0061
- **Date Extracted:** 12-May-2016  8:50
- **Date Analyzed:** 12-May-16  21:27
  - **Column:** ZB-1
  - **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
### Sample ID: Mill Creek

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:45

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

**Laboratory Data**
- **Lab Sample:** 1600562-01
- **Date Received:** 04-May-2016 10:04
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- **Date Analyzed:** 12-May-16 21:27
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC:** Estimated maximum possible concentration

**DL:** Sample specific estimated detection limit

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See individual congeners for qualifiers.
### Sample ID: Mill Creek

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**EMPC - Estimated maximum possible concentration**

DL - Sample specific estimated detection limit

LCL-UCL - Lower control limit - upper control limit

See individual congeners for qualifiers.
**Sample ID:** GW_136

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:00

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 0.986 L

**Laboratory Data**
- **Lab Sample:** 1600562-02
- **Date Received:** 04-May-2016 10:04
- **QC Batch:** B6E0061
- **Date Extracted:** 12-May-2016 8:50
- **Date Analyzed:** 12-May-16 22:32
- **Column:** ZB-1
- **Analyst:** MAS

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**Analyte**
- **Conc. (pg/L)**
- **DL** - Sample specific estimated detection limit
- **EMPC** - Estimated maximum possible concentration
- **Qualifiers**

**EMPC** - Estimated maximum possible concentration

See individual congeners for qualifiers.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:00

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 0.986 L

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### Analyte Concentration

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**DL** - Sample specific estimated detection limit

**EMPC** - Estimated maximum possible concentration

**Qualifiers** - See individual congeners for qualifiers.

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**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:00

**Sample Data**
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- **Sample Size:** 0.986 L

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- **Column:** ZB-1
- **Analyst:** MAS

**Analyte Conc. (pg/L) DL EMPC Qualifiers**

| PCB-180 | ND | 0.586 |
| PCB-181 | ND | 0.629 |
| PCB-182/187 | ND | 0.619 |
| PCB-183 | ND | 0.575 |
| PCB-184 | ND | 0.525 |
| PCB-185 | ND | 0.604 |
| PCB-186 | ND | 0.483 |
| PCB-188 | ND | 0.462 |
| PCB-189 | ND | 0.380 |
| PCB-190 | ND | 0.418 |
| PCB-191 | ND | 0.456 |
| PCB-192 | ND | 0.488 |
| PCB-193 | ND | 0.458 |
| PCB-194 | 0.656 | J |
| PCB-195 | ND | 0.392 |
| PCB-196/203 | ND | 1.20 |
| PCB-197 | ND | 0.853 |
| PCB-198 | ND | 1.32 |
| PCB-199 | ND | 1.34 |
| PCB-200 | ND | 0.961 |
| PCB-201 | ND | 0.908 |
| PCB-202 | ND | 0.976 |
| PCB-204 | ND | 0.926 |
| PCB-205 | ND | 0.277 |
| PCB-206 | ND | 0.411 |
| PCB-207 | ND | 0.269 |
| PCB-208 | ND | 0.273 |
| PCB-209 | ND | 0.288 |

**Analyte Conc. (pg/L) DL EMPC Qualifiers**

| Total monoCB | 25.5 |
| Total diCB | 169 |
| Total triCB | 159 |
| Total tetraCB | 29.8 | 31.3 |
| Total pentaCB | 5.11 | 6.60 |
| Total hexaCB | 2.23 | 3.78 |
| Total heptaCB | ND | 0.768 |
| Total octaCB | 0.656 |
| Total nonaCB | ND | 0.411 |
| DecaCB | ND | 0.288 |
| Total PCB | 391 |

**Notes:**
- DL - Sample specific estimated detection limit
- EMPC - Estimated maximum possible concentration
- LCL-UCL - Lower control limit - upper control limit
- See individual congeners for qualifiers.
**Sample ID: GW_136**

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
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**Sample Data**
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- **Sample Size:** 0.986 L

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**Notes:**
- **EMPC** - Estimated maximum possible concentration
- **DL** - Sample specific estimated detection limit
- **LCL-UCL** - Lower control limit - upper control limit
- See individual congeners for qualifiers.

**Work Order 1600562**
## Sample ID: GW_145

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:50

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600562-03
- **Date Received:** 04-May-2016 10:04
- **QC Batch:** B6E0061
- **Date Extracted:** 12-May-2016 8:50
- **Date Analyzed:** 12-May-16 23:38
- **Column:** ZB-1
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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- **DL**: Sample specific estimated detection limit
- **EMPC**: Estimated maximum possible concentration
- **LCL-UCL**: Lower control limit - upper control limit

See individual congeners for qualifiers.
Sample ID: GW_145

Client Data
Name: Walla Walla Basin Watershed Council
Project: Stiller Pond
Date Collected: 03-May-2016 10:50

Sample Data
Matrix: Aqueous
Sample Size: 1.02 L

Laboratory Data
Lab Sample: 1600562-03
QC Batch: B6E0061
Date Analyzed: 12-May-2016 23:38
Column: ZB-1
Analyst: MAS

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DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration
**Sample ID:** GW_146  
**Client Data**  
Name: Walla Walla Basin Watershed Council  
Project: Stiller Pond  
Date Collected: 03-May-2016 10:20

**Sample Data**  
Matrix: Aqueous  
Sample Size: 1.02 L

**Laboratory Data**  
Lab Sample: 1600562-04  
QC Batch: B6E0061  
Date Analyzed: 13-May-2016 00:43  
Column: ZB-1  
Analyst: MAS  
Date Received: 04-May-2016 10:04  
Date Extracted: 12-May-2016 8:50

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**EMPC - Estimated maximum possible concentration**  
**DL - Sample specific estimated detection limit**  
**LCL-UCL - Lower control limit - upper control limit**  
See individual congeners for qualifiers.
**Sample ID:** GW_146  

**Client Data**  
- **Name:** Walla Walla Basin Watershed Council  
- **Project:** Stiller Pond  
- **Date Collected:** 03-May-2016 10:20

**Sample Data**  
- **Matrix:** Aqueous  
- **Sample Size:** 1.02 L

**Laboratory Data**  
- **Lab Sample:** 1600562-04  
- **Date Received:** 04-May-2016 10:04  
- **QC Batch:** B6E0061  
- **Date Extracted:** 12-May-2016 8:50  
- **Date Analyzed:** 13-May-16 00:43  
- **Column:** ZB-1  
- **Analyst:** MAS

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**EMPC** - Estimated maximum possible concentration  
**DL** - Sample specific estimated detection limit  
**LCL-UCL** - Lower control limit - upper control limit  
See individual congeners for qualifiers.
### Sample ID: GW_146

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:20

#### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

#### Laboratory Data
- **Lab Sample:** 1600562-04
- **QC Batch:** B6E0061
- **Date Analyzed:** 13-May-16 00:43
- **Column:** ZB-1
- **Analyst:** MAS

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**Total heptaCB:** ND

**Total octaCB:** ND
**Total nonaCB:** ND
**DecaCB:** ND

**Total PCB:** 521

**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
**Sample ID:** GW_146

**EPA Method 1668C**

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 10:20

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600562-04
- **QC Batch:** B6E0061
- **Date Collected:** 04-May-2016 10:04
- **Date Received:** 04-May-2016 10:04
- **Date Extracted:** 12-May-2016 8:50
- **Date Analyzed:** 13-May-2016 00:43
- **Column:** ZB-1
- **Analyst:** MAS

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**Notes:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- See individual congeners for qualifiers.
### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

### Laboratory Data
- **Lab Sample:** 1600562-05
- **Date Received:** 04-May-2016 10:04
- **QC Batch:** B6E0061
- **Date Extracted:** 12-May-2016 8:50
- **Date Analyzed:** 13-May-16 01:48
- **Column:** ZB-1
- **Analyst:** MAS

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Stiller Pond
- **Date Collected:** 03-May-2016 9:15

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
**Sample ID:** GW_147  
**Client Data**  
Name: Walla Walla Basin Watershed Council  
Project: Stiller Pond  
Date Collected: 03-May-2016 9:15

**Sample Data**  
Matrix: Aqueous  
Sample Size: 1.01 L

**Laboratory Data**  
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QC Batch: B6E0061  
Date Extracted: 12-May-2016 8:50  
Date Analyzed: 13-May-16 01:48  
Column: ZB-1  
Analyst: MAS

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DL - Sample specific estimated detection limit  
EMPC - Estimated maximum possible concentration  
LCL-UCL - Lower control limit - upper control limit  
See individual congeners for qualifiers.
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
Sample ID: GW_147

Client Data
- Name: Walla Walla Basin Watershed Council
- Project: Stiller Pond
- Date Collected: 03-May-2016 9:15

Sample Data
- Matrix: Aqueous
- Sample Size: 1.01 L

Laboratory Data
- Lab Sample: 1600562-05
- QC Batch: B6E0061
- Date Analyzed: 13-May-16 01:48
- Column: ZB-1
- Analyst: MAS

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<th>Qualifiers</th>
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</table>

EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
DATA QUALIFIERS & ABBREVIATIONS

B  This compound was also detected in the method blank.

D  Dilution

E  The associated compound concentration exceeded the calibration range of the instrument.

H  Recovery and/or RPD was outside laboratory acceptance limits.

I  Chemical Interference

J  The amount detected is below the Lower Calibration Limit of the instrument.

*  See Cover Letter

Conc.  Concentration

DL  Sample-specific estimated detection limit

MDL  The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.

EMPC  Estimated Maximum Possible Concentration

NA  Not applicable

RL  Reporting Limit – concentrations that correspond to low calibration point

ND  Not Detected

TEQ  Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.
CERTIFICATIONS

<table>
<thead>
<tr>
<th>Accrediting Authority</th>
<th>Certificate Number</th>
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<tr>
<td>California Department of Health – ELAP</td>
<td>2892</td>
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<tr>
<td>DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005</td>
<td>3091.01</td>
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<tr>
<td>Florida Department of Health</td>
<td>E87777</td>
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<tr>
<td>Hawaii Department of Health</td>
<td>N/A</td>
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<tr>
<td>Louisiana Department of Environmental Quality</td>
<td>01977</td>
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<td>Maine Department of Health</td>
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<tr>
<td>Nevada Division of Environmental Protection</td>
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<td>Oregon Laboratory Accreditation Program</td>
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<td>Virginia Department of General Services</td>
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<td>Washington Department of Ecology</td>
<td>C584</td>
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<td>Wisconsin Department of Natural Resources</td>
<td>998036160</td>
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Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.
## NELAP Accredited Test Methods

### MATRIX: Air

<table>
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<tr>
<th>Description of Test</th>
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<tr>
<td>Determination of Polychlorinated p-Dioxins &amp; Polychlorinated Dibenzofurans</td>
<td>EPA 23</td>
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### MATRIX: Biological Tissue

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<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
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<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
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### MATRIX: Drinking Water

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<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
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<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
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<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
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<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
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<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
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<tr>
<td>Dioxin by GC/HRMS</td>
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<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
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### MATRIX: Solids

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Work Order 1600562
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<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
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<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
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<td>EPA 537</td>
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<td>EPA 8280A/B</td>
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<td>EPA 8290/8290A</td>
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### CHAIN OF CUSTODY RECORD

**Project ID:** Stiller Pond  
**Sampler:** Steven Patten & Tara Patten

<table>
<thead>
<tr>
<th>Invoice to: Name</th>
<th>Company</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip</th>
<th>Ph#</th>
<th>Fax#</th>
<th>TAT: (Check One)</th>
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<tbody>
<tr>
<td>Chris Sheets</td>
<td>WWBWC</td>
<td>810 S. Main St</td>
<td>Milton Freewater</td>
<td>OR</td>
<td>97862</td>
<td>541-938-2170</td>
<td>541-938-2170</td>
<td>Standard 21 days</td>
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<td>Relinquished by:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Rush (surcharge may apply)</td>
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| Steven Patten     |                 |               |          |       |       |           |            | 14 days  
| Relinquished by:  |                 |               |          |       |       |           |            | Specify: 7 days |

**SHIP TO:** Vista Analytical Laboratory  
1104 Windfield Way  
El Dorado Hills, CA 95762  
(916) 673-1520 • Fax (916) 673-0106

**Method of Shipment:** UPS  
**Tracking No.:**

**Sample ID**  
**Date**  
**Time**  
**Location/Sample Description**  
**Container(s):**

<table>
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<tr>
<th>Sample ID</th>
<th>Date</th>
<th>Time</th>
<th>Location/Sample Description</th>
<th>Container(s)</th>
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<td>Mill Creek</td>
<td>5-3-16</td>
<td>10:45</td>
<td>Stiller Pond</td>
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<td>GW_136</td>
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<td>2L A AQ</td>
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**Special Instructions/Comments:**

**Name:** Steven Patten  
**Company:** WWBWC  
**Address:** 810 S. Main  
**City:** Milton-Freewater  
**State:** OR  
**Zip:** 97862  
**Phone:** 541-938-2170  
**Fax:** 541-938-2170  
**Email:** steven.patten@wwbc.org

**Container Types:** A = 1 Liter Amber, G = Glass Jar  
P = PUF, T = MMS Train, O = Other

**Bottle Preservative Type:**  
T = Thiosulfate, O = Other

**Matrix Types:** DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,  
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum  
O = Other

**SEND DOCUMENTATION AND RESULTS TO:**

---

Work Order 1600562  
Page 36 of 37
## SAMPLE LOG-IN CHECKLIST

### Samples Arrival:
- **Date/Time:** 5/4/16 1004
- **Initials:** SR
- **Location:** WR-2
- **Shelf/Rack:** N/A

### Logged In:
- **Date/Time:** 5/4/16 1039
- **Initials:** GA
- **Location:** WR-2
- **Shelf/Rack:** C-3

### Delivered By:
- FedEx
- UPS
- On Trac
- DHL
- Hand Delivered
- Other

### Preservation:
- Ice
- Blue Ice
- Dry Ice
- None

### Temp °C:
- Uncorrected: 1.9
- Corrected: 0.6
- Time: 1006
- Thermometer ID: IR-2

### Checkmarks:
- Adequate Sample Volume Received? Yes
- Holding Time Acceptable? Yes
- Shipping Container(s) Intact? Yes
- Shipping Custody Seals Intact? Yes
- Shipping Documentation Present? Yes
- Airbill: Trk # 1Z 62E 3F7 01 0360
- Sample Container Intact? Yes
- Sample Custody Seals Intact? Yes
- Chain of Custody / Sample Documentation Present? Yes
- COC Anomaly/Sample Acceptance Form completed? Yes

### Comments:

---

Sample Login 11/2013 cka

---

Work Order 1600562 Page 37 of 37
LAST CHANCE ROAD – WY2016 (PRE-OPERATIONS SAMPLE ONLY)
March 30, 2016

Mr. Steve Patten  
Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

RE: 16-05523 - Aquifer Recharge Water and Soil

Dear Mr. Steve Patten,

Your project: Aquifer Recharge Water and Soil, was received on Tuesday March 15, 2016.

All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

If you have questions phone us at 800 755-9295.

Respectfully

[Signature]

Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

Enclosures: Data Report
# Case Narrative

## Sample Information

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Sample Information</th>
<th>Analytical Method</th>
<th>Notes</th>
<th>Created by</th>
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<td>Last Chance - Intake</td>
<td>SM2120 B</td>
<td>Sample was filtered before measurement.</td>
<td>RHF</td>
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<td>Last Chance - GW-148</td>
<td>SM2120 B</td>
<td>Sample was filtered before measurement.</td>
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<td>SM2120 B</td>
<td>Sample was filtered before measurement.</td>
<td>RHF</td>
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### Reference: 16-05523
# Data Report

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**City, State:** Milton-Freewater, OR 97862  
**Reference Number:** 16-05523  
**Project:** Aquifer Recharge Water and Soil

**Report Date:** 3/30/16  
**Date Received:** 3/15/16  
**Approved by:** anp,bj,ckk,fm,mvp  
**Authorized by:** Lawrence J Henderson, PhD  
**Director of Laboratories, Vice President**

---

## Sample Description:
**Last Chance - Intake**

**Lab Number:** 12861  
**Sample Comment:**

**Sample Date:** 3/14/16 11:15 am  
**Collected By:** Steven Patten

### CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment
---|---|---|---|---|---|---|---|---|---|---|---|---|
E-10617 | TURBIDITY | 4.17 | 0.10 | NTU | 1.0 | 180.1 | a | 3/15/16 | RHF | TURB_160315 |
7439-97-6 | MERCURY | ND | 0.0002 | 1.40E-05 | mg/L | 1.0 | 245.1 | a | 3/21/16 | MMH | 245.1_160321 |
16887-00-6 | CHLORIDE | 2.1 | 0.1 | 0.0043 | mg/L | 1.0 | 300.0 | a | 3/16/16 | MMH | I160315A |
16984-48-8 | FLUORIDE | ND | 0.1 | 0.0049 | mg/L | 1.0 | 300.0 | a | 3/16/16 | MMH | I160315A |
14808-79-8 | SULFATE | 4.8 | 0.2 | 0.0087 | mg/L | 1.0 | 300.0 | a | 3/16/16 | MMH | I160315A |
NA | BICARBONATE | 62.5 | 5.0 | mg CaCO3/L | 1.0 | 310.2 | a | 3/16/16 | ANP | 310.2_160318 |
NA | CARBONATE | ND | 5.0 | mg CaCO3/L | 1.0 | 310.2 | a | 3/16/16 | ANP | 310.2_160318 |
NA | CORROSIVITY | -1.30 | Bi | 1.0 | SM203 | a | 3/23/16 | mmp | COR_160323A |
E-11712 | COLOR | 12 N1 | 5 | Color Units | 1.0 | SM2120 B | a | 3/15/16 | RHF | COLOR_160315 | pH: 7.5 |
E-11734 | ODOR | ND | 1 | TON | 1.0 | SM2150 | a | 3/15/16 | RHF | ODOR_160315 |
E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 128 | 10 | mg/L | 1.0 | SM2540 C | a | 3/16/16 | MMH | TDS_160316 |
E-10139 | HYDROGEN ION (pH) | 7.50 H5 | | pH Units | 1.0 | SM4500-H+ B | a | 3/15/16 | RHF | PH_160315 |
14797-55-8 | NITRATE-N | 0.90 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/15/16 | ANP | NO3NO2_160315 |
14265-44-2 | ORTHO-PHOSPHATE | 0.08 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/15/16 | ANP | OPHO5_160315 |
NA | SURFACTANTS | ND | 0.05 | 0.05 | mg/L | 1.0 | SM5540 C | a | 3/16/16 | MJ | AME5540_160315 |
7440-70-2 | CALCIUM | 13.7 | 0.5 | 0.009 | mg/L | 1.0 | 200.7/3010A | a | 3/16/16 | BJ | 200.7_160316A |
7439-89-6 | IRON | 0.35 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/16/16 | BJ | 200.7_160316A |
7439-96-5 | MANGANESE | 0.010 | 0.001 | 0.0002 | mg/L | 1.0 | 200.7/3010A | a | 3/16/16 | BJ | 200.7_160316A |
7440-38-2 | ARSENIC | 0.00015 J | 0.0005 | 8.11E-05 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |
7440-39-3 | BARIUM | 0.017 | 0.001 | 0.00014 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |
7440-43-9 | CADMIUM | ND | 0.00025 | 8.11E-05 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |
7440-47-3 | CHROMIUM | ND | 0.001 | 0.00011 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |
7440-50-8 | COPPER | 0.0014 J | 0.002 | 8.63E-05 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |
7439-92-1 | LEAD | 0.00029 J | 0.0005 | 0.00012 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |
7782-49-2 | SELENIUM | ND | 0.001 | 0.00022 | mg/L | 1.0 | 200.8/3010A | a | 3/16/16 | MVP | 200.8_160316WW |

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- D.F. = Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Form: rResult.rpt
# Data Report

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- **D.F.** = Dilution Factor

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Form: cResult.rpt
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Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor

Form: dResult.rpt
## Data Report

### Sample Description: Last Chance - GW-158

**Lab Number:** 12864  
**Sample Comment:**  
**Sample Date:** 3/14/16  10:50 am  
**Collected By:** Steven Patten

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### Notes:
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- D.F. = Dilution Factor

**Reference Number:** 16-05523  
**Report Date:** 3/30/16
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### Notes:
- ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. = Dilution Factor

Form: dResult.rpt
## DATA REPORT

### General Information
- **Client Name:** Walla Walla Basin Watershed Council
- **Client Address:** 810 South Main Street, Milton-Freewater, OR 97862
- **Lab Number:** 12865
- **Field ID:** Last Chance
- **Sample Description:** GW-159
- **Matrix:** Water
- **Sample Date:** 3/14/16
- **Extraction Date:** 3/16/16
- **Extraction Method:** 3535

### Analytical Data

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### Notes:
- **Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.**
- **ND** = indicates the compound was not detected above the PQL or MDL.
- **PQL** = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- **D.F.** = Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

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**Reference Number:** 16-05523  
**Project:** Aquifer Recharge Water and Soil

**Report Date:** 3/30/16  
**Date Analyzed:** 3/21/16  
**Analyst:** KAH  
**Analytical Method:** 8151A  
**Batch:** 8151W_160318  
**Approved By:** pdm.rjk

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 12865  
Field ID: Last Chance  
Sample Description: GW-159  
Matrix: Water  
Sample Date: 3/14/16  
Extraction Date: 3/15/16  
Extraction Method: 5030B

**Reference Number:** 16-05523  
**Project:** Aquifer Recharge Water and Soil

**Report Date:** 3/30/16  
**Date Analyzed:** 3/15/16  
**Analyst:** HY  
**Batch:** 8260W_160315  
**Approved By:** pdm.rjk

Authorized by:  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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D.F. - Dilution Factor.
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 12864  
Field ID: Last Chance  
Sample Description: GW-158  
Matrix: Water  
Sample Date: 3/14/16  
Extraction Date: 3/16/16  
Extraction Method: 3535

#### - Organochlorine Pesticides

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## DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 12864  
Field ID: Last Chance  
Sample Description: GW-158  
Matrix: Water  
Sample Date: 3/14/16  
Extraction Date: 3/18/16  
Extraction Method: 3510C

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**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 12864  
Field ID: Last Chance  
Sample Description: GW-158  
Matrix: Water  
Sample Date: 3/14/16  
Extraction Date: 3/15/16  
Extraction Method: 5030B

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Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

ND - indicates the compound was not detected above the PQL or MDL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.

D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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- D.F. - Dilution Factor.
## DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 12863  
**Field ID:** Last Chance  
**Sample Description:** GW-149  
**Matrix:** Water  
**Sample Date:** 3/14/16  
**Extraction Date:** 3/16/16  
**Extraction Method:** 3535

### Organochlorine Pesticides

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D.F. - Dilution Factor.

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### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street  
**Milton-Freewater, OR 97862**

**Lab Number:** 12863  
**Field ID:** Last Chance  
**Sample Description:** GW-149  
**Matrix:** Water  
**Sample Date:** 3/14/16  
**Extraction Date:** 3/15/16  
**Extraction Method:** 5030B

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**Reference Number:** 16-05523  
**Project:** Aquifer Recharge Water and Soil

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**Report Date:** 3/30/16  
**Date Analyzed:** 3/15/16  
**Analyzer:** HY  
**Analytical Method:** 8260C  
**Batch:** 8260W_160315  
**Approved By:** pdm.rjk

---

**Authorized by:**  
**Lawrence J Henderson, PhD**  
**Director of Laboratories, Vice President**

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D.F. = Dilution Factor.
**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 12862  
**Field ID:** Last Chance  
**Sample Description:** GW-148  
**Matrix:** Water  
**Sample Date:** 3/14/16  
**Extraction Date:** 3/16/16  
**Extraction Method:** 3535

### - Organochlorine Pesticides

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If you have any questions concerning this report contact us at the above phone number.

Form: c608.rpt
### DATA REPORT

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

Lab Number: 12862  
Field ID: Last Chance  
Sample Description: GW-148  
Matrix: Water  
Sample Date: 3/14/16  
Extraction Date: 3/18/16  
Extraction Method: 3510C

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D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

Lab Number: 12862  
Field ID: Last Chance  
Sample Description: GW-148  
Matrix: Water  
Sample Date: 3/14/16  
Extraction Date: 3/15/16  
Extraction Method: 5030B

Reference Number: Project: Aquifer Recharge Water and Soil

Report Date: 3/30/16  
Date Analyzed: 3/15/16  
Analyst: HY  
Analytical Method: 8260C  
Batch: 8260W_160315  
Approved By: pdm, rjk

Authorized by: Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

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# DATA REPORT

## Project Details

**Client Name:** Walla Walla Basin Watershed Council  
**Address:** 810 South Main Street, Milton-Freewater, OR 97862

**Lab Number:** 12861  
**Field ID:** Last Chance  
**Sample Description:** Intake  
**Matrix:** Water  
**Sample Date:** 3/14/16  
**Extraction Date:** 3/16/16  
**Extraction Method:** 3535

**Reference Number:** 16-05523  
**Project:** Aquifer Recharge Water and Soil

**Report Date:** 3/30/16  
**Date Analyzed:** 3/17/16  
**Analyst:** CO  
**Batch:** 8081B_160316  
**Approved By:** pdm.rjk  

**Authorized by:** Lawrence J Henderson, PhD  
**Director of Laboratories, Vice President**

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## Organochlorine Pesticides

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### Notes:

Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.

- ND - indicates the compound was not detected above the PQL or MDL.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor.

If you have any questions concerning this report contact us at the above phone number.

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Form: c608.rpt
### DATA REPORT

**Client Name:** Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR 97862

**Lab Number:** 12861  
**Field ID:** Last Chance  
**Sample Description:** Intake  
**Matrix:** Water  
**Sample Date:** 3/14/16  
**Extraction Date:** 3/18/16  
**Extraction Method:** 3510C

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Form: c608.rpt
**DATA REPORT**

Client Name: Walla Walla Basin Watershed Council  
810 South Main Street  
Milton-Freewater, OR  97862

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Reference Number: **16-05523**  
Project: Aquifer Recharge Water and Soils

Report Date: 3/30/16  
Date Analyzed: 3/15/16  
Analyst: HY  
Analytical Method: 8260C  
Batch: 8260W_160315  
Approved By: pdm.rj

Authorized by:  
Lawrence J Henderson, PhD  
Director of Laboratories, Vice President

### CAS Compound RESULT Flag UNITS PQL MRL MDL D.F. Lab COMMENT

| 75-34-3 | 1,1 - DICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |
| 75-35-4 | 1,1 - DICHLOROETHYLENE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |
| 563-58-6 | 1,1 - DICHLOROPROPENE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |
| 71-55-6 | 1,1,1 - TRICHLOROETHANE | ND | ug/L | 0.1 | 0.16 | 1.00 | a |
| 630-20-6 | 1,1,1,2 - TETRACHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |
| 79-00-5 | 1,1,2 - TRICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |
| 79-34-5 | 1,1,2,2 - TETRACHLOROETHANE | ND | ug/L | 0.4 | 0.15 | 1.00 | a |
| 95-50-1 | 1,2 - DICHLOROBENZENE (ortho) | ND | ug/L | 0.4 | 0.08 | 1.00 | a |
| 107-06-2 | 1,2 - DICHLOROETHANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |
| 78-87-5 | 1,2 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.11 | 1.00 | a |
| 87-61-6 | 1,2,3 - TRICHLOROBENZENE | ND | ug/L | 0.4 | 0.08 | 1.00 | a |
| 96-18-4 | 1,2,3 - TRICHLOROPROPANE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |
| 120-82-1 | 1,2,4 - TRICHLOROBENZENE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |
| 95-63-6 | 1,2,4 - TRIMETHYL BENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPAINE | ND | ug/L | 1.0 | 0.17 | 1.00 | a |
| 541-73-1 | 1,3 - DICHLOROBENZENE (meta) | ND | ug/L | 0.4 | 0.07 | 1.00 | a |
| 142-28-9 | 1,3 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |
| 108-67-8 | 1,3,5 - TRIMETHYL BENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |
| 106-46-7 | 1,4 - DICHLOROBENZENE (para) | ND | ug/L | 0.4 | 0.06 | 1.00 | a |
| 594-20-7 | 2,2 - DICHLOROPROPANE | ND | ug/L | 0.4 | 0.22 | 1.00 | a |
| 71-43-2 | BENZENE | ND | ug/L | 0.4 | 0.16 | 1.00 | a |
| 108-86-1 | BROMOBENZENE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |
| 74-97-5 | BROMOCHLOROMETHANE | ND | ug/L | 0.4 | 0.09 | 1.00 | a |
| 75-27-4 | BROMODICHLOROMETHANE | ND | ug/L | 0.4 | 0.13 | 1.00 | a |
| 75-25-2 | BROMOFORM | ND | ug/L | 0.4 | 0.2 | 1.00 | a |
| 74-83-9 | BROMOMETHANE | ND | ug/L | 0.4 | 0.3 | 1.00 | a |
| 56-23-5 | CARBON TETRACHLORIDE | ND | ug/L | 0.4 | 0.14 | 1.00 | a |

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Notes:
- Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
- ND - indicates the compound was not detected above the PQL or MDL.
- PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
- D.F. - Dilution Factor.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Calibration Check**

**Reference Number:** 16-05523  
**Report Date:** 03/30/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

**Laboratory Fortified Blank**  
Reference Number: 16-05523  
Report Date: 03/30/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
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*Notation:

- % Recovery = (Result of Analysis)/(True Value) * 100
- NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation:*

% Recovery = \( \frac{\text{Result of Analysis}}{\text{True Value}} \times 100 \)

NA = Indicates % Recovery could not be calculated.

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*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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**SAMPLE INDEPENDENT QUALITY CONTROL REPORT**

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**Reference Number:** 16-05523  
**Report Date:** 03/30/16

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*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

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## SAMPLE INDEPENDENT QUALITY CONTROL REPORT

### Quality Control Sample

**Reference Number:** 16-05523  
**Report Date:** 03/30/16

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*Notation:  
% Recovery = (Result of Analysis)/(True Value) * 100  
NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.
## SAMPLE DEPENDENT QUALITY CONTROL REPORT

**Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report**

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**245.1_160321**

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.
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Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated

**Table 1: Analyte Results**

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%RPD = Relative Percent Difference
NA = Indicates %RPD could not be calculated
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.
Only Duplicate sample with detections are listed in this report
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt
Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch. Only Duplicate sample with detections are listed in this report. Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

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<td>This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.</td>
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<td>IEV</td>
<td>Acceptance criteria do not apply to estimated values</td>
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<td>INH</td>
<td>The sample was non-homogeneous</td>
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<td>IS</td>
<td>The ratio of the spike concentration to sample background was too low to meet performance criteria</td>
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<td>J</td>
<td>Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit.</td>
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<td>LR</td>
<td>Low recovery can not be accounted for. However, there is adequate sensitivity to detect the compound at the lower PQL. No sample detections so no further action for this analysis batch.</td>
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Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.
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<th>Other</th>
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<th>Time</th>
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**Sample Request Form (Must Include Fax or Email):**

- **Date:** 3/14/01
- **Time:** 11:45 AM
- **Received by:**
- **Sample Received Date:** 3/14/01
- **Time:** 11:45 AM
- **Sampled by:**

**Conditions on Request:**

- Chain of Custody & Labels Agree
- Samples Received Intact
- Sample Temp. at 1°C Satisfaction
- Custody Seals Intact

**Sample ID:**

- Water
- Surface Water
- Ground Water
- DW - Drinking Water
- SW - Surface Water
- WW - Waste Water
- SW - Waste Water
- Soil
- Other

**Sample Data:**

- **Sample ID:** 31-461-1720
- **Quality Control:**
- **Other:**

**Instructions:**

1. Use one label per sample location.
2. Be specific in sample requests.
3. Include all sample locations.
4. Check of sample is to be performed for:
   - Field ID
   - Field ID
   - Field ID
   - Field ID
   - Field ID
   - Field ID

**Special Instructions:**

- Email: steven.r.palladino@me.com
- Phone: 541-381-2700
- Fax: 541-381-2701
- Address: 810 S Main Street
- City: Walla Walla
- State: WA
- Zip: 99362

**ANALYTICAL**

- FORRA/CERCA
- Clean Water Act
- Safe Drinking Water Act
- Check Regulatory Program
- See Lab Note Only

**For Lab Use Only:**

- Please complete all applicable shaded sections.
April 20, 2016

Vista Work Order No. 1600291

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 15, 2016. This sample set was analyzed on a standard turn-around time, under your Project Name 'Last Chance Road'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director
Sample Condition on Receipt:

Five aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.
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<th>Page</th>
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<tbody>
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<td>Sample Inventory</td>
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<td>Analytical Results</td>
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## Sample Inventory Report

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DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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EMPC - Estimated maximum possible concentration  
DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit  
See individual congeners for qualifiers.
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DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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- **Matrix:** Aqueous
- **Sample Size:** 1.00 L
- **QC Batch:** B6C0129
- **Date Extracted:** 21-Mar-2016 8:04
- **Lab Sample:** B6C0129-BLK1
- **Date Analyzed:** 28-Mar-16 19:47
- **Column:** ZB-1
- **Analyst:** ANP

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- **13C-PCB-127**
- **13C-PCB-138**
- **13C-PCB-141**
- **13C-PCB-153**
- **13C-PCB-155**
- **13C-PCB-156**

**Qualifiers**
- Labeled Standards
- DL - Sample specific estimated detection limit
- EMPC - Estimated maximum possible concentration
- LCL-UCL - Lower control limit - upper control limit
- See individual congeners for qualifiers.
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Lab Sample: B6C0129-BS1  
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
### Sample ID: INTAKE

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 11:15

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.03 L

**Laboratory Data**
- **Lab Sample:** 1600291-01
- **QC Batch:** B6C0129
- **Date Analyzed:** 28-Mar-16 20:52
- **Column:** ZB-1
- **Analyst:** ANP

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**EMPC** - Estimated maximum possible concentration

DL - Sample specific estimated detection limit

LCL-UCL - Lower control limit - upper control limit

See individual congeners for qualifiers.

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**Work Order:** 1600291

**Page:** 14 of 37
**Sample ID:** INTAKE  
**Client Data**  
Name: Walla Walla Basin Watershed Council  
Project: Last Chance Road  
Date Collected: 14-Mar-2016 11:15  

**Sample Data**  
Matrix: Aqueous  
Sample Size: 1.03 L  

**Laboratory Data**  
Lab Sample: 1600291-01  
QC Batch: B6C0129  
Date Analyzed: 28-Mar-2016 20:52  
Column: ZB-1  
Analyst: ANP

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**EMPC -** Estimated maximum possible concentration  
**DL -** Sample specific estimated detection limit  
**LCL-UCL -** Lower control limit - upper control limit  
See individual congeners for qualifiers.
### Sample Data
- **Sample ID:** GW-148
- **Method:** EPA Method 1668C
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 11:55

### Laboratory Data
- **Lab Sample:** 1600291-02
- **Date Received:** 15-Mar-2016 10:05
- **QC Batch:** B6C0129
- **Date Extracted:** 21-Mar-2016 8:04
- **Date Analyzed:** 28-Mar-16 21:57
- **Column:** ZB-1
- **Analyst:** ANP

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**EMPC** - Estimated maximum possible concentration
**DL** - Sample specific estimated detection limit

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DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
### Sample ID: GW-148

**Client Data**
- Name: Walla Walla Basin Watershed Council
- Project: Last Chance Road
- Date Collected: 14-Mar-2016 11:55

**Sample Data**
- Matrix: Aqueous
- Sample Size: 1.02 L

**Laboratory Data**
- Lab Sample: 1600291-02
- Date Received: 15-Mar-2016 10:05
- QC Batch: B6C0129
- Date Extracted: 21-Mar-2016 8:04
- Date Analyzed: 28-Mar-16 21:57
- Column: ZB-1
- Analyst: ANP

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**EMPC** - Estimated maximum possible concentration

**Qualifiers**
- J: Sample specific estimated detection limit

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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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Name: Walla Walla Basin Watershed Council  
Project: Last Chance Road  
Date Collected: 14-Mar-2016 13:10

Sample Data  
Matrix: Aqueous  
Sample Size: 1.03 L

Laboratory Data  
Lab Sample: 1600291-03  
Date Received: 15-Mar-2016 10:05  
QC Batch: B6C0129  
Date Extracted: 21-Mar-2016 8:04  
Date Analyzed: 28-Mar-16 23:02  
Column: ZB-1  
Analyzer: ANP

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EMPC - Estimated maximum possible concentration  
DL - Sample specific estimated detection limit  
LCL-UCL - Lower control limit - upper control limit  
See individual congeners for qualifiers.
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DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
### Sample ID: GW-149

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 13:10

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.03 L

**Laboratory Data**
- **Lab Sample:** 1600291-03
- **QC Batch:** B6C0129
- **Date Analyzed:** 28-Mar-16 23:02
- **Column:** ZB-1
- **Analyst:** ANP
- **Date Extracted:** 21-Mar-2016

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- **pentaCB:** ND
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- **heptaCB:** ND
- **octaCB:** 0.679
- **nonaCB:** ND
- **DecaCB:** ND
- **Total PCB:** 251

**Note:**
- DL - Sample specific estimated detection limit
- EMPC - Estimated maximum possible concentration
- LCL-UCL - Lower control limit - upper control limit
- See individual congeners for qualifiers.
**Sample ID:** GW-149

**Client Data**
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 13:10

**Sample Data**
- **Matrix:** Aqueous
- **Sample Size:** 1.03 L

**Laboratory Data**
- **Lab Sample:** 1600291-03
- **Date Received:** 15-Mar-2016 10:05
- **QC Batch:** B6C0129
- **Date Extracted:** 21-Mar-2016 8:04
- **Date Analyzed:** 28-Mar-16 23:02
- **Column:** ZB-1
- **Analyst:** ANP

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**Qualifiers**
- EMPC - Estimated maximum possible concentration
- DL - Sample specific estimated detection limit
- LCL-UCL - Lower control limit - upper control limit
- See individual congeners for qualifiers.
## Sample Data

### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 10:50

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600291-04
- **QC Batch:** B6C0129
- **Date Collected:** 14-Mar-2016 10:50
- **Date Analyzed:** 28-Mar-16 00:08
- **Column:** ZB-1
- **Analyst:** ANP

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**Qualifiers**

- **J**

See individual congeners for qualifiers.
### Sample ID: GW-158

#### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 10:50

#### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

#### Laboratory Data
- **Lab Sample:** 1600291-04
- **Date Received:** 15-Mar-2016 10:05
- **QC Batch:** B6C0129
- **Date Extracted:** 21-Mar-2016 8:04
- **Date Analyzed:** 28-Mar-16 00:08
- **Column:** ZB-1
- **Analyst:** ANP

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**Abbreviations:**
- DL: Sample specific estimated detection limit
- EMPC: Estimated maximum possible concentration
- LCL-UCL: Lower control limit - upper control limit
- See individual congeners for qualifiers.
### Sample Data
- **Sample ID:** GW-158
- **Client Data:** Walla Walla Basin Watershed Council
  - **Name:** Last Chance Road
  - **Date Collected:** 14-Mar-2016 10:50
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600291-04
- **QC Batch:** B6C0129
- **Sample Received:** 15-Mar-2016 10:05
- **Sample Extracted:** 21-Mar-2016 8:04
- **Date Analyzed:** 28-Mar-2016 00:08
- **Column:** ZB-1
- **Analyst:** ANP

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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 10:50

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.02 L

### Laboratory Data
- **Lab Sample:** 1600291-04
- **Date Received:** 15-Mar-2016 10:05
- **QC Batch:** B6C0129
- **Date Extracted:** 21-Mar-2016 8:04
- **Date Analyzed:** 28-Mar-16 00:08
- **Column:** ZB-1
- **Analyst:** ANP

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**Note:**
- **EMPC:** Estimated maximum possible concentration
- **DL:** Sample specific estimated detection limit
- **LCL-UCL:** Lower control limit - upper control limit
- See individual congeners for qualifiers.
### Client Data
- **Name:** Walla Walla Basin Watershed Council
- **Project:** Last Chance Road
- **Date Collected:** 14-Mar-2016 12:25

### Sample Data
- **Matrix:** Aqueous
- **Sample Size:** 1.01 L

### Laboratory Data
- **Lab Sample:** 1600291-05
- **Date Received:** 15-Mar-2016 10:05
- **QC Batch:** B6C0129
- **Date Extracted:** 21-Mar-2016 8:04
- **Date Analyzed:** 28-Mar-16 01:13
- **Column:** ZB-1
- **Analyst:** ANP

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**EMPC - Estimated maximum possible concentration**

**DL - Sample specific estimated detection limit**

**LCL-UCL - Lower control limit - upper control limit**

See individual congeners for qualifiers.
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**EMPC** - Estimated maximum possible concentration

**DL** - Sample specific estimated detection limit

**LCL-UCL** - Lower control limit - upper control limit

See individual congeners for qualifiers.
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EMPC - Estimated maximum possible concentration
DL - Sample specific estimated detection limit
LCL-UCL - Lower control limit - upper control limit
See individual congeners for qualifiers.
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**Note:**
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- **DL** - Sample specific estimated detection limit
- **LCL-UCL** - Lower control limit - upper control limit
- See individual congeners for qualifiers.
DATA QUALIFIERS & ABBREVIATIONS

B  This compound was also detected in the method blank.

D  Dilution

E  The associated compound concentration exceeded the calibration range of the instrument.

H  Recovery and/or RPD was outside laboratory acceptance limits.

I  Chemical Interference

J  The amount detected is below the Lower Calibration Limit of the instrument.

*  See Cover Letter

Conc.  Concentration

DL  Sample-specific estimated detection limit

MDL  The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero in the matrix tested.

EMPC  Estimated Maximum Possible Concentration

NA  Not applicable

RL  Reporting Limit – concentrations that correspond to low calibration point

ND  Not Detected

TEQ  Toxic Equivalency

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.
## CERTIFICATIONS

<table>
<thead>
<tr>
<th>Accrediting Authority</th>
<th>Certificate Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Department of Health – ELAP</td>
<td>2892</td>
</tr>
<tr>
<td>DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005</td>
<td>3091.01</td>
</tr>
<tr>
<td>Florida Department of Health</td>
<td>E87777</td>
</tr>
<tr>
<td>Hawaii Department of Health</td>
<td>N/A</td>
</tr>
<tr>
<td>Louisiana Department of Environmental Quality</td>
<td>01977</td>
</tr>
<tr>
<td>Maine Department of Health</td>
<td>2014022</td>
</tr>
<tr>
<td>Nevada Division of Environmental Protection</td>
<td>CA004132015-1</td>
</tr>
<tr>
<td>New Jersey Department of Environmental Protection</td>
<td>CA003</td>
</tr>
<tr>
<td>New York Department of Health</td>
<td>11411</td>
</tr>
<tr>
<td>Oregon Laboratory Accreditation Program</td>
<td>4042-004</td>
</tr>
<tr>
<td>Pennsylvania Department of Environmental Protection</td>
<td>012</td>
</tr>
<tr>
<td>South Carolina Department of Health</td>
<td>87002001</td>
</tr>
<tr>
<td>Texas Commission on Environmental Quality</td>
<td>T104704189-15-6</td>
</tr>
<tr>
<td>Virginia Department of General Services</td>
<td>7923</td>
</tr>
<tr>
<td>Washington Department of Ecology</td>
<td>C584</td>
</tr>
<tr>
<td>Wisconsin Department of Natural Resources</td>
<td>998036160</td>
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</table>

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.
# NELAP Accredited Test Methods

## Matrix: Air

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Determination of Polychlorinated p-Dioxins &amp; Polychlorinated Dibenzofurans</td>
<td>EPA 23</td>
</tr>
</tbody>
</table>

## Matrix: Biological Tissue

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
</tbody>
</table>

## Matrix: Drinking Water

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) GC/HRMS</td>
<td>EPA 1613</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
</tbody>
</table>

## Matrix: Non-Potable Water

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
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</thead>
<tbody>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS</td>
<td>EPA 1699</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Dioxin by GC/HRMS</td>
<td>EPA 613</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
</tbody>
</table>

## Matrix: Solids

<table>
<thead>
<tr>
<th>Description of Test</th>
<th>Method</th>
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<tbody>
<tr>
<td>Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS</td>
<td>EPA 1613</td>
</tr>
<tr>
<td>Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope</td>
<td>EPA 1613B</td>
</tr>
<tr>
<td>Dilution GC/HRMS</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Brominated Diphenyl Ethers by HRGC/HRMS</td>
<td>EPA 1614A</td>
</tr>
<tr>
<td>Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS</td>
<td>EPA 1668A/C</td>
</tr>
<tr>
<td>Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS</td>
<td>EPA 537</td>
</tr>
<tr>
<td>Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS</td>
<td>EPA 8280A/B</td>
</tr>
<tr>
<td>Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS</td>
<td>EPA 8290/8290A</td>
</tr>
</tbody>
</table>
# CHAIN OF CUSTODY

**Project I.D.:** LAST CHANCE ROAD  
**P.O.#:**  
**Sampler:** STEVEN PATTEN  

**Invoice to:** CHEPS STREET  
**Company:** LWRC  
**Address:** 510 S. MAIN ST  
**City:** MALTOS-RECEIVED CA  
**State:** OR  
**Zip:** 97342  
**Ph#:** 541-938-2170  
**Fax#:**  

**Relinquished by:** STEVEN PATTEN  
**Date:** 3/14/16  
**Time:** 1:45p.m.  
**Received by:** B. B.  
**Date:** 3/15/16  
**Time:** 10:05a.m.  

**Relinquished by:** UPS  
**Date:** 03/15/16  
**Time:** 01:07p.m.  

See "Sample Log-in Checklist" for additional sample information.

**SHIP TO:** Vista Analytical Laboratory  
**1104 Windfield Way**  
**El Dorado Hills, CA 95762**  
**(916) 673-1520 • Fax (916) 673-0106**  

**ATTN:**  

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Date</th>
<th>Time</th>
<th>Location/Sample Description</th>
<th>Add Analysis(es) Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTRAKE</td>
<td>3/14/16</td>
<td>11:15</td>
<td>LCR</td>
<td>2L A AQ</td>
</tr>
<tr>
<td>GW-148</td>
<td>3/14/16</td>
<td>11:05</td>
<td>LCR</td>
<td>2L A AQ</td>
</tr>
<tr>
<td>GW-149</td>
<td>3/14/16</td>
<td>13:10</td>
<td>LCR</td>
<td>2L A AQ</td>
</tr>
<tr>
<td>GW-158</td>
<td>3/14/16</td>
<td>10:50</td>
<td>LCR</td>
<td>2L A AQ</td>
</tr>
<tr>
<td>GW-159</td>
<td>3/14/16</td>
<td>12:25</td>
<td>LCR</td>
<td>2L A AQ</td>
</tr>
</tbody>
</table>

**Special Instructions/Comments:**  

**SEND DOCUMENTATION AND RESULTS TO:**  

**Name:** STEVEN PATTEN  
**Company:** LWRC  
**Address:** 510 S. MAIN ST  
**City:** MALTOS-RECEIVED CA  
**State:** OR  
**Zip:** 97342  
**Phone:** 541-938-2170  
**Fax:** SAME  
**Email:** steven@lwrccom  

**Matrix Types:**  
- DW = Drinking Water  
- EF = Effluent  
- PP = Pulp/Paper  
- SD = Sediment  
- SL = Sludge  
- SO = Soil  
- WW = Wastewater  
- B = Blood/Serum  
- AQ = Aqueous  

**Container Types:**  
- A = 1 Liter Amber  
- G = Glass Jar  

**Preservative Type:**  
- T = Thiosulfate  
- O = Other  

---

Work Order 1600291  
**WHITE - ORIGINAL**  
**YELLOW - ARCHIVE**  
**PINK - COPY**  
Page 36 of 37
## SAMPLE LOG-IN CHECKLIST

<table>
<thead>
<tr>
<th>Samples Arrival:</th>
<th>Date/Time</th>
<th>Initials:</th>
<th>Location:</th>
<th>Shelf/Rack:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03/15/16 1005</td>
<td>BBB</td>
<td>WR-3</td>
<td>NA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Logged In:</th>
<th>Date/Time</th>
<th>Initials:</th>
<th>Location:</th>
<th>Shelf/Rack:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03/15/16 1408</td>
<td>FBB</td>
<td>WR-5</td>
<td>A4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Delivered By:</th>
<th>FedEx</th>
<th>UPS</th>
<th>On Trac</th>
<th>DHL</th>
<th>Hand Delivered</th>
<th>Other</th>
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</thead>
<tbody>
<tr>
<td>Preservation:</td>
<td>Ice</td>
<td>Blue Ice</td>
<td>Dry Ice</td>
<td>None</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Temp °C:</th>
<th>(uncorrected)</th>
<th>Time:</th>
<th>Thermometer ID:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-0.4</td>
<td>1008</td>
<td>IR-2</td>
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<table>
<thead>
<tr>
<th>Adequate Sample Volume Received?</th>
<th>YES</th>
<th>NO</th>
<th>NA</th>
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<tbody>
<tr>
<td>Holding Time Acceptable?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Container(s) Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Custody Seals Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shipping Documentation Present?</td>
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<td></td>
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<tr>
<td>Airbill</td>
<td></td>
<td></td>
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<tr>
<td>Sample Container Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sample Custody Seals Intact?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain of Custody / Sample Documentation Present?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COC Anomaly/Sample Acceptance Form completed?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>If Chlorinated or Drinking Water Samples, Acceptable Preservation?</th>
<th>YES</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Na₂S₂O₃ Preservation Documented?</th>
<th>COC</th>
<th>Sample Container</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>None</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Shipping Container</th>
<th>Vista</th>
<th>Client</th>
<th>Retain</th>
<th>Return</th>
<th>Dispose</th>
</tr>
</thead>
</table>

Comments:
APPENDIX C - WALLA WALLA BASIN AQUIFER RECHARGE WATER QUALITY AND WATER LEVEL MONITORING QUALITY ASSURANCE PROJECT PLAN

Click here to download the WWBWC's QAPP

www.wwbwc.org/images/Projects/AR/Reports/QAPP_1.3_WA.pdf