

Yakima Valley Dairies

Provision of Water

Residential Well Sampling Report

Administrative Order on Consent
SDWA-10-2013-0080

March 6, 2014

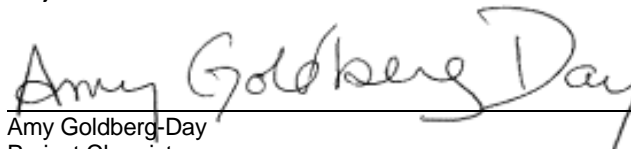
Residential Well Sampling
Provision of Water
Administrative Order on Consent SDWA-10-2013-0080
Yakima Valley Dairies, Washington

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Yakima Valley Dairies

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Acronyms and Abbreviations

AOC	Administrative Order on Consent
DQO	data quality objective
EPA	U.S. Environmental Protection Agency
HSP	Health and Safety Plan
MCL	maximum contaminant level
mg/L	milligrams per liter
PARCC	precision, accuracy, representativeness, comparability, and completeness
PC	Project Coordinator
QAM	Quality Assurance Manager
QAPP	Quality Assurance Project Plan
QC	quality control
RO	reverse osmosis
SOP	standard operating procedure
SOW	Statement of Work
SSC/STL	Site Safety Coordinator/Sampling Team Leader

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Executive Summary

Pursuant to Section III.D - Provision of Water as presented in the Statement of Work (SOW) of the Yakima Valley Dairies (the “Dairies”) Administrative Order on Consent (AOC) SDWA-10-2013-0080, the Dairies are required to offer reverse osmosis (RO) treatment systems, or other alternative water if mutually approved by the U.S. Environmental Protection Agency (EPA) and the Dairies, to each residence that does not already have a RO treatment system or alternative water where testing showed that nitrate concentrations in the drinking water supply exceed the nitrate maximum contaminant level (MCL) of 10 milligrams per liter (mg/L), provided that the residence is within the “area of interest” as defined by the AOC.

Collection and analysis of drinking water samples were required in order to determine the need for RO treatment systems or alternative water supply at residences within the area of interest. For residences where RO systems are in place, no sampling of the water supply was conducted. The Dairies offered to provide professional maintenance of these pre-existing systems at the Dairies cost.

The scope of the Residential Well Sampling included the collection and analysis of drinking water samples from residences within the area of interest according to methods presented in the Residential Well Sampling Quality Assurance Project Plan (QAPP) dated April 26, 2013 (approved by EPA May 13, 2013). Residential well sampling was initiated on May 27, 2013 and substantially completed by June 20, 2013; ARCADIS continued to sample residences who responded to the notification letter and/or “not-at-home” notification until June 20, 2013.

The results of the sampling effort and subsequent RO treatment system installation and maintenance offers are summarized on a per-residence basis as follows:

Element	Number of Residences	Information Reference
Residences identified as being located within the area of interest	224	Table 1
Residence already had reverse osmosis unit installed	50	Table 2
Residence assessed for nitrate concentration in drinking water, either by Hach test strip or lab analysis	141	Tables 3 and 4

Element	Number of Residences	Information Reference
Hach test strip indicated a drinking water nitrate concentration under 5 ppm at the residence	26	Table 3
Residence drinking water was sampled and sent to analytical laboratory for nitrate analysis	115	Tables 6 and 7
Residence drinking water sample nitrate concentration was less than the nitrate MCL, either by Hach test strip or lab analysis	75	Tables 3 and 6
Residence drinking water sample nitrate concentration exceeded the nitrate MCL based on laboratory analysis	67	Table 7
Residence drinking water sample nitrate concentration was below the nitrate MCL based on laboratory analysis	49	Table 6
Residence drinking water was not sampled because the resident refused access	4	Table 10
Residence drinking water was not sampled because there was no resident at home and follow-up contact requests failed	19	Table 10
Residence drinking water was not sampled because the residence was vacant	8	Table 10
Residence was offered reverse osmosis treatment system, at no charge to the resident	63	Table 8
Residence accepted the offer of a reverse osmosis unit	36	Table 8
Residence was offered maintenance of existing reverse osmosis unit, at no charge to the resident	50	Table 9
Residence accepted the offer of maintenance of an existing reverse osmosis unit	15	Table 9

Out of 191 residences that were assessed for nitrate (either by Hach test strip, laboratory analysis, or the presence of an existing reverse osmosis unit) approximately 61 percent exceeded the maximum contaminant level (MCL) of 10 mg/L for nitrate or already had a nitrate treatment system installed

At the time of this report (March 6, 2014), the Dairies have responded to all received requests from residents for either (1) installation and maintenance of new RO systems

or (2) maintenance of existing RO systems. Based on this information, the Dairies have met and completed the Provision of Water requirement of the AOC.

1. Introduction

ARCADIS U.S. Inc. (ARCADIS) on behalf of: (1) Cow Palace, LLC; (2) D & A Dairy, LLC (also known as D&A Dairy L.L.C.), George DeRuyter & Son Dairy, L.L.C., and George & Margaret, L.L.C; and (3) Liberty Dairy LLC and its associated dairy facility H&S Bosma Dairy presents the U.S. Environmental Protection Agency (EPA) this Residential Well Sampling Report (the "Report") for the Yakima Valley Dairies (the "Dairies"). The Report was prepared in accordance with the requirements identified in Section III - Provision of Water of the Statement of Work (SOW) for Administrative Order on Consent (AOC) SDWA-10-2013-0080. Residential Well Sampling Activities are defined in the Residential Well Sampling Quality Assurance Project Plan (QAPP) dated April 26, 2013 (approved by EPA May 13, 2013).

1.1 Purpose

Pursuant to Section III.D - Provision of Water as presented in the AOC SOW, the Dairies are required to offer reverse osmosis (RO) treatment systems, or other alternative water if mutually approved by the EPA and the Dairies, to each residence that does not already have a RO treatment system or alternative water where testing showed that nitrate concentrations in the drinking water supply exceed the nitrate maximum contaminant level (MCL) of 10 milligrams per liter (mg/L), provided that the residence is within:

- The boundary of the Dairy Facilities (Figures 1 and 2), or
- One mile downgradient of the boundary of the Dairy Facilities (Figure 1 and Figure 2).

Collection and analysis of drinking water samples were required in order to determine the need for RO treatment systems or alternative water supply at residences within the boundaries identified in Figures 1 and 2, hereafter referred to as the "area of interest".

For residences where RO systems are in place, no sampling of the water supply was conducted. The Dairies offered to provide professional maintenance of these systems at the Dairies cost.

1.2 Scope of Work

The scope of the Residential Well Sampling included the collection and analysis of drinking water samples from residences within the area of interest as presented in Section 1.1.

Activities performed as part of the Residential Wells Sampling included the following

- Identification of residences located within the area of interest (Figures 1 and 2)
- Communication with residents within the area of interest via:
 - Notification letters mailed prior to Residential Well Sampling
 - Home visits during Residential Well Sampling
 - “Not-at-home” notification left at residences where contact could not be made with the occupants.
- Collection of drinking water samples for nitrate concentration field screening at residences where permission to collect samples was granted. Drinking water samples were screened in the field at the time of collection using Hach™ test strips to estimate nitrate concentrations.
- At residences where field screening samples indicated nitrate concentrations greater than 5 parts per million (ppm), drinking water samples were collected and delivered to TestAmerica Laboratory, Inc. (TestAmerica), a State of Washington accredited drinking water laboratory located in Spokane Valley, Washington for nitrate analysis by EPA Method 300.0.
- Following laboratory analysis, residences where detected nitrate concentrations in drinking water exceed the 10 mg/L MCL were offered RO treatment systems.
- Where offers of RO treatment systems were accepted, they were installed and will be maintained by the Dairies.
- For residences where RO systems were found to be in place, the Dairies offered professional maintenance of these systems at the Dairies cost.

2. Data Generation and Acquisition

2.1 Residence Identification and Communication

A Residential Well Sampling notification letter was sent to each of the 224 residences that were identified within the area of interest. The letters were sent to the residences on May 17, 2013. Table 1 presents the 224 residences by street address. The notification letter was presented in English and Spanish and included the following information:

- Notification of the purpose of the Residential Well Sampling
- Dates when sampling crews will be in the area
- An invitation for response to:
- Ask questions about the sampling
- Contact information for both the Project Coordinator (PC) and the U.S. Environmental Protection Agency (EPA) PC.

Responses to notification letters were documented and categorized as they were received. For residences where positive responses were received, sampling appointments were scheduled. For negative responses or non-respondent residences, the name and address associated with the residence was forwarded to the EPA PC by the ARCADIS PC. Model letters used to communicate with the residences (e.g., a generic offer to sample letter, letter offering to install a reverse osmosis unit, etc.) are presented in Appendix A.

Residences were visited by the ARCADIS field sampling teams beginning on May 28, 2013. Field sampling teams informed the residents of the Residential Well Sampling and requested permission to sample. Where permission was granted, samples were collected. For residences where permission was denied, the refusal was documented, and the name and address associated with the residence was forwarded to the EPA PC by the ARCADIS PC.

For residences where no one was present, a “not-at-home” note was left either on the door or in an area believed to readily visible by the resident. The names and addresses associated with “not-at-home” residences were forwarded to the EPA PC by the

ARCADIS PC. If a positive response for sampling was received as a result of the “not-at-home” note, a sampling appointment was scheduled with the resident. A follow-up round of visits to “not-at-home” residents who did not respond was completed on June 19 and 20, 2013. Residences that declined sampling via response to the initial notification letter were not visited by the field sampling teams.

2.2 Residential Well Sampling

Residential well sampling was initiated on May 28, 2013 and substantially completed by June 20, 2013; ARCADIS continued to sample residences who responded to the notification letter and/or “not-at-home” notification until June 20, 2013. Additionally, ARCADIS sampled seven (7) residential properties owned by the Dairies. Five of the seven where no resident response was received were sampled on September 18, 2013. Where residents granted permission for ARCADIS sampling crews to enter the premises, the sampling crews initially inquired as to presence or absence of (1) a reverse osmosis (RO) system or (2) a water treatment system (such as a water softener) at the residence. If an RO system was present, the sampling team documented that an RO system was present. The sampling team inquired if the RO system is professionally maintained, and if so, who performs the maintenance (including contact information, if available). Offers for professional RO system maintenance were made to all residences with existing RO systems.

Upon receiving permission to collect a water sample at the residence, an initial screening sample was collected. In most cases, samples were collected from an outside hose bib. Fifteen samples were collected inside a residence from the kitchen faucet. If a water softener was present, field sampling crews ensured that samples were collected upstream of the treatment system or the system was disconnected prior to collecting the sample.

The screening sample was analyzed using Hach™ test strips. If the Hach™ test strip indicated that the nitrate concentration was less than 5 mg/L, then no sample for laboratory analysis was collected. If the Hach™ test strip indicated that the nitrate concentration was equal to or greater than 5 mg/L, a sample for laboratory analysis was collected. In all cases, the result of the Hach™ test strip analysis was shared with the resident at the time of sampling and documented on the Residential Well Sampling Record and in the Hach™ test strip log. The Residential Well Sampling Records are presented in Appendix B.

Laboratory analytical results were used to determine the need for an offer of an RO treatment system. If the nitrate concentration was confirmed by laboratory analysis to be greater than 10 mg/L, an offer was made. If the nitrate concentration was less than 10 mg/L, no offer was made. In all cases, the laboratory analytical results were provided to both the resident (via U.S. Mail) and EPA.

2.2.1 Sampling Methods

This section presents the sampling methodology for the collection of screening and laboratory analytical samples from residences where positive responses to requests for sampling were obtained. As noted in Section 2.1, initial sampling activities focused on residences where positive responses were received from the initial request letter, followed by residences where permission was obtained by site visit. The sampling and site visit activities were conducted by a field team of two ARCADIS staff.

- 1) Ask the resident if an RO system or water softener is present at the residence.
- 2) If an RO system is present, visually observe the system to document the make and model. Ascertain and document if the system is professionally maintained. No sample was collected from the residence if an RO system was present..
- 3) If a water softener or other water treatment system is present, visually verify the location of the system and determine the appropriate location at the residence to collect a water sample upstream of the treatment system or ensure that the treatment system is in "bypass" mode during sampling.
- 4) Endeavor to collect the sample from an outdoor hose bib. Outside hose bibs are typically located upstream of treatment systems, and use of an outdoor sampling location eliminates the need to enter the residence, results in less inconvenience to the resident, and allows for purge water to be spread on the lawn or other outside area. If an outdoor hose bib is not present or accessible, collect the samples from a utility or kitchen area sink.
- 5) If an indoor faucet is used for sampling, remove any filters or aerators prior to sampling.
- 6) Don clean nitrile gloves and disinfect the hose bib or faucet prior to sampling using a disinfecting spray or wipe and then dry using a clean paper towel.

- 7) Fit variable width tubing over the disinfected hose bib or faucet and cut to an appropriate length to allow sampling. If necessary, hose clamps may be used to attach the tubing to the water supply.
- 8) After attaching tubing, run the water source for 5 minutes to remove stagnant water from the water system.
- 9) After 5 minutes, take a nitrate Hach™ test strip measurement, following manufacturer instructions.
- 10) Shut off the water.
- 11) Follow test strip manufacturer instructions to determine the nitrate concentration in the sample.
- 12) Record the results on the residence sample sheet and in the test strip result log and share the results with resident.
- 13) If the nitrate test strip indicates a nitrate concentration of less than 5 mg/L, disassemble the sampling equipment, restore the resident's property (e.g., aerators, filters, garden hose) to its original location prior to sampling, and depart location.
- 14) If the nitrate test strip indicates a nitrate concentration of 5 mg/L or greater, turn on water source and allow it to run for 1 minute.
- 15) Fill the sample bottle to within 1 inch of the top and seal with the lid. Do not overflow.
- 16) Collect duplicate samples for laboratory analysis at a frequency of one out of every ten samples.
- 17) Fill out the chain-of-custody form and sample bottle label, and record sample numbers on the residence sampling field sheet and sample log forms. Unique sample numbers for each residence are provided to the sample team by the Sampling Team Leader (STL) prior to sampling activities. If a duplicate sample is collected, follow the duplicate sample number guidance provided in Section 2.5.2 of the QAPP.

- 18) Place samples on ice in coolers for shipment to the laboratory.
- 19) Disassemble sampling equipment and restore resident's property (e.g., aerators, filters, garden hose) to its original location prior to sampling.
- 20) Prior to departing, collect and decontaminate all non-disposable sampling equipment (e.g., hose clamps, screwdrivers) using a disinfectant spray or wipe. All disposable sampling equipment (e.g., tubing, gloves, disinfectant wipes) will be contained in a garbage bag and disposed of in an appropriate trash receptacle identified by the STL at the end of each day.
- 21) Measure and record the GPS coordinates of the location for each well sampled. GPS data include latitude, longitude, and elevation. Coordinates are recorded in decimal degrees.

2.2.2 Sample Handling and Custody

All samples were accompanied by a chain-of-custody record. When custody of samples was transferred, the individuals relinquishing and receiving the samples signed and dated the chain-of-custody record. The chain-of-custody record documents the custody transfer from the sampler, often through another agent (shipping/transport company), to the laboratory sample custodian.

Prior to shipment, samples were packaged properly and a chain-of-custody record accompanied each shipping container. All shipping containers were sealed with custody seals for shipment/transport to the laboratory. Custody seals were placed in a manner that indicated if the container has been opened during shipment. Courier names and other pertinent information were documented on the chain-of-custody record. All shipments were accompanied by the chain-of-custody record that identifies the contents of the shipment. The original and one copy was included in the shipment, an additional copy was retained by the sampler and provided to the ARCADIS PC. All shipping documentation (e.g., freight bills) was retained as part of the chain-of-custody documentation by the ARCADIS PC.

All samples collected for laboratory nitrate concentration analysis were received by Ms. Cat Stapleton at TestAmerica located at 11922 E 1st Avenue, Spokane, Washington. Upon arrival at the laboratory, the TestAmerica sample custodian accepted custody of the samples from the carrier and entered information about the shipment into a sample receipt log that included the initials of the person delivering the

package and the status of custody seals on the containers. The sample custodian logged in the samples following the laboratory standard operating procedure (SOP). Following sample analysis, the unused portions of all samples were disposed of by TestAmerica in accordance with their laboratory SOP. A total of 12 sample delivery groups were submitted to the analytical laboratory; the delivery groups and collection dates are as follows:

Sample Delivery Group	Samples Collected	Date Received by Lab
SWE0197	May 28, 29, 2013	May 30, 2013
SWE0206	May 29 & 30, 2013	May 30, 2013
SWE0207	May 30, 2013	May 31, 2013
SWF0005	June 3, 2013	June 4, 2013
SWF0019	June 3 & 4, 2013	June 5, 2013
SWF0030	June 4 & 5, 2013	June 6, 2013
SWF0049	June 5 & 6, 2013	June 7, 2013
SWF0058	June 9 & 10, 2013	June 11, 2013
SWF0070	June 10, 2013	June 11, 2013
SWF0123	June 18 & 19, 2013	June 20, 2013
SWF0131	June 19 & 20, 2013	June 20, 2013
SWI0124	September 18, 2013	September 19, 2013

In addition to the chain-of-custody documentation described above, field sampling forms were completed at each residence and indicated if samples were collected, sample numbers, duplicate samples, and other pertinent information including significant events and observations that occurred during sampling activities. Sufficient information was noted on field sampling forms to enable participants to reconstruct events that occurred and to refresh the memory of field personnel, if needed (Appendix B). Original copies of all field forms and chain-of-custody documents were retained by the ARCADIS PC in the project files.

2.3 Analytical Methods

Residential well samples were analyzed for nitrate by EPA Method 300.0. Because of the 48-hour holding time for nitrate analysis by EPA Method 300.0, samples were shipped using an overnight delivery service each day (Monday through Thursday).

TestAmerica analyzed the samples immediately upon receipt to ensure holding time compliance. Analytical laboratory reports are presented in Appendix C.

2.4 Quality Control

This section presents the field and laboratory quality control (QC) requirements for Residential Wells Sampling.

2.4.1 Field Quality Control Samples

The Residential Wells Sampling included the collection of field QC samples including field duplicates and field blanks. The field duplicate samples were collected immediately following collection of target samples using the same collection procedures. Field duplicate samples were collected at a frequency of one in every ten samples. A field blank QC sample was prepared by the sampling team at the beginning of each sampling day by filling a sample bottle with laboratory supplied deionized water. The field blank was stored in the sample cooler for the duration of the sampling day. Field blanks were prepared for each sample cooler and were sent to the laboratory for analysis as part of the related sample delivery group.

Table 5 presents the quality control samples and subsequent results. In total, 16 duplicate pairs and 15 field blanks were collected throughout the duration of the sampling event. The results were presented in the data validation report generated for the sampling groups. The relative percent difference between the duplicate pair met the criteria as specified in the QAPP. In addition, no detections above laboratory reporting limits were reported in the field blanks, which met the field blank QC criteria. Eight (8) matrix spike and eight (8) matrix spike duplicates were prepared and analyzed by TestAmerica.

2.4.2 Laboratory Quality Control Procedures

Laboratory QC procedures included the following:

- Nitrate analysis of water samples according to EPA Method 300.0
- Instrument calibration and standards as defined in EPA Method 300.0
- Laboratory blank measurements at a minimum 5 percent or one per batch frequency

- Accuracy and precision measurements at a minimum of one in 20 or one per set
- Data reduction and reporting according to EPA Method 300.0
- Laboratory documentation according to EPA Method 300.0 and laboratory SOP requirements.

2.5 Data Management

All field data collected during the Residential Wells Sampling was recorded on field forms (Appendix B). Pertinent information, such as Hach™ test strip results, was transferred to an Excel spreadsheet.

The analytical data obtained from the laboratory is maintained in an electronic data management tool. All data underwent review and validation as described in Section 4. Five Data Usability Summary Reports, documenting the data validation for each of the sample delivery groups, were submitted to EPA during the course of the project. Data validation reports are presented in Appendix D.

In addition, the data are provided to the EPA in accordance with the procedures presented in “EPA Region 10 Monitoring and Analytical Data Deliverables Data Submission Process for Water Quality Exchange (WQX) Compatible Deliverables for Yakima Dairies (Docket No. SDWA-10-2013-0080), and “EPA Region 10 Geographic Information System Data Deliverable Guidance for Yakima Dairies (Docket No. SDWA-10-2013-0080). ARCADIS provides the complete data set in electronic format on the enclosed CD (Appendix F).

Data submitted to the EPA is provided in the requested format which is consistent with the examples provided by the EPA to ARCADIS.

3. Assessment

The Residential Well Sampling Report documents the following:

- All residences identified within the area of interest
- All efforts to contact residents to sample drinking water supplies
- All screening and laboratory analytical results

- Records of offers for treatments systems and resident responses.

Tables 1 through 10 provide a summary of the information and data generated as a result of the Residential Well Sampling effort. Figure 3 provides a depiction of (1) location of residences within the area of interest; (2) relative nitrate concentrations at sampled residences, and; (3) location of residences with existing RO systems within the area of interest. Figure 3 does not depict residences where sampling was refused or otherwise not conducted (as described in the following sections).

3.1 Residential Sampling Locations

A total of 224 residences were identified within the area of interest. One hundred eighty-two (182) residences were located one mile downgradient of the boundary of the Dairy Facilities. Forty-two (42) residences were located within the Dairy Facilities boundary. A summary of all the residences identified for the Residential Well Sampling and visited by ARCADIS personnel is presented in Table 1. Fifty (50) residences were identified as having an existing RO system (Table 2).

3.2 Field Screening

One hundred forty-one (141) residences gave permission to collect samples (does not include residences that were determined to have existing reverse osmosis [RO] systems installed). Field screening of 26 residences had Hach™ test strip results less than 5 mg/L (Table 3). Drinking water samples were not collected from these residences.

3.3 Analytical Results

One hundred fifteen (115) residences were identified for the collection of drinking water samples (Table 4). Fifteen (15) of these residences shared a common well with a nearby residence. A total of 100 residences were sampled for the analysis of nitrate in drinking water. A summary of quality control samples is presented in Table 5.

3.3.1 Result Less Than MCL

Analytical results of drinking water samples indicated that 49 residences had detected nitrate concentrations less than the MCL of 10 mg/L (Table 6). Three of these residences share a well having a nitrate concentration less than the MCL.

3.3.2 Result Greater Than MCL

Analytical results of drinking water samples indicated that 67 residences had detected nitrate concentrations equal to or greater than the MCL of 10 mg/L (Table 7). Twelve (12) residences share a well with a nitrate concentration greater than the MCL.

3.4 Treatment System Installations and Maintenance

Letters offering either the installation of an RO system or the maintenance of an existing system were mailed to residences that had a drinking water nitrate concentration greater than the MCL or an existing RO system, respectively. If a mailed offer letter was returned to ARCADIS as undeliverable, ARCADIS personnel hand-delivered the letter to the residence. At the time of this report, a total of 34 RO system installations and 15 RO system maintenance offers have been accepted.

Installation of new RO systems and maintenance of new and existing RO systems is performed by Pinnacle Plumbing & Heating, Inc. of Selah, Washington. Reverse osmosis system installation and maintenance work orders through December 20, 2013 are presented in Appendix E. At the time of this report, the Dairies have responded to all requests for new system installation or maintenance of existing systems.

3.4.1 Reverse Osmosis System Installations

A total of 36 RO system installations have been accepted (Table 8). Thirty-four (34) RO system installations were complete as of December 20, 2013. Two accepted RO system installations (RW-1139 and RW-1140) remain unscheduled, as the owner has been non-responsive to numerous attempts to schedule installation.

3.4.2 Existing RO System Maintenance

A total of 15 RO system maintenance offers have been accepted (Table 9). Fifteen (15) RO system maintenances have been completed as of December 20, 2013.

3.4.3 Not-At-Home and Refusal Residences

Information for the 36 residences that were "Not at Home", vacant, or access was refused is summarized in Table 10. Detail for these residences is as follows:

- Nineteen (19) "Not at Home" residences. ARCADIS visited these residences twice in an attempt to establish contact
- Four undeveloped lots
- Eight vacant homes
- Four refusals
- One parcel was found not to exist

4. Data Validation and Usability

4.1 Data Review, Verification, and Validation

Data verification was conducted by the laboratory prior to submission to the PC. Data review, validation, and verification performed by the laboratory comply with EPA Method 300.0 requirements and laboratory SOPs.

4.2 Verification and Validation Methods

Prior to submitting the analytical samples to the laboratory, the sampling team leader or a designate reviewed the field notes and chain of custody for accuracy and completeness. The notes were reviewed for appropriate documentation of the field work pertinent activities, including verifying complete residential information. The chain-of-custodies were reviewed for appropriate sample nomenclature and selected analysis.

The analytical data generated was reduced, validated, and reported by the laboratory as described in EPA Method 300.0 and laboratory SOPs. Data verification was performed by the laboratory for all analyses prior to the release of the data to ARCADIS. The laboratory archived the analytical data in their own laboratory data management system. In addition, the project chemist validated laboratory data upon receipt.

4.2.1 Validation

An ARCADIS chemist performed a Tier II data validation on each sample delivery group (SDG) for this project. The validation process was consistent with the National

Functional Guidelines (EPA 2010). As part of the Tier II procedure, the following table was completed for each analytical method within each SDG.

Method Specified	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Tier II Validation					
Holding times					
Reporting limits (units)					
Blanks					
Method blanks					
Equipment blanks					
Trip blanks					
Laboratory Control Sample (LCS)					
Laboratory Control Sample Duplicate (LCSD)					
LCS/LCSD Precision (RPD)					
Matrix Spike (MS)					
Matrix Spike Duplicate (MSD)					
MS/MSD Precision (RPD)					
Field/Lab Duplicate (RPD)					
Dilution Factor					

RSD Relative standard deviation
R Percent recovery
RPD Relative percent difference
D Percent difference

Method 300.0 within each SDG met the data quality objectives. The data were deemed usable for their intended purposes. In addition, for some of the SDGs, field blanks were used as the matrix spike, matrix spike duplicates. Data validation reports are presented in Appendix D.

4.3 Reconciliation with User Requirements

Analytical data results obtained during the Residential Wells Sampling was reconciled with precision, accuracy, and completeness criteria shown in Table 2 of the QAPP and presented in the Data Usability Summary Reports (Appendix F). In addition, the primary field sample results, the duplicate result and the relative percent differences (RPD) are presented in Table 5. For each field duplicate pair, the RPDs were within compliance criteria and no data were qualified. The RPDs ranged from zero to 7.6 percent.

Some variability was noted, but was within the acceptable criteria. The variability between parent and duplicate result could possibly be attributed to analytical variability inherent within the instrumentation.

5. References Cited

ARCADIS U.S., Inc. (ARCADIS). 2013 Residential Well Sampling Quality Assurance Project Plan. Administrative Order on Consent SDWA-10-2013-0080. Prepared for the Yakima Valley Dairies. April 26.

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EPA. 2002. Guidance for Quality Assurance Project Plans (EPA QA/G-5). Office of Environmental Information, Washington, D.C. EPA/240/R-02/009. December.

EPA. 2006. Guidance on Systematic Planning Using Data Quality Objectives Processes (EPA QA/G-4). Office of Environmental Information, Washington, D.C. EPA/240/B-06/001. February.

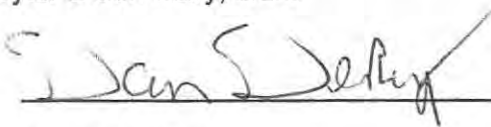
EPA. 2010. National Functional Guidelines for Inorganic Superfund Data Review. EPA/540/R-10/011. Contract Laboratory Program. January.

EPA. 2013. Administrative Order on Consent (AOC) Docket No. SDWA-10-2013-0080, March 19.

6.2 D & A Dairy and George DeRuyter & Son Dairy Certification

I certify under the penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of any and all persons directly responsible for gathering and analyzing the information obtained, I certify that the information contained in or accompanying this submittal is to the best of my knowledge and belief, true, accurate and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

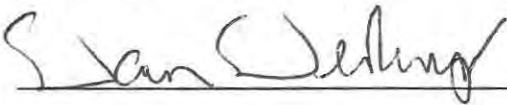
D & A Dairy, LLC (also known as D and A Dairy L.L.C.),
George DeRuyter & Son Dairy, L.L.C

Signature: 
Name: Dan DeRuyter
Title: Member
Date: 12/20/13

6.3 George & Margaret Certification

I certify under the penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of any and all persons directly responsible for gathering and analyzing the information obtained, I certify that the information contained in or accompanying this submittal is to the best of my knowledge and belief, true, accurate and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

George & Margaret, L.L.C.

Signature:  _____
Name: Dan DeRuyter
Title: Member
Date: 12/20/13

6.4 Liberty Dairy Certification

I certify under the penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of any and all persons directly responsible for gathering and analyzing the information obtained, I certify that the information contained in or accompanying this submittal is to the best of my knowledge and belief, true, accurate and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Liberty Dairy, LLC and its associated dairy facility
H & S Bosma Dairy

Signature:

Henry W Bosma

Name:

Henry Bosma

Title:

Partner

Date:

12-20-13

Tables

**Table 1
Summary of Residences
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
1	RW-1001						6/2			Vacant lot; [REDACTED]
2	RW-1002						6/10			RO system present
3	RW-1003						6/2			RO system present
4	RW-1004						6/10			RO system present
5	RW-1005						6/2			RO system present
6	RW-1006						6/10			RO system present
7	RW-1007						6/19			RO system present - Same corresponds to RW-1205
8	RW-1008						6/3	Well Sample	6/3/2013 10:08	
9	RW-1009						6/19			Not home; left card (2nd attempt; first visit 6/3)
10	RW-1010						6/3			RO system present
11	RW-1011						5/30	Well Sample	5/30/2013 11:55	
12	RW-1012						5/30	Well Sample	5/30/2013 11:40	
13	RW-1013						6/3			RO system present
14	RW-1014						6/3	Well Sample	6/3/2013 19:07	
15	RW-1015						6/2			RO system present
16	RW-1016						6/2			Vacant
17	RW-1017						6/3	Well Sample	6/3/2013 10:07	
18	RW-1018						6/2			Hach test <5 ppm
19	RW-1019						6/2			RO system present
20	RW-1020						6/3	Well Sample	6/3/2013 13:15	
21	RW-1021						6/3			RO system present
22	RW-1022						6/19			RO system present; uncooperative occupant
23	RW-1023						6/3			Vacant; left card
24	RW-1024						6/19			Hach test <5 ppm
25	RW-1025						6/18	Well Sample	6/18/2013 19:06	
26	RW-1026						6/3	Well Sample	6/3/2013 13:03	
27	RW-1027						6/3	Well Sample	6/3/2013 13:46	
28	RW-1028						6/3			RO system present
29	RW-1029						6/18			RO system present
30	RW-1030						5/28	Well Sample	5/28/2013 14:35	
31	RW-1031						6/3	Well Sample	6/3/2013 17:26	
32	RW-1032						6/3			Hach test <5 ppm
33	RW-1033						6/3			Hach test <5 ppm
34	RW-1034						6/3			RO system present
35	RW-1035						6/5			Hach test <5 ppm
36	RW-1036						6/3			RO system present
37	RW-1037						6/3	Well Sample	6/3/2013 13:31	

**Table 1
Summary of Residences
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
38	RW-1038						6/18			Not home; left card (2nd attempt; first visit 6/4)
39	RW-1039						6/4			Hach test <5 ppm
40	RW-1040						6/4			RO system present; shares well w/ RW-1042
41	RW-1041						6/3	Well Sample	6/3/2013 8:47	
42	RW-1042						6/4	Well Sample	6/4/2013 12:34	
43	RW-1043						6/4			Hach test <5 ppm
44	RW-1044						5/28	Well Sample	5/28/2013 15:25	
45	RW-1045						5/28	Well Sample	5/28/2013 15:47	
46	RW-1046						5/28	Well Sample	5/28/2013 16:20	
47	RW-1047						5/28	Well Sample	5/28/2013 16:40	
48	RW-1048						6/4	Well Sample	6/4/2013 16:42	
49	RW-1049						5/28	Well Sample	5/28/2013 17:00	
50	RW-1050						5/28	Well Sample		Shares well w/ RW-1049
51	RW-1051						5/28	Well Sample	5/28/2013 17:25	
52	RW-1052						6/5			Vacant; left card
53	RW-1053						6/19			Hach test <5 ppm
54	RW-1054						5/28	Well Sample	5/28/2013 17:40	Same well as RW-1055
55	RW-1055						5/28	Well Sample		Same well as RW-1054
56	RW-1055A						5/28	Well Sample	5/28/2013 17:40	Same well as RW-1054
57	RW-1056						5/29			Hach test <5 ppm
58	RW-1057						6/18			Not home; left card (2nd attempt; first visit 6/4)
59	RW-1058						6/19			Not home; left card (2nd attempt; first visit 6/4)
60	RW-1059						6/19			Not home; left card (2nd attempt; first visit 6/4)
61	RW-1060						6/10			Hach test <5 ppm
62	RW-1061						6/6			Refusal; Do not sample
63	RW-1062						5/30	Well Sample	5/30/2013 10:05	
64	RW-1063						6/4			Hach test <5 ppm; owner denied access to outside water, insisted they fill sample from indoor faucet, protocols not followed
65	RW-1064						6/4	Well Sample	6/4/2013 14:00	
66	RW-1065						6/3			RO system present
67	RW-1066						5/29			RO system present
68	RW-1067						6/4			Hach test <5 ppm
69	RW-1068						6/5	Well Sample	6/5/2013 10:21	

**Table 1
Summary of Residences
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
70	RW-1069						6/19			RO system present
71	RW-1070						6/3			Hach test <5 ppm
72	RW-1071						5/29			Hach test <5 ppm
73	RW-1072						6/3	Well Sample	6/3/2013 17:10	
74	RW-1073						6/4			Hach test <5 ppm
75	RW-1074						6/3			Hach test <5 ppm
76	RW-1075						6/4	Well Sample	6/4/2013 10:17	
77	RW-1076						6/19	Well Sample	6/19/2013 9:51	
78	RW-1077						6/19			Not home; left card (2nd attempt; first visit 6/4)
79	RW-1078						5/29	Well Sample	5/29/2013 16:33	RO system present @ kitchen sink
80	RW-1079						5/30			Vacant; left card; left message
81	RW-1080						5/30			RO system present
82	RW-1081						6/20			RO system present
83	RW-1082						6/6	Well Sample		Shares well w/ RW-1083
84	RW-1083						6/6	Well Sample	6/6/2013 10:52	
85	RW-1084						5/29	Well Sample	5/29/2013 15:20	
86	RW-1085						5/29	Well Sample	5/29/2013 8:15	
87	RW-1086						5/30	Well Sample	5/30/2013 8:55	
88	RW-1087						5/30	Well Sample	5/30/2013 10:15	
89	RW-1088						6/19			Not home; left card (2nd attempt; first visit 5/30)
90	RW-1089						5/30	Well Sample		Shares well w/ RW-1086
91	RW-1090A						5/30	Well Sample	5/30/2013 10:50	
92	RW-1090B						5/30	Well Sample	5/30/2013 10:55	
93	RW-1091						5/30	Well Sample	5/30/2013 15:38	
94	RW-1092						5/29	Well Sample	5/29/2013 15:40	
95	RW-1093						5/29	Well Sample	5/29/2013 8:57	
96	RW-1094						5/29	Well Sample	5/29/2013 9:18	
97	RW-1095						5/29	Well Sample	5/29/2013 9:30	
98	RW-1096						5/29	Well Sample	5/29/2013 9:45	
99	RW-1097						5/30	Well Sample	5/30/2013 13:55	
100	RW-1098						5/30	Well Sample		Shares well w/ RW-1097
101	RW-1099						5/29	Well Sample	5/29/2013 11:20	
102	RW-1100						5/29	Well Sample	5/29/2013 10:55	
103	RW-1101						5/29	Well Sample	5/29/2013 14:20	RO system present @ kitchen sink
104	RW-1102						5/30	Well Sample	5/30/2013 9:40	
105	RW-1103						5/29	Well Sample	5/29/2013 11:10	

**Table 1
Summary of Residences
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
106	RW-1104						6/20			Not home; left card (2nd attempt; first visit 5/29)
107	RW-1105						6/20	Well Sample	6/20/2013 9:55	
108	RW-1106						5/29			Vacant
109	RW-1107						5/29	Well Sample	5/29/2013 12:25	
110	RW-1108						5/29	Well Sample	5/29/2013 14:00	
111	RW-1109						5/29	Well Sample		Shares well w/ RW-1108
112	RW-1110						5/30	Well Sample	5/30/2013 14:30	
113	RW-1111						6/18	Well Sample	6/18/2013 19:28	
114	RW-1112						6/19	Well Sample	6/19/2013 17:52	
115	RW-1113						6/6			RO system present
116	RW-1114						6/19	Well Sample	6/19/2013 17:05	
117	RW-1115						6/4	Well Sample	6/4/2013 18:25	
118	RW-1116						6/4	Well Sample	6/4/2013 19:45	
119	RW-1117						6/19			Not home; left card (2nd attempt; first visit 6/4)
120	RW-1118						6/19	Well Sample	6/19/2013 17:20	
121	RW-1119						6/4	Well Sample		Shares well w/ RW-1115
122	RW-1120						6/4			RO system present
123	RW-1121						6/4	Well Sample	6/4/2013 17:52	
124	RW-1122						6/4	Well Sample	6/4/2013 18:10	
125	RW-1123						6/4			RO system present
126	RW-1124						6/4	Well Sample	6/4/2013 17:34	
127	RW-1125						5/28	Well Sample	5/28/2013 16:05	
128	RW-1126						6/4	Well Sample		Shares well w/ RW-1127
129	RW-1127						6/4	Well Sample	6/4/2013 17:06	
130	RW-1128						6/4	Well Sample		Shares well w/ RW-1127
131	RW-1129						9/18	Well Sample	9/18/2013 13:20	Sampled 9/18; (not home; left card - 1st visit 6/5; 2nd visit 6/19)
132	RW-1130						6/5	Well Sample	6/5/2013 13:41	
133	RW-1131						6/19			Hach test <5 ppm
134	RW-1132						6/5			Hach test <5 ppm
135	RW-1133						6/20			RO system present
136	RW-1134						6/19	Well Sample	6/19/2013 14:14	
137	RW-1135						6/19			Refusal
138	RW-1136						6/5			RO system present
139	RW-1137						6/19			Not home; left card (2nd attempt; first visit 6/5)
140	RW-1138						6/5			RO system present
141	RW-1139						6/5	Well Sample	6/5/2013 17:19	

**Table 1
Summary of Residences
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
142	RW-1140						6/5	Well Sample		Shares well w/ RW-1139
143	RW-1141						6/6	Well Sample	6/6/2013 11:16	
144	RW-1142						6/6	Well Sample	6/6/2013 14:08	
145	RW-1143						6/6	Well Sample		Shares well w/ RW-1142
146	RW-1144						6/3			Vacant; left card
147	RW-1145						6/5	Well Sample	6/5/2013 17:56	
148	RW-1146						6/5			RO system present
149	RW-1147						6/5			Vacant; left card
150	RW-1148						6/19			Not home; left card [redacted]; 2nd attempt; first visit 6/6)
151	RW-1149						5/29	Well Sample	5/29/2013 11:50	RO system present @ kitchen sink
152	RW-1150						5/30			RO system present
153	RW-1151						6/6			RO system present
154	RW-1152						5/29	Well Sample	5/29/2013 16:00	
155	RW-1153						6/5	Well Sample	6/5/2013 18:32	
156	RW-1154						6/5			Hach test <5 ppm
157	RW-1155						6/19			Refusal
158	RW-1156						6/19			Not home; left card (2nd attempt; first visit 6/5)
159	RW-1157						6/19			Not home; left card (2nd attempt; first visit 6/5)
160	RW-1158						5/29	Well Sample	5/29/2013 10:08	RO system present @ kitchen sink
161	RW-1159						6/3	Well Sample	6/3/2013 10:31	
162	RW-1160						6/5	Well Sample	6/5/2013 12:23	
163	RW-1161						6/5	Well Sample	6/5/2013 12:11	
164	RW-1162						6/20			RO system present
165	RW-1163						6/6			Hach test <5 ppm
166	RW-1164						6/5			RO system present
167	RW-1165						6/5	Well Sample	6/5/2013 19:26	
168	RW-1166						6/20			RO system present
169	RW-1167						6/20			Not home; left card (2nd attempt; first visit 6/6)
170	RW-1168						6/20			Not home; left card (2nd attempt; first visit 6/6)
171	RW-1169						6/10	Well Sample	6/10/2013 15:08	
172	RW-1170						6/6			RO system present
173	RW-1171						5/30	Well Sample	5/30/2013 15:00	
174	RW-1172						5/29	Well Sample	5/29/2013 14:35	

Table 1
 Summary of Residences
 Residential Well Sampling
 Yakima Valley Dairies

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
175	RW-1173						5/30			RO system present
176	RW-1174						5/30			RO system present
177	RW-1175						6/20			Not home; left card (2nd attempt; first visit 6/3)
178	RW-1176						6/6			RO system present
179	RW-1177						6/19	Well Sample	6/19/2013 20:15	
180	RW-1178						6/19	Well Sample	6/19/2013 20:29	
181	RW-1179						6/3	Well Sample	6/3/2013 16:42	
182	RW-1180						6/4			Refusal; [REDACTED]; left card
183	RW-1201						6/19			Not home; left card (2nd attempt; first visit 6/10)
184	RW-1202						6/10			No home present
185	RW-1203						6/19	Well Sample	6/19/2013 18:52	
186	RW-1204						6/10	Well Sample	6/10/2013 18:40	
187	RW-1205						6/10			RO system present; previously listed as RW-1007
188	RW-1206						6/10			Parcel does not exist
189	RW-1207						6/10			RO system present
190	RW-1208						6/10			Hach test <5 ppm
191	RW-1209						6/10			Hach test <5 ppm; [REDACTED]
192	RW-1210						6/20	Well Sample	6/20/2013 8:00	
193	RW-1211						6/10	Well Sample	6/10/2013 16:40	
194	RW-1212						6/10	Well Sample	6/10/2013 16:00	Shares well w/ RW-1212A
195	RW-1212A						9/18	Well Sample	9/18/2013 12:28	Sampled 9/18; (not home; left card - 6/10)
196	RW-1213						9/18			Hach test <5 ppm 9/18; (two homes on property; not home; left card 6/10; no one home in Unit 2)
197	RW-1214						6/9	Well Sample	6/9/2013 18:12	
198	RW-1215						6/10			No home present
199	RW-1216						6/10	Well Sample	6/10/2013 17:02	
200	RW-1217						6/10			RO system present
201	RW-1218						6/10	Well Sample	6/10/2013 17:55	
202	RW-1219						6/10	Well Sample	6/10/2013 18:10	
203	RW-1220						6/10			RO system present
204	RW-1221						6/9	Well Sample	6/9/2013 19:28	Shares well w/ RW-1222 & RW-1223
205	RW-1222						6/9	Well Sample		Shares well w/ RW-1221

**Table 1
Summary of Residences
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Notes
206	RW-1223						6/9			RO system present; shares well w/ RW-1221
207	RW-1224						6/9	Well Sample	6/9/2013 16:00	
208	RW-1225						6/9			No home present
209	RW-1226						6/19			Hach test <5 ppm
210	RW-1227						9/18	Well Sample	9/18/2013 14:05	Sampled 9/18; (not home; left card - 1st visit 6/10; 2nd visit 6/19)
211	RW-1228						6/19	Well Sample	6/19/2013 19:43	
212	RW-1229						6/20			Not home; left card (2nd attempt; first visit 6/10)
213	RW-1230						6/10	Well Sample	6/10/2013 11:19	Owner did not give name
214	RW-1231						6/19			Not home; left card (2nd attempt; first visit 6/10)
215	RW-1232						6/19			Not home; left card (2nd attempt; first visit 6/10)
216	RW-1233						6/10			No home present
217	RW-1234						6/19			Not home; left card (2nd attempt; first visit 6/10)
218	RW-1235						6/9	Well Sample	6/9/2013 18:32	
219	RW-1235A						6/19			Hach test <5 ppm; separate well - same parcel as RW-1235
220	RW-1236						6/9	Well Sample		Shares well w/ RW-1235
221	RW-1237						6/9	Well Sample	6/9/2013 19:00	
222	RW-1238						6/9	Well Sample	6/9/2013 19:44	
223	RW-1239						6/10			RO system present
224	RW-1240						9/18			Hach test <5 ppm - 9/18; (not home; left card - 1st visit 6/10; 2nd visit 6/19)

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

**Table 2
Existing Reverse Osmosis Systems
Residential Well Sampling
Yakima Valley Dairies**

	Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Notes
1	RW-1002							6/10	RO system present
2	RW-1003							6/2	RO system present
3	RW-1004							6/10	RO system present
4	RW-1005							6/2	RO system present
5	RW-1006							6/10	RO system present
6	RW-1007							6/19	RO system present - previously listed as RW-1205
7	RW-1010							6/3	RO system present
8	RW-1013							6/3	RO system present
9	RW-1015							6/2	RO system present
10	RW-1019							6/2	RO system present
11	RW-1021							6/3	RO system present
12	RW-1022							6/19	RO system present; uncooperative occupant
13	RW-1028							6/3	RO system present
14	RW-1029							6/18	RO system present
15	RW-1034							6/3	RO system present
16	RW-1036							6/3	RO system present
17	RW-1040							6/4	RO system present; shares well w/ RW-1042
18	RW-1065							6/3	RO system present
19	RW-1066							5/29	RO system present
20	RW-1069							6/19	RO system present
21	RW-1078							5/29	RO system present @ kitchen sink
22	RW-1080							5/30	RO system present
23	RW-1081							6/20	RO system present
24	RW-1101							5/29	RO system present @ kitchen sink
25	RW-1113							6/6	RO system present
26	RW-1120							6/4	RO system present
27	RW-1123							6/4	RO system present
28	RW-1128							6/4	RO System present - shares well with RW-1127
29	RW-1133							6/20	RO system present
30	RW-1136							6/5	RO system present
31	RW-1138							6/5	RO system present
32	RW-1146							6/5	RO system present
33	RW-1149							5/29	RO system present @ kitchen sink
34	RW-1150							5/30	RO system present
35	RW-1151							6/6	RO system present
36	RW-1158							5/29	RO system present @ kitchen sink
37	RW-1162							6/20	RO system present
38	RW-1164							6/5	RO system present
39	RW-1166							6/20	RO system present

Table 2
Existing Reverse Osmosis Systems
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Notes
40	RW-1170							6/6	RO system present
41	RW-1173							5/30	RO system present
42	RW-1174							5/30	RO system present
43	RW-1176							6/6	RO system present
44	RW-1201							6/19	RO system present
45	RW-1205							6/10	RO system present; previously listed as RW-1007
46	RW-1207							6/10	RO system present
47	RW-1217							6/10	RO system present
48	RW-1220							6/10	RO system present
49	RW-1223							6/9	RO system present; shares well w/ RW-1221
50	RW-1231							6/19	RO system present
51	RW-1239							6/10	RO system present

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

**Table 3
Hach Test Results Less Than 5 PPM
Residential Well Sampling
Yakima Valley Dairies**

	Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Notes
1	RW-1018							6/2	Hach test <5 ppm
2	RW-1024							6/19	Hach test <5 ppm
3	RW-1032							6/3	Hach test <5 ppm
4	RW-1033							6/3	Hach test <5 ppm
5	RW-1035							6/5	Hach test <5 ppm
6	RW-1039							6/4	Hach test <5 ppm
7	RW-1043							6/4	Hach test <5 ppm
8	RW-1053							6/19	Hach test <5 ppm
9	RW-1056							5/29	Hach test <5 ppm
10	RW-1060							6/10	Hach test <5 ppm
11	RW-1063							6/4	Hach test <5 ppm; owner denied access to outside water, insisted they fill sample from indoor faucet, protocols not followed
12	RW-1067							6/4	Hach test <5 ppm
13	RW-1070							6/3	Hach test <5 ppm
14	RW-1071							5/29	Hach test <5 ppm
15	RW-1073							6/4	Hach test <5 ppm
16	RW-1074							6/3	Hach test <5 ppm
17	RW-1131							6/19	Hach test <5 ppm
18	RW-1132							6/5	Hach test <5 ppm
19	RW-1154							6/5	Hach test <5 ppm
20	RW-1163							6/6	Hach test <5 ppm
21	RW-1208							6/10	Hach test <5 ppm
22	RW-1209							6/10	Hach test <5 ppm
23	RW-1213							9/18	Hach test <5 ppm 9/18; (not home; left card 6/10; no one home
24	RW-1226							6/19	Hach test <5 ppm
25	RW-1235A							6/19	Hach test <5 ppm
26	RW-1240							9/18	Hach test <5 ppm - 9/18; (not home; left card - 1st visit 6/10; 2nd visit 6/19)

NOTES

DD - Decimal Degrees
ppm - parts per million

**Table 4
Drinking Water Sampling Results
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Sample Delivery Group	Analytical Method	Analyte	Result	Units	Qualifier	Notes
1	RW-1008						6/3	Well Sample	6/3/2013 10:08	SWF0005	EPA 300.0	Nitrate-Nitrogen	20	mg/l		
2	RW-1011						5/30	Well Sample	5/30/2013 11:55	SWE0206	EPA 300.0	Nitrate-Nitrogen	30.6	mg/l		
3	RW-1012						5/30	Well Sample	5/30/2013 11:40	SWE0206	EPA 300.0	Nitrate-Nitrogen	5.63	mg/l		
4	RW-1014						6/3	Well Sample	6/3/2013 19:07	SWF0019	EPA 300.0	Nitrate-Nitrogen	50.9	mg/l		
5	RW-1017						6/3	Well Sample	6/3/2013 10:07	SWF0005	EPA 300.0	Nitrate-Nitrogen	15.9	mg/l		
6	RW-1020						6/3	Well Sample	6/3/2013 13:15	SWF0005	EPA 300.0	Nitrate-Nitrogen	5.4	mg/l		
7	RW-1025						6/18	Well Sample	6/18/2013 19:06	SWF0123	EPA 300.0	Nitrate-Nitrogen	6.16	mg/l		
8	RW-1026						6/3	Well Sample	6/3/2013 13:03	SWF0005	EPA 300.0	Nitrate-Nitrogen	8.3	mg/l		
9	RW-1027						6/3	Well Sample	6/3/2013 13:46	SWF0005	EPA 300.0	Nitrate-Nitrogen	5	mg/l		
10	RW-1030						5/28	Well Sample	5/28/2013 14:35	SWE0197	EPA 300.0	Nitrate-Nitrogen	7.59	mg/l		
11	RW-1031						6/3	Well Sample	6/3/2013 17:26	SWF0019	EPA 300.0	Nitrate-Nitrogen	5.5	mg/l		
12	RW-1037						6/3	Well Sample	6/3/2013 13:31	SWF0005	EPA 300.0	Nitrate-Nitrogen	5.3	mg/l		
13	RW-1041						6/3	Well Sample	6/3/2013 8:47	SWF0005	EPA 300.0	Nitrate-Nitrogen	36.8	mg/l		
14	RW-1042						6/4	Well Sample	6/4/2013 12:34	SWF0019	EPA 300.0	Nitrate-Nitrogen	39.3	mg/l		
15	RW-1044						5/28	Well Sample	5/28/2013 15:25	SWE0197	EPA 300.0	Nitrate-Nitrogen	8.19	mg/l		
16	RW-1045						5/28	Well Sample	5/28/2013 15:47	SWE0197	EPA 300.0	Nitrate-Nitrogen	15.3	mg/l		
17	RW-1046						5/28	Well Sample	5/28/2013 16:20	SWE0197	EPA 300.0	Nitrate-Nitrogen	9.98	mg/l		
18	RW-1047						5/28	Well Sample	5/28/2013 16:40	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l		
19	RW-1048						6/4	Well Sample	6/4/2013 16:42	SWF0030	EPA 300.0	Nitrate-Nitrogen	9.4	mg/l		
20	RW-1049						5/28	Well Sample	5/28/2013 17:00	SWE0197	EPA 300.0	Nitrate-Nitrogen	9.36	mg/l		
21	RW-1050						5/28	Well Sample			EPA 300.0	Nitrate-Nitrogen	9.36	mg/l		Shares well w/ RW-1049
22	RW-1051						5/28	Well Sample	5/28/2013 17:25	SWE0197	EPA 300.0	Nitrate-Nitrogen	17.1	mg/l		
23	RW-1054						5/28	Well Sample	5/28/2013 17:40	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l		
24	RW-1055						5/28	Well Sample			EPA 300.0	Nitrate-Nitrogen	10	mg/l		Shares well w/ RW-1054
25	RW-1062						5/30	Well Sample	5/30/2013 10:05	SWE0206	EPA 300.0	Nitrate-Nitrogen	3.67	mg/l		
26	RW-1064						6/4	Well Sample	6/4/2013 14:00	SWF0019	EPA 300.0	Nitrate-Nitrogen	8.74	mg/l		
27	RW-1068						6/5	Well Sample	6/5/2013 10:21	SWF0030	EPA 300.0	Nitrate-Nitrogen	30.7	mg/l		
28	RW-1072						6/3	Well Sample	6/3/2013 17:10	SWF0019	EPA 300.0	Nitrate-Nitrogen	4.86	mg/l		
29	RW-1075						6/4	Well Sample	6/4/2013 10:17	SWF0019	EPA 300.0	Nitrate-Nitrogen	11.3	mg/l		
30	RW-1076						6/19	Well Sample	6/19/2013 9:51	SWF0123	EPA 300.0	Nitrate-Nitrogen	9.58	mg/l		
31	RW-1078						5/29	Well Sample	5/29/2013 16:33	SWE0206	EPA 300.0	Nitrate-Nitrogen	12.4	mg/l		RO system present @ kitchen sink
32	RW-1082						6/6	Well Sample			EPA 300.0	Nitrate-Nitrogen	36.5	mg/l		Shares well w/ RW-1083
33	RW-1083						6/6	Well Sample	6/6/2013 10:52	SWF0049	EPA 300.0	Nitrate-Nitrogen	36.5	mg/l		
34	RW-1084						5/29	Well Sample	5/29/2013 15:20	SWE0206	EPA 300.0	Nitrate-Nitrogen	7.91	mg/l		
35	RW-1085						5/29	Well Sample	5/29/2013 8:15	SWE0197	EPA 300.0	Nitrate-Nitrogen	8	mg/l		
36	RW-1086						5/30	Well Sample	5/30/2013 8:55	SWE0206	EPA 300.0	Nitrate-Nitrogen	16.8	mg/l		
37	RW-1087						5/30	Well Sample	5/30/2013 10:15	SWE0206	EPA 300.0	Nitrate-Nitrogen	3.82	mg/l		
38	RW-1089						5/30	Well Sample			EPA 300.0	Nitrate-Nitrogen	16.8	mg/l		Shares well w/ RW-1086
39	RW-1090A						5/30	Well Sample	5/30/2013 10:50	SWE0206	EPA 300.0	Nitrate-Nitrogen	23.8	mg/l		
40	RW-1090B						5/30	Well Sample	5/30/2013 10:55	SWE0206	EPA 300.0	Nitrate-Nitrogen	23	mg/l		
41	RW-1091						5/30	Well Sample	5/30/2013 15:38	SWE0207	EPA 300.0	Nitrate-Nitrogen	3.12	mg/l		
42	RW-1092						5/29	Well Sample	5/29/2013 15:40	SWE0206	EPA 300.0	Nitrate-Nitrogen	8.3	mg/l		
43	RW-1093						5/29	Well Sample	5/29/2013 8:57	SWE0197	EPA 300.0	Nitrate-Nitrogen	7.87	mg/l		

**Table 4
Drinking Water Sampling Results
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Sample Delivery Group	Analytical Method	Analyte	Result	Units	Qualifier	Notes
44	RW-1094						5/29	Well Sample	5/29/2013 9:18	SWE0197	EPA 300.0	Nitrate-Nitrogen	4.59	mg/l		
45	RW-1095						5/29	Well Sample	5/29/2013 9:30	SWE0197	EPA 300.0	Nitrate-Nitrogen	11.8	mg/l		
46	RW-1096						5/29	Well Sample	5/29/2013 9:45	SWE0197	EPA 300.0	Nitrate-Nitrogen	16	mg/l		
47	RW-1097						5/30	Well Sample	5/30/2013 13:55	SWE0207	EPA 300.0	Nitrate-Nitrogen	10.1	mg/l		
48	RW-1098						5/30	Well Sample			EPA 300.0	Nitrate-Nitrogen	10.1	mg/l		Shares well w/ RW-1097
49	RW-1099						5/29	Well Sample	5/29/2013 11:20	SWE0197	EPA 300.0	Nitrate-Nitrogen	14	mg/l		
50	RW-1100						5/29	Well Sample	5/29/2013 10:55	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.9	mg/l		
51	RW-1101						5/29	Well Sample	5/29/2013 14:20	SWE0206	EPA 300.0	Nitrate-Nitrogen	18.2	mg/l		RO system present @ kitchen sink
52	RW-1102						5/30	Well Sample	5/30/2013 9:40	SWE0206	EPA 300.0	Nitrate-Nitrogen	18.2	mg/l		
53	RW-1103						5/29	Well Sample	5/29/2013 11:10	SWE0197	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l		
54	RW-1105						6/20	Well Sample	6/20/2013 9:55	SWF0131	EPA 300.0	Nitrate-Nitrogen	8.58	mg/l		
55	RW-1107						5/29	Well Sample	5/29/2013 12:25	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.4	mg/l		
56	RW-1108						5/29	Well Sample	5/29/2013 14:00	SWE0206	EPA 300.0	Nitrate-Nitrogen	20.3	mg/l		
57	RW-1109						5/29	Well Sample			EPA 300.0	Nitrate-Nitrogen	20.3	mg/l		Shares well w/ RW-1108
58	RW-1110						5/30	Well Sample	5/30/2013 14:30	SWE0207	EPA 300.0	Nitrate-Nitrogen	7.62	mg/l		
59	RW-1111						6/18	Well Sample	6/18/2013 19:28	SWF0123	EPA 300.0	Nitrate-Nitrogen	3.16	mg/l		
60	RW-1112						6/19	Well Sample	6/19/2013 17:52	SWF0131	EPA 300.0	Nitrate-Nitrogen	18.1	mg/l		
61	RW-1114						6/19	Well Sample	6/19/2013 17:05	SWF0131	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l		
62	RW-1115						6/4	Well Sample	6/4/2013 18:25	SWF0030	EPA 300.0	Nitrate-Nitrogen	7.76	mg/l		
63	RW-1116						6/4	Well Sample	6/4/2013 19:45	SWF0030	EPA 300.0	Nitrate-Nitrogen	4.36	mg/l		
64	RW-1118						6/19	Well Sample	6/19/2013 17:20	SWF0131	EPA 300.0	Nitrate-Nitrogen	3.9	mg/l		
65	RW-1119						6/4	Well Sample			EPA 300.0	Nitrate-Nitrogen	7.76	mg/l		Shares well w/ RW-1115
66	RW-1121						6/4	Well Sample	6/4/2013 17:52	SWF0030	EPA 300.0	Nitrate-Nitrogen	15.6	mg/l		
67	RW-1122						6/4	Well Sample	6/4/2013 18:10	SWF0030	EPA 300.0	Nitrate-Nitrogen	26.9	mg/l		
68	RW-1124						6/4	Well Sample	6/4/2013 17:34	SWF0030	EPA 300.0	Nitrate-Nitrogen	18.6	mg/l		
69	RW-1125						5/28	Well Sample	5/28/2013 16:05	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.5	mg/l		
70	RW-1126						6/4	Well Sample			EPA 300.0	Nitrate-Nitrogen	13.7	mg/l		Shares well w/ RW-1127
71	RW-1127						6/4	Well Sample	6/4/2013 17:06	SWF0030	EPA 300.0	Nitrate-Nitrogen	13.7	mg/l		
72	RW-1128						6/4	Well Sample			EPA 300.0	Nitrate-Nitrogen	13.7	mg/l		Shares well w/ RW-1127
73	RW-1129						9/18	Well Sample	9/18/2013 13:20	SWI0124	EPA 300.0	Nitrate-Nitrogen	28.5	mg/l		Sampled 9/18; (not home; left card - 1st visit 6/5; 2nd visit 6/19)
74	RW-1130						6/5	Well Sample	6/5/2013 13:41	SWF0030	EPA 300.0	Nitrate-Nitrogen	3.4	mg/l		
75	RW-1134						6/19	Well Sample	6/19/2013 14:14	SWF0123	EPA 300.0	Nitrate-Nitrogen	7.08	mg/l		
76	RW-1139						6/5	Well Sample	6/5/2013 17:19	SWF0049	EPA 300.0	Nitrate-Nitrogen	30.6	mg/l		
77	RW-1140						6/5	Well Sample			EPA 300.0	Nitrate-Nitrogen	30.6	mg/l		Shares well w/ RW-1139
78	RW-1141						6/6	Well Sample	6/6/2013 11:16	SWF0049	EPA 300.0	Nitrate-Nitrogen	30.2	mg/l		
79	RW-1142						6/6	Well Sample	6/6/2013 14:08	SWF0049	EPA 300.0	Nitrate-Nitrogen	18.5	mg/l		
80	RW-1143						6/6	Well Sample			EPA 300.0	Nitrate-Nitrogen	18.5	mg/l		Shares well w/ RW-1142
81	RW-1145						6/5	Well Sample	6/5/2013 17:56	SWF0049	EPA 300.0	Nitrate-Nitrogen	27.3	mg/l		
82	RW-1149						5/29	Well Sample	5/29/2013 11:50	SWE0197	EPA 300.0	Nitrate-Nitrogen	13.2	mg/l		RO system present @ kitchen sink
83	RW-1152						5/29	Well Sample	5/29/2013 16:00	SWE0206	EPA 300.0	Nitrate-Nitrogen	15.8	mg/l		
84	RW-1153						6/5	Well Sample	6/5/2013 18:32	SWF0049	EPA 300.0	Nitrate-Nitrogen	8.78	mg/l		

**Table 4
Drinking Water Sampling Results
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Sample Delivery Group	Analytical Method	Analyte	Result	Units	Qualifier	Notes
85	RW-1158						5/29	Well Sample	5/29/2013 10:08	SWE0197	EPA 300.0	Nitrate-Nitrogen	29.4	mg/l		RO system present @ kitchen sink
86	RW-1159						6/3	Well Sample	6/3/2013 10:31	SWF0005	EPA 300.0	Nitrate-Nitrogen	12	mg/l		
87	RW-1160						6/5	Well Sample	6/5/2013 12:23	SWF0030	EPA 300.0	Nitrate-Nitrogen	9.16	mg/l		
88	RW-1161						6/5	Well Sample	6/5/2013 12:11	SWF0030	EPA 300.0	Nitrate-Nitrogen	5.16	mg/l		
89	RW-1165						6/5	Well Sample	6/5/2013 19:26	SWF0049	EPA 300.0	Nitrate-Nitrogen	9.3	mg/l		
90	RW-1169						6/10	Well Sample	6/10/2013 15:08	SWF0070	EPA 300.0	Nitrate-Nitrogen	9.72	mg/l		
91	RW-1171						5/30	Well Sample	5/30/2013 15:00	SWE0207	EPA 300.0	Nitrate-Nitrogen	12.7	mg/l		
92	RW-1172						5/29	Well Sample	5/29/2013 14:35	SWE0206	EPA 300.0	Nitrate-Nitrogen	9.72	mg/l		
93	RW-1177						6/19	Well Sample	6/19/2013 20:15	SWF0131	EPA 300.0	Nitrate-Nitrogen	6.32	mg/l		
94	RW-1178						6/19	Well Sample	6/19/2013 20:29	SWF0131	EPA 300.0	Nitrate-Nitrogen	5.34	mg/l		
95	RW-1179						6/3	Well Sample	6/3/2013 16:42	SWF0019	EPA 300.0	Nitrate-Nitrogen	5.68	mg/l		
96	RW-1203						6/19	Well Sample	6/19/2013 18:52	SWF0131	EPA 300.0	Nitrate-Nitrogen	17.9	mg/l		
97	RW-1204						6/10	Well Sample	6/10/2013 18:40	SWF0070	EPA 300.0	Nitrate-Nitrogen	13.1	mg/l		
98	RW-1210						6/20	Well Sample	6/20/2013 8:00	SWF0131	EPA 300.0	Nitrate-Nitrogen	4.06	mg/l		
99	RW-1211						6/10	Well Sample	6/10/2013 16:40	SWF0070	EPA 300.0	Nitrate-Nitrogen	3.06	mg/l		
100	RW-1212						6/10	Well Sample	6/10/2013 16:00	SWF0070	EPA 300.0	Nitrate-Nitrogen	12.5	mg/l		Shares well w/ RW-1212A
101	RW-1212A						9/18	Well Sample	9/18/2013 12:28	SWI0124	EPA 300.0	Nitrate-Nitrogen	15.1	mg/l		Sampled 9/18; (not home; left card - 6/10)
102	RW-1214						6/9	Well Sample	6/9/2013 18:12	SWF0058	EPA 300.0	Nitrate-Nitrogen	12.7	mg/l		
103	RW-1216						6/10	Well Sample	6/10/2013 17:02	SWF0070	EPA 300.0	Nitrate-Nitrogen	4.56	mg/l		
104	RW-1218						6/10	Well Sample	6/10/2013 17:55	SWF0070	EPA 300.0	Nitrate-Nitrogen	26.6	mg/l		
105	RW-1219						6/10	Well Sample	6/10/2013 18:10	SWF0070	EPA 300.0	Nitrate-Nitrogen	31.1	mg/l		
106	RW-1221						6/9	Well Sample	6/9/2013 19:28	SWF0058	EPA 300.0	Nitrate-Nitrogen	13	mg/l		Shares well w/ RW-1222 & RW-1223
107	RW-1222						6/9	Well Sample			EPA 300.0	Nitrate-Nitrogen	13	mg/l		Shares well w/ RW-1221
108	RW-1224						6/9	Well Sample	6/9/2013 16:00	SWF0058	EPA 300.0	Nitrate-Nitrogen	9.26	mg/l		
109	RW-1227						9/18	Well Sample	9/18/2013 14:05	SWI0124	EPA 300.0	Nitrate-Nitrogen	51.6	mg/l		Sampled 9/18; (not home; left card - 1st visit 6/10; 2nd visit 6/19)
110	RW-1228						6/19	Well Sample	6/19/2013 19:43	SWF0131	EPA 300.0	Nitrate-Nitrogen	9.08	mg/l		
111	RW-1230						6/10	Well Sample	6/10/2013 11:19	SWF0058	EPA 300.0	Nitrate-Nitrogen	25.9	mg/l		Owner did not give name
112	RW-1235						6/9	Well Sample	6/9/2013 18:32	SWF0058	EPA 300.0	Nitrate-Nitrogen	6.16	mg/l		
113	RW-1236						6/9	Well Sample			EPA 300.0	Nitrate-Nitrogen	6.16	mg/l		Shares well w/ RW-1235
114	RW-1237						6/9	Well Sample	6/9/2013 19:00	SWF0058	EPA 300.0	Nitrate-Nitrogen	35.7	mg/l		
115	RW-1238						6/9	Well Sample	6/9/2013 19:44	SWF0058	EPA 300.0	Nitrate-Nitrogen	13.8	mg/l		

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter

Table 5
Analytical Quality Control Samples
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Type	Sampled	Sample Delivery Group	Analytical Method	Analyte	Result	Parent Result	Units	Qualifier	RPD
1	RW-2068	Duplicate of RW-1068	6/5/2013 10:22	SWF0030	EPA 300.0	Nitrate-Nitrogen	29.4	30.7	mg/l		4.3%
2	RW-2075	Duplicate of RW-1075	6/4/2013 10:20	SWF0019	EPA 300.0	Nitrate-Nitrogen	11.2	11.3	mg/l		0.9%
3	RW-2093	Duplicate of RW-1093	5/29/2013 9:00	SWE0197	EPA 300.0	Nitrate-Nitrogen	7.84	7.87	mg/l		0.4%
4	RW-2100	Duplicate of RW-1100	5/29/2013 10:57	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.9	10.9	mg/l		0.0%
5	RW-2102	Duplicate of RW-1102	5/30/2013 9:45	SWE0206	EPA 300.0	Nitrate-Nitrogen	18.4	18.2	mg/l		1.1%
6	RW-2107	Duplicate of RW-1107	5/29/2013 12:30	SWE0197	EPA 300.0	Nitrate-Nitrogen	10.4	10.4	mg/l		0.0%
7	RW-2112	Duplicate of RW-1112	6/19/2013 18:00	SWF0131	EPA 300.0	Nitrate-Nitrogen	17.5	18.1	mg/l		3.4%
8	RW-2127	Duplicate of RW-1127	6/4/2013 17:07	SWF0030	EPA 300.0	Nitrate-Nitrogen	14	13.7	mg/l		2.2%
9	RW-2129	Duplicate of RW-1129	9/18/2013 13:20	SWI0124	EPA 300.0	Nitrate-Nitrogen	27.1	28.5	mg/l		5.0%
10	RW-2134	Duplicate of RW-1134	6/19/2013 14:20	SWF0123	EPA 300.0	Nitrate-Nitrogen	7.2	7.08	mg/l		1.7%
11	RW-2141	Duplicate of RW-1141	6/6/2013 11:20	SWF0049	EPA 300.0	Nitrate-Nitrogen	32.6	30.2	mg/l		7.6%
12	RW-2152	Duplicate of RW-1152	5/29/2013 16:05	SWE0206	EPA 300.0	Nitrate-Nitrogen	15.6	15.8	mg/l		1.3%
13	RW-2159	Duplicate of RW-1159	6/3/2013 10:35	SWF0005	EPA 300.0	Nitrate-Nitrogen	12	12	mg/l		0.0%
14	RW-2210	Duplicate of RW-1210	6/20/2013 8:20	SWF0131	EPA 300.0	Nitrate-Nitrogen	3.78	4.06	mg/l		7.1%
15	RW-2212	Duplicate of RW-1212	6/10/2013 16:05	SWF0070	EPA 300.0	Nitrate-Nitrogen	12.3	12.5	mg/l		1.6%
16	RW-2224	Duplicate of RW-1224	6/9/2013 16:03	SWF0058	EPA 300.0	Nitrate-Nitrogen	9.28	9.26	mg/l		0.2%
17	RW-3025	Field Blank	6/18/2013 19:00	SWF0123	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
18	RW-3030	Field Blank	5/28/2013 14:20	SWE0197	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
19	RW-3041	Field Blank	6/3/2013 8:40	SWF0005	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
20	RW-3048	Field Blank	6/4/2013 16:35	SWF0030	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
21	RW-3083	Field Blank	6/6/2013 9:00	SWF0049	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
22	RW-3085	Field Blank	5/29/2013 8:00	SWE0197	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
23	RW-3086	Field Blank	5/30/2013 8:50	SWE0206	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
24	RW-3097	Field Blank	5/30/2013 13:50	SWE0207	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
25	RW-3108	Field Bank	5/29/2013 13:50	SWE0206	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
26	RW-3114	Field Blank	6/19/2013 17:00	SWF0131	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
27	RW-3139	Field Blank	6/5/2013 17:15	SWF0049	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
28	RW-3169	Field Blank	6/10/2013 14:55	SWF0070	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
29	RW-3179	Field Blank	6/3/2013 16:40	SWF0019	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
30	RW-3212A	Field Blank	9/18/2013 11:30	SWI0124	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
31	RW-3214	Field Blank	6/9/2013 18:05	SWF0058	EPA 300.0	Nitrate-Nitrogen	0.2		mg/l	U	
32	13E0178-MS1	MS/MSD of RW-2100	5/30/2013	SWE0197	EPA 300.0	Nitrate-Nitrogen	100		% Recovery		
33	13E0178-MSD1	MS/MSD of RW-2100	5/30/2013	SWE0197	EPA 300.0	Nitrate-Nitrogen	100		% Recovery		
34	13E0187-MS1	MS/MSD of RW-3097	5/31/2013	SWE0207	EPA 300.0	Nitrate-Nitrogen	95		% Recovery		
35	13E0187-MSD1	MS/MSD of RW-3097	5/31/2013	SWE0207	EPA 300.0	Nitrate-Nitrogen	94		% Recovery		
36	13F0022-MS1	MS/MSD of RW-3179	6/5/2013	SWF0019	EPA 300.0	Nitrate-Nitrogen	96.6		% Recovery		
37	13F0022-MSD1	MS/MSD of RW-3179	6/5/2013	SWF0019	EPA 300.0	Nitrate-Nitrogen	96.4		% Recovery		
38	13F0034-MS1	MS/MSD of RW-3048	6/6/2013	SWF0030	EPA 300.0	Nitrate-Nitrogen	97		% Recovery		
39	13F0034-MSD1	MS/MSD of RW-3048	6/6/2013	SWF0030	EPA 300.0	Nitrate-Nitrogen	97		% Recovery		

**Table 5
Analytical Quality Control Samples
Residential Well Sampling
Yakima Valley Dairies**

	Sample No.	Type	Sampled	Sample Delivery Group	Analytical Method	Analyte	Result	Parent Result	Units	Qualifier	RPD
40	13F0043-MS1	MS/MSD of RW-3083	6/7/2013	SWF0049	EPA 300.0	Nitrate-Nitrogen	96.1		% Recovery		
41	13F0043-MSD1	MS/MSD of RW-3083	6/7/2013	SWF0049	EPA 300.0	Nitrate-Nitrogen	96.4		% Recovery		
42	13F0062-MS1	MS/MSD of RW-3214	6/11/2013	SWF0058	EPA 300.0	Nitrate-Nitrogen	93.7		% Recovery		
43	13F0062-MSD1	MS/MSD of RW-3214	6/11/2013	SWF0058	EPA 300.0	Nitrate-Nitrogen	94.2		% Recovery		
44	13F0067-MS1	MS/MSD of RW-3169	6/11/2013	SWF0070	EPA 300.0	Nitrate-Nitrogen	98.1		% Recovery		
45	13F0067-MSD1	MS/MSD of RW-3169	6/11/2013	SWF0070	EPA 300.0	Nitrate-Nitrogen	97.9		% Recovery		
46	13F0120-MS1	MS/MSD of RW-3025	6/20/2013	SWF0123	EPA 300.0	Nitrate-Nitrogen	93.9		% Recovery		
47	13F0120-MDS1	MS/MSD of RW-3025	6/20/2013	SWF0123	EPA 300.0	Nitrate-Nitrogen	94.6		% Recovery		

NOTES

- RPD - Relative Percent Difference
- mg/l - milligrams per liter
- U - The compound was analyzed for but not detected. The result is the compound quantitation limit.
- % Recovery - Percent Recovery

**Table 6
Drinking Water Sampling Results Less Than MCL
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Analytical Method	Analyte	Result	Units	Qualifier	Notes
1	RW-1012						5/30	Well Sample	5/30/2013 11:40	EPA 300.0	Nitrate-Nitrogen	5.63	mg/l		
2	RW-1020						6/3	Well Sample	6/3/2013 13:15	EPA 300.0	Nitrate-Nitrogen	5.4	mg/l		
3	RW-1025						6/18	Well Sample	6/18/2013 19:06	EPA 300.0	Nitrate-Nitrogen	6.16	mg/l		
4	RW-1026						6/3	Well Sample	6/3/2013 13:03	EPA 300.0	Nitrate-Nitrogen	8.3	mg/l		
5	RW-1027						6/3	Well Sample	6/3/2013 13:46	EPA 300.0	Nitrate-Nitrogen	5	mg/l		
6	RW-1030						5/28	Well Sample	5/28/2013 14:35	EPA 300.0	Nitrate-Nitrogen	7.59	mg/l		
7	RW-1031						6/3	Well Sample	6/3/2013 17:26	EPA 300.0	Nitrate-Nitrogen	5.5	mg/l		
8	RW-1037						6/3	Well Sample	6/3/2013 13:31	EPA 300.0	Nitrate-Nitrogen	5.3	mg/l		
9	RW-1044						5/28	Well Sample	5/28/2013 15:25	EPA 300.0	Nitrate-Nitrogen	8.19	mg/l		
10	RW-1046						5/28	Well Sample	5/28/2013 16:20	EPA 300.0	Nitrate-Nitrogen	9.98	mg/l		
11	RW-1048						6/4	Well Sample	6/4/2013 16:42	EPA 300.0	Nitrate-Nitrogen	9.4	mg/l		
12	RW-1049						5/28	Well Sample	5/28/2013 17:00	EPA 300.0	Nitrate-Nitrogen	9.36	mg/l		
13	RW-1050						5/28	Well Sample		EPA 300.0	Nitrate-Nitrogen	9.36	mg/l		Shares well w/ RW-1049
14	RW-1062						5/30	Well Sample	5/30/2013 10:05	EPA 300.0	Nitrate-Nitrogen	3.67	mg/l		
15	RW-1064						6/4	Well Sample	6/4/2013 14:00	EPA 300.0	Nitrate-Nitrogen	8.74	mg/l		
16	RW-1072						6/3	Well Sample	6/3/2013 17:10	EPA 300.0	Nitrate-Nitrogen	4.86	mg/l		
17	RW-1076						6/19	Well Sample	6/19/2013 9:51	EPA 300.0	Nitrate-Nitrogen	9.58	mg/l		
18	RW-1084						5/29	Well Sample	5/29/2013 15:20	EPA 300.0	Nitrate-Nitrogen	7.91	mg/l		
19	RW-1085						5/29	Well Sample	5/29/2013 8:15	EPA 300.0	Nitrate-Nitrogen	8	mg/l		
20	RW-1087						5/30	Well Sample	5/30/2013 10:15	EPA 300.0	Nitrate-Nitrogen	3.82	mg/l		
21	RW-1091						5/30	Well Sample	5/30/2013 15:38	EPA 300.0	Nitrate-Nitrogen	3.12	mg/l		
22	RW-1092						5/29	Well Sample	5/29/2013 15:40	EPA 300.0	Nitrate-Nitrogen	8.3	mg/l		
23	RW-1093						5/29	Well Sample	5/29/2013 8:57	EPA 300.0	Nitrate-Nitrogen	7.87	mg/l		
24	RW-1094						5/29	Well Sample	5/29/2013 9:18	EPA 300.0	Nitrate-Nitrogen	4.59	mg/l		
25	RW-1105						6/20	Well Sample	6/20/2013 9:55	EPA 300.0	Nitrate-Nitrogen	8.58	mg/l		
26	RW-1110						5/30	Well Sample	5/30/2013 14:30	EPA 300.0	Nitrate-Nitrogen	7.62	mg/l		
27	RW-1111						6/18	Well Sample	6/18/2013 19:28	EPA 300.0	Nitrate-Nitrogen	3.16	mg/l		
28	RW-1115						6/4	Well Sample	6/4/2013 18:25	EPA 300.0	Nitrate-Nitrogen	7.76	mg/l		
29	RW-1116						6/4	Well Sample	6/4/2013 19:45	EPA 300.0	Nitrate-Nitrogen	4.36	mg/l		
30	RW-1118						6/19	Well Sample	6/19/2013 17:20	EPA 300.0	Nitrate-Nitrogen	3.9	mg/l		
31	RW-1119						6/4	Well Sample		EPA 300.0	Nitrate-Nitrogen	7.76	mg/l		Shares well w/ RW-1115
32	RW-1130						6/5	Well Sample	6/5/2013 13:41	EPA 300.0	Nitrate-Nitrogen	3.4	mg/l		
33	RW-1134						6/19	Well Sample	6/19/2013 14:14	EPA 300.0	Nitrate-Nitrogen	7.08	mg/l		
34	RW-1153						6/5	Well Sample	6/5/2013 18:32	EPA 300.0	Nitrate-Nitrogen	8.78	mg/l		
35	RW-1160						6/5	Well Sample	6/5/2013 12:23	EPA 300.0	Nitrate-Nitrogen	9.16	mg/l		
36	RW-1161						6/5	Well Sample	6/5/2013 12:11	EPA 300.0	Nitrate-Nitrogen	5.16	mg/l		
37	RW-1165						6/5	Well Sample	6/5/2013 19:26	EPA 300.0	Nitrate-Nitrogen	9.3	mg/l		
38	RW-1169						6/10	Well Sample	6/10/2013 15:08	EPA 300.0	Nitrate-Nitrogen	9.72	mg/l		
39	RW-1172						5/29	Well Sample	5/29/2013 14:35	EPA 300.0	Nitrate-Nitrogen	9.72	mg/l		
40	RW-1177						6/19	Well Sample	6/19/2013 20:15	EPA 300.0	Nitrate-Nitrogen	6.32	mg/l		
41	RW-1178						6/19	Well Sample	6/19/2013 20:29	EPA 300.0	Nitrate-Nitrogen	5.34	mg/l		
42	RW-1179						6/3	Well Sample	6/3/2013 16:42	EPA 300.0	Nitrate-Nitrogen	5.68	mg/l		
43	RW-1210						6/20	Well Sample	6/20/2013 8:00	EPA 300.0	Nitrate-Nitrogen	4.06	mg/l		
44	RW-1211						6/10	Well Sample	6/10/2013 16:40	EPA 300.0	Nitrate-Nitrogen	3.06	mg/l		
45	RW-1216						6/10	Well Sample	6/10/2013 17:02	EPA 300.0	Nitrate-Nitrogen	4.56	mg/l		

**Table 6
Drinking Water Sampling Results Less Than MCL
Residential Well Sampling
Yakima Valley Dairies**

	Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Analytical Method	Analyte	Result	Units	Qualifier	Notes
46	RW-1224							6/9	Well Sample	6/9/2013 16:00	EPA 300.0	Nitrate-Nitrogen	9.26	mg/l		
47	RW-1228							6/19	Well Sample	6/19/2013 19:43	EPA 300.0	Nitrate-Nitrogen	9.08	mg/l		
48	RW-1235							6/9	Well Sample	6/9/2013 18:32	EPA 300.0	Nitrate-Nitrogen	6.16	mg/l		
49	RW-1236							6/9	Well Sample		EPA 300.0	Nitrate-Nitrogen	6.16	mg/l		Shares well w/ RW-1235

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter

**Table 7
Drinking Water Sampling Results Greater Than MCL
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Analytical Method	Analyte	Result	Units	Qualifier	Notes
1	RW-1008						6/3	Well Sample	6/3/2013 10:08	EPA 300.0	Nitrate-Nitrogen	20	mg/l		
2	RW-1011						5/30	Well Sample	5/30/2013 11:55	EPA 300.0	Nitrate-Nitrogen	30.6	mg/l		
3	RW-1014						6/3	Well Sample	6/3/2013 19:07	EPA 300.0	Nitrate-Nitrogen	50.9	mg/l		
4	RW-1017						6/3	Well Sample	6/3/2013 10:07	EPA 300.0	Nitrate-Nitrogen	15.9	mg/l		
5	RW-1041						6/3	Well Sample	6/3/2013 8:47	EPA 300.0	Nitrate-Nitrogen	36.8	mg/l		
6	RW-1042						6/4	Well Sample	6/4/2013 12:34	EPA 300.0	Nitrate-Nitrogen	39.3	mg/l		
7	RW-1045						5/28	Well Sample	5/28/2013 15:47	EPA 300.0	Nitrate-Nitrogen	15.3	mg/l		
8	RW-1047						5/28	Well Sample	5/28/2013 16:40	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l		
9	RW-1051						5/28	Well Sample	5/28/2013 17:25	EPA 300.0	Nitrate-Nitrogen	17.1	mg/l		
10	RW-1054						5/28	Well Sample	5/28/2013 17:40	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l		
11	RW-1055						5/28	Well Sample	5/28/2013 17:40	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l		
12	RW-1068						6/5	Well Sample	6/5/2013 10:21	EPA 300.0	Nitrate-Nitrogen	30.7	mg/l		
13	RW-1075						6/4	Well Sample	6/4/2013 10:17	EPA 300.0	Nitrate-Nitrogen	11.3	mg/l		
14	RW-1078						5/29	Well Sample	5/29/2013 16:33	EPA 300.0	Nitrate-Nitrogen	12.4	mg/l		RO system present @ kitchen sink
15	RW-1082						6/6	Well Sample		EPA 300.0	Nitrate-Nitrogen	36.5	mg/l		Shares well w/ RW-1083
16	RW-1083						6/6	Well Sample	6/6/2013 10:52	EPA 300.0	Nitrate-Nitrogen	36.5	mg/l		
17	RW-1086						5/30	Well Sample	5/30/2013 8:55	EPA 300.0	Nitrate-Nitrogen	16.8	mg/l		
18	RW-1089						5/30	Well Sample		EPA 300.0	Nitrate-Nitrogen	16.8	mg/l		Shares well w/ RW-1086
19	RW-1090A						5/30	Well Sample	5/30/2013 10:50	EPA 300.0	Nitrate-Nitrogen	23.8	mg/l		
20	RW-1090B						5/30	Well Sample	5/30/2013 10:55	EPA 300.0	Nitrate-Nitrogen	23	mg/l		
21	RW-1095						5/29	Well Sample	5/29/2013 9:30	EPA 300.0	Nitrate-Nitrogen	11.8	mg/l		
22	RW-1096						5/29	Well Sample	5/29/2013 9:45	EPA 300.0	Nitrate-Nitrogen	16	mg/l		
23	RW-1097						5/30	Well Sample	5/30/2013 13:55	EPA 300.0	Nitrate-Nitrogen	10.1	mg/l		
24	RW-1098						5/30	Well Sample		EPA 300.0	Nitrate-Nitrogen	10.1	mg/l		Shares well w/ RW-1097
25	RW-1099						5/29	Well Sample	5/29/2013 11:20	EPA 300.0	Nitrate-Nitrogen	14	mg/l		
26	RW-1100						5/29	Well Sample	5/29/2013 10:55	EPA 300.0	Nitrate-Nitrogen	10.9	mg/l		
27	RW-1101						5/29	Well Sample	5/29/2013 14:20	EPA 300.0	Nitrate-Nitrogen	18.2	mg/l		RO system present @ kitchen sink
28	RW-1102						5/30	Well Sample	5/30/2013 9:40	EPA 300.0	Nitrate-Nitrogen	18.2	mg/l		
29	RW-1103						5/29	Well Sample	5/29/2013 11:10	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l		
30	RW-1107						5/29	Well Sample	5/29/2013 12:25	EPA 300.0	Nitrate-Nitrogen	10.4	mg/l		
31	RW-1108						5/29	Well Sample	5/29/2013 14:00	EPA 300.0	Nitrate-Nitrogen	20.3	mg/l		
32	RW-1109						5/29	Well Sample		EPA 300.0	Nitrate-Nitrogen	20.3	mg/l		Shares well w/ RW-1108
33	RW-1112						6/19	Well Sample	6/19/2013 17:52	EPA 300.0	Nitrate-Nitrogen	18.1	mg/l		
34	RW-1114						6/19	Well Sample	6/19/2013 17:05	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l		
35	RW-1121						6/4	Well Sample	6/4/2013 17:52	EPA 300.0	Nitrate-Nitrogen	15.6	mg/l		
36	RW-1122						6/4	Well Sample	6/4/2013 18:10	EPA 300.0	Nitrate-Nitrogen	26.9	mg/l		
37	RW-1124						6/4	Well Sample	6/4/2013 17:34	EPA 300.0	Nitrate-Nitrogen	18.6	mg/l		
38	RW-1125						5/28	Well Sample	5/28/2013 16:05	EPA 300.0	Nitrate-Nitrogen	10.5	mg/l		
39	RW-1126						6/4	Well Sample		EPA 300.0	Nitrate-Nitrogen	13.7	mg/l		Shares well w/ RW-1127
40	RW-1127						6/4	Well Sample	6/4/2013 17:06	EPA 300.0	Nitrate-Nitrogen	13.7	mg/l		1128
41	RW-1128						6/4	Well Sample		EPA 300.0	Nitrate-Nitrogen	13.7	mg/l		Shares well w/ RW-1127
42	RW-1129						9/18	Well Sample	9/18/2013 13:20	EPA 300.0	Nitrate-Nitrogen	28.5	mg/l		Sampled 9/18; (not home; left card - 1st visit 6/5; 2nd visit 6/19)
43	RW-1139						6/5	Well Sample	6/5/2013 17:19	EPA 300.0	Nitrate-Nitrogen	30.6	mg/l		
44	RW-1140						6/5	Well Sample		EPA 300.0	Nitrate-Nitrogen	30.6	mg/l		Shares well w/ RW-1139
45	RW-1141						6/6	Well Sample	6/6/2013 11:16	EPA 300.0	Nitrate-Nitrogen	30.2	mg/l		
46	RW-1142						6/6	Well Sample	6/6/2013 14:08	EPA 300.0	Nitrate-Nitrogen	18.5	mg/l		
47	RW-1143						6/6	Well Sample		EPA 300.0	Nitrate-Nitrogen	18.5	mg/l		Shares well w/ RW-1142
48	RW-1145						6/5	Well Sample	6/5/2013 17:56	EPA 300.0	Nitrate-Nitrogen	27.3	mg/l		
49	RW-1149						5/29	Well Sample	5/29/2013 11:50	EPA 300.0	Nitrate-Nitrogen	13.2	mg/l		RO system present @ kitchen sink

**Table 7
Drinking Water Sampling Results Greater Than MCL
Residential Well Sampling
Yakima Valley Dairies**

Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Latitude (DD)	Longitude (DD)	Visit Date (2013)	Type	Sampled	Analytical Method	Analyte	Result	Units	Qualifier	Notes
50	RW-1152						5/29	Well Sample	5/29/2013 16:00	EPA 300.0	Nitrate-Nitrogen	15.8	mg/l		
51	RW-1158						5/29	Well Sample	5/29/2013 10:08	EPA 300.0	Nitrate-Nitrogen	29.4	mg/l		RO system present @ kitchen sink
52	RW-1159						6/3	Well Sample	6/3/2013 10:31	EPA 300.0	Nitrate-Nitrogen	12	mg/l		
53	RW-1171						5/30	Well Sample	5/30/2013 15:00	EPA 300.0	Nitrate-Nitrogen	12.7	mg/l		
54	RW-1203						6/19	Well Sample	6/19/2013 18:52	EPA 300.0	Nitrate-Nitrogen	17.9	mg/l		
55	RW-1204						6/10	Well Sample	6/10/2013 18:40	EPA 300.0	Nitrate-Nitrogen	13.1	mg/l		
56	RW-1212						6/10	Well Sample	6/10/2013 16:00	EPA 300.0	Nitrate-Nitrogen	12.5	mg/l		Shares well w/ RW-1212A
57	RW-1212A						9/18	Well Sample	9/18/2013 12:28	EPA 300.0	Nitrate-Nitrogen	15.1	mg/l		6/10)
58	RW-1214						6/9	Well Sample	6/9/2013 18:12	EPA 300.0	Nitrate-Nitrogen	12.7	mg/l		
59	RW-1218						6/10	Well Sample	6/10/2013 17:55	EPA 300.0	Nitrate-Nitrogen	26.6	mg/l		
60	RW-1219						6/10	Well Sample	6/10/2013 18:10	EPA 300.0	Nitrate-Nitrogen	31.1	mg/l		
61	RW-1221						6/9	Well Sample	6/9/2013 19:28	EPA 300.0	Nitrate-Nitrogen	13	mg/l		Shares well w/ RW-1222 & RW-1223
62	RW-1222						6/9	Well Sample		EPA 300.0	Nitrate-Nitrogen	13	mg/l		Shares well w/ RW-1221
63	RW-1227						9/18	Well Sample	9/18/2013 14:05	EPA 300.0	Nitrate-Nitrogen	51.6	mg/l		Sampled 9/18; (not home; left card - 1st visit 6/10; 2nd visit 6/19)
64	RW-1230						6/10	Well Sample	6/10/2013 11:19	EPA 300.0	Nitrate-Nitrogen	25.9	mg/l		Owner did not give name
65	RW-1237						6/9	Well Sample	6/9/2013 19:00	EPA 300.0	Nitrate-Nitrogen	35.7	mg/l		
66	RW-1238						6/9	Well Sample	6/9/2013 19:44	EPA 300.0	Nitrate-Nitrogen	13.8	mg/l		

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

Table 8
Reverse Osmosis System Installation
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Number	Street	City	State	Zipcode	Property Owner Last Name	Property Owner First Name	Occupant Last Name	Occupant First Name	Mailing Address	City	State	Zipcode
1	RW-1008													
2	RW-1011													
3	RW-1014													
4	RW-1017													
5	RW-1041													
6	RW-1042													
7	RW-1045													
8	RW-1047													
9	RW-1051													
10	RW-1054													
11	RW-1055													
12	RW-1055A													
13	RW-1068													
14	RW-1075													
15	RW-1078													
16	RW-1082													
17	RW-1083													
18	RW-1086													
19	RW-1089													
20	RW-1090A													
21	RW-1090B													
22	RW-1095													
23	RW-1096													
24	RW-1097													
25	RW-1098													
26	RW-1099													
27	RW-1100													
28	RW-1101													
29	RW-1102													
30	RW-1103													
31	RW-1107													
32	RW-1108													
33	RW-1109													
34	RW-1112													
35	RW-1114													
36	RW-1121													
37	RW-1122													
38	RW-1124													

Table 8
Reverse Osmosis System Installation
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Number	Street	Phone No.	Visit Date	Nitrate Sample Result (mg/l)	Notes	Response to Offer	RO Installed
1	RW-1008				6/3/2013	20		Refused 12/11/13	
2	RW-1011				5/30/2013	30.6	Originally RW-1012, inadvertently switched	Accepted 8/7/2013	10/7/2013
3	RW-1014				6/3/2013	50.9		No Response	
4	RW-1017				6/3/2013	15.9		No Response	
5	RW-1041				6/3/2013	36.8		Accepted 7/10/2013	10/11/2013
6	RW-1042				6/4/2013	39.3		Accepted 10/9/2013	10/25/2013
7	RW-1045				5/28/2013	15.3		No Response	
8	RW-1047				5/28/2013	10.2		Accepted 7/3/2013	10/18/2013
9	RW-1051				5/28/2013	17.1		No Response	
10	RW-1054				5/28/2013	10.2		Accepted 6/26/2013	9/24/2013
11	RW-1055				5/28/2013	10	Shares well w/ RW-1054	Accepted 6/26/2013	9/24/2013
12	RW-1055A				5/28/2013	10	Shares well w/RW-1054 & RW-1055	Accepted 6/26/2013	9/24/2013
13	RW-1068				6/5/2013	30.7		Accepted 6/24/3013	9/27/2013
14	RW-1075				6/4/2013	11.3		Accepted 6/26/3013	10/11/2013
15	RW-1078				5/29/2013	12.4	RO system present	No Response	
16	RW-1082				6/6/2013	36.5	Shares well w/ RW-1083	No Response	
17	RW-1083				6/6/2013	36.5		No Response	
18	RW-1086				5/30/2013	16.8		No Response	
19	RW-1089				5/30/2013	16.8	Shares well w/ RW-1086	No Response	
20	RW-1090A				5/30/2013	23.8	2 wells/2 samples; RW-1090A & RW-1090B	Accepted 8/7/2013	10/1/2013
21	RW-1090B				5/30/2013	23		Accepted 8/7/2013	10/1/2013
22	RW-1095				5/29/2013	11.8		Accepted 7/16/2013	12/6/2013
23	RW-1096				5/29/2013	16		Accepted 7/3/2013	9/26/2013
24	RW-1097				5/30/2013	10.1		Accepted 6/25/2013	9/20/2013
25	RW-1098				5/30/2013	10.1	Shares well w/ RW-1097	Accepted 6/24/2013	9/27/2013
26	RW-1099				5/29/2013	14		No Response	
27	RW-1100				5/29/2013	10.9		No Response	
28	RW-1101				5/29/2013	18.2	RO system present	Accepted 8/7/2013	10/7/2013
29	RW-1102				5/30/2013	18.2		Accepted 7/1/2013	9/25/2013
30	RW-1103				5/29/2013	12.3		No Response	
31	RW-1107				5/29/2013	10.4		No Response	
32	RW-1108				5/29/2013	20.3		Accepted 7/9/2013	9/19/2013
33	RW-1109				5/29/2013	20.3	Shares well w/ RW-1108	Accepted 10/18/2013	11/8/2013
34	RW-1112				6/19/2013	18.1		Accepted 7/8/2013	10/14/2013
35	RW-1114				6/19/2013	12.3		No Response	
36	RW-1121				6/4/2013	15.6		No Response	
37	RW-1122				6/4/2013	26.9		Accepted 6/24/2013	9/20/2013
38	RW-1124				6/4/2013	18.6		No Response	

Table 8
Reverse Osmosis System Installation
Residential Well Sampling
Yakima Valley Dairies

Sample No.	Number	Street	City	State	Zipcode	Property Owner Last Name	Property Owner First Name	Occupant Last Name	Occupant First Name	Mailing Address	City	State	Zipcode
39	RW-1125												
40	RW-1126												
41	RW-1127												
42	RW-1128												
43	RW-1129												
44	RW-1139												
45	RW-1140												
46	RW-1141												
47	RW-1142												
48	RW-1143												
49	RW-1145												
50	RW-1149												
51	RW-1152												
52	RW-1158												
53	RW-1159												
54	RW-1171												
55	RW-1203												
56	RW-1204												
57	RW-1212												
58	RW-1212A												
59	RW-1214												
60	RW-1218												
61	RW-1219												
62	RW-1221												
63	RW-1222												
64	RW-1227												
65	RW-1230												
66	RW-1237												
67	RW-1238												

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

Table 8
Reverse Osmosis System Installation
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Number	Street	Phone No.	Visit Date	Nitrate Sample Result (mg/l)	Notes	Response to Offer	RO Installed
39	RW-1125				5/28/2013	10.5		Accepted 7/10/2013	9/27/2013
40	RW-1126				6/4/2013	13.7	Shares well w/ RW-1127	Accepted 6/28/2013	9/18/2013
41	RW-1127				6/4/2013	13.7	Shares well w/ RW-1126	Accepted 6/24/2013	10/7/2013
42	RW-1128				6/4/2013	13.7	RO system present	Accepted 6/25/2013	10/7/2013
43	RW-1129				9/18/2013	28.5		Accepted 9/24/2013	10/25/2013
44	RW-1139				6/5/2013	30.6	Shares well w/RW-1140	Accepted 6/25/2013	No Response to Pinnacle
45	RW-1140				6/5/2013	30.6	Shares well w/ RW-1139	Accepted 6/24/2013	No Response to Pinnacle
46	RW-1141				6/6/2013	30.2		No Response	
47	RW-1142				6/6/2013	18.5	Shares well w/RW-1143	No Response	
48	RW-1143				6/6/2013	18.5	Shares well w/ RW-1142	No Response	
49	RW-1145				6/5/2013	27.3		No Response	
50	RW-1149				5/29/2013	13.2	RO system present; Shares well w/ RW-1097		
51	RW-1152				5/29/2013	15.8		Accepted 7/8/2013	10/1/2013
52	RW-1158					29.4	RO system present	Accepted 6/27/13	9/25/2013
53	RW-1159				6/3/2013	12		Accepted 6/23/2013	9/19/2013
54	RW-1171				5/30/2013	12.7		No Response	
55	RW-1203				6/19/2013	17.9		Accepted 8/11/2013	9/17/2013
56	RW-1204				6/10/2013	13.1		No Response	
57	RW-1212				6/10/2013	12.5	Shares well w/ RW-1212A	Accepted 6/22/2013	9/19/2013
58	RW-1212A				9/18/2013	15.1		Accepted 9/24/2013	10/11/2013
59	RW-1214				6/9/2013	12.7		No Response	
60	RW-1218				6/10/2013	26.6		Accepted 6/27/2013	9/25/2013
61	RW-1219				6/10/2013	31.1		No Response	
62	RW-1221				6/9/2013	13	Shares well w/ RW-1222 & RW-1223	No Response	
63	RW-1222				6/9/2013	13	Shares well w/ RW-1221	No Response	
64	RW-1227				9/18/2013	51.6	Verbal w/owner/occupant	Accepted 9/18/2013	10/25/2013
65	RW-1230				6/10/2013	25.9	Did not give name	No Response	
66	RW-1237				6/9/2013	35.7		No Response	
67	RW-1238				6/9/2013	13.8		No Response	

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

Table 9
Existing Reverse Osmosis System Maintenance
Residential Well Sampling
Yakima Valley Dairies

Sample No.	Number	Street	City	State	Zipcode	Property Owner Last Name	Property Owner First Name	Occupant Last Name	Occupant First Name	Mailing Address	City	State	Zipcode
1	RW-1002												
2	RW-1003												
3	RW-1004												
4	RW-1005												
5	RW-1006												
6	RW-1007												
7	RW-1010												
8	RW-1013												
9	RW-1015												
10	RW-1019												
11	RW-1021												
12	RW-1022												
13	RW-1028												
14	RW-1029												
15	RW-1034												
16	RW-1036												
17	RW-1040												
18	RW-1065												
19	RW-1066												
20	RW-1069												
21	RW-1078												
22	RW-1080												
23	RW-1081												
24	RW-1101												
25	RW-1113												
26	RW-1120												
27	RW-1123												
28	RW-1128												
29	RW-1133												
30	RW-1136												
31	RW-1138												
32	RW-1146												
33	RW-1149												
34	RW-1150												
35	RW-1151												
36	RW-1158												
37	RW-1162												
38	RW-1164												

Table 9
Existing Reverse Osmosis System Maintenance
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Number	Street	Phone No.	Visit Date	Notes	Response to Offer	Maintenance Performed
1	RW-1002				6/10/2013	RO system present	No Response	
2	RW-1003				6/2/2013	RO system present	No Response	
3	RW-1004				6/10/2013	RO system present	No Response	
4	RW-1005				6/2/2013	RO system present	No Response	
5	RW-1006				6/10/2013	RO system present	No Response	
6	RW-1007				6/19/2013	RO system present; Previously listed as RW-1205	Accepted 6/25/2013	10/7/2013
7	RW-1010				6/3/2013	RO system present	Accepted 7/15/2013	9/26/2013
8	RW-1013				6/3/2013	RO system present	No Response	
9	RW-1015				6/2/2013	RO system present	Accepted 7/16/2013	10/18/2013
10	RW-1019				6/2/2013	RO system present	No Response	
11	RW-1021				6/3/2013	RO system present	No Response	
12	RW-1022				6/19/2013	RO system present	Uncooperative occupant	
13	RW-1028				6/3/2013	RO system present	No Response	
14	RW-1029				6/18/2013	RO system present	No Response	
15	RW-1034				6/3/2013	RO system present	No Response	
16	RW-1036				6/3/2013	RO system present	No Response	
17	RW-1040				6/4/2013	RO system present; Shares well w/ RW-1042	Accepted 7/1/2013	10/1/2013
18	RW-1065				6/3/2013	RO system present	Accepted 7/1/2013	9/26/2013
19	RW-1066				5/29/2013	RO system present	Accepted 6/25/13	12/13/2013
20	RW-1069				6/19/2013	RO system present	No Response	
21	RW-1078				5/29/2013	RO system present	No Response	
22	RW-1080				5/30/2013	RO system present	No Response	
23	RW-1081				6/20/2013	RO system present	No Response	
24	RW-1101				5/29/2013	RO system present	No Response	
25	RW-1113				6/6/2013	RO system present	No Response	
26	RW-1120				6/4/2013	RO system present	No Response	
27	RW-1123				6/4/2013	RO system present	No Response	
28	RW-1128				6/4/2013	RO system present	Accepted 6/28/2013	9/18/2013
29	RW-1133				6/20/2013	RO system present	Accepted 7/16/2013	11/8/2013
30	RW-1136				6/5/2013	RO system present	No Response	
31	RW-1138				6/5/2013	RO system present	No Response	
32	RW-1146				6/5/2013	RO system present	No Response	
33	RW-1149				5/29/2013	RO system present	Accepted 6/24/2013	9/18/2013
34	RW-1150				5/30/2013	RO system present	No Response	
35	RW-1151				6/6/2013	RO system present	No Response	
36	RW-1158				5/29/2013	RO system present	Accepted 6/27/2013	9/25/2013
37	RW-1162				6/20/2013	RO system present	Accepted 6/25/2013	10/1/2013
38	RW-1164				6/5/2013	RO system present	No Response	

Table 9
Existing Reverse Osmosis System Maintenance
Residential Well Sampling
Yakima Valley Dairies

	Sample No.	Number	Street	City	State	Zipcode	Property Owner Last Name	Property Owner First Name	Occupant Last Name	Occupant First Name	Mailing Address	City	State	Zipcode
39	RW-1166													
40	RW-1170													
41	RW-1173													
42	RW-1174													
43	RW-1176													
44	RW-1201													
45	RW-1207													
46	RW-1217													
47	RW-1220													
48	RW-1223													
49	RW-1231													
50	RW-1239													

NOTES

DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

**Table 9
Existing Reverse Osmosis System Maintenance
Residential Well Sampling
Yakima Valley Dairies**

	Sample No.	Number	Street	Phone No.	Visit Date	Notes	Response to Offer	Maintenance Performed
39	RW-1166	[REDACTED]	[REDACTED]	[REDACTED]	6/20/2013	RO system present	No Response	
40	RW-1170				6/6/2013	RO system present	No Response	
41	RW-1173				5/30/2013	RO system present	No Response	
42	RW-1174				5/30/2013	RO system present	Accepted 6/25/2013	9/20/2013
43	RW-1176				6/6/2013	RO system present	No Response	
44	RW-1201				6/19/2013	RO system present	Accepted 9/11/2013	10/9/2013
45	RW-1207				6/10/2013	RO system present	No Response	
46	RW-1217				6/10/2013	RO system present	No Response	
47	RW-1220				6/10/2013	RO system present	No Response	
48	RW-1223				6/9/2013	RO system present; Shares well w/ RW-1221	Accepted 7/1/2013	10/12/2013
49	RW-1231				6/19/2013	RO system present	Accepted 9/11/2013	10/9/2013
50	RW-1239				6/10/2013	RO system present	No Response	

NOTES

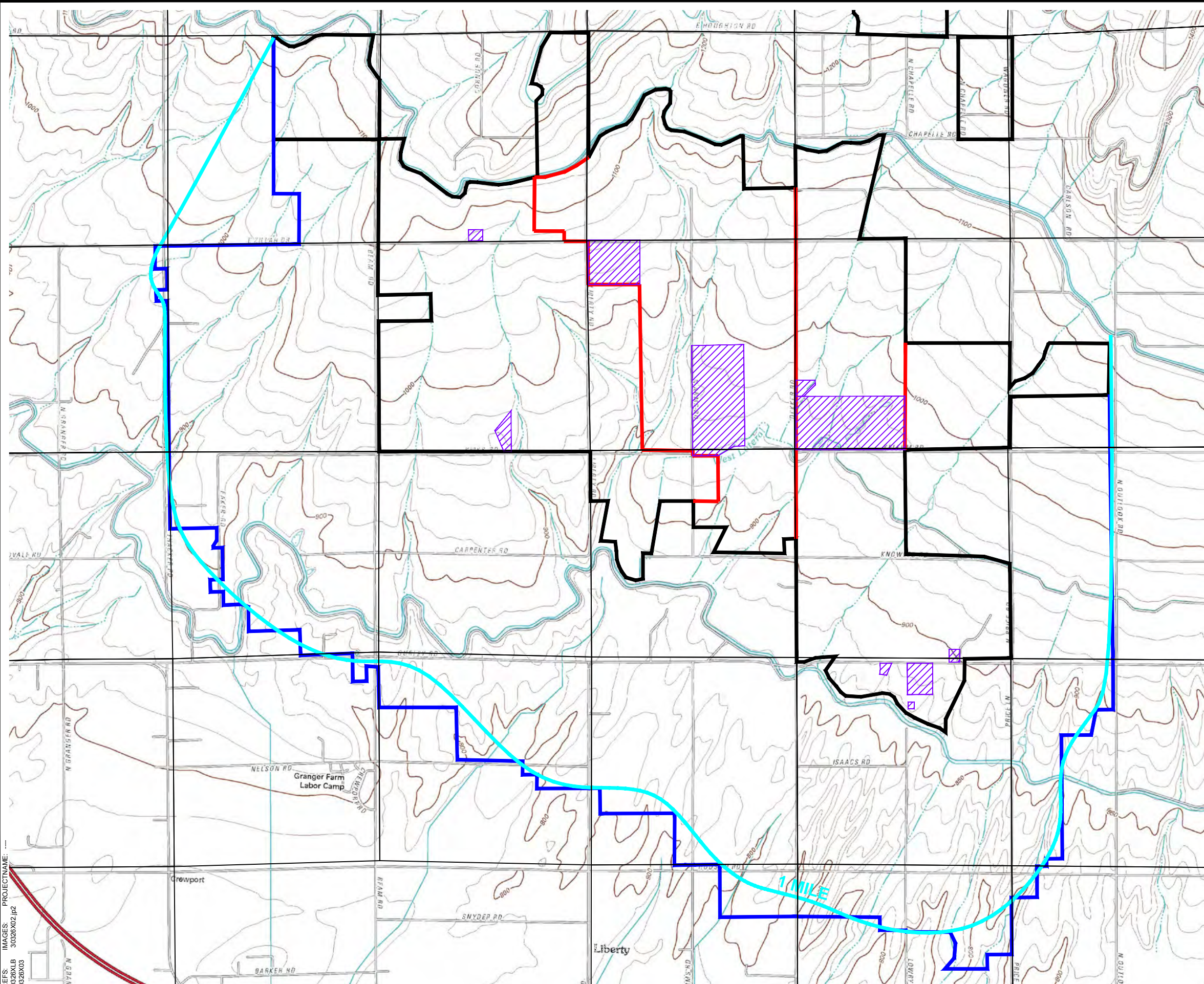
DD - Decimal Degrees
mg/l - milligrams per liter
RO - Reverse Osmosis

Table 10
Not-At-Home and Refusal Residences
Residential Well Sampling
Yakima Valley Dairies





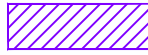
	Sample No.	Number	Street	Owner/Occupant Last Name	Owner/Occupant First Name	Visit Date	Notes
1	RW-1001					6/2/2013	Vacant lot; [REDACTED]
2	RW-1009					6/19/2013	Not home; left card (2nd attempt; first visit 6/3)
3	RW-1016					6/2/2013	Vacant
4	RW-1023					6/3/2013	Vacant; left card
5	RW-1038					6/18/2013	Not home; left card (2nd attempt; first visit 6/4)
6	RW-1052					6/5/2013	Vacant; left card
7	RW-1057					6/18/2013	Not home; left card (2nd attempt; first visit 6/4)
8	RW-1058					6/19/2013	Not home; left card (2nd attempt; first visit 6/4)
9	RW-1059					6/19/2013	Not home; left card (2nd attempt; first visit 6/4)
10	RW-1061					6/6/2013	Refusal; Do not sample
11	RW-1077					6/19/2013	Not home; left card (2nd attempt; first visit 6/4)
12	RW-1079					5/30/2013	Vacant; [REDACTED] left card; [REDACTED]
13	RW-1088					6/19/2013	Not home; left card (2nd attempt; first visit 5/30)
14	RW-1104					6/20/2013	Not home; left card (2nd attempt; first visit 5/29)
15	RW-1106					5/29/2013	Vacant
16	RW-1117					6/19/2013	Not home; left card (2nd attempt; first visit 6/4)
17	RW-1135					6/19/2013	Refusal
18	RW-1137					6/19/2013	Not home; left card (2nd attempt; first visit 6/5)
19	RW-1144					6/3/2013	Vacant; left card
20	RW-1147					6/5/2013	Vacant; left card
21	RW-1148					6/19/2013	Not home; left card [REDACTED] 2nd attempt; first visit 6/6)
22	RW-1155					6/19/2013	Refusal
23	RW-1156					6/19/2013	Not home; left card (2nd attempt; first visit 6/5)
24	RW-1157					6/19/2013	Not home; left card (2nd attempt; first visit 6/5)
25	RW-1167					6/20/2013	Not home; left card (2nd attempt; first visit 6/6)
26	RW-1168					6/20/2013	Not home; left card (2nd attempt; first visit 6/6)
27	RW-1175					6/20/2013	Not home; left card (2nd attempt; first visit 6/3)
28	RW-1180					6/4/2013	Refusal; [REDACTED]; left card [REDACTED]
29	RW-1202					6/10/2013	No home present
30	RW-1206					6/10/2013	Parcel does not exist
31	RW-1215					6/10/2013	No home present
32	RW-1225					6/9/2013	No home present
33	RW-1229					6/20/2013	Not home; left card (2nd attempt; first visit 6/10)
34	RW-1232					6/19/2013	Not home; left card (2nd attempt; first visit 6/10)
35	RW-1233					6/10/2013	No home present
36	RW-1234					6/19/2013	Not home; left card (2nd attempt; first visit 6/10)

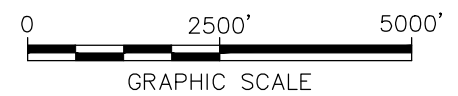
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LEGEND:

-  APPROXIMATE BOUNDARY OF DAIRY FACILITIES
-  APPROXIMATE ONE MILE DOWNGRAIDENT BOUNDARY
-  APPROXIMATE ONE MILE DOWNGRAIDENT INCLUSIVE OF PARCEL BOUNDARIES
-  RESPONDENTS OWNERSHIP BOUNDARIES
-  LAND WITHIN BOUNDARY NOT OWNED OR OPERATED BY RESPONDENTS



YAKIMA VALLEY DAIRIES
 SDWA-10-2013-0080
RESIDENTIAL WELL SAMPLING REPORT

SITE MAP

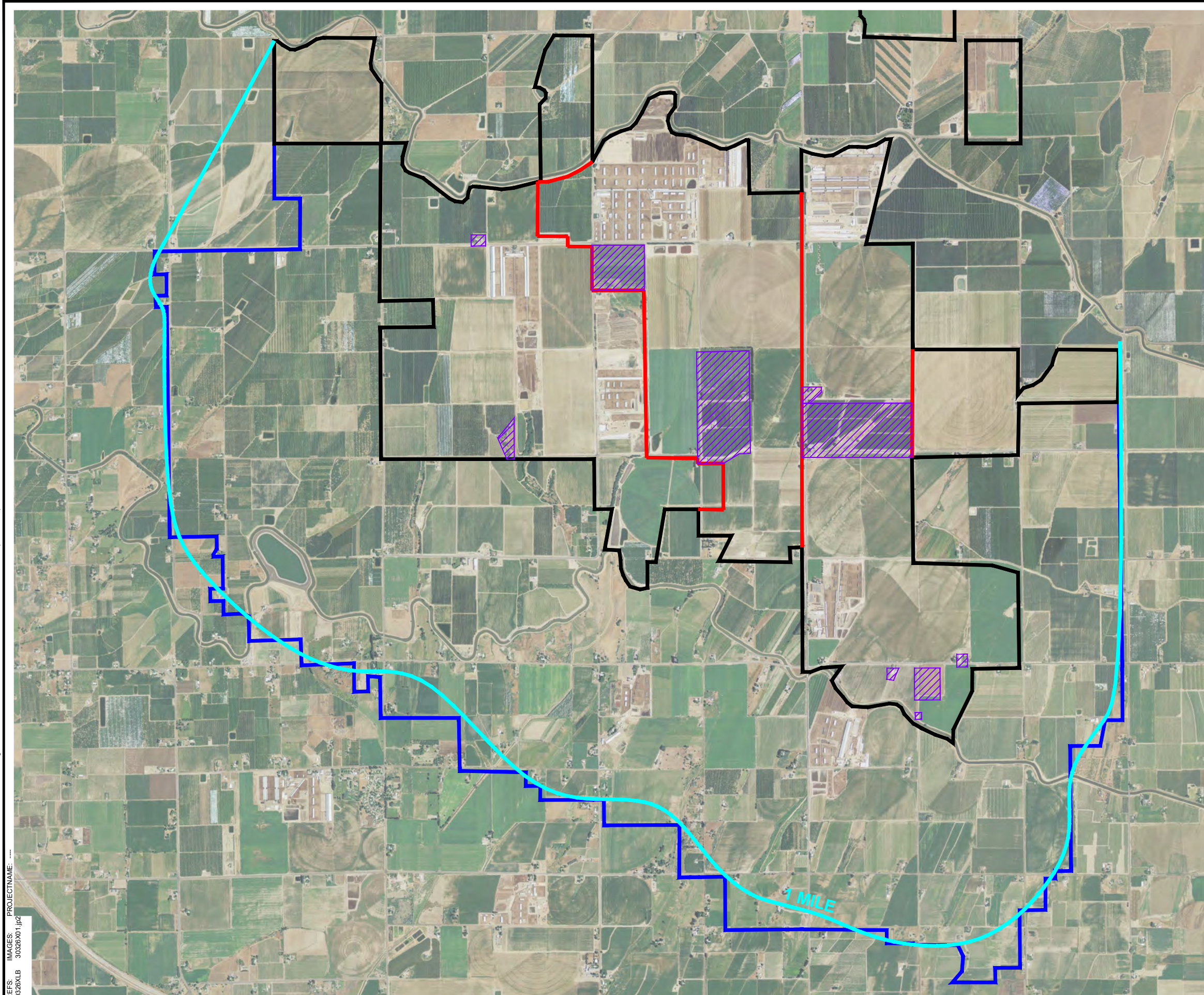


FIGURE
1





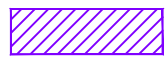
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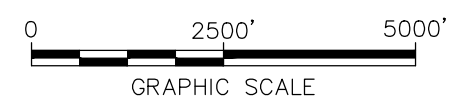
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LEGEND:

-  APPROXIMATE BOUNDARY OF DAIRY FACILITIES
-  APPROXIMATE ONE MILE DOWNGRADIENT BOUNDARY
-  APPROXIMATE ONE MILE DOWNGRADIENT INCLUSIVE OF PARCEL BOUNDARIES
-  RESPONDENTS OWNERSHIP BOUNDARIES
-  LAND WITHIN BOUNDARY NOT OWNED OR OPERATED BY RESPONDENTS



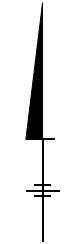
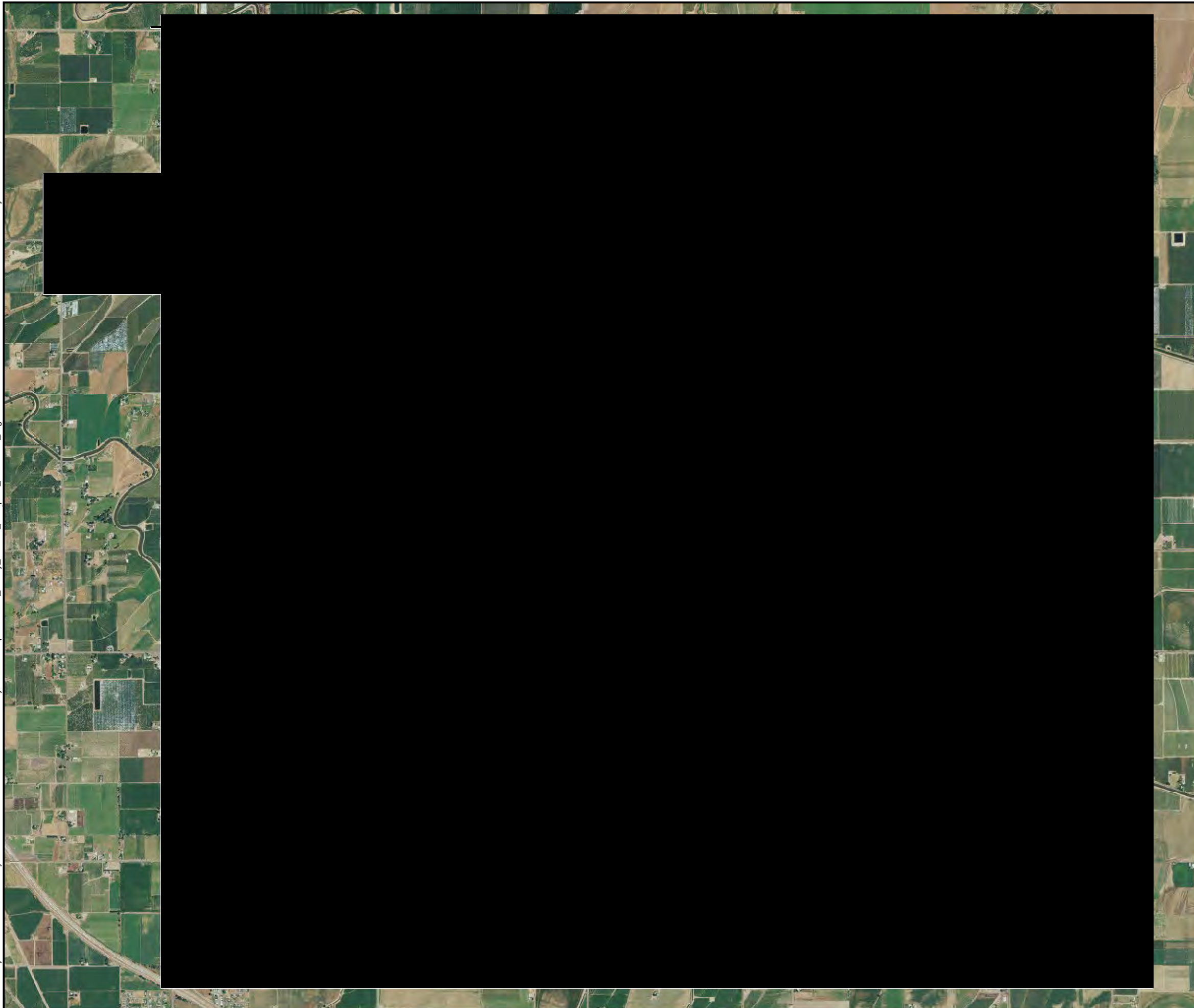
YAKIMA VALLEY DAIRIES
SDWA-10-2013-0080
RESIDENTIAL WELL SAMPLING REPORT

AERIAL PHOTOGRAPH



FIGURE
2

SOURCE: WASHINGTON 2011 NAIP ORTHO-IMAGERY-18 INCH DATA, WASHINGTON STATE ORTHOIMAGE PORTAL [HTTP://GEOGRAPHY.WA.GOV/ORTHO]



LEGEND:

- NITRATE < 10 mg/L
- NITRATE 10 - 20 mg/L
- NITRATE > 20 mg/L
- RO SYSTEM PRESENT
- RESIDENCE NOT ASSESSED
- APPROXIMATE BOUNDARY OF DAIRY FACILITIES
- APPROXIMATE ONE MILE DOWNGRADIENT BOUNDARY
- APPROXIMATE ONE MILE DOWNGRADIENT INCLUSIVE OF PARCEL BOUNDARIES
- RESPONDENTS OWNERSHIP BOUNDARIES


CONFIDENTIAL

CONTAINS PERSONALLY IDENTIFIABLE INFORMATION



YAKIMA VALLEY DAIRIES
SDWA-10-2013-0800
RESIDENTIAL WELL SAMPLING REPORT

NITRATE ANALYTICAL RESULTS

FIGURE
3



Appendix A

Model Letters Used to Communicate
with Residences



ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 929 3369
Fax 509 928 3075
www.arcadis-us.com

[RecipientName]
[Address Max. 6 lines]

Date:
[MonthDay,Year]

Dear Resident and/or Owner:

As part of the recent agreement between the U.S. Environmental Protection Agency (the "EPA") and several Yakima Valley Dairies (the "Dairies"), this residence may be entitled to a drinking water treatment system at no cost. **PLEASE READ THIS LETTER.** ARCADIS U.S., Inc. ("ARCADIS") is employed to test private drinking water wells located within one mile of the southern edge of these Dairies. **You received this letter because, if a drinking water well is located at this residence, the well is located within the testing boundary.** The testing will measure the amount of nitrate present in the water.

ARCADIS representatives will visit this residence sometime after May XX. We will be visiting residences Sunday through Thursday, between the hours of 8 am and 8 pm. **If you wish to arrange a time that is convenient to you, please contact the ARCADIS Project Coordinator listed below.** At the time of our visit, the ARCADIS representative will ask permission of the resident to obtain a sample of well water from a water tap or faucet. The water sample will be screened for nitrate using a chemical test strip. If the chemical test strip shows that the water contains more than 5 parts per million of nitrate, an additional sample will be collected and sent to a testing laboratory for further analysis. If this analysis finds that the water contains more than the EPA Maximum Contaminant Level for nitrate of 10 parts per million, the Dairies will offer to install and maintain a reverse osmosis water filter at no cost to the residence. This filter will reduce the amount of nitrate in the residence's drinking water to below the Maximum Contaminant Level.

If you have any questions or concerns, we urge you to contact either of the following:

Kevin Freeman
Project Coordinator
ARCADIS
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019
855-509-WELL (9355) *Toll-Free*
YakimaDairies@arcadis-us.com

Eric Winiacki
EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to visit your residence and offer this service. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.



ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 929 3369
Fax 509 928 3075
www.arcadis-us.com

[RecipientName]
[Address Max. 6 lines]

Date:
[MonthDay,Year]

Estimado Residente y/o Propietario:

Como parte del reciente acuerdo entre la Agencia de Protección Ambiental de Estados Unidos (EPA) y varias lecherías, Yakima Valley Dairies (Lecherías), esta residencia podría calificar para la instalación de un sistema de tratamiento de agua potable sin costo para usted. **POR FAVOR LEA ESTA CARTA.** ARCADIS U.S., Inc. (ARCADIS) ha sido contratado para recolectar muestras de agua potable de pozos privados ubicados a una milla de la orilla sur de estas Lecherías. La prueba mide la cantidad de nitrato presente en el agua. **Usted ha recibido esta carta porque un pozo de agua potable se encuentra en ésta residencia, y está ubicado dentro de los límites del área de muestro.**

Un representante de ARCADIS visitará esta residencia después del XX Mayo. Visitaremos las residencias de domingo a jueves, entre las 8 am y las 8 pm. **Si usted desea agendar una visita a una hora que sea conveniente para usted, por favor comuníquese con el Coordinador de Proyecto de ARCADIS detallado abajo.** Al momento de nuestra visita, el representante de ARCADIS pedirá permiso al residente para obtener una muestra de agua de la llave o grifo proveniente del pozo. La muestra de agua será analizada para determinar el contenido de nitrato usando una tira de prueba química. Si la tira de análisis química muestra que el agua contiene más de 5 partes por millón de nitrato, una muestra adicional será recogida y enviada a un laboratorio para análisis adicional. Si el resultado de este análisis muestra que el agua contiene más que el nivel máximo de contaminante de nitratos de 10 partes por millón establecido por EPA, las Lecherías se ofrecerán para instalar y mantener un filtro de agua de osmosis inversa sin costo alguno para la residencia. Este filtro reducirá la cantidad de nitrato en el agua potable de la residencia por debajo del nivel máximo de contaminante.

Si usted tiene alguna pregunta o duda, le instamos a comunicarse con cualquiera de los siguientes:

Kevin Freeman
Coordinador de Proyecto
ARCADIS
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019
855-509-WELL (9355) *Llamada gratuita*
YakimaDairies@arcadis-us.com

Eric Winiecki
EPA Coordinador de Proyecto
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
206-553-6904
Winiecki.Eric@epa.gov

Esperamos con interés la oportunidad de visitar su residencia y ofrecer este servicio. Gracias por su tiempo.

Sinceramente,

ARCADIS U.S., Inc.

SORRY WE MISSED YOU

An ARCADIS representative stopped at this residence today at _____^{AM}
_____^{PM}
to sample the nitrate level in your drinking water. **We would like to return soon and test your drinking water.** To have ARCADIS return to this residence and test the nitrate level in your drinking water, please call:

_____ at _____

and we will arrange a time to return that is convenient to you. **If you have any questions about this testing**, please contact either of the following:



Kevin Freeman
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019
Phone: 855-509-WELL (9355) [Toll-Free]
E-mail: YakimaDairies@arcadis-us.com



Eric Winiecki
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Phone: 206-553-6904
E-mail: Winiecki.Eric@epa.gov

Sentimos no haberlo encontrado

Un representante de ARCADIS estuvo hoy en esta residencia a las _____^{AM}
_____^{PM}
para tomar una muestra del agua potable para medir el contenido de nitrato. **Nos interesa volver pronto para tomar la muestra de agua potable.** Para agendar una visita de toma de muestra por favor comunicarse con ARCADIS llamando a

_____ al _____

y coordinaremos una hora que sea conveniente para usted. **Si tiene dudas al respecto de este muestreo** por favor comuníquese con uno de los siguientes contactos:



Kevin Freeman
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019
Teléfono: 855-509-WELL (9355) Llamada gratuita
E-mail: YakimaDairies@arcadis-us.com



Eric Winiecki
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Teléfono: 206-553-6904
E-mail: Winiecki.Eric@epa.gov



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695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 928 3369
Fax 509 928 3075
www.arcadis-us.com

[RecipientName]
[Address Max. 6 lines]

Subject:
WELL SAMPLING TEST RESULTS

ENVIRONMENT

Dear Salutation:

ARCADIS U.S. Inc. (ARCADIS) and the Yakima Valley Dairies (the "Dairies") wish to thank you for participating in our recent drinking well water sampling program. Your drinking water well was identified as being located within the Dairies or within one mile of the southern edge of the Dairies. The sample we collected from your residence measured the amount of nitrate present in your well water. Your well water contains XX.X parts per million (as milligrams per liter) of nitrate. **This concentration is less than the EPA Maximum Contaminant Level (MCL) of 10 parts per million.** A copy of your test result from the analytical laboratory is attached to this letter.

Date:
[MonthDay,Year]

Contact:
Kevin M. Freeman, PG

Extension:
211

Email:
YakimaDairies@
arcadis-us.com

Should you have additional questions regarding this letter, please contact:

Our ref:
SK030326.0001
SK030334.0001
SK030335.0001

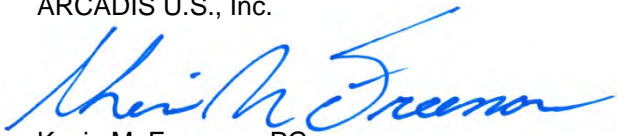
Mr. Eric Winiiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

EPA ref:
SDWA-10-2013-0080

Again, we thank you for your participation in our sampling effort.

Sincerely,

ARCADIS U.S., Inc.


Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

Imagine the result



ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 928 3369
Fax 509 928 3075
www.arcadis-us.com

[RecipientName]
[Address Max. 6 lines]

Subject:

**WELL SAMPLING TEST RESULTS AND OFFER OF A WATER
FILTRATION SYSTEM AND MAINTENANCE AT NO CHARGE TO YOU**

ENVIRONMENT

Dear Salutation:

ARCADIS U.S. Inc. (ARCADIS) and the Yakima Valley Dairies (the “Dairies”) wish to thank you for participating in our recent drinking well water sampling program. Your drinking water well was identified as being located within the Dairies or within one mile of the southern edge of the Dairies. The sample we collected from your residence measured the amount of nitrate present in your well water. **You are receiving this letter because our testing indicates that the well water contains nitrate at a concentration greater than the EPA Maximum Contaminant Level (MCL) of 10 parts per million.** Your well water contains XX.X parts per million (as milligrams per liter) of nitrate; a copy of your test result from the analytical laboratory is attached to this letter.

Date:
[MonthDay,Year]

Contact:
Kevin M. Freeman, PG

Extension:
211

Email:
YakimaDairies@
arcadis-us.com

Based on this test result, the Dairies offer, at no cost to you, to professionally install an under-sink reverse osmosis (RO) water filtration system (the “system”) at this residence. This system is intended to provide a source of potable water for this residence. The system will reduce the amount of nitrate in the water from the faucet where the system is installed to below the MCL.

Our ref:
SK030326.0001.00001
SK030334.0001.00001
SK030335.0001.00001

Additionally, the Dairies offer, at no cost to you, professional maintenance of the RO system installed at this residence. The Dairies will maintain the system so long as the residence is occupied, either by you or future owners/tenants. **The Dairies may discontinue maintenance of the system if the nitrate level in your drinking water well is below the MCL when measured on a quarterly basis over a two-year period.** Accepting the professional maintenance offer will oblige you (and/or future residents) to allow sampling of your well up to four times per year, if requested by the Dairies. Your obligation for sampling would continue for as long as the Dairies provide professional maintenance of the RO system at this residence. The Dairies are not required to sample your well as part of the professional maintenance of the system.

EPA ref:
SDWA-10-2013-0080

Imagine the result

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.



Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project



ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 928 3369
Fax 509 928 3075
www.arcadis-us.com

[RecipientName]
[Address Max. 6 lines]

Subject:

OFFER OF PROFESSIONAL MAINTNENACE FOR YOUR EXISITING WATER FILTRATION SYSTEM AT NO CHARGE TO YOU

ENVIRONMENT

Dear Salutation:

ARCADIS U.S. Inc. (ARCADIS) and the Yakima Valley Dairies (the “Dairies”) wish to thank you for participating in our recent drinking well water sampling program. Your drinking water well was identified as being located within the Dairies or within one mile of the southern edge of the Dairies. During your sampling program, your residence was identified as having a reverse osmosis (RO) water filtration system (the “system”). This system is intended to provide a source of potable water for this residence.

Date:
[MonthDay,Year]

Contact:
Kevin M. Freeman, PG

Extension:
211

Email:
YakimaDairies@
arcadis-us.com

Our ref:
SK030326.0001.00001
SK030334.0001.00001
SK030335.0001.00001

EPA ref:
SDWA-10-2013-0080

The Dairies offer, at no cost to you, professional maintenance of the RO system installed at this residence. The Dairies will maintain the system so long as the residence is occupied, either by you or future owners/tenants. **The Dairies may discontinue maintenance of the system if the nitrate level in your drinking water well is below the MCL when measured on a quarterly basis over a two-year period.** Accepting the professional maintenance offer will oblige you (and/or future residents) to allow sampling of your well up to four times per year, if requested by the Dairies. Your obligation for sampling would continue for as long as the Dairies provide professional maintenance of the RO system at this residence. The Dairies are not required to sample your well as part of the professional maintenance of the system.

You may select one of the following Offers:

- **ONE** - Have your system professionally maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the **conditions** presented above.

Imagine the result

- **TWO** – Decline the offer of maintenance.

If you wish to select Offer ONE, call our toll-free number **855-509-WELL** [9355] and select Option **2**. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule maintenance of system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer TWO and are declining maintenance of your system.** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer this service. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.



Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project



Appendix B

Residential Well Sampling Records

No Sample

RESIDENTIAL WELL SAMPLING RECORD SAMPLE ID: RW-1001

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-2-30

Parcel No: 

Address: 

Sample Collection Team: Sehesta + Lyons

Weather (at time of sample collection) 79 F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

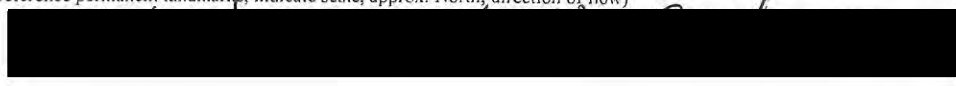
Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)


Chain-of-Custody Record No.
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

ARCADIS U.S., INC.
695 NORTH LEGACY RIDGE DRIVE
SUITE 200
LIBERTY LAKE, WASHINGTON 99019
509.928.3369

RO, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1002

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) Clear + 80°F

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): NA

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

NO SAMPLE

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1003

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-2-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) 79° F Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

R.O. System

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons


ARCADIS U.S., INC.
695 NORTH LEGACY RIDGE DRIVE
SUITE 200
LIBERTY LAKE, WASHINGTON 99019
509.928.3369



RESIDENTIAL WELL SAMPLING RECORD

RO, No Sample
 SAMPLE ID: *RW-1004*

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
		<i>RO</i>	<i>, No</i>			<i>SAMPLE</i>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
 *No Sample, has RO System*

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

RO system, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1006

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) Clear + 80°F

Treatment System Present: Yes [X] No _____ Type of Treatment System RO

Filters or Aerators Present: Yes [X] No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
	NA		Has		RO	SYSTEM	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Talked w/ [REDACTED] has RO system.

Chain-of-Custody Record No.

ABBREVIATIONS:


ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

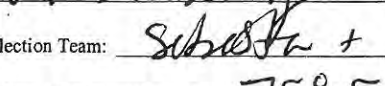
ARCADIS U.S., INC.
695 NORTH LEGACY RIDGE DRIVE
SUITE 200
LIBERTY LAKE, WASHINGTON 99019
509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1007

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: 

Address: 

Sample Collection Team: Schiff + Lyon

Weather (at time of sample collection) 75° F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Left Cord 6-3-12 @ 1200

Left Second Cord 6-19-13 @ 1020

Chain-of-Custody Record No. _____


ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-2008 1008

Project No: _____ Project Name: Yakima Valley Dairies Date: 0-3-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10-20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____


Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>0-3-13</u> <u>905</u>	<u>RW-1008</u>	<u>Plastic</u>	<u>250ml</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	<u>—</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1009

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
left Cord 6-3-13 @ 915
left second cord 6-19-13 @ 1220

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1010

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Subasta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes No _____ Type of Treatment System _____

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

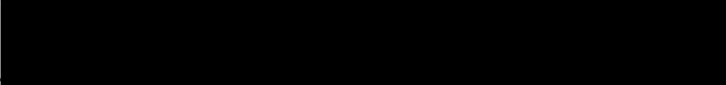
SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction of flow)

No Sample - RO System



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1011

Project No: _____ Project Name: Yakima Valley Dairies

Date: 5-30-13

Parcel No: 

Address: 2100 [Redacted]

Sample Collection Team: J. Dabney, L. Sebastia

Weather (at time of sample collection) Sunny, Cool

Treatment System Present: Yes _____ No

Type of Treatment System _____

Filters or Aerators Present: Yes _____ No

Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib @ well

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____

Test Strip Result: ~20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____

Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____

Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
5-30-13 1155	RW-1011		250	N	N	Nitrate	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Sample taken @ hose bib @ well behind house. Lots of chicken poop everywhere in well house.
[Redacted] present at sampling

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

cfs - cubic feet per second

gpm - gallons per minute

C - Celsius

gal. - gallons

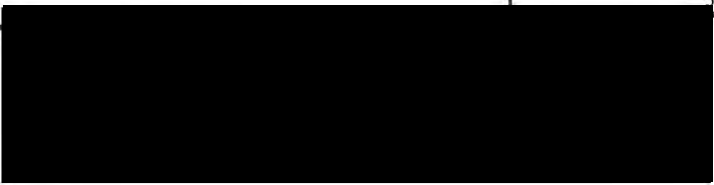
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SUITE 200

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1012

Project No: _____ Project Name: Yakima Valley Dairies

Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: L Sebesta J DeLong

Weather (at time of sample collection) Sunny Cool

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib outside of house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container <small>(glass, plastic)</small>	Quantity/ Vol.				
<u>5-30-13 1140</u>	<u>RW-1012</u>	<u>JD</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N.H. etc</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

present at sampling

He can forward results to

Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1013

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: [Redacted]

Address: [Redacted]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes [X] No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes [X] No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

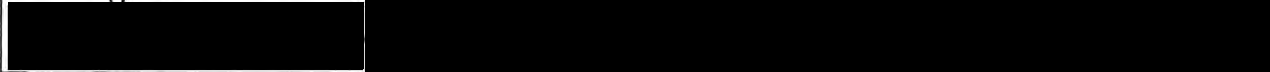
SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

RO System → No Sample



Chain-of-Custody Record No.

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1014
Date: 6-3-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: 

Address: 

Sample Collection Team: Sebastian Lyon

Weather (at time of sample collection) 75°

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 47454-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 50 ppm

QUALITY ASSURANCE


Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-3-13</u> <u>1907</u>	<u>RW-1014</u>	<u>plastic</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>_____</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Confirmed address w/ owner 

Chain-of-Custody Record No. _____


ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

NO Sample
 SAMPLE ID: *1015*

Project No: _____ Project Name: Yakima Valley Dairies Date: *6-2-13*

Parcel No: 

Address: 

Sample Collection Team: *Sebesta + Lyon*

Weather (at time of sample collection) *79° Clear*

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No


Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has R.O system


Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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NO SAMPLE

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-10116

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-2-13

Parcel No: [Redacted]

Address: [Redacted]

Sample Collection Team: Sebaste + Lyons

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

House [Redacted]

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1017

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 70° Clear

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
100%	RW-1017	Plastic	250 ml	N	N	Nitrates	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

talked w/ Homeowner [Redacted]

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1018

Project No: _____ Project Name: Yakima Valley Dairies Date: 11-2-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebastien + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
[REDACTED]

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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NO SAMPLE

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1019

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-2-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° F Clear

Treatment System Present: Yes [X] No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
RO System installed. spoke w/ [REDACTED]

Chain-of-Custody Record No.

ABBREVIATIONS:

ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1020

Project No: [Redacted] Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: [Redacted]

Address: [Redacted]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27464-25

Test Strip >5mg/l: Yes No Test Strip Result: 15

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-3-13</u>	<u>RW-1020</u>	<u>Poly</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

[Redacted Map Area]

Chain-of-Custody Report No.

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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NO Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1021

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian + Lisa

Weather (at time of sample collection) 72° F Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): N/A

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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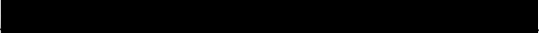
~~DATE~~

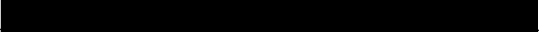
RO, SYSTEM, NO SAMPLE

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1022

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: 

Address: 

Sample Collection Team: Schista + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes No _____ Type of Treatment System _____

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

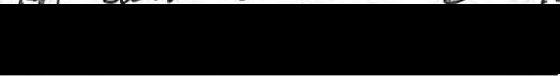
Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol				
	RO	SYSTEM, NO SAMPLE					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
WPA Card 6-3-13 @ 1140
 Has RO system.

Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1023

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-8-13

Parcel No: 

Address: 

Sample Collection Team: Sebastian + Lyon

Weather (at time of sample collection) 72° F Sunny

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

 → No Sample.
Left Card 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID RW-1024

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-19-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 78° F Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____


SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

15 ppm No Sample

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No Answer at Door - Left card, 6-3-13 @ 5pm
" Left second card, 6-19-13 @ 10:30

Chain-of-Custody Record No. 

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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 SUITE 200
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1025

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Schlotter + Lyon

Weather (at time of sample collection) 78° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): indoor faucet - Kitchen Sink

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27-45425

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-18-13</u> <u>1906</u>	<u>RW-1025</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	<u>Field Blank</u> <u>RW-3025</u> <u>@ 1900</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Wt Card 6-3-13 @ 1625

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1026

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) 75°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27954-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 10-15

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1303</u>	<u>RW-1026</u>	<u>Poly</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>nitrates</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Talked w/ _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1027

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: 

Address: 

Sample Collection Team: Subito Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10 ppm

QUALITY ASSURANCE

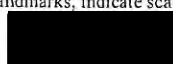

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1346</u>	<u>RW-1027</u>	<u>Plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>_____</u>

SAMPLING LOCATION MAP

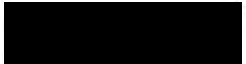
(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Spoke w/  Confirmed mailing address


Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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 6:30

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1028

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-10

Parcel No: _____

Address: _____

Sample Collection Team: Schreda + Lyons

Weather (at time of sample collection) 75° F Clear

Treatment System Present: Yes No _____ Type of Treatment System Kinetico

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) N/A

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
has RO system → No sample

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RO, NO SAMPLES

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1029

Project No: _____ Project Name: Yakima Valley Dairies Date: 4-18-13

Parcel No: [Redacted]

Address: [Redacted]

Sample Collection Team: Sebesta & Lyon

Weather (at time of sample collection) 78°F Clear

Treatment System Present: Yes [X] No [] Type of Treatment System RO System

Filters or Aerators Present: Yes [] No [X] Treatment System Bypassed or Filters/Aerators Removed: Yes [X] No []

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose Bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes [] No [] Test Strip Result: [Redacted]

QUALITY ASSURANCE

Nitrile Gloves: Yes [X] No [] Disinfect Hose Bib/Faucet: Yes [X] No []

Purge Water Before Hach Test: Yes [X] No [] Purge Water Prior to Collecting Sample: Yes [X] No []

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow) No Answer. left card 4-5-13 @ 1050am.



Chain-of-Custody Record No. ABBREVIATIONS: ft. - feet C - Celsius cfs - cubic feet per second gal. - gallons gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1030

Project No: -YVB Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: 
 Address: 

Sample Collection Team: John DeJong, Lisa Sebasta

Weather (at time of sample collection) Sunny, wind 10-15 from west, 70F

Treatment System Present: Yes No Type of Treatment System None known of

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib outside in back

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No Test Strip Result: 20 mg/l ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass/plastic)	Quantity/Vol.				
<u>5-28-13 1435</u>	<u>RW-1030</u>	<u>(glass/plastic)</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	
<u>5-28-13 1420</u>	<u>RW-3030</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>Blank</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
 approval given

Chain-of-Custody Record No. 

ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

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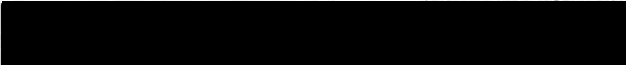



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1031

Project No: _____ Project Name: Yakima Valley Dairies

Date: 10-3-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 78°F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1726</u>	<u>RW-1031</u>	<u>Poly</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>—————</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1032

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta & Lyon

Weather (at time of sample collection) 78° F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Indoor faucet → NO HOSE BIB OUTSIDE

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 1ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

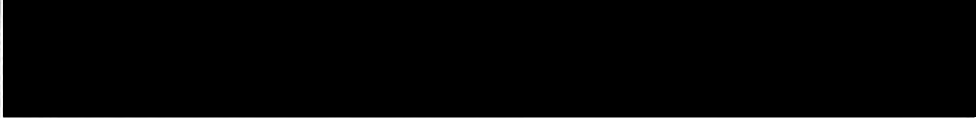
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

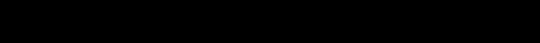
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW 1033

Project No: _____ Project Name: Yakima Valley Dairies Date: 4-3-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 78° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

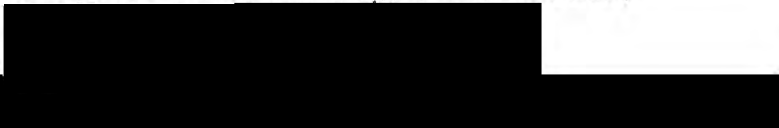
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____


ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1034

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 78°

Treatment System Present: Yes No Type of Treatment System RO System

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Has RO system - No sample collected

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1035

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian + Lyon

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib.

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>10/5/13</u>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

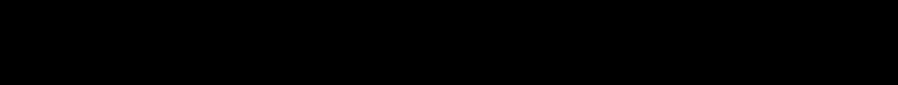


Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1037

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebestian + Lyon

Weather (at time of sample collection) 75° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27854-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 5-10

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

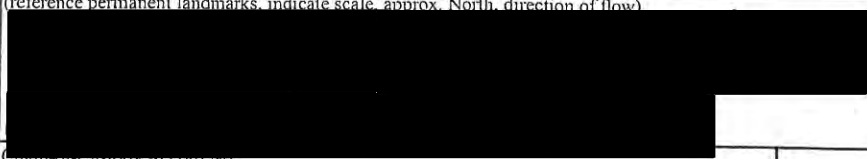
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-3-13</u> <u>01351</u>	<u>RW1037</u>	<u>Poly</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain of Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1038

Project No: _____ Project Name: Yakima Valley Dairies Date: 6/4/13

Parcel No: _____

Address: _____

Sample Collection Team: Schuster & Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

left cord @ 1305 6-4-13

No access - left second cord 6-18-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

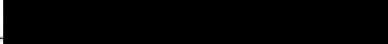
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25 ppm

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-10389

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE


Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)


Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1040

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: 

Address: 

Sample Collection Team: Suber + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has RO system
Spoke w/

Chain-of-Custody Record No. _____

ABBREVIATIONS:

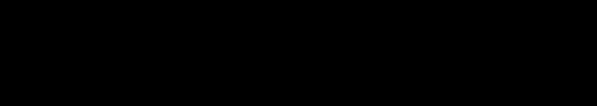
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

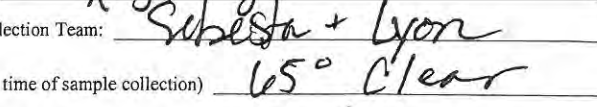
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695 NORTH LEGACY RIDGE DRIVE
SUITE 200
LIBERTY LAKE, WASHINGTON 99019
509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1041

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: 

Address: 

Sample Collection Team: Subista + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20-50 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

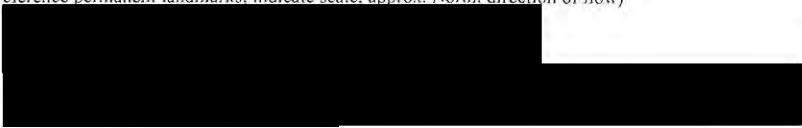
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date Time	Sample ID	Container (glass, plastic)	Quantity, Vol.				
<u>6-5-13</u> <u>847</u>	<u>1041</u>	<u>Plastic</u>	<u>250 ml</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	<u>RW-3041-18 blank</u> <u>@840</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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1042

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: ~~RW-1042~~ *RW-1042*

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesa + Lejon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 40 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>12:30 10-4-13</u>	<u>1042 RW-1042</u>	<u>Poly</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>—————</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow) well

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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10423

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-~~10423~~

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Selbst

Weather (at time of sample collection) 75° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27484-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 2-3 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
[Redacted Map Area]

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1014

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: _____

Address: _____

Sample Collection Team: J Delany Lisa Sebesta

Weather (at time of sample collection) Sunny, 70°F

Treatment System Present: Yes _____ No Type of Treatment System None (shoe well)

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH

Test Strip >5mg/l: Yes No JD Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>5-28-13 1525</u>	<u>RW-1014</u>	<u>(plastic)</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, arrow North, direction of flow)



Chart

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: HW-1045

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJony C. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes ~~___~~ No X Type of Treatment System _____

Filters or Aerators Present: Yes X No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No Not sure

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib on side of house. Front corner

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach

Test Strip >5mg/l: Yes X No _____ Test Strip Result: ~20

QUALITY ASSURANCE

Nitrile Gloves: Yes X No _____ Disinfect Hose Bib/Faucet: Yes X No _____

Purge Water Before Hach Test: Yes X No _____ Purge Water Prior to Collecting Sample: Yes X No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-28-13</u>	<u>HW-1045</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>-</u>
<u>07547</u>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Kearmore Ultra Soft 2-75

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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GPS - _____

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1046

Project No: Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: [REDACTED]
 Address: [REDACTED]

Sample Collection Team: J DeJong, Lisa Sebesta

Weather (at time of sample collection) Sunny, 75°F, Slight Breeze

Treatment System Present: Yes No Type of Treatment System

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib on side of house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27454

Test Strip >5mg/l: Yes No Test Strip Result: 10 → 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-28-13 1620</u>	<u>RW-1046</u>	<u>[REDACTED]</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u> </u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, arrow, North, direction of flow)
[REDACTED]

Chain-of-Custody Record No.

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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[REDACTED]

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1047

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJong, L Sebestea

Weather (at time of sample collection) Sunny, cool, 75°F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib on corner of house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.				
<u>5-28-13</u> <u>1640</u>	<u>RW-1047</u>	<u>plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1048

Project No: _____ Project Name: Yakima Valley Dairies Date: 4-4-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 83°

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No Test Strip Result: 10-15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>1642</u>	<u>RW-1048</u>	<u>Plastic</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-3048</u>	<u>1035</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

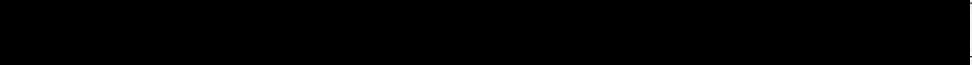
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1049

Project No: - Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: 

Address: 

Sample Collection Team: J. DeLong, L. Seberbesta

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib behind house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

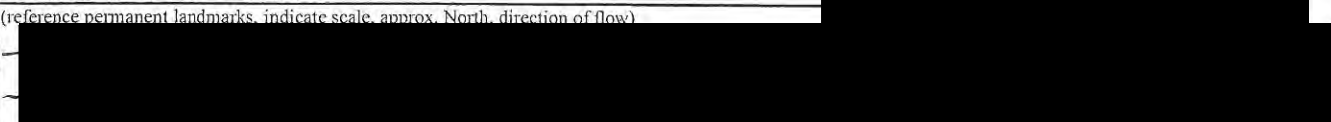
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>5-28-13</u> <u>21700</u>	<u>RW-1049</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Ni, Frate</u>	<u>-</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



FRAGMENT of NW.

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1051

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJong L. Sebastia

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Inside @ Faucet due to outside water

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

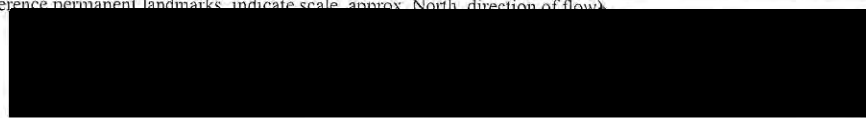
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>5-28-13</u> <u>1725</u>	<u>RW-1051</u>	<u>(glass, plastic)</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute



C - Celsius
 gal. - gallons

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GPS: 

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1052

Project No: _____ Project Name: Yakima Valley Dairies Date: _____
 Parcel No: 
 Address: 
 Sample Collection Team: Subrata Lyon
 Weather (at time of sample collection) 78°F Clear
 Treatment System Present: Yes _____ No _____ Type of Treatment System _____
 Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____
 Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____
 Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____
 Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

left Card 6-5-13 @ 1040.

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1053

15ppm, No Smell

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-19-13

Parcel No: _____

Address: _____

Sample Collection Team: Sedesta + Lyon

Weather (at time of sample collection) 83°

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction of flow)
left card - _____

Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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GIPS _____

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1054

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-28-13
 Parcel No: _____
 Address: _____

Sample Collection Team: J DeJoy, C Sebastia
 Weather (at time of sample collection) Sunny, 65°F, wind 10-15 from

Treatment System Present: Yes _____ No Type of Treatment System _____
 Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____
 Where Sample Was Taken (hose bib, indoor faucet, etc.): Faucet outside house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 2945U
 Test Strip >5mg/l: Yes No _____ Test Strip Result: 10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
 Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>5-28-13 1740</u>	<u>RW-1054</u>	<u>(plastic)</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>N, Frate</u>	<u>-</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction)


Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

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GPS-


No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1056

Project No: [Redacted] Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: [Redacted]

Address: [Redacted]

Sample Collection Team: J. DeJong, J. DeJong, L. Sebesta

Weather (at time of sample collection) Overcast, Cool

Treatment System Present: Yes No Type of Treatment System H₂O softener Not operated ever

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib @ Back of house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27154

Test Strip >5mg/l: Yes No Test Strip Result: ~1ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
5-29-13	RW-1056		250 mL	Y	N	N/A	
No Sample							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
[Redacted] present @ Sampling

Chain-of-Custody Record No.

ABBREVIATIONS:
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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GIS

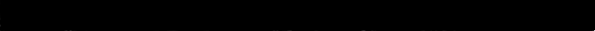


RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: *RW-1057*

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

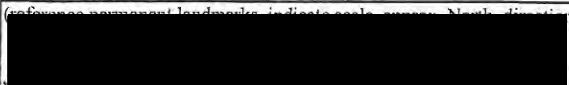
Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, compass North direction of flow)

 *left card 6-4-13*
left second card 6-18-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1058

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

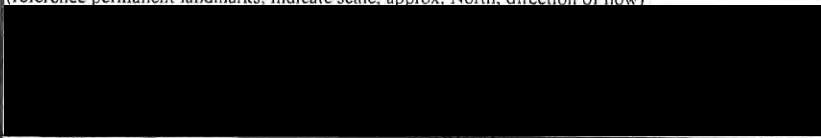
Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: **RW-1059**

Project No: _____ Project Name: Yakima Valley Dairies Date: _____
 Parcel No: _____
 Address: _____

Sample Collection Team: Subes Jr + Lyons

Weather (at time of sample collection) 83° F clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left Card 6-4-13 @ 1615
Left Card 6-19-13

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

25ppm, No Sample.

SAMPLE ID: RW-1060

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 62° F Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27484-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 1ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
 Appointment 6-10-13 @ SAM - [Redacted]
 GRS: [Redacted]

Chain-of-Custody Rec
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1061

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta & Lyon

Weather (at time of sample collection) 78° F Clear

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: _____

QUALITY ASSURANCE


Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left canal w/ 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1062

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: L. S. Sogata, F. Mott^{ID}, John DeJong

Weather (at time of sample collection) Sunny, cool

Treatment System Present: Yes _____ No X Type of Treatment System _____

Filters or Aerators Present: Yes _____ No X Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib on front of house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes X No _____ Test Strip Result: 5ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes X No _____ Disinfect Hose Bib/Faucet: Yes X No _____

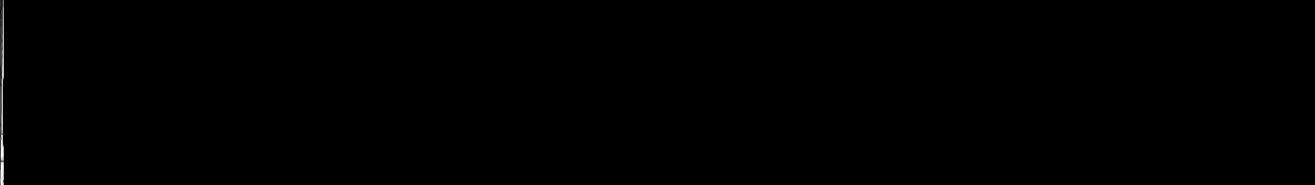
Purge Water Before Hach Test: Yes X No _____ Purge Water Prior to Collecting Sample: Yes X No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>5-30-13</u> <u>1005</u>	<u>RW-1062</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks; indicate scale, survey, North direction, etc.)

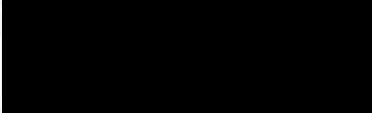


ft. - feet
cfs - cubic feet per second
gpm - gallons per minute

C - Celsius
gal. - gallons

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GPS:



25ppm No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1043

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____
Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 70° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
** owner denied access to well house. Owner filled Bottle from tap inside house while the sample team waited outside. Protocol not followed. No Sample Collected*

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1064

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) 80°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>10-4-13</u> <u>1400</u>	<u>RW-1064</u>	<u>Plastic</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

GIS [Redacted]

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW 10705

Project No: _____ Project Name: Yakima Valley Dairies Date: _____
 Parcel No: _____
 Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75°F Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Has RO System → [Redacted] confirmed via Phone.

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: *No Sample RW 1066*

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: 

Address:  *took pictures*

Sample Collection Team: J DeJoan, L. Seabaster

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO system for sink

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): No Sample

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

onsite and says RO system in place for all indoor water Model ERO-300E

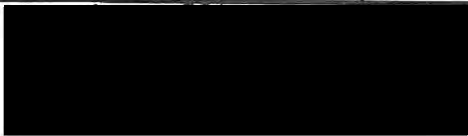
Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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GPS =



25 ppm No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1067

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No Test Strip Result: 2 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Spoke w/ home owner, < 5 ppm, No Sample collected.

GPS: _____

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1068

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-4-13

Parcel No: 

Address: 

Sample Collection Team: Schuster + Lyon

Weather (at time of sample collection) 77°F

Treatment System Present: Yes _____ No Type of Treatment System NA

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib, back of house.

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 87454-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 40 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

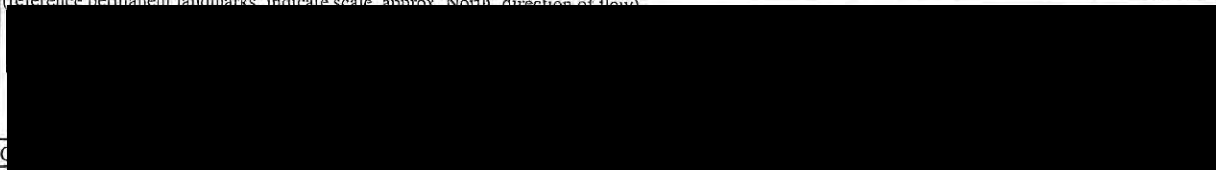
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>10/21</u>	<u>RW-1068</u>	<u>Plastic</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-20108</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RO System, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: 1069

Project No: _____ Project Name: Yakima Valley Dairies _____ Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: SebeSa + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Previously left card
left second card 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1070

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-8-13

Parcel No: 

Address: 

Sample Collection Team: Sebastian + Lyons

Weather (at time of sample collection) 78°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): outdoor/hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 1ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1071

Project No: _____ Project Name: Yakima Valley Dairies _____ Date: 5-29-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: L Sebesta, J. DeJong

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): utility sink inside house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes _____ No Test Strip Result: 1ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
5-29-13							

SAMPLING LOCATION MAP

(reference points for landmarks, indicate scale, approx. North, direction of flow)
[REDACTED] present

Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1072

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: 

Address: 

Sample Collection Team: Selvesta + Lyon

Weather (at time of sample collection) 78° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27424-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 5-10

QUALITY ASSURANCE

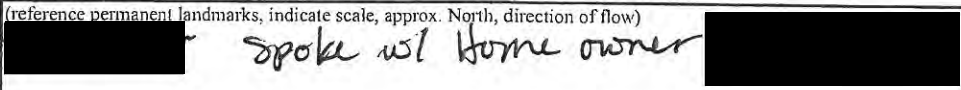
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

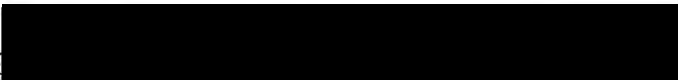
SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-3-13 1710</u>	<u>RW-1072</u>	<u>Plast</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>_____</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
 spoke w/ home owner

GPS

Chain-of-Custody R 

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
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 509.928.3369

15 ppm No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1073

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-4-13

Parcel No: 

Address: 

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

GPS 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

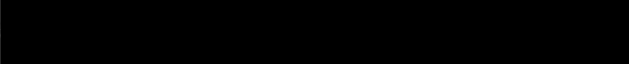
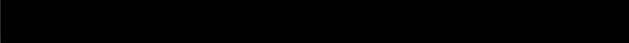
- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1074

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: 
 Address: 

Sample Collection Team: Sublette + Lyon

Weather (at time of sample collection) 78° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE


Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Test Strip 25. No Sample

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1075

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): nose bib/outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-4-13</u>							
<u>10/7</u>	<u>RW 1075</u>	<u>poly</u>	<u>250 ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-2075 @ 1020</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

GPS: _____

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

cfs - cubic feet per second

gpm - gallons per minute

C - Celsius

gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1076

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-19-13

Parcel No: _____

Address: _____

Sample Collection Team: Schiffa + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System none

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27 454 85

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

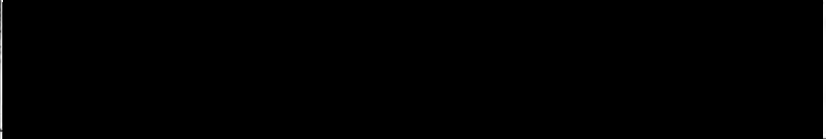
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>0951</u>	<u>RW-1076</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1077

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Left Cord 6-4-13 ~~1150~~
Left Second Cord 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1078

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJong, L Sebastia

Weather (at time of sample collection) Overcast, cool

Treatment System Present: Yes No _____ Type of Treatment System H₂O softener RO system at sink

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib near well Bypass to Sample

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>5-29-13</u> <u>1633</u>	<u>RW-1078</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>-</u>	

SAMPLING LOCATION MAP

Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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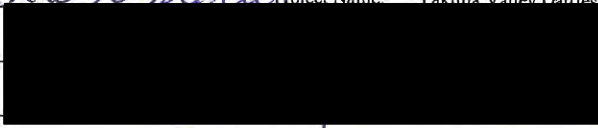
GPS

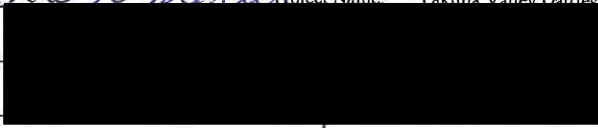
RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1079

Project No: SK030326-1000 Project Name: Yakima Valley Dairies

Date: 5/30/13

Parcel No: 

Address: 

Sample Collection Team: J DeJong L Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW1080

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13
 Parcel No: _____ 0833
 Address: _____

Sample Collection Team: J. DeJong, J. L. Sebastia

Weather (at time of sample collection) Sunny

Treatment System Present: Yes No _____ Type of Treatment System H₂O softener, RO system at

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No Sink

Where Sample Was Taken (hose bib, indoor faucet, etc.): No sample due to RO system

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

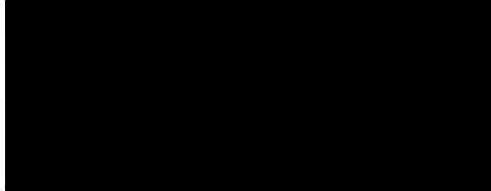
(reference permanent landmarks, indicate scale, approx. North, direction of flow)
- RO system not maintained per resident

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
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GPS
(Google)



RO System, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1081

Project No: _____ Project Name: Yakima Valley Dairies _____ Date: 10-20-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebasta + Lyons

Weather (at time of sample collection) 65° Cloudy

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

RO System No Sample

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Talked w/ [REDACTED] Confirmed mailing address

Chain-of-Custody Record No. [REDACTED]

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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SUITE 200
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1082

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: 

Address: 

Sample Collection Team: Subita + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Same well as RW-1083 (Hose bib outside)

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27424-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm (RW-1083)

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____


Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1083

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: 

Address: 

Sample Collection Team: Schesta + Lyons

Weather (at time of sample collection) 80°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25


Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

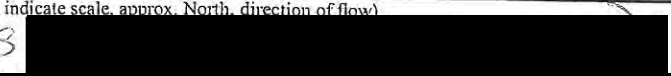
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

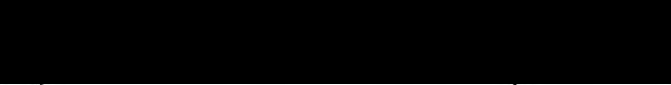
SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1052</u>	<u>RW-1083</u>	<u>Plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Same well as 

BPS 

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1084

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____ Address: _____ (See Below)

Sample Collection Team: J. DeJong, L. Sebesta

Weather (at time of sample collection) Sunny

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib by well

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-29-13</u> <u>1520</u>	<u>RW1084</u>	<u>Plastic</u>	<u>250 ml</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1085

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13
 Parcel No: _____
 Address: _____

Sample Collection Team: J De Jong, L Segesta

Weather (at time of sample collection) Overcast, 60°F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): At faucet outside, next to well

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 87454
 Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10 ppm

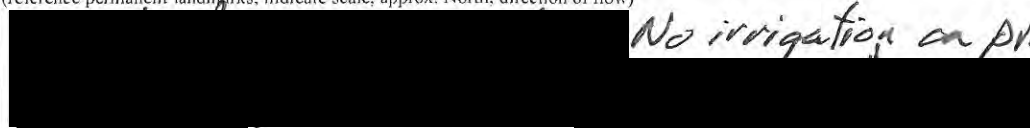
QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
 Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

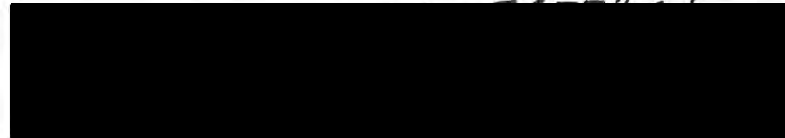
Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
5-29-13 0815	RW-1085		250	N	N	Nitrate	-	
0800	RW3085		250	N	N	Nitrate	Blank	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
 No irrigation on property

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

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GPS: 

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1086

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong, L. Sebastia

Weather (at time of sample collection) Sunny

Treatment System Present: Yes No _____ Type of Treatment System H₂O Softener, No RO system

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib by Carport.

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
5-30-13 0855	RW-1086	plastic	250	N	N	Nitrate	
0850	RW-3086		250	N	N	Nitrate	Blank

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

→ Same well

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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GPS

RESIDENTIAL WELL SAMPLING RECORD

BW
SAMPLE ID: 1087

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: L. Sebastia, J. DeJong

Weather (at time of sample collection) Sunny

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 2745 V

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
5-30-13 1615	RG-1087		250	N	N	N. frates	-	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
[REDACTED] present @ Sample [REDACTED]

Chain-of-Custody Record No.
ABBREVIATIONS:
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1088

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-19-13

Parcel No: _____

Address: _____

Sample Collection Team: Shelton + Lyon

Weather (at time of sample collection) 60° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
left Card previously (May 2013)
left second Card 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID:

RW-1089

Project No: _____ Project Name: Yakima Valley Dairies

Date: 5/30/13

Parcel No: _____

Address: _____

Sample Collection Team: _____

J DeJong L Seibert

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip > 5mg/l: Yes _____ No _____

Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____

Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____

Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

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see next sheet

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1090A

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeLong, L. Sebastia

Weather (at time of sample collection) Sunny, warm

Treatment System Present: Yes No _____ Type of Treatment System Peroxide 25ppm tested

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Tap in kitchen

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH-27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm @ 1090A

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass/plastic)	Quantity/Vol.					
<u>5-30-13 7:50</u>	<u>RW-1090A</u>	<u>plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N, frate</u>	<u>-</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain of Custody Record No. _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1090B

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong, L. Sebastia

Weather (at time of sample collection) Sunny

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside well house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

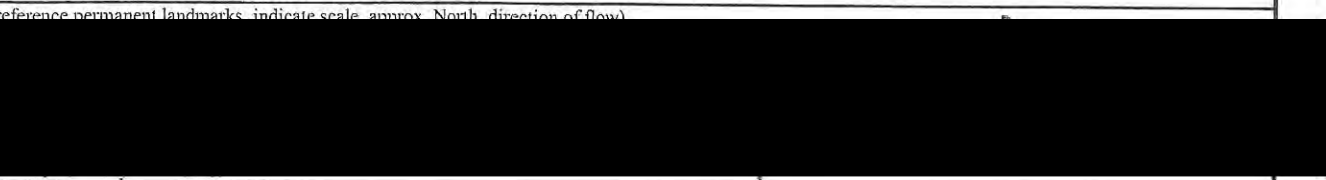
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>5-30-13 1055</u>	<u>RW-1090B</u>	<u>6</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>-</u>	

SAMPLING LOCATION MAP



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: *Rw-1091*

Project No: _____ Project Name: *Yakima Valley Dairies* Date: ~~5-27-13~~ *5-30-13*

Parcel No: 

Address: 

Sample Collection Team: *J. DeJong, L. Sebesta*

Weather (at time of sample collection) *Sunny, cool.*

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): *hose bib in back of house*

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) *HACH 27454*

Test Strip >5mg/l: Yes No _____ Test Strip Result: *10*

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample ~~Yes~~ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.					
<i>5-30-13 1538</i>	<i>Rw-1091</i>	<i>(plastic)</i>	<i>250</i>	<i>N</i>	<i>N</i>	<i>N. Probe</i>	<i>-</i>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direct)

0243 - leave card @ 

5-30-13  present @ sampling

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1092

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____
 Address: _____ (send to PO Box)

Sample Collection Team: J. DeJong, L. Sebastia

Weather (at time of sample collection) Sunny, warm

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib on well house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-29-13</u> <u>1540</u>	<u>RW-1092</u>	<u>(glass, plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N. Frate</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Present at Sample

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1093

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong C. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib outside house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
5-29-13 0857	RW-1093	plastic	250	N	N	Nitrate	—
0900	RW-2093		250	N	N	Nitrate	DUP

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1095

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJong, L. Schesta

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System H₂O Softener - (Kammore Ultra Soft)

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>5-29-13</u> <u>0930</u>	<u>RW-1095</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>—</u>		

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Sampled after H₂O Softener

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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GPS: _____

5 resident

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1096

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____
Address: _____

Sample Collection Team: J. DeJong, L. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System the softener in house not before sample point

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib.

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~20ppm

QUALITY ASSURANCE

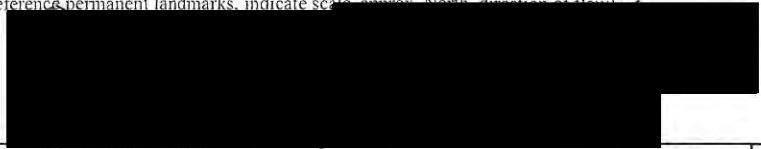
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

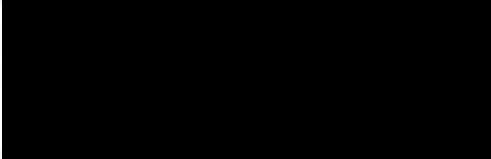
Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>5-29-13</u> <u>0945</u>	<u>RW-1096</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N, Frate</u>	<u>-</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, compass North, direction of flow)
 present at sampling

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1097

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong, G. Sebesty

Weather (at time of sample collection) Sunny, wind from west

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 710ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-30-13 13:55</u>	<u>RW-1097</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>N.trate</u>	
<u>13:50</u>	<u>RW-3097</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate = Blank</u>	

SAMPLING LOCATION MAP

(reference _____ approx. North, direction of flow)

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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(Google)

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1098

Project No: _____ Project Name: Yakima Valley Dairies Date: 5/30/13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong L. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

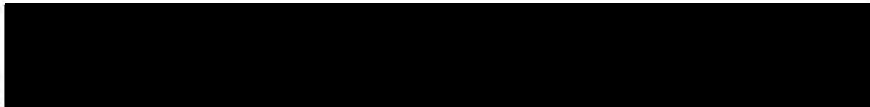
Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1099

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJony, L. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System H₂O softener & unable to Bypass

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): facility sink in house. No hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27434

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>5-29-13</u> <u>11:20</u>	<u>RW1099</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N. treat -</u>	<u>-</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx)

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1100

Project No: _____ Project Name: Yakima Valley Dairies

Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong, L. Sebesta

Weather (at time of sample collection) Overcast 60°F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No NA Treatment System Bypassed _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27452

Test Strip >5mg/l: Yes No _____

Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____

Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____

Purge Water Prior to Collecting Sample Yes No _____

SAMPLING INVENTORY

5-29-13
↓

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
1055	RW-1100	1	250	N	N	Nitrate	
1055	RW2100	1	250	N	N	"	Dup.

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale)

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

cfs - cubic feet per second

gpm - gallons per minute

gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1101

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____
 Address: _____

Sample Collection Team: J. DeJong, L. Sebastia

county provided pays maintenance

Weather (at time of sample collection) Rainy, overcast, 60F

Treatment System Present: Yes No _____ Type of Treatment System RO. system at site

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib H₂O softener is after bib in house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
5-29-13 1420	RW-1101	plastic	250	N	N	N.trate	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow.)

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

[Redacted signature and notes]

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW 1102

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: L. Sebastan, J. DeJong

Weather (at time of sample collection) Sunny, cool, breezy

Treatment System Present: Yes No _____ Type of Treatment System H₂O softener bypassed

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>5-30-13</u> <u>0940</u>	<u>RW-1102</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	
<u>0945</u>	<u>RW-2102</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>Dup</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left a card at the house on 5-29-13 @ 1230

PRESENT Chain of Custody Sampling house hose bib

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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GPS-

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1103

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJoan, V. Soltesfy

Weather (at time of sample collection) cool, overcast

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Removed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10ppm

QUALITY ASSURANCE

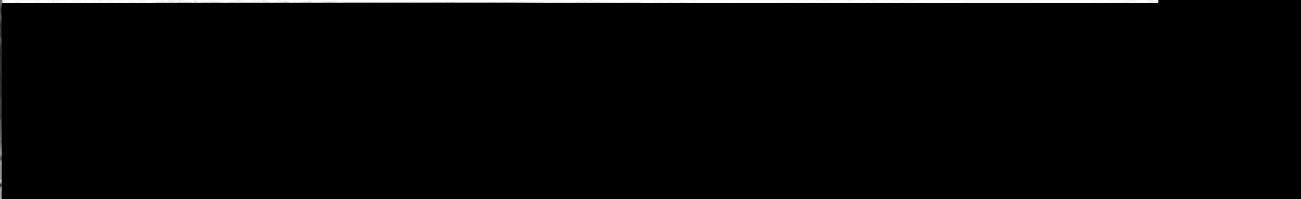
Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.				
5-29-13 1110	RW-1103	<u>plastic</u>	250	N	N	Nitrate	-

SAMPLING LOCATION MAP



ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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GPS



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: 1105

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-20-13

Parcel No: [REDACTED]
 Address: [REDACTED]

Sample Collection Team: Sebeston + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): and Hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>6-20-13</u>	<u>RN-1105</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Talked w/ [REDACTED]
GPS [REDACTED]

Chain-of-Custody

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1187

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong, L. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System NA

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc) _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1225</u> <u>5-29-13</u>	<u>RW-1187</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N. Frate</u>	<u>-</u>
<u>1230</u>	<u>RW-2187</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>N. Frate</u>	<u>-</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

_____ resident

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute

C - Celsius
 gal. - gallons

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GPS- _____

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1109
 Date: 5/29/13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: J. De Jong L. Sebastia

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: AW-1110

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJong, L. Sebastia

Weather (at time of sample collection) Sunny, warm

Treatment System Present: Yes _____ No X Type of Treatment System _____

Filters or Aerators Present: Yes _____ No X Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes X No _____ Test Strip Result: 10ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes X No _____ Disinfect Hose Bib/Faucet: Yes X No _____

Purge Water Before Hach Test: Yes X No _____ Purge Water Prior to Collecting Sample: Yes X No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-30-13</u> <u>1430</u>	<u>AW-1110</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>-</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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GPS: _____

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1111
Date: 6-18-19

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Srinivas + Lynn

Weather (at time of sample collection) 65° F Overcast

Treatment System Present: Yes _____ No Type of Treatment System none

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Outdoor Hose Bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27-45425

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-7 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>6-18-19</u>	<u>KW-1111</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

owner not home. left card 6-6-19 @ 10:30

Confirmed mailing address

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
C - Celsius
cfs - cubic feet per second
gal. - gallons
gpm - gallons per minute

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GPS: _____

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1112

Project No: _____ Project Name: Yakima Valley Dairies

Date: ~~6-6-13~~
6-19-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian + Lyon

Weather (at time of sample collection) 78° clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27404-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass <input checked="" type="checkbox"/> plastic)	Quantity/ Vol.				
<u>7/5/12</u>	<u>RW-1112</u>	<input checked="" type="checkbox"/>	<u>250</u>	<u>NO</u>	<u>NO</u>	<u>Nitrate</u>	<u>RW-1112</u> <u>@1800</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

NO ANSWER LEFT CARD

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1113Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: _____

Address: _____

Sample Collection Team: Schesta + LyonWeather (at time of sample collection) 90°F ClearTreatment System Present: Yes No _____ Type of Treatment System RO SystemFilters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

RO-System

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons**ARCADIS U.S., INC.**
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1114

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13
6-19-13
 Parcel No: _____
 Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 83° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1705</u>	<u>RW-1114</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitates</u>	<u>Blank RW-3114 @ 1700</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

left card 6-4-13 @ 1800

[Redacted] - Confirmed address

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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GPS

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1115

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta & Lyon

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hosebib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

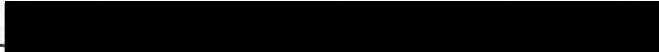
SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>6/25</u>	<u>RW-1115</u>	<u>Poly</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nutrades</u>		

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



GPS: 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1116
Date: 6-4-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): indoor faucet

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: ~5 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

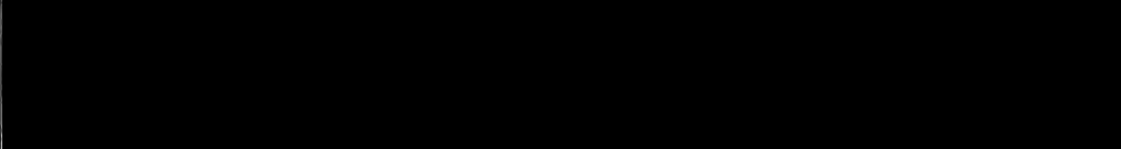
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-4-13</u>							
<u>1945</u>	<u>RW-1116</u>	<u>Plastic</u>	<u>250</u>	<u>M</u>	<u>N</u>	<u>Nitrates</u>	<u>—————</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: **RW1117**

Project No: _____ Project Name: Yakima Valley Dairies Date: _____
 Parcel No: _____
 Address: _____

Sample Collection Team: Schuster + Lyon

Weather (at time of sample collection) 83° F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left Cord 6-11-13 @ 1915
No Answer at door. left second cord. 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1118

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13
6-19-13
 Parcel No: _____
 Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 83°F Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 87454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

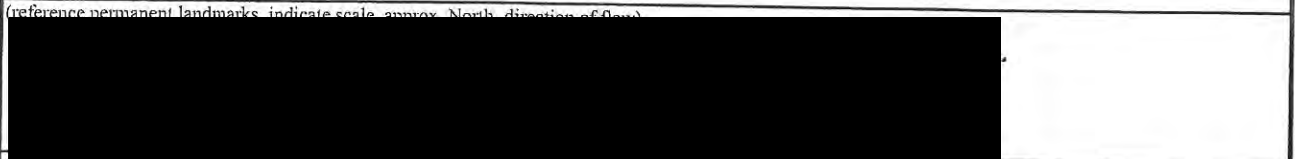
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.				
<u>1720</u>	<u>RW-1118</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>		

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction of flow)



Chain of Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1119

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80 Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Same as RW-1115

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
		<u>Same as</u>	<u>RW-1115</u>				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- C - Celsius
- cfs - cubic feet per second
- gal. - gallons
- gpm - gallons per minute

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509.928.3369

R0 - No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1120

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Schesta + Lyon

Weather (at time of sample collection) 83° Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has RO system



Cha

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1121
Date: 6-4-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System NA

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): outside - spigot

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1752</u>	<u>RW-1121</u>	<u>Poly</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP



ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1122

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: 

Address: 

Sample Collection Team: _____

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bibs

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 40 ppm

QUALITY ASSURANCE

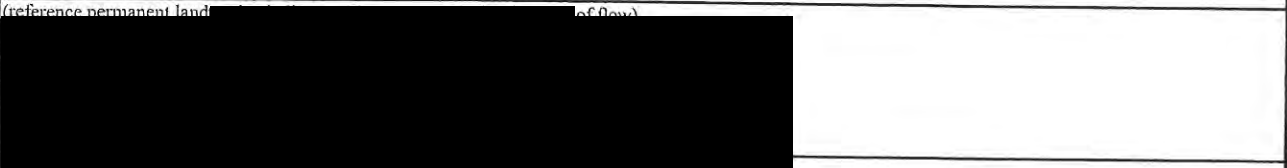
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1510</u>	<u>RW-1122</u>	<u>Poly</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	

SAMPLING LOCATION MAP



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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No Sample (RO)

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1123

Project No: _____ Project Name: Yakima Valley Dairies Date: 12-4-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes [X] No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction of flow)
RO System → [REDACTED]

Chain-of-Custody Record No. _____

ABBREVIATIONS:

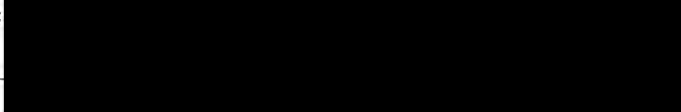
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

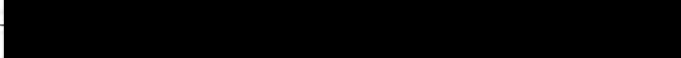
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1124

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: 

Address: 

Sample Collection Team: Shelton + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 30-40 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

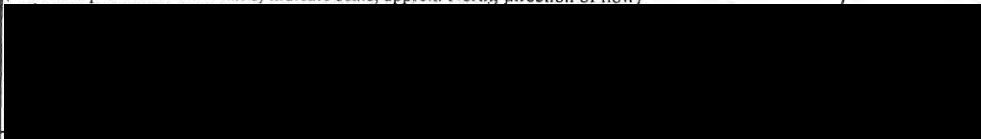
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1734</u>	<u>RW-1124</u>	<u>Poly</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW 1125

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-28-13

Parcel No: _____

Address: _____

Sample Collection Team: J DeJong Lisa Sabiesty

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No X Type of Treatment System _____

Filters or Aerators Present: Yes _____ No X Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside well "house"

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH

Test Strip >5mg/l: Yes X No _____ Test Strip Result: 20 ppb

QUALITY ASSURANCE

Nitrile Gloves: Yes ✓ No _____ Disinfect Hose Bib/Faucet: Yes ✓ No _____

Purge Water Before Hach Test: Yes ✓ No _____ Purge Water Prior to Collecting Sample: Yes ✓ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-28-13 1605</u>	<u>RW-1125</u>		<u>2 ppm</u>	<u>N</u>	<u>N</u>	<u>N. fault</u>	<u>-</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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GPS



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1126

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) See RW-1127

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
	<u>See RW-1127</u>						

SAMPLING LOCATION MAP

(See sample results for RW-1127
6-4-13
@1706)

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1127
Date: 6-4-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) 83° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA

Where Sample Was Taken (hose bib, indoor faucet, etc.): indoor, kitchen sink

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10-15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

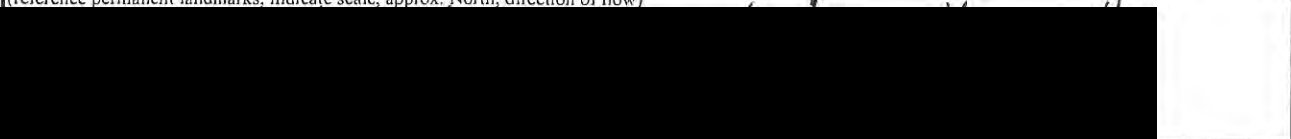
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1700</u> 1700	<u>RW-1127</u>	<u>Plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-2127 1707</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute

C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1128

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-4-13

Parcel No: _____

Address: _____

Sample Collection Team: Schuster + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) See sample RW-1127

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

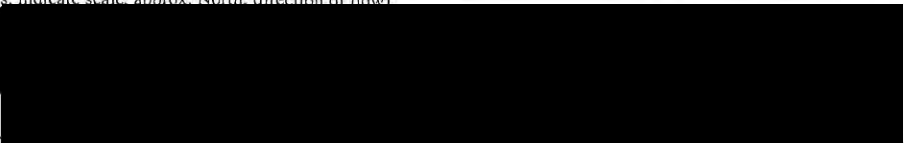
Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>See sample RW-1127</u>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Same well 

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1129

Project No: _____ P: _____ Yakima Valley Dairies _____ Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Subasta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Left Card @ 1400 6-5-13

Left Second Card 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

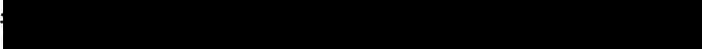
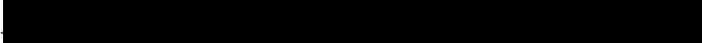
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1129

Project No: SK030335 Project Name: Yakima Valley Dairies

Date: 9/18/13

Parcel No: 
 Address: 

Sample Collection Team: T Muller

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System Wtr Softener - Bypassed

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Out door hose bib by Driveway

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

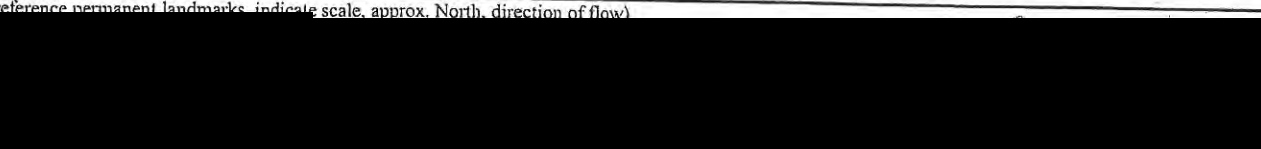
SAMPLING INVENTORY

9/18/13

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1320</u>	<u>RW-1129</u>	<u>P</u>	<u>1</u>	<u>Y</u>	<u>-</u>	<u>HCO3</u>	
<u>1320</u>	<u>RW-1129</u>	<u>P</u>	<u>1</u>	<u>Y</u>	<u>-</u>	<u>HCO3</u>	<u>FTD</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

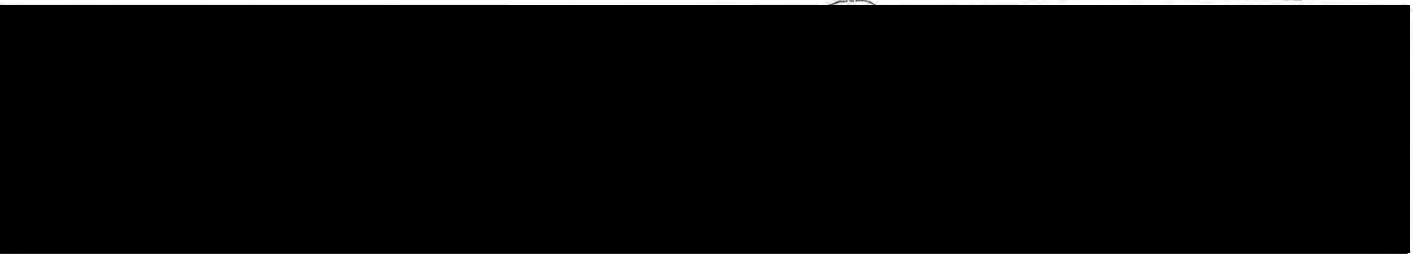


Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1130

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Schubert + Lyon

Weather (at time of sample collection) 86° Clear

Treatment System Present: Yes _____ No Type of Treatment System —

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): outside hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 6ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

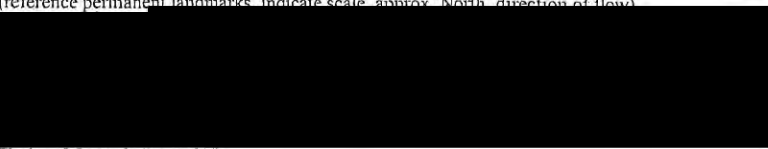
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1341</u>	<u>RW-1130</u>	<u>Plastic</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1137

Project No: _____ Project Name: Yakima Valley Dairies Date: 6/19

Parcel No: _____ Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) 65° Lyons Ave

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 2 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left Hand 6-5-13
spoke w/ [redacted]

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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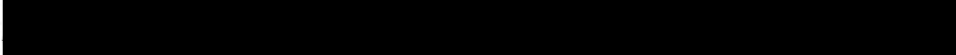
GPS: [redacted]

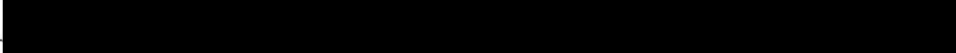
< 5ppm, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1132

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 86° F Clear

Treatment System Present: Yes _____ No Type of Treatment System NA

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 2 ppm

QUALITY ASSURANCE

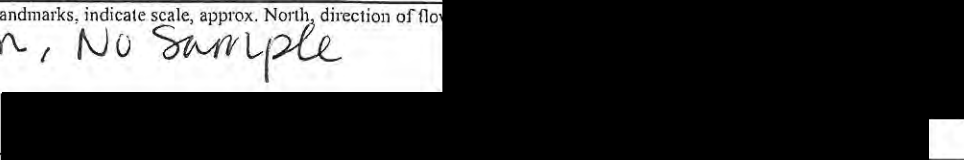
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
< 5ppm, No Sample
GPS 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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RO System, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: *RW-1133*

Project No: _____ Project Name: *Yakima Valley Dairies* Date: ~~*6-4-13*~~

Parcel No: _____ *6-19-13*

Address: _____

Sample Collection Team: *Schmitt & Lyon*

Weather (at time of sample collection) *80° Clear*

Treatment System Present: Yes No _____ Type of Treatment System *RO System*

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<i>NO Sample RO System</i>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left Card 6-5-13 @ 1145
No Answer. Left Second Card 6-19-

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW 1134

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-19-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes None No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10-15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No Disinfect Hose Bib/Faucet: Yes No _____

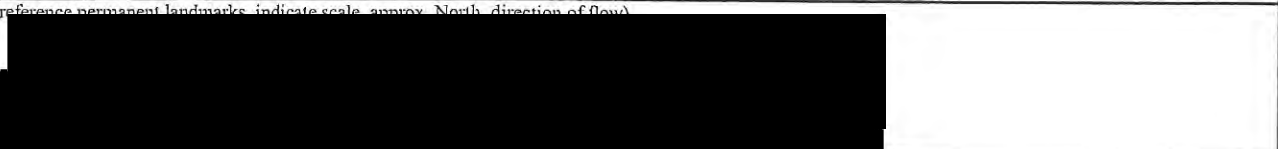
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>10/14</u>	<u>RW-1134</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	<u>RW-2134</u> <u>@ 1420</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



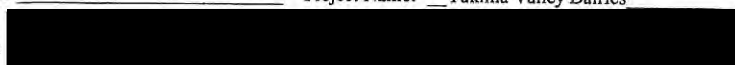

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: **RW-1135**

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-19-13
 Parcel No: 
 Address: 

Sample Collection Team: Schubert + Lopez

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<i>Refused Sampling</i>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No Answer. left card. 6-5-13 @ 1315
~~*"left second card 6-19-13"*~~

 *Refused Sampling*

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1136

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: _____

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

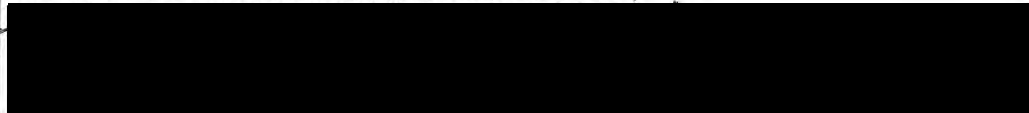
Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RN-1137

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 90° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No Answer left Card 6-5-13 @ 1645.
No Answer left Card 6-19-13 @ 1954

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

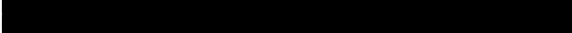
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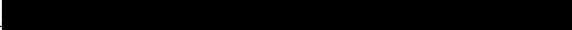
RO system, no sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1138

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: 

Address: 

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 91° F Clear

Treatment System Present: Yes No _____ Type of Treatment System _____

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) NA

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has RO system.

Talked w/ 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1139

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 90°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside - at well

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 30 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
1719	RW-1139	Plastic	250	N	N	Nitrates	RW-31391715

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

GPS: _____

Chain-of-Custody

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1140

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian + Lyons

Weather (at time of sample collection) 90° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

same well as [REDACTED]

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1141
Date: 6-6-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____
Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 83° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hosebib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 40 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

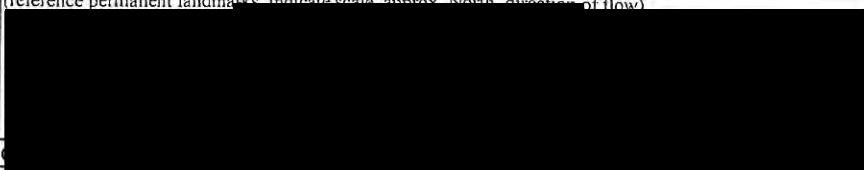
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1116p</u>	<u>RW-1141</u>	<u>Plastic</u>	<u>200</u>	<u>N</u>	<u>N</u>	<u>Nitates</u>	<u>RW-2141 @ 11:20</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: 1142
 Date: 6-6-13

Project No: _____ Project Name: Yakima Valley Dairies
 Parcel No: _____
 Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 92° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-Q5

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

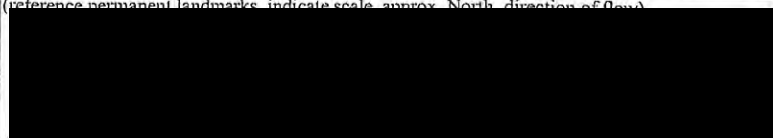
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6/6/13</u>	<u>RN-1142</u>	<u>Plastic</u>	<u>650ml</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction of flow)



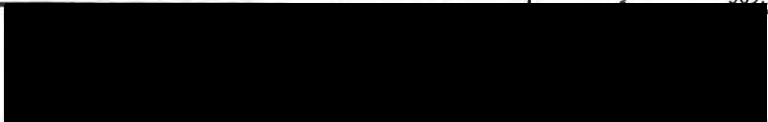
Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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GPS:



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1143

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: _____

Address: _____

Sample Collection Team: _____

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction, etc.)
Same Sample _____

Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1144

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyons

Weather (at time of sample collection) 70° Sunny

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Left Card

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE RW-1145

Project No: _____ Project Name: Yakima Valley Dairies Date: 12-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 90° Clear

Treatment System Present: Yes _____ No Type of Treatment System NB

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 40ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
17 Feb	RW-1145	Plastic	250	N	N	Nitrates	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

GPS _____

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

R.O. System No Sample

SAMPLE ID: *RW-1146*

Project No: _____ Project Name: *Yakima Valley Dairies* Date: *10-5-14*

Parcel No: _____

Address: _____

Sample Collection Team: *Schesta + Lyons*

Weather (at time of sample collection) *89°F Clear*

Treatment System Present: Yes No _____ Type of Treatment System *RO SYSTEM*

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): *NA*

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

R.O. System at house.

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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No sample - left card

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1147

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 90°F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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Sample, Dist. Dist.

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1148

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-19-13

Parcel No: _____

Address: _____

Sample Collection Team: Schebler + Lyons

Weather (at time of sample collection) 90° Clear 105° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): indoor faucet - Kitchen Sink

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
1023	RW-1148	(plastic)	250	N	None	Nitrates	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No answer - Left Card

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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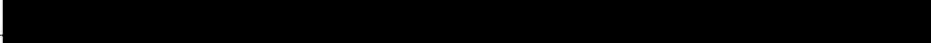
GPS



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1149

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: 

Address: 

Sample Collection Team: J. DeLong, L. Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO system in kitchen @ faucet

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Soft H₂O tank as well

HACH TEST Sunnyside soft H₂O Reo-Pure RO system-

INSTRUMENTS (indicate make, model, i.d.) HACH

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE


Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

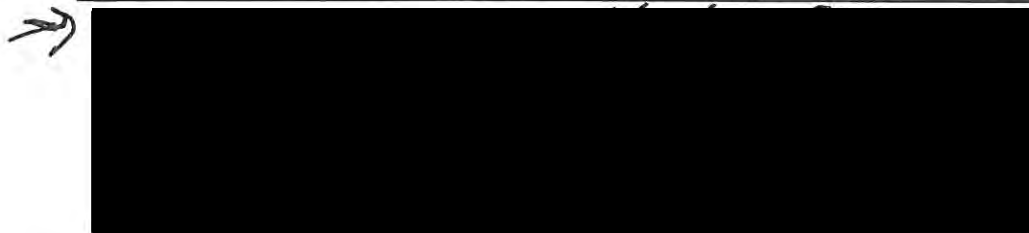
Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-29-13</u> <u>1155</u>	<u>RW-1149</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)


Chain-of-Custody Record No. nose bib
ABBREVIATIONS:
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: AW-1150

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____

Address: _____

Sample Collection Team: J. Delong

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO System @ Sink

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): No Sample B/c RO System

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

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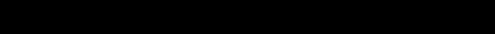
RO system, no sample

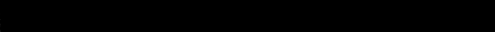
RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: PW-1151

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-6-13

Parcel No: 

Address: 

Sample Collection Team: Sebastian + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO R.O System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has RO, confirmed Address w/ 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1152

Project No: _____ Project Name: Yakima Valley Dairies

Date: 5-29-13

Parcel No: _____

Address: _____

Sample Collection Team: J. DeJody L. Sebastia

Weather (at time of sample collection) Sunny

Treatment System Present: Yes _____ No

Type of Treatment System _____

Filters or Aerators Present: Yes _____ No

Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No _____

Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____

Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____

Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.					
<u>5-29-13</u> <u>1655</u>	<u>RW-1152</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>-</u>	
<u>1655</u>	<u>RW-2152</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>-</u>	

SAMPLING LOCATION

direction of flow) _____

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1153

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Schebsta + Lyons

Weather (at time of sample collection) 90° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib - outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1541</u>	<u>RW-1153</u>	<u>plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Co. formed address and owner.

GPS

Chain-of-Custody R _____

ABBREVIATIONS:

ft. - feet

cfs - cubic feet per second

gpm - gallons per minute

C - Celsius

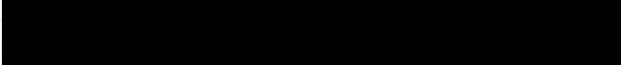
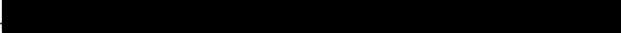
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1154

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: 
 Address: 

Sample Collection Team: Sabrina + Lyon

Weather (at time of sample collection) 85° F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Confirmed mailing address.

GPS 

Chain-of-Custody Recd _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1155

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Sehesta + Lyon

Weather (at time of sample collection) 96° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

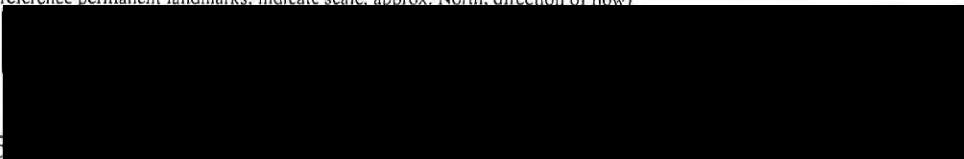
Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

 Refused Sample

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1156

Project No: _____ Project Name: Yakima Valley Dairies Date: 1

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta

Weather (at time of sample collection) 80°F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No Answer left Card - 6-15-13 @ 1200
No Answer. left Stoolal card 6-19-13 @ 1315

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1157

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Schlesinger + Lyon

Weather (at time of sample collection) 86° F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
NO ANSWER left card 6-5-13 @ 1300
NO ANSWER left second card 6-19-13 @ 1300

Chain-of-Custody Record No. _____


ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

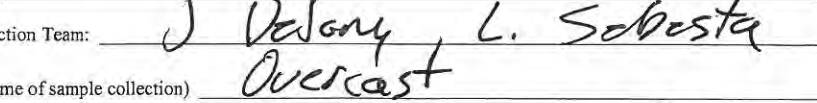
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1158

Project No: - Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: 

Address: 

Sample Collection Team: J. DeJony, L. Sobesta

Weather (at time of sample collection) Overcast

Treatment System Present: Yes No Type of Treatment System Reverse osmosis - at sink only

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No 2.5 gallon

Where Sample Was Taken (hose bib, indoor faucet, etc.): Eco system

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH 27454

Test Strip >5mg/l: Yes No Test Strip Result: ~20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

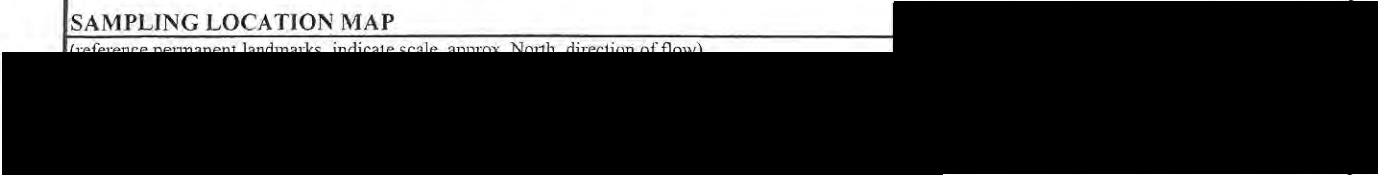
Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
5-29-13 1008	RW-1158		250ml	N	N	Nitrates	-	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



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GPS: 

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1159

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebastian Lyon

Weather (at time of sample collection) 70° Sunny

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10-20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6-8-13</u> <u>1031</u>	<u>RW-1159</u>	<u>plastic</u>	<u>250ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-2157</u> <u>@1035</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RW-1160

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1181a

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-5-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebesta & Lyon

Weather (at time of sample collection) 83° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10-20 ppm

QUALITY ASSURANCE

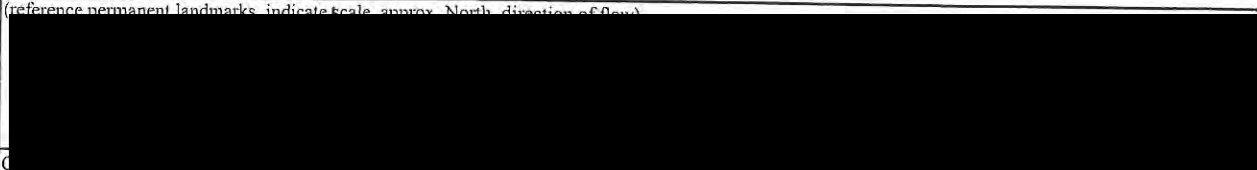
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1223</u>	<u>RW-1181a</u>						

SAMPLING LOCATION MAP



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RW-1141

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1181

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-5-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Schellon + Lyon

Weather (at time of sample collection) 83°F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 6 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
1211	RW1181	250					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
OWNER [REDACTED]
GPS [REDACTED]

Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1162

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65°F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

left card 4-10-13 @ 1148 0840
left second card 6-20-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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< 5ppm, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1103

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sebasta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System [REDACTED]

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
[REDACTED]

Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

ARCADIS U.S., INC.
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GFB

[REDACTED]

RO System No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1164

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____

Address: _____

Sample Collection Team: Schroder + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left side to 5-13 @ 715
Called Back Has RO System

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1165

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-5-13

Parcel No: _____
 Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 85° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib out side

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: ~10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____


Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1926</u>	<u>RW-1165</u>	<u>Plastic</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1166

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebestin + Lyon

Weather (at time of sample collection) 53° F Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>RO System -> NO Sample</u>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No Answer - Left Hand. 6-6-13
mail confirmed

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1167

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Schlesinger & Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

- left card

" - left second card 6-20-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-11128

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-6-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sabeeta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Left Card
Left second card 6-20-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1169

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1508</u>	<u>RW-1169</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>RW-1169</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Confirmed address.

Chain of Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RO System, No Sample.

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: *RW-1170*

Project No: _____ Project Name: *Yakima Valley Dairies* Date: *10-6-13*

Parcel No: _____

Address: _____

Sample Collection Team: *Schiffa + Lyon*

Weather (at time of sample collection) *84° Clear*

Treatment System Present: Yes No _____ Type of Treatment System *RO System*

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip > 5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

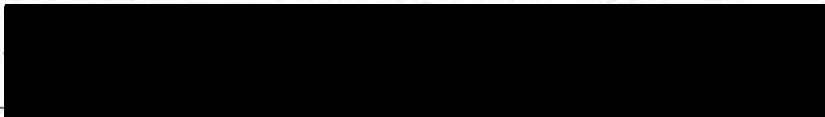
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

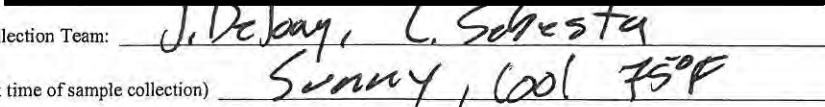
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1171

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: 

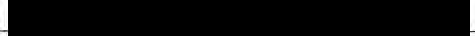
Address: 

Sample Collection Team: J. DeJoy, L. Sobesta

Weather (at time of sample collection) Sunny, cool 75°F

Treatment System Present: Yes _____ No Type of Treatment System None known of

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib 

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) HACH

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

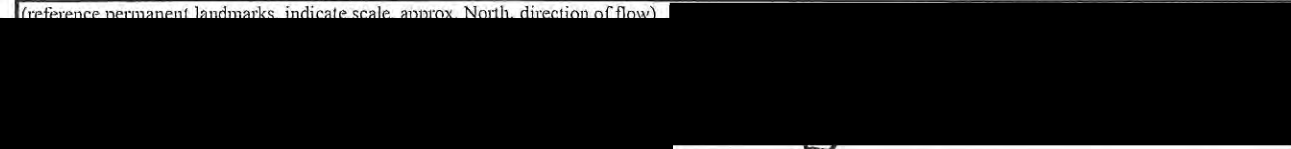
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>5-30-13</u> <u>1500</u>	<u>RW-1171</u>	<u>(glass, plastic)</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>N. Frantz</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



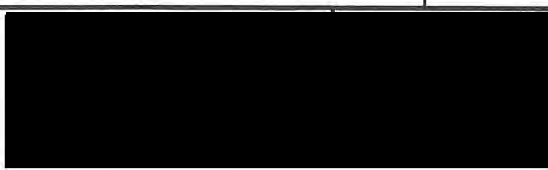
Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

hose bib **ARCADIS U.S., INC.**
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 509.928.3369

GPS:



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1172

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-29-13

Parcel No: _____
Address: _____

Sample Collection Team: J. DeJong, L. Sebastia

Weather (at time of sample collection) overcast

Treatment System Present: Yes No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) Hach 27454

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
<u>5-29-13 1435</u>	<u>RW-1172</u>		<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrate</u>	<u>—</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
present at sampling.

Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

_____ U.S., INC.
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GAS



No Sample - RO System

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1173

Project No: _____ Project Name: Yakima Valley Dairies Date: 5/30/13

Parcel No: _____

Address: _____

Sample Collection Team: Sheridan + DeJongh

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO and Softener

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): No Sample

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Same well as [redacted]

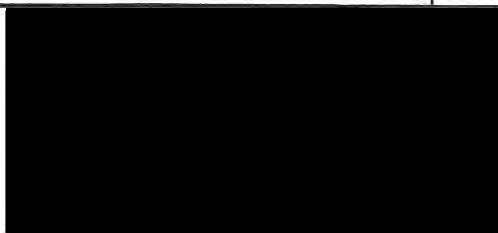
Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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SUITE 200
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509.928.3369

GPS
(Google)



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1174

Project No: _____ Project Name: Yakima Valley Dairies Date: 5-30-13

Parcel No: _____
 Address: _____

Sample Collection Team: J DeJong, C Sebesty

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO@sink, softener@well

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): None

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North)

Same well as

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1175

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 84

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Left Card 6-6-13 @ 1200
Had previous appointment. occupant did not show.
Left Second/Third Card 6-20-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1176
Date: 6-6-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____
Address: _____

Sample Collection Team: Suresh + Lyons

Weather (at time of sample collection) 92°F

Treatment System Present: Yes No _____ Type of Treatment System R.O. System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has RO System.

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1177

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-6-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 92°F Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): House bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>2015</u>	<u>RW-1177</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>Nitrates</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

No Answer Lat Card 2/1/80.

Spoke w/ _____

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1178

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-10-13
4-19-13

Parcel No: [REDACTED]
 Address: [REDACTED]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 90° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-8 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>4/19/13</u>	<u>RW 1178</u>						

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Left hand on road 0-6-13 @ 1445
 [REDACTED]

Chai

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

GPS

[REDACTED]

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1079

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-3-13

Parcel No: _____

Address: _____

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 78° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 10-15 ppm

QUALITY ASSURANCE

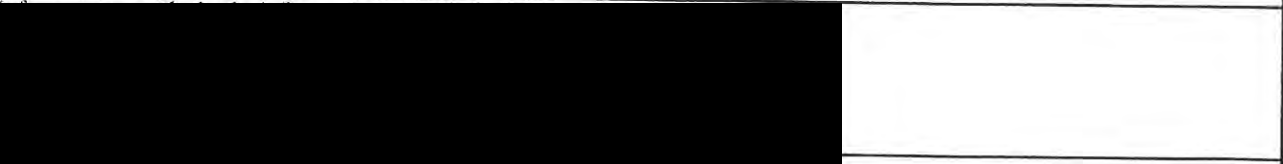
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>11/04/12</u>	<u>RW-1079</u>	<u>Poly</u>	<u>250 ml</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-3079 (B) 11/04/12</u>

SAMPLING LOCATION MAP



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1180
Date: 6-4-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: _____

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

cfs - cubic feet per second

gpm - gallons per minute

C - Celsius

gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1201

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Seibert + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

 left card.
left second card 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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No House, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1202

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta & Lyons

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP



Corrected map by Google Earth & ground checked

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

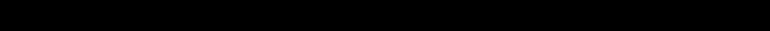
ARCADIS U.S., INC.
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 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

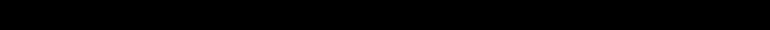
RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1203

Project No: _____ Project Name: Yakima Valley Dairies

Date: ~~6-10-13~~
6-19-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 87454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1852</u>	<u>RW-1203</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrate</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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SUITE 200
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1204

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Schasta + Lyons

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15PPM

QUALITY ASSURANCE

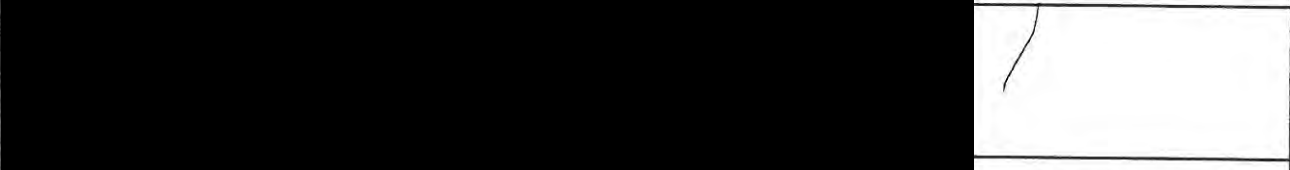
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass/plastic)	Quantity/Vol.				
<u>5:40</u>	<u>RW-1204</u>	<u>○</u>	<u>250</u>	<u>N</u>	<u>—</u>	<u>Nitrates</u>	

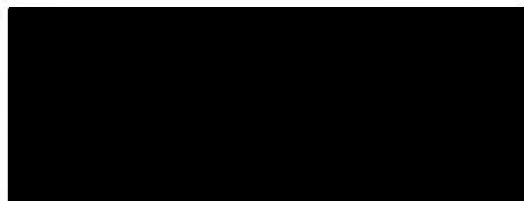
SAMPLING LOCATION MAP



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute

C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
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Duplicate 1205

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1205-1

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: _____

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Visited previous & left card again week.
Check [Redacted]

Chain-of-Custody Record No. [Redacted]

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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SUITE 200
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509.928.3369

Cannot locate

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1207

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: _____

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Parcel # does not exist

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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695 NORTH LEGACY RIDGE DRIVE
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509.928.3369

RO SYSTEM, NO SAMPLE

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1207

Project No: _____ Project Name: Yakima Valley Dairies

Date: 10-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sibesta

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): NA

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

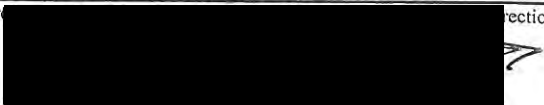
Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
	<u>NO</u>	<u>Sample</u>			<u>RO System</u>		

SAMPLING LOCATION MAP

(r _____ rection of flow) 

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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<5ppm, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: KW-1208

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° F

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): House bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27-45425

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

_____ Address

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

ARCADIS U.S., INC.
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SUITE 200
LIBERTY LAKE, WASHINGTON 99019
509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

< 5ppm No Sample
 SAMPLE ID: RW-1209^{az}

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13
 Parcel No: _____
 Address: _____
 Sample Collection Team: Sabesha + Lyana
 Weather (at time of sample collection) 75° F
 Treatment System Present: Yes _____ No Type of Treatment System _____
 Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____
 Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25
 Test Strip >5mg/l: Yes _____ No Test Strip Result: 0 ppm

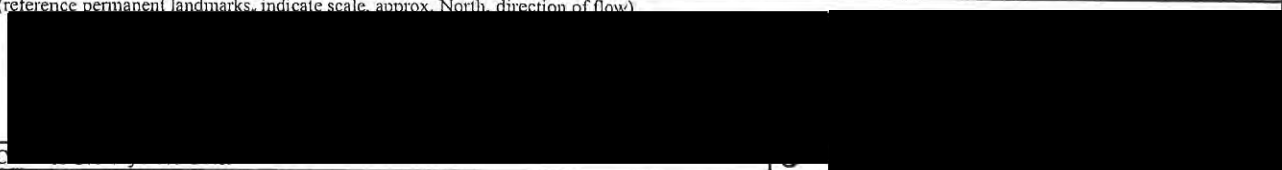
QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
 Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)


ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1210

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-10-13

Parcel No: _____
Address: _____

6-20-13

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-05

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-7 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

6-20-13

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
0800	RW-210	↓	250	N	None	Nitrates	
0810	RW-220	↓	250	N	None	Nitrates	Blank -

SAMPLING LOCATION MAP

_____ left card on post / carport . 6-10-13 @ 1238

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

ARCADIS U.S., INC.
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SUITE 200
LIBERTY LAKE, WASHINGTON 99019
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6-20-13 -> Appointment



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1211

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1640</u>	<u>RW-1211</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u> <u>Nitrates</u>	<u>Nitrate</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1212

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta

Weather (at time of sample collection) 80

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Kitchen faucet

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

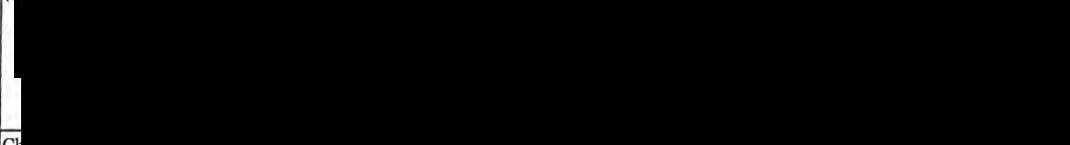
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1600</u>	<u>RW-1212</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	<u>RW-2212</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, survey, North direction, etc.)



CI

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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 LIBERTY LAKE, WASHINGTON 99019
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1212a

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-10-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Schuster + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Same parcel as [REDACTED]
No Answer. Left Call,

Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

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695 NORTH LEGACY RIDGE DRIVE
SUITE 200
LIBERTY LAKE, WASHINGTON 99019
509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1212A

Project No: SK030326 Project Name: Yakima Valley Dairies

Date: 9/18/13

Parcel No: 

Address: 

Sample Collection Team: T. Muller

Weather (at time of sample collection) Sunny 70

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib back of house

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: 20

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					
9/18/13 1228	RW-1212A	P	1	N	N	N03		
9/18/13	RW-3212A 1130	P	1	N	N		FB	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Chain-of-Custody Record No. _____

ABBREVIATIONS:

- ft. - feet
- cfs - cubic feet per second
- gpm - gallons per minute
- C - Celsius
- gal. - gallons

ARCADIS U.S., INC.
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 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1213

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6/10/13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____

Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____

Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____

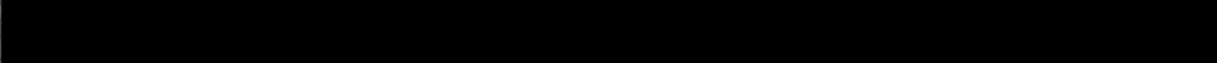
Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North direction of flow)



NO ANSWER left card

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1213

Project No: SK030326 Project Name: Yakima Valley Dairies

Date: 9/18/13
1340

Parcel No: 

Address: 

Sample Collection Team: T Muller

Weather (at time of sample collection) 70's Sunny

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Outside hose Bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: φ

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

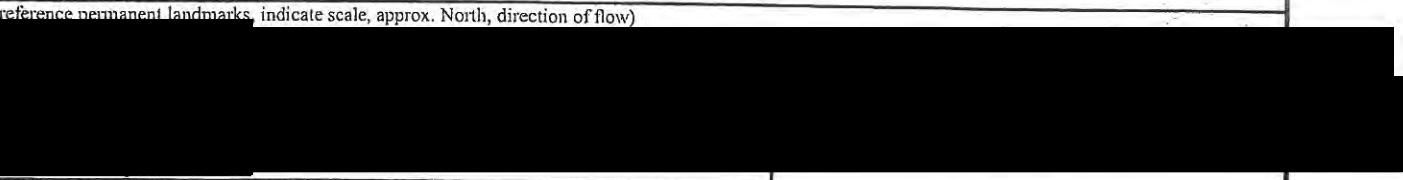
Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1214
Date: 10-9-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 85° F + Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NA No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): hose bib, [redacted]

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27484-25

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

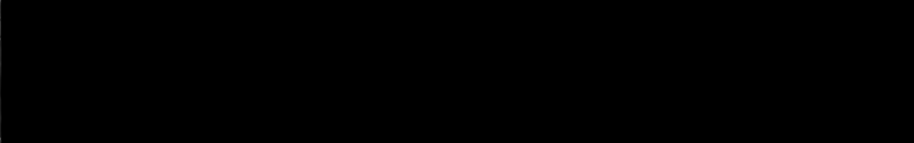
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>10/2</u>	<u>RW-1214</u>	<u>2770</u>	<u>250</u>	<u>N</u>	<u>N</u>	<u>Nitrates</u>	<u>RW-3214 @ 1805</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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Cannot locate - No House

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1215

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-10-13

Parcel No: [REDACTED]
Address: [REDACTED]

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

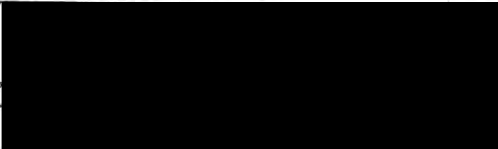
Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Cannot find structures, House, with parcel. Confirmed w/ google



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1216

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-10-13

Parcel No: _____
 Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Kitchen Sink

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
 Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>1702</u>	<u>RW-1216</u>	<u>(plastic)</u>	<u>250</u>	<u>-</u>	<u>N</u>	<u>Nitrates</u>	<u>_____</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
talked to [redacted] confirmed mailing address
GPS: [redacted]

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet C - Celsius
 cfs - cubic feet per second gal. - gallons
 gpm - gallons per minute

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RO System, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1217

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Scheste & Lyon

Weather (at time of sample collection) 82° Clear

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): NA

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
							<u>NO SAMPLE, RO SYSTEM</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)


Chain-of-Custody Record No. _____
ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

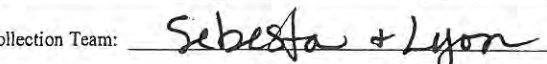
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1218

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: 

Address: 

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) Clear 80°

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): kitchen faucet

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27484-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.					
<u>1755</u>	<u>RW-1218</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>—</u>	<u>Nitrates</u>	<u>—</u>	<u>—</u>

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1219
Date: 6-10-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____
Address: _____

Sample Collection Team: Seharta + Lyon

Weather (at time of sample collection) 80° F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Kitchen Sink

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20-30 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

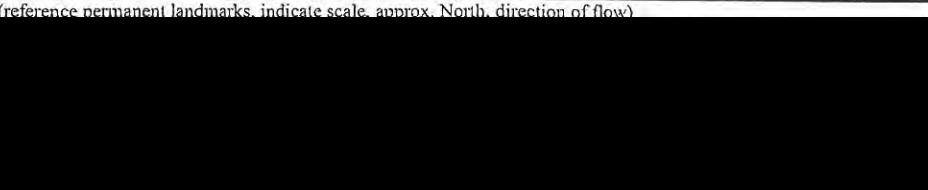
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
1810	RW 1219	<u>plastic</u>	250	N	None	Nitrates	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

RO System, No Sample
 SAMPLE ID: *RW-1220*

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System _____

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): NA

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE


Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<i>NO SAMPLE - RO SYSTEM</i>							

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
 *mail at House*

Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1221
Date: 6-9-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Schlesinger + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): indoor faucet.

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10 ppm

QUALITY ASSURANCE

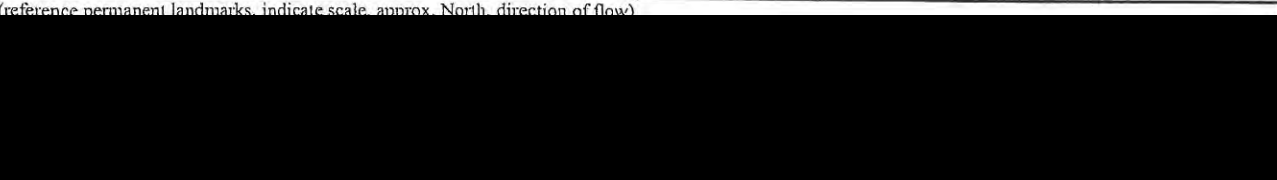
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
<u>6/28</u>	<u>RW-1221</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP



ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1222
Date: 10-9-13

Project No: _____ Project Name: Yakima Valley Dairies

Parcel No: _____

Address: _____

Sample Collection Team: Sabesta + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample Yes _____ No _____

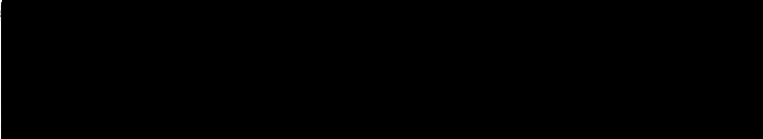
SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
	See Sample RW-1221						

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale)

No answers left
Looks Vacant



Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
C - Celsius
cfs - cubic feet per second
gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

RO System, No Sample
 SAMPLE ID: 1223

Project No: _____ Project Name: Yakima Valley Dairies _____ Date: 6-9-13
 Parcel No: _____
 Address: _____
 Sample Collection Team: Sibesta
 Weather (at time of sample collection) 75° clear
 Treatment System Present: Yes No _____ Type of Treatment System RO System
 Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____
 Where Sample Was Taken (hose bib, indoor faucet, etc.): NA

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____
 Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

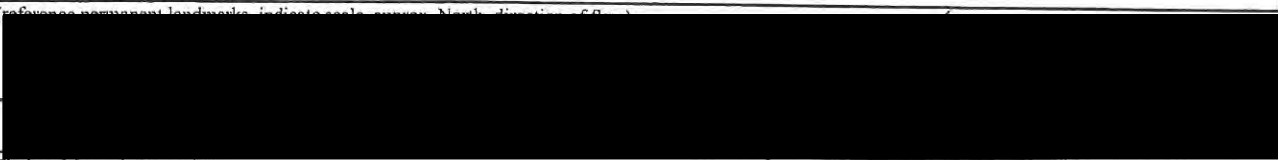
QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____
 Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP



Chain-of-Custody Record No. _____
 ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1224

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-9-13

Parcel No: _____

Address: _____

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
1600	RW-1224	<u>plastic</u>	200	N	None	Nitrates	RW-1224@1603

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1225

Project No: [REDACTED] Project Name: Yakima Valley Dairies

Date: 11-10-13

Parcel No: [REDACTED]

Address: [REDACTED]

Sample Collection Team: Sherida + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



Confirmed via ground truth and google earth.

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1226

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hosebib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 0-1 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No Answer. left hand - spoke

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1227

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65°F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



No Answer left second card 6-19-13 @ 1235

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1227

Project No: S K630335 Project Name: Yakima Valley Dairies Date: 9/18/13

Parcel No: _____

Address: _____

Sample Collection Team: T Muller

Weather (at time of sample collection) 70's Sun

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): Out door hose Bib

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: 20

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No

Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
9/18/13 1405	RW-1227	P	1	N	N	NO3	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Occupancy: _____

GPS: _____

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1228

Project No: _____ Project Name: Yakima Valley Drainage

Date: ~~6-10-13~~
6-19-13

Parcel No: _____
Address: _____

Sample Collection Team: Scheller + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) DR77059-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 10-15 ppm

QUALITY ASSURANCE

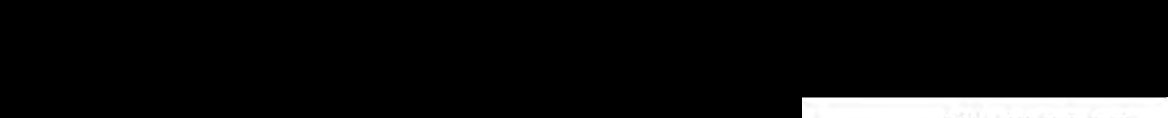
Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>1943</u>	<u>RW-1228</u>	<u>(plastic)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
No answer. Left Card. 6-10-13. (Confirmed mail)

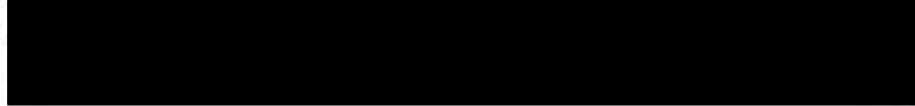


ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute

C - Celsius
gal. - gallons

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509.928.3369

GWS: _____



RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID:

RW-1229

Project No:

Project Name: Yakima Valley Dairies

Date: 6-10-13

Parcel No:

Address:

Sample Collection Team:

Sebesta + Lynn

Weather (at time of sample collection)

72°F Clear

Treatment System Present:

Yes

No

Type of Treatment System

Filters or Aerators Present:

Yes

No

Treatment System Bypassed or Filters/Aerators Removed:

Yes

No

Where Sample Was Taken (hose bib, indoor faucet, etc.):

HACH TEST

INSTRUMENTS (indicate make, model, i.d.)

Test Strip >5mg/l:

Yes

No

Test Strip Result:

QUALITY ASSURANCE

Nitrile Gloves:

Yes

No

Disinfect Hose Bib/Faucet:

Yes

No

Purge Water Before Hach Test:

Yes

No

Purge Water Prior to Collecting Sample

Yes

No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

No Answer left Card 6-10-13 @ 10:50
left second card 6-20-13

Chain-of-Custody Record No.

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1230

Project No: _____ Project Name: Yakima Valley Dairies Date: 10-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Subista + Lyon

Weather (at time of sample collection) 75°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Spigot backyard

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 20 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
1119	RW-1230	<u>(plastic)</u>	250	N	—	Nitrates	—

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
Spoke w/ owner, [redacted] gave us permission to sample

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1231

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

No Answer. left Card
No Answer. left second card 6-10-13 @ 1248

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1232

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 65° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

left Card
left second card 6-17-13 @ 1250

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet
cfs - cubic feet per second
gpm - gallons per minute

C - Celsius
gal. - gallons

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No House, No Sample

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1233

Project No: _____ Project Name: Yakima Valley Dairies Date: _____

Parcel No: _____

Address: _____

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Ag only. Confirmed via ground truth and google Earth
No Mailbox or Driveway

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1234

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Subesha + Lyons

Weather (at time of sample collection) 65° F Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)	
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.					

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

No Answer. left Card
No Answer. left second Card 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:

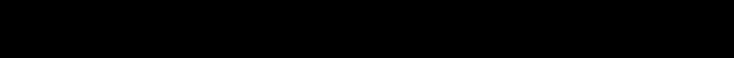
ft. - feet C - Celsius
cfs - cubic feet per second gal. - gallons
gpm - gallons per minute

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LIBERTY LAKE, WASHINGTON 99019
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID AW-1235a

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-19-13

Parcel No: 

Address: 

Sample Collection Team: Subesta + Lyon

Weather (at time of sample collection) 70° Clear

Treatment System Present: Yes _____ No Type of Treatment System None

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib outside

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes _____ No Test Strip Result: 2ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____


Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)



ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1235
Date: 6-9-13

Project No: _____ Project Name: Yakima Valley Dairies
Parcel No: _____ Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80°F Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): Hose bib _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 5-10 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
<u>1832</u>	<u>RW-1235</u>	<u>(glass)</u>	<u>250</u>	<u>N</u>	<u>None</u>	<u>Nitrates</u>	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)
_____ Sampling address.

ABBREVIATIONS:
ft. - feet
cfs - cubic feet per second
gpm - gallons per minute
C - Celsius
gal. - gallons

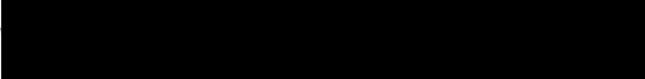
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LIBERTY LAKE, WASHINGTON 99019
509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1236

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-9-13

Parcel No: 

Address: 

Sample Collection Team: Scheshin & Lyon

Weather (at time of sample collection) 90° P Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____


Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				
		<u>See</u>	<u>RW-1235</u>				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

 address in database!

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1237

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-9-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) _____

Treatment System Present: Yes No Type of Treatment System water softener

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): indoor faucet

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 30 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

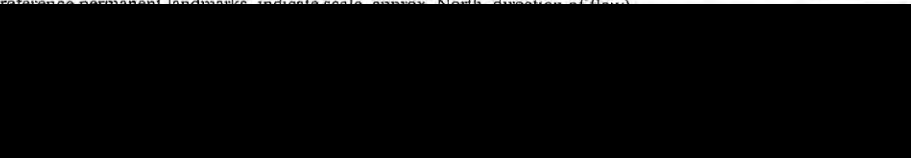
Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
1900	RW-1237	plastic	2500	N	N/A	N/A	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, compass, North direction, etc.)



Confirmed address.

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1238

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-9-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 75° Clear

Treatment System Present: Yes _____ No Type of Treatment System _____

Filters or Aerators Present: Yes _____ No Treatment System Bypassed or Filters/Aerators Removed: Yes NO No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): outdoor faucet

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) 27454-25

Test Strip >5mg/l: Yes No _____ Test Strip Result: 15 ppm

QUALITY ASSURANCE

Nitrile Gloves: Yes No _____ Disinfect Hose Bib/Faucet: Yes No _____

Purge Water Before Hach Test: Yes No _____ Purge Water Prior to Collecting Sample: Yes No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/Vol.				
1944	RW-1238	(glass, plastic)	250	N	N	NH ₄ N	

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

SPANISH ONLY

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute

C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1239

Project No: _____ Project Name: Yakima Valley Dairies

Date: 6-10-13

Parcel No: [Redacted]

Address: [Redacted]

Sample Collection Team: Subesta + Lyons

Weather (at time of sample collection) _____

Treatment System Present: Yes No _____ Type of Treatment System RO System

Filters or Aerators Present: Yes No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

Has RO System . Spokee w/ [Redacted]

Chain-of-Custody Record No. _____

ABBREVIATIONS:

ft. - feet

C - Celsius

cfs - cubic feet per second

gal. - gallons

gpm - gallons per minute

ARCADIS U.S., INC.
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RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1240 1240

Project No: _____ Project Name: Yakima Valley Dairies Date: 6-10-13

Parcel No: _____

Address: _____

Sample Collection Team: Sebesta + Lyon

Weather (at time of sample collection) 80° Clear

Treatment System Present: Yes _____ No _____ Type of Treatment System _____

Filters or Aerators Present: Yes _____ No _____ Treatment System Bypassed or Filters/Aerators Removed: Yes _____ No _____

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes _____ No _____ Test Strip Result: _____

QUALITY ASSURANCE

Nitrile Gloves: Yes _____ No _____ Disinfect Hose Bib/Faucet: Yes _____ No _____

Purge Water Before Hach Test: Yes _____ No _____ Purge Water Prior to Collecting Sample: Yes _____ No _____

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

No Answer - Left Card

NO ANSWER - Left second card 6-19-13

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

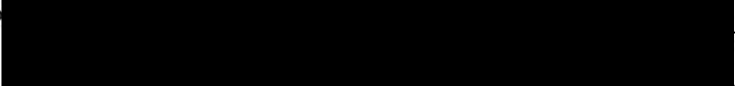
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 SUITE 200
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 509.928.3369

RESIDENTIAL WELL SAMPLING RECORD

SAMPLE ID: RW-1240

Project No: SK030326 Project Name: Yakima Valley Dairies

Date: 9/18/13
1300

Parcel No: 

Address: 

Sample Collection Team: TMLU CLAN

Weather (at time of sample collection) 70's Sunny

Treatment System Present: Yes No Type of Treatment System _____

Filters or Aerators Present: Yes No Treatment System Bypassed or Filters/Aerators Removed: Yes No

Where Sample Was Taken (hose bib, indoor faucet, etc.): _____

HACH TEST

INSTRUMENTS (indicate make, model, i.d.) _____

Test Strip >5mg/l: Yes No Test Strip Result: 2

QUALITY ASSURANCE

Nitrile Gloves: Yes No Disinfect Hose Bib/Faucet: Yes No


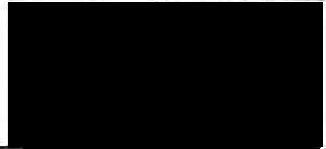
Purge Water Before Hach Test: Yes No Purge Water Prior to Collecting Sample: Yes No

SAMPLING INVENTORY

Bottles Collected				Filtered (Y/N)	Preserved (type)	Analysis	Remarks (dups, blanks, QC)
Date/Time	Sample ID	Container (glass, plastic)	Quantity/ Vol.				

SAMPLING LOCATION MAP

(reference permanent landmarks, indicate scale, approx. North, direction of flow)

GPS:  

Chain-of-Custody Record No. _____

ABBREVIATIONS:
 ft. - feet
 cfs - cubic feet per second
 gpm - gallons per minute
 C - Celsius
 gal. - gallons

ARCADIS U.S., INC.
 695 NORTH LEGACY RIDGE DRIVE
 SUITE 200
 LIBERTY LAKE, WASHINGTON 99019
 509.928.3369

No Sample



Appendix C

Analytical Laboratory Reports



SWE0197

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWE0197

Client Project/Site: SK030326.0001

Client Project Description: Yakima Dairies

For:

ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 9:40:54 AM

Randee Decker, Project Manager
(509)924-9200

Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Job ID: SWE0197

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 5/30/2013 8:00:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWE0197-01	RW-1030	Drinking Water	05/28/13 14:35	05/30/13 08:00
SWE0197-02	RW-3030	Drinking Water	05/28/13 14:20	05/30/13 08:00
SWE0197-03	RW-1044	Drinking Water	05/28/13 15:25	05/30/13 08:00
SWE0197-04	RW-1045	Drinking Water	05/28/13 15:47	05/30/13 08:00
SWE0197-05	RW-1125	Drinking Water	05/28/13 16:05	05/30/13 08:00
SWE0197-06	RW-1046	Drinking Water	05/28/13 16:20	05/30/13 08:00
SWE0197-07	RW-1047	Drinking Water	05/28/13 16:40	05/30/13 08:00
SWE0197-08	RW-1049	Drinking Water	05/28/13 17:00	05/30/13 08:00
SWE0197-09	RW-1051	Drinking Water	05/28/13 17:25	05/30/13 08:00
SWE0197-10	RW-1054	Drinking Water	05/28/13 17:40	05/30/13 08:00
SWE0197-11	RW-1085	Drinking Water	05/29/13 08:15	05/30/13 08:00
SWE0197-12	RW-3085	Drinking Water	05/29/13 08:00	05/30/13 08:00
SWE0197-13	RW-1093	Drinking Water	05/29/13 08:57	05/30/13 08:00
SWE0197-14	RW-2093	Drinking Water	05/29/13 09:00	05/30/13 08:00
SWE0197-15	RW-1094	Drinking Water	05/29/13 09:18	05/30/13 08:00
SWE0197-16	RW-1095	Drinking Water	05/29/13 09:30	05/30/13 08:00
SWE0197-17	RW-1096	Drinking Water	05/29/13 09:45	05/30/13 08:00
SWE0197-18	RW-1158	Drinking Water	05/29/13 10:08	05/30/13 08:00
SWE0197-19	RW-1100	Drinking Water	05/29/13 10:55	05/30/13 08:00
SWE0197-20	RW-2100	Drinking Water	05/29/13 10:57	05/30/13 08:00
SWE0197-21	RW-1103	Drinking Water	05/29/13 11:10	05/30/13 08:00
SWE0197-22	RW-1099	Drinking Water	05/29/13 11:20	05/30/13 08:00
SWE0197-23	RW-1149	Drinking Water	05/29/13 11:50	05/30/13 08:00
SWE0197-24	RW-1107	Drinking Water	05/29/13 12:25	05/30/13 08:00
SWE0197-25	RW-2107	Drinking Water	05/29/13 12:30	05/30/13 08:00

TestAmerica Spokane

Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1030

Date Collected: 05/28/13 14:35
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.59		0.200		mg/l		05/30/13 08:13	05/30/13 08:39	1.00

Client Sample ID: RW-3030

Date Collected: 05/28/13 14:20
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 08:13	05/30/13 08:58	1.00

Client Sample ID: RW-1044

Date Collected: 05/28/13 15:25
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.19		0.200		mg/l		05/30/13 08:13	05/30/13 09:16	1.00

Client Sample ID: RW-1045

Date Collected: 05/28/13 15:47
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	15.3		0.200		mg/l		05/30/13 08:13	05/30/13 09:35	1.00

Client Sample ID: RW-1125

Date Collected: 05/28/13 16:05
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.5		0.200		mg/l		05/30/13 08:13	05/30/13 09:54	1.00

Client Sample ID: RW-1046

Date Collected: 05/28/13 16:20
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.98		0.200		mg/l		05/30/13 08:13	05/30/13 10:13	1.00

Client Sample ID: RW-1047

Date Collected: 05/28/13 16:40
 Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.2		0.200		mg/l		05/30/13 08:13	05/30/13 10:31	1.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1049

Lab Sample ID: SWE0197-08

Date Collected: 05/28/13 17:00

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.36		0.200		mg/l		05/30/13 08:13	05/30/13 10:50	1.00

Client Sample ID: RW-1051

Lab Sample ID: SWE0197-09

Date Collected: 05/28/13 17:25

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	17.1		0.200		mg/l		05/30/13 08:13	05/30/13 11:09	1.00

Client Sample ID: RW-1054

Lab Sample ID: SWE0197-10

Date Collected: 05/28/13 17:40

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.2		0.200		mg/l		05/30/13 08:13	05/30/13 11:27	1.00

Client Sample ID: RW-1085

Lab Sample ID: SWE0197-11

Date Collected: 05/29/13 08:15

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.00		0.200		mg/l		05/30/13 08:13	05/30/13 12:42	1.00

Client Sample ID: RW-3085

Lab Sample ID: SWE0197-12

Date Collected: 05/29/13 08:00

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 08:13	05/30/13 13:00	1.00

Client Sample ID: RW-1093

Lab Sample ID: SWE0197-13

Date Collected: 05/29/13 08:57

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.87		0.200		mg/l		05/30/13 08:13	05/30/13 13:19	1.00

Client Sample ID: RW-2093

Lab Sample ID: SWE0197-14

Date Collected: 05/29/13 09:00

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.84		0.200		mg/l		05/30/13 08:13	05/30/13 13:38	1.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1094

Lab Sample ID: SWE0197-15

Date Collected: 05/29/13 09:18

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	4.59		0.200		mg/l		05/30/13 08:13	05/30/13 13:56	1.00

Client Sample ID: RW-1095

Lab Sample ID: SWE0197-16

Date Collected: 05/29/13 09:30

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	11.8		0.200		mg/l		05/30/13 08:13	05/30/13 14:15	1.00

Client Sample ID: RW-1096

Lab Sample ID: SWE0197-17

Date Collected: 05/29/13 09:45

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	16.0		0.200		mg/l		05/30/13 08:13	05/30/13 14:34	1.00

Client Sample ID: RW-1158

Lab Sample ID: SWE0197-18

Date Collected: 05/29/13 10:08

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	29.4		2.00		mg/l		05/30/13 08:13	05/30/13 15:48	10.0

Client Sample ID: RW-1100

Lab Sample ID: SWE0197-19

Date Collected: 05/29/13 10:55

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.9		0.200		mg/l		05/30/13 08:13	05/30/13 15:11	1.00

Client Sample ID: RW-2100

Lab Sample ID: SWE0197-20

Date Collected: 05/29/13 10:57

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.9		0.200		mg/l		05/30/13 08:13	05/30/13 15:29	1.00

Client Sample ID: RW-1103

Lab Sample ID: SWE0197-21

Date Collected: 05/29/13 11:10

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.3		0.200		mg/l		05/30/13 09:15	05/30/13 17:40	1.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1099

Date Collected: 05/29/13 11:20

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-22

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	14.0		0.200		mg/l		05/30/13 09:15	05/30/13 17:58	1.00

Client Sample ID: RW-1149

Date Collected: 05/29/13 11:50

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-23

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	13.2		0.200		mg/l		05/30/13 09:15	05/30/13 18:17	1.00

Client Sample ID: RW-1107

Date Collected: 05/29/13 12:25

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-24

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.4		0.200		mg/l		05/30/13 09:15	05/30/13 18:36	1.00

Client Sample ID: RW-2107

Date Collected: 05/29/13 12:30

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-25

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.4		0.200		mg/l		05/30/13 09:15	05/30/13 18:54	1.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13E0178-BLK1
Matrix: Water
Analysis Batch: 13E0178

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13E0178_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 08:13	05/30/13 12:23	1.00

Lab Sample ID: 13E0178-BS1
Matrix: Water
Analysis Batch: 13E0178

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13E0178_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.97		mg/l		99.4	90 - 110

Lab Sample ID: 13E0178-MS1
Matrix: Water
Analysis Batch: 13E0178

Client Sample ID: RW-2100
Prep Type: Total
Prep Batch: 13E0178_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	10.9		5.00	15.9		mg/l		101	80 - 120

Lab Sample ID: 13E0178-MSD1
Matrix: Water
Analysis Batch: 13E0178

Client Sample ID: RW-2100
Prep Type: Total
Prep Batch: 13E0178_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	10.9		5.00	15.9		mg/l		100	80 - 120	0.138	12.1

Lab Sample ID: 13E0178-DUP1
Matrix: Water
Analysis Batch: 13E0178

Client Sample ID: RW-2100
Prep Type: Total
Prep Batch: 13E0178_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	10.9		10.8		mg/l		0.461	13.1

Lab Sample ID: 13E0179-BLK1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 09:15	05/30/13 20:27	1.00

Lab Sample ID: 13E0179-BS1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.66		mg/l		93.2	90 - 110

Lab Sample ID: 13E0179-MS1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: RW-2107
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	10.4		5.00	15.5		mg/l		102	80 - 120

TestAmerica Spokane

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Lab Sample ID: 13E0179-MSD1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: RW-2107
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Nitrate-Nitrogen	10.4		5.00	15.4		mg/l		99.7	80 - 120	0.571	12.1

Lab Sample ID: 13E0179-DUP1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: RW-2107
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	10.4		10.4		mg/l		0.096	13.1
							3	



Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1030

Date Collected: 05/28/13 14:35

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 08:39	CBW	TAL SPK

Client Sample ID: RW-3030

Date Collected: 05/28/13 14:20

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 08:58	CBW	TAL SPK

Client Sample ID: RW-1044

Date Collected: 05/28/13 15:25

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 09:16	CBW	TAL SPK

Client Sample ID: RW-1045

Date Collected: 05/28/13 15:47

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 09:35	CBW	TAL SPK

Client Sample ID: RW-1125

Date Collected: 05/28/13 16:05

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 09:54	CBW	TAL SPK

Client Sample ID: RW-1046

Date Collected: 05/28/13 16:20

Date Received: 05/30/13 08:00

Lab Sample ID: SWE0197-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 10:13	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1047

Lab Sample ID: SWE0197-07

Date Collected: 05/28/13 16:40

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 10:31	CBW	TAL SPK

Client Sample ID: RW-1049

Lab Sample ID: SWE0197-08

Date Collected: 05/28/13 17:00

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 10:50	CBW	TAL SPK

Client Sample ID: RW-1051

Lab Sample ID: SWE0197-09

Date Collected: 05/28/13 17:25

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 11:09	CBW	TAL SPK

Client Sample ID: RW-1054

Lab Sample ID: SWE0197-10

Date Collected: 05/28/13 17:40

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 11:27	CBW	TAL SPK

Client Sample ID: RW-1085

Lab Sample ID: SWE0197-11

Date Collected: 05/29/13 08:15

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 12:42	CBW	TAL SPK

Client Sample ID: RW-3085

Lab Sample ID: SWE0197-12

Date Collected: 05/29/13 08:00

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 13:00	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1093

Lab Sample ID: SWE0197-13

Date Collected: 05/29/13 08:57

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 13:19	CBW	TAL SPK

Client Sample ID: RW-2093

Lab Sample ID: SWE0197-14

Date Collected: 05/29/13 09:00

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 13:38	CBW	TAL SPK

Client Sample ID: RW-1094

Lab Sample ID: SWE0197-15

Date Collected: 05/29/13 09:18

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 13:56	CBW	TAL SPK

Client Sample ID: RW-1095

Lab Sample ID: SWE0197-16

Date Collected: 05/29/13 09:30

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 14:15	CBW	TAL SPK

Client Sample ID: RW-1096

Lab Sample ID: SWE0197-17

Date Collected: 05/29/13 09:45

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 14:34	CBW	TAL SPK

Client Sample ID: RW-1158

Lab Sample ID: SWE0197-18

Date Collected: 05/29/13 10:08

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13E0178	05/30/13 15:48	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-1100

Lab Sample ID: SWE0197-19

Date Collected: 05/29/13 10:55

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 15:11	CBW	TAL SPK

Client Sample ID: RW-2100

Lab Sample ID: SWE0197-20

Date Collected: 05/29/13 10:57

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0178_P	05/30/13 08:13	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0178	05/30/13 15:29	CBW	TAL SPK

Client Sample ID: RW-1103

Lab Sample ID: SWE0197-21

Date Collected: 05/29/13 11:10

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 09:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 17:40	CBW	TAL SPK

Client Sample ID: RW-1099

Lab Sample ID: SWE0197-22

Date Collected: 05/29/13 11:20

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 09:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 17:58	CBW	TAL SPK

Client Sample ID: RW-1149

Lab Sample ID: SWE0197-23

Date Collected: 05/29/13 11:50

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 09:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 18:17	CBW	TAL SPK

Client Sample ID: RW-1107

Lab Sample ID: SWE0197-24

Date Collected: 05/29/13 12:25

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 09:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 18:36	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Client Sample ID: RW-2107

Lab Sample ID: SWE0197-25

Date Collected: 05/29/13 12:30

Matrix: Drinking Water

Date Received: 05/30/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 09:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 18:54	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWE0197

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317 253-922-2310 FAX 922-5047
 11922 E. First Ave., Spokane WA 99206-5302 509-924-9200 FAX 924-9290
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

CLIENT: **AREADIS**
 REPORT TO: **TOM MULLEN**
 ADDRESS: **195 N. Legacy Bldg Dr Suite 200**
Liberby Lake
509 928 3519 FAX:
 PROJECT NAME: **Yakima Valley Dunes (YVD)**
 PROJECT NUMBER: **TBD**
 SAMPLED BY: **Sebastian Dejong**

INVOICE TO: **AREADIS - US**
 PRESERVATIVE
 PO. NUMBER:

Work Order #: **SWED97**

TURNAROUND REQUEST

in Business Days*

Organic & Inorganic Analyses
 10
 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 5 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/OID
W	1		

RECEIVED BY: *[Signature]*
 PRINT NAME: *Christina*
 DATE: 5/22/13
 TIME: 1500

RECEIVED BY: *[Signature]*
 PRINT NAME: *[Signature]*
 DATE: 5/22/13
 TIME: 1500

RECEIVED BY: *[Signature]*
 PRINT NAME: *[Signature]*
 DATE: 5/22/13
 TIME: 1500



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order # **9NEFM97**

CLIENT: ALCADIS		INVOICE TO: ALCADIS - US			
REPORT TO: TOM MULLEN		P.O. NUMBER:			
ADDRESS: 695 N. Legacy Ridge Dr Suite #200		PRESERVATIVE			
PHONE: Liberty Lake WA 99019		REQUESTED ANALYSES			
PROJECT NAME: Yakima Valley Dunes		OTHER: <input type="checkbox"/> Specify:			
PROJECT NUMBER: TRD		<input type="checkbox"/> 10 STD. <input checked="" type="checkbox"/> 5 Organic & Inorganic Analyses <input type="checkbox"/> 1 <1 <input type="checkbox"/> 4 3 2 1 <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 4 3 2 1 <1 STD.			
SAMPLED BY: Sebesta DeJony		* Turnaround Requests less than standard may incur Rush Charges.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1. RW-1085	5-27-13 815		1		
2. RW-3085	700		1		
3. RW-1093	857		1		
4. RW-2093	900		1		
5. RW-1094	918		1		
6. RW-1095	930		1		
7. RW-1096	945		1		
8. RW-1158	1008		1		
9. RW-1100	1055		1		
10. RW-2100	1057		1		

RECEIVED BY: *[Signature]* DATE: **5/29/13**
 PRINT NAME: **Christina Williams** FIRM: **ALCADIS**
 RECEIVED BY: *[Signature]* DATE: **0500**
 PRINT NAME: **ALCADIS** FIRM: **ALCADIS**

RECEIVED BY: *[Signature]* DATE: **5-30-13**
 PRINT NAME: **ALCADIS** FIRM: **ALCADIS**
 RECEIVED BY: *[Signature]* DATE: **0500**
 PRINT NAME: **ALCADIS** FIRM: **ALCADIS**

ADDITIONAL REMARKS: **ALCADIS**



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNEED197**

CLIENT: ARCADIS REPORT TO: TOM MULLEN ADDRESS: 1915 N. Legway Ridge Dr Suite 200 Liberty Lake WA 99019 PHONE: _____ FAX: _____ PROJECT NAME: YVD PROJECT NUMBER: TBD SAMPLED BY: Schuster + DeJong		INVOICE TO: ARCADIS US P.O. NUMBER: _____		PRESERVATIVE REQUESTED ANALYSES		TURNAROUND REQUEST in Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 OTHER Specify: _____					
CLIENT SAMPLE IDENTIFICATION 1. RW-1103 2. RW-1099 3. RW-1149 4. RW-1107 5. RW-2107 6. _____ 7. _____ 8. _____ 9. _____ 10. _____		SAMPLING DATE/TIME 5/29/13 1110 1120 1150 1225 1230		EPA 900 NITRATES X ↓ ↓ ↓		MATRIX (W, S, O) W ↓ ↓ ↓ ↓		# OF CONT. 1 ↓ ↓ ↓ ↓		LOCATION/ COMMENTS TA WO ID	
RELEASED BY: Dr. M. Schuster PRINT NAME: ARCADIS FIRM: _____ DATE: 5/29/13 TIME: 1500		RECEIVED BY: Chris Williams PRINT NAME: _____ FIRM: ARCADIS DATE: _____ TIME: _____		RECEIVED BY: Chris Williams PRINT NAME: _____ FIRM: _____ DATE: _____ TIME: _____		DATE: 5-30-13 TIME: 0800 DATE: _____ TIME: _____					
ADDITIONAL REMARKS:		FIRM: _____		FIRM: _____		FIRM: _____					

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TAL-1000 (0612)



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SWE0197	Client: Arcadis	Project: YVD		
Date/Time Received: 5.30.13 0800	By: Chris Wilham			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other: FE Dev 8032 7555 3789				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:	<input checked="" type="checkbox"/>			
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 4.6 °C Thermometer (Circle one Serial # 122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 5:30 13 8:45 By: CB				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab			<input checked="" type="checkbox"/>	
Does this project require quick turnaround analysis		<input checked="" type="checkbox"/>		
Are there any short hold time tests (see chart below)	<input checked="" type="checkbox"/>			Nitrate
Are any samples within 2 days of or past expiration	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Nitrate
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWE0206

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWE0206

Client Project/Site: SK030334.0001

Client Project Description: Yakima Dairies

For:

ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 9:48:58 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Job ID: SWE0206

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 5/30/2013 3:40:00 PM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWE0206-01	RW-1108	Drinking Water	05/29/13 14:00	05/30/13 15:40
SWE0206-02	RW-1101	Drinking Water	05/29/13 14:20	05/30/13 15:40
SWE0206-03	RW-1172	Drinking Water	05/29/13 14:35	05/30/13 15:40
SWE0206-04	RW-3108	Drinking Water	05/29/13 13:50	05/30/13 15:40
SWE0206-05	RW-1078	Drinking Water	05/29/13 16:33	05/30/13 15:40
SWE0206-06	RW-1152	Drinking Water	05/29/13 16:00	05/30/13 15:40
SWE0206-07	RW-2152	Drinking Water	05/29/13 16:05	05/30/13 15:40
SWE0206-08	RW-1092	Drinking Water	05/29/13 15:40	05/30/13 15:40
SWE0206-09	RW-1084	Drinking Water	05/29/13 15:20	05/30/13 15:40
SWE0206-10	RW-1086	Drinking Water	05/30/13 08:55	05/30/13 15:40
SWE0206-11	RW-3086	Drinking Water	05/30/13 08:50	05/30/13 15:40
SWE0206-12	RW-1102	Drinking Water	05/30/13 09:40	05/30/13 15:40
SWE0206-13	RW-2102	Drinking Water	05/30/13 09:45	05/30/13 15:40
SWE0206-14	RW-1062	Drinking Water	05/30/13 10:05	05/30/13 15:40
SWE0206-15	RW-1087	Drinking Water	05/30/13 10:15	05/30/13 15:40
SWE0206-16	RW-1090A	Drinking Water	05/30/13 10:50	05/30/13 15:40
SWE0206-17	RW-1090B	Drinking Water	05/30/13 10:55	05/30/13 15:40
SWE0206-18	RW-1012	Drinking Water	05/30/13 11:40	05/30/13 15:40
SWE0206-19	RW-1011	Drinking Water	05/30/13 11:55	05/30/13 15:40

Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-1108

Date Collected: 05/29/13 14:00
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	20.3		2.00		mg/l		05/30/13 16:45	05/31/13 08:14	10.0

Client Sample ID: RW-1101

Date Collected: 05/29/13 14:20
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	18.2		0.200		mg/l		05/30/13 16:45	05/30/13 21:04	1.00

Client Sample ID: RW-1172

Date Collected: 05/29/13 14:35
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.72		0.200		mg/l		05/30/13 16:45	05/30/13 21:23	1.00

Client Sample ID: RW-3108

Date Collected: 05/29/13 13:50
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 16:45	05/30/13 21:42	1.00

Client Sample ID: RW-1078

Date Collected: 05/29/13 16:33
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.4		0.200		mg/l		05/30/13 16:45	05/30/13 22:00	1.00

Client Sample ID: RW-1152

Date Collected: 05/29/13 16:00
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	15.8		0.200		mg/l		05/30/13 16:45	05/30/13 22:19	1.00

Client Sample ID: RW-2152

Date Collected: 05/29/13 16:05
 Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	15.6		0.200		mg/l		05/30/13 16:45	05/30/13 22:38	1.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-1092

Lab Sample ID: SWE0206-08

Date Collected: 05/29/13 15:40

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.30		0.200		mg/l		05/30/13 16:45	05/30/13 22:56	1.00

Client Sample ID: RW-1084

Lab Sample ID: SWE0206-09

Date Collected: 05/29/13 15:20

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.91		0.200		mg/l		05/30/13 16:45	05/30/13 23:15	1.00

Client Sample ID: RW-1086

Lab Sample ID: SWE0206-10

Date Collected: 05/30/13 08:55

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	16.8		0.200		mg/l		05/30/13 16:45	05/30/13 23:33	1.00

Client Sample ID: RW-3086

Lab Sample ID: SWE0206-11

Date Collected: 05/30/13 08:50

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 16:45	05/30/13 23:52	1.00

Client Sample ID: RW-1102

Lab Sample ID: SWE0206-12

Date Collected: 05/30/13 09:40

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	18.2		0.200		mg/l		05/30/13 16:45	05/31/13 00:11	1.00

Client Sample ID: RW-2102

Lab Sample ID: SWE0206-13

Date Collected: 05/30/13 09:45

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	18.4		0.200		mg/l		05/30/13 16:45	05/31/13 00:29	1.00

Client Sample ID: RW-1062

Lab Sample ID: SWE0206-14

Date Collected: 05/30/13 10:05

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.67		0.200		mg/l		05/30/13 16:45	05/31/13 00:48	1.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-1087

Lab Sample ID: SWE0206-15

Date Collected: 05/30/13 10:15

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.82		0.200		mg/l		05/30/13 16:45	05/31/13 01:06	1.00

Client Sample ID: RW-1090A

Lab Sample ID: SWE0206-16

Date Collected: 05/30/13 10:50

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	23.8		2.00		mg/l		05/31/13 07:20	05/31/13 12:16	10.0

Client Sample ID: RW-1090B

Lab Sample ID: SWE0206-17

Date Collected: 05/30/13 10:55

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	23.0		2.00		mg/l		05/31/13 07:20	05/31/13 12:35	10.0

Client Sample ID: RW-1012

Lab Sample ID: SWE0206-18

Date Collected: 05/30/13 11:40

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.63		0.200		mg/l		05/31/13 07:20	05/31/13 09:10	1.00

Client Sample ID: RW-1011

Lab Sample ID: SWE0206-19

Date Collected: 05/30/13 11:55

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	30.6		4.00		mg/l		05/31/13 07:20	05/31/13 12:53	20.0

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13E0179-BLK1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/30/13 09:15	05/30/13 20:27	1.00

Lab Sample ID: 13E0179-BS1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.66		mg/l		93.2	90 - 110

Lab Sample ID: 13E0179-MS1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	10.4		5.00	15.5		mg/l		102	80 - 120

Lab Sample ID: 13E0179-MSD1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	10.4		5.00	15.4		mg/l		99.7	80 - 120	0.571	12.1

Lab Sample ID: 13E0179-DUP1
Matrix: Water
Analysis Batch: 13E0179

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13E0179_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	10.4		10.4		mg/l		0.096	13.1

3

Lab Sample ID: 13E0187-BLK1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/31/13 07:20	05/31/13 11:58	1.00

Lab Sample ID: 13E0187-BS1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.69		mg/l		93.8	90 - 110

TestAmerica Spokane

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Method: EPA 300.0 - Anions by EPA Method 300.0 (Continued)

Lab Sample ID: 13E0187-MS1

Matrix: Water

Analysis Batch: 13E0187

Client Sample ID: Matrix Spike

Prep Type: Total

Prep Batch: 13E0187_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	Limits
Nitrate-Nitrogen	ND		5.00	4.74		mg/l		94.8	80 - 120

Lab Sample ID: 13E0187-MSD1

Matrix: Water

Analysis Batch: 13E0187

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total

Prep Batch: 13E0187_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate-Nitrogen	ND		5.00	4.70		mg/l		93.9	80 - 120	0.932	12.1

Lab Sample ID: 13E0187-DUP1

Matrix: Water

Analysis Batch: 13E0187

Client Sample ID: RW-1011

Prep Type: Total

Prep Batch: 13E0187_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
Nitrate-Nitrogen	30.6		30.2		mg/l		1.32	13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-1108

Date Collected: 05/29/13 14:00

Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13E0179	05/31/13 08:14	CBW	TAL SPK

Client Sample ID: RW-1101

Date Collected: 05/29/13 14:20

Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 21:04	CBW	TAL SPK

Client Sample ID: RW-1172

Date Collected: 05/29/13 14:35

Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 21:23	CBW	TAL SPK

Client Sample ID: RW-3108

Date Collected: 05/29/13 13:50

Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 21:42	CBW	TAL SPK

Client Sample ID: RW-1078

Date Collected: 05/29/13 16:33

Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 22:00	CBW	TAL SPK

Client Sample ID: RW-1152

Date Collected: 05/29/13 16:00

Date Received: 05/30/13 15:40

Lab Sample ID: SWE0206-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 22:19	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-2152

Lab Sample ID: SWE0206-07

Date Collected: 05/29/13 16:05

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 22:38	CBW	TAL SPK

Client Sample ID: RW-1092

Lab Sample ID: SWE0206-08

Date Collected: 05/29/13 15:40

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 22:56	CBW	TAL SPK

Client Sample ID: RW-1084

Lab Sample ID: SWE0206-09

Date Collected: 05/29/13 15:20

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 23:15	CBW	TAL SPK

Client Sample ID: RW-1086

Lab Sample ID: SWE0206-10

Date Collected: 05/30/13 08:55

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 23:33	CBW	TAL SPK

Client Sample ID: RW-3086

Lab Sample ID: SWE0206-11

Date Collected: 05/30/13 08:50

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/30/13 23:52	CBW	TAL SPK

Client Sample ID: RW-1102

Lab Sample ID: SWE0206-12

Date Collected: 05/30/13 09:40

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/31/13 00:11	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-2102

Lab Sample ID: SWE0206-13

Date Collected: 05/30/13 09:45

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/31/13 00:29	CBW	TAL SPK

Client Sample ID: RW-1062

Lab Sample ID: SWE0206-14

Date Collected: 05/30/13 10:05

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/31/13 00:48	CBW	TAL SPK

Client Sample ID: RW-1087

Lab Sample ID: SWE0206-15

Date Collected: 05/30/13 10:15

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0179_P	05/30/13 16:45	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0179	05/31/13 01:06	CBW	TAL SPK

Client Sample ID: RW-1090A

Lab Sample ID: SWE0206-16

Date Collected: 05/30/13 10:50

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 07:20	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13E0187	05/31/13 12:16	CBW	TAL SPK

Client Sample ID: RW-1090B

Lab Sample ID: SWE0206-17

Date Collected: 05/30/13 10:55

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 07:20	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13E0187	05/31/13 12:35	CBW	TAL SPK

Client Sample ID: RW-1012

Lab Sample ID: SWE0206-18

Date Collected: 05/30/13 11:40

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 07:20	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0187	05/31/13 09:10	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Client Sample ID: RW-1011

Lab Sample ID: SWE0206-19

Date Collected: 05/30/13 11:55

Matrix: Drinking Water

Date Received: 05/30/13 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 07:20	CBW	TAL SPK
Total	Analysis	EPA 300.0		20.0	13E0187	05/31/13 12:53	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14



Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030334.0001

TestAmerica Job ID: SWE0206

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International / Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order # **ARCADIS**

TURNAROUND REQUEST in Business Days *
 Organic & Inorganic Analyses: 10 STD, 5 STD, 4 STD, 3 STD, 2 STD, 1 STD, <1 STD
 Petroleum Hydrocarbon Analyses: 5 STD, 4 STD, 3 STD, 2 STD, 1 STD, <1 STD
 OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT: **ARCADIS**
 REPORT TO: **TOM MULLEN**
 ADDRESS: **615 N. Longway Ridge Dr. Suite 200**
 PHONE: _____ FAX: _____
 PROJECT NAME: **YVD**
 PROJECT NUMBER: **TRD**
 SAMPLED BY: **Schuster + DeJana**

INVOICE TO: **ARCADIS - US**
 P.O. NUMBER: _____

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1. RW-1108	5/29/13 1400			W	1		
2. RW-1101	1440						
3. RW-1172	1435						
4. RW-3108	1350						
5. RW-1078	1633						
6. RW-1152	1600						
7. RW-2152	1605						
8. RW-1092	1540						
9. RW-81084	1540						
10. RW-10810	855						

RECEIVED BY: **Tom Mullen** DATE: **5/30/13**
 PRINT NAME: **Tom Mullen** TIME: **1540**
 RECEIVED BY: **Ch. Stapleton** DATE: _____
 PRINT NAME: _____ TIME: _____

RELEASED BY: **Thomas F. Mullen** FIRM: **ARCADIS**
 PRINT NAME: **Thomas F. Mullen** FIRM: _____
 RELEASED BY: _____ FIRM: _____
 PRINT NAME: _____ FIRM: _____

ADDITIONAL REMARKS: _____

TEAR: **19** PAGE **1** OF **2**

TAL-1000 (0612)



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNE0206**

CLIENT: ARCADIS	INVOICE TO: ARCADIS - US	PRESERVATIVE	
REPORT TO: TOM MULLEN	P.O. NUMBER:	REQUESTED ANALYSES	
ADDRESS: 6095 N. Legacy Ridge Drive Suite 200			
PHONE:			
PROJECT NAME: YVD			
PROJECT NUMBER: TBD			
SAMPLED BY: Sheri Fox DeJong			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1. RW-2081e	5/30/13 850		
2. RW-1102	940		
3. RW-2102	945		
4. RW-1062	1005		
5. RW-1087	1015		
6. RW-1090A	1050		
7. RW-1090B	1055		
8. RW-1012	1140		
9. RW-1011	1155		
10.			

TURNAROUND REQUEST in Business Days*
 Organic & Inorganic Analyses: 10 STD. 5 4 3 2 1 <1
 Petroleum Hydrocarbon Analyses: 5 4 3 2 1 <1
 OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charges.

MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA VOID
W	1		

RECEIVED BY: **Thomas F. Mullen** DATE: **5/30/13**
 PRINT NAME: **Thomas F. Mullen** FIRM: **ARCADIS** TIME: **15:40**
 RECEIVED BY: **Pat Jackson** DATE: **5/30/13**
 PRINT NAME: **Pat Jackson** FIRM: **TestAmerica** TIME: **15:40**

RECEIVED BY: _____ DATE: _____
 PRINT NAME: _____ FIRM: _____ TIME: _____

RECEIVED BY: _____ DATE: _____
 PRINT NAME: _____ FIRM: _____ TIME: _____

ADDITIONAL REMARKS:



**TestAmerica Spokane
Sample Receipt Form**

Work Order # <u>SNE0206</u>	Client: <u>ArCADIS</u>	Project: <u>Yakima Dairies</u>		
Date/Time Received: <u>5/20/13 15:40</u>		By: <u>CS</u>		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<u>X</u>			
Custody Seals are present and intact:			<u>X</u>	
Are CoC documents present:	<u>X</u>			
Necessary signatures:	<u>X</u>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature: <u>19</u> °C Thermometer (Circle one: Serial # <u>122208348</u> Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6)				
Temperature out of range: <input type="checkbox"/> Not enough Ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Log-in Phase	Yes	No	NA	Comments
Date/Time: <u>5/20/13 16:30</u> By: <u>CS</u>				
Are sample labels affixed and completed for each container	<u>X</u>			
Samples containers were received intact:	<u>X</u>			
Do sample IDs match the CoC	<u>X</u>			
Appropriate sample containers were received for tests requested	<u>X</u>			
Are sample volumes adequate for tests requested	<u>X</u>			
Appropriate preservatives were used for the tests requested	<u>X</u>			
pH of inorganic samples checked and is within method specification	<u>X</u>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<u>NA</u>	
Are dissolved parameters field filtered			<u>NA</u>	
Do any samples need to be filtered or preserved by the lab			<u>NA</u>	
Does this project require quick turnaround analysis		<u>X</u>		
Are there any short hold time tests (see chart below)	<u>X</u>			<u>Nitrate</u>
Are any samples within 2 days of or past expiration				
Was the CoC scanned	<u>X</u>			
Were there Non-conformance issues at login		<u>X</u>		
If yes, was a CAR generated #				<u>7</u>

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

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SWE0207

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWE0207

Client Project/Site: SK030335.0001

Client Project Description: Yakima Dairies

For:

ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 9:51:47 AM

Randee Decker, Project Manager
(509)924-9200

Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Job ID: SWE0207

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 5/31/2013 8:00:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWE0207-01	RW-3097	Drinking Water	05/30/13 13:50	05/31/13 08:00
SWE0207-02	RW-1091	Drinking Water	05/30/13 15:38	05/31/13 08:00
SWE0207-03	RW-1097	Drinking Water	05/30/13 13:55	05/31/13 08:00
SWE0207-04	RW-1110	Drinking Water	05/30/13 14:30	05/31/13 08:00
SWE0207-05	RW-1171	Drinking Water	05/30/13 15:00	05/31/13 08:00



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Client Sample ID: RW-3097

Date Collected: 05/30/13 13:50
 Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/31/13 09:30	05/31/13 10:06	1.00

Client Sample ID: RW-1091

Date Collected: 05/30/13 15:38
 Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.12		0.200		mg/l		05/31/13 09:30	05/31/13 10:24	1.00

Client Sample ID: RW-1097

Date Collected: 05/30/13 13:55
 Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	10.1		0.200		mg/l		05/31/13 09:30	05/31/13 10:43	1.00

Client Sample ID: RW-1110

Date Collected: 05/30/13 14:30
 Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.62		0.200		mg/l		05/31/13 09:30	05/31/13 11:02	1.00

Client Sample ID: RW-1171

Date Collected: 05/30/13 15:00
 Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.7		0.200		mg/l		05/31/13 09:30	05/31/13 11:20	1.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13E0187-BLK1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		05/31/13 07:20	05/31/13 11:58	1.00

Lab Sample ID: 13E0187-BS1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.69		mg/l		93.8	90 - 110

Lab Sample ID: 13E0187-MS1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: RW-3097
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.74		mg/l		94.8	80 - 120

Lab Sample ID: 13E0187-MSD1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: RW-3097
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.70		mg/l		93.9	80 - 120	0.932	12.1

Lab Sample ID: 13E0187-DUP1
Matrix: Water
Analysis Batch: 13E0187

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13E0187_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	30.6		30.2		mg/l		1.32	13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Client Sample ID: RW-3097

Date Collected: 05/30/13 13:50

Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 09:30	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0187	05/31/13 10:06	CBW	TAL SPK

Client Sample ID: RW-1091

Date Collected: 05/30/13 15:38

Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 09:30	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0187	05/31/13 10:24	CBW	TAL SPK

Client Sample ID: RW-1097

Date Collected: 05/30/13 13:55

Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 09:30	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0187	05/31/13 10:43	CBW	TAL SPK

Client Sample ID: RW-1110

Date Collected: 05/30/13 14:30

Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 09:30	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0187	05/31/13 11:02	CBW	TAL SPK

Client Sample ID: RW-1171

Date Collected: 05/30/13 15:00

Date Received: 05/31/13 08:00

Lab Sample ID: SWE0207-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13E0187_P	05/31/13 09:30	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13E0187	05/31/13 11:20	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030335.0001

TestAmerica Job ID: SWE0207

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



TestAmerica

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253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNE0207**

CLIENT: YVD		INVOICE TO: Arcadis U.S.			
REPORT TO: Tom Mullam		PRESERVATIVE			
ADDRESS: 695 Canyon Ridge Dr. Tom, Mullam@arcadis-us.com		REQUESTED ANALYSES			
PHONE: FAX:		P.O. NUMBER:			
PROJECT NAME: Yakima Valley Dairies		OTHER Specify:			
PROJECT NUMBER:		<input type="checkbox"/> 10 STD. Organic & Inorganic Analyses <input checked="" type="checkbox"/> 5 Organic & Inorganic Analyses <input type="checkbox"/> 4 Petroleum Hydrocarbon Analyses <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1			
SAMPLED BY: J. DeLong L. Sebesta		<input type="checkbox"/> OTHER Specify:			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID
1 RW-3097	5307 1350				
2 RW-1091	1 1538				
3 RW-1097	1355				
4 RW-1110	1430				
5 RW-1171	1500				
6					
7					
8					
9					
10					
RELEASED BY: John DeLong	DATE: 5-31-13	RECEIVED BY: Christina Williams	DATE: 5-31-13	FIRM: TH Spokane	DATE: 0800
PRINT NAME: John DeLong	TIME: 0800	PRINT NAME: Christina Williams	TIME: 0800	TEMP: 30	PAGE 1 OF 1
RELEASED BY: John DeLong	DATE: 5-31-13	RECEIVED BY: Christina Williams	DATE: 5-31-13	FIRM: TH Spokane	
PRINT NAME: John DeLong	TIME: 0800	PRINT NAME: Christina Williams	TIME: 0800		
RELEASED BY: John DeLong	DATE: 5-31-13	RECEIVED BY: Christina Williams	DATE: 5-31-13		
PRINT NAME: John DeLong	TIME: 0800	PRINT NAME: Christina Williams	TIME: 0800		
ADDITIONAL REMARKS:					



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SWE0207	Client: Arcadis	Project: PVD		
Date/Time Received: 0800 5-31-13 By: CLW				
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 3.0 °C Thermometer (Circle one Serial # 122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 0813 835 By: CLW				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)	X			
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X			Nitrate
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

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SWF0005

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0005
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 9:54:26 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Job ID: SWF0005

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/4/2013 8:15:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0005-01	RW-1159	Drinking Water	06/03/13 10:31	06/04/13 08:15
SWF0005-02	RW-2159	Drinking Water	06/03/13 10:35	06/04/13 08:15
SWF0005-03	RW-1041	Drinking Water	06/03/13 08:47	06/04/13 08:15
SWF0005-04	RW-3041	Drinking Water	06/03/13 08:40	06/04/13 08:15
SWF0005-05	RW-1008	Drinking Water	06/03/13 10:08	06/04/13 08:15
SWF0005-06	RW-1017	Drinking Water	06/03/13 10:07	06/04/13 08:15
SWF0005-07	RW-1020	Drinking Water	06/03/13 13:15	06/04/13 08:15
SWF0005-08	RW-1037	Drinking Water	06/03/13 13:31	06/04/13 08:15
SWF0005-09	RW-1026	Drinking Water	06/03/13 13:03	06/04/13 08:15
SWF0005-10	RW-1027	Drinking Water	06/03/13 13:46	06/04/13 08:15



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Client Sample ID: RW-1159

Date Collected: 06/03/13 10:31
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.0		0.200		mg/l		06/04/13 08:15	06/04/13 08:24	1.00

Client Sample ID: RW-2159

Date Collected: 06/03/13 10:35
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.0		0.200		mg/l		06/04/13 08:15	06/04/13 08:43	1.00

Client Sample ID: RW-1041

Date Collected: 06/03/13 08:47
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	36.8		2.00		mg/l		06/04/13 08:15	06/04/13 11:31	10.0

Client Sample ID: RW-3041

Date Collected: 06/03/13 08:40
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/04/13 08:15	06/04/13 09:20	1.00

Client Sample ID: RW-1008

Date Collected: 06/03/13 10:08
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	20.0		2.00		mg/l		06/04/13 08:15	06/04/13 11:49	10.0

Client Sample ID: RW-1017

Date Collected: 06/03/13 10:07
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	15.9		0.200		mg/l		06/04/13 08:15	06/04/13 09:57	1.00

Client Sample ID: RW-1020

Date Collected: 06/03/13 13:15
Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.40		2.00		mg/l		06/04/13 08:15	06/04/13 10:16	10.0

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0005

Client Sample ID: RW-1037

Date Collected: 06/03/13 13:31

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-08

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.30		2.00		mg/l		06/04/13 08:15	06/04/13 10:35	10.0

Client Sample ID: RW-1026

Date Collected: 06/03/13 13:03

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-09

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.30		2.00		mg/l		06/04/13 08:15	06/04/13 10:53	10.0

Client Sample ID: RW-1027

Date Collected: 06/03/13 13:46

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-10

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.00		2.00		mg/l		06/04/13 08:15	06/04/13 11:12	10.0

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0008-BLK1
Matrix: Water
Analysis Batch: 13F0008

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0008_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/04/13 09:34	06/04/13 12:27	1.00

Lab Sample ID: 13F0008-BS1
Matrix: Water
Analysis Batch: 13F0008

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0008_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.85		mg/l		97.0	90 - 110

Lab Sample ID: 13F0008-MS1
Matrix: Water
Analysis Batch: 13F0008

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 13F0008_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	0.600		5.00	5.64		mg/l		101	80 - 120

Lab Sample ID: 13F0008-MSD1
Matrix: Water
Analysis Batch: 13F0008

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 13F0008_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	0.600		5.00	5.66		mg/l		101	80 - 120	0.389	12.1

Lab Sample ID: 13F0008-DUP1
Matrix: Water
Analysis Batch: 13F0008

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13F0008_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	0.600		0.660		mg/l		9.52	13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Client Sample ID: RW-1159

Date Collected: 06/03/13 10:31

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0008	06/04/13 08:24	CBW	TAL SPK

Client Sample ID: RW-2159

Date Collected: 06/03/13 10:35

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0008	06/04/13 08:43	CBW	TAL SPK

Client Sample ID: RW-1041

Date Collected: 06/03/13 08:47

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0008	06/04/13 11:31	CBW	TAL SPK

Client Sample ID: RW-3041

Date Collected: 06/03/13 08:40

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0008	06/04/13 09:20	CBW	TAL SPK

Client Sample ID: RW-1008

Date Collected: 06/03/13 10:08

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0008	06/04/13 11:49	CBW	TAL SPK

Client Sample ID: RW-1017

Date Collected: 06/03/13 10:07

Date Received: 06/04/13 08:15

Lab Sample ID: SWF0005-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0008	06/04/13 09:57	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Client Sample ID: RW-1020

Lab Sample ID: SWF0005-07

Date Collected: 06/03/13 13:15

Matrix: Drinking Water

Date Received: 06/04/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0008	06/04/13 10:16	CBW	TAL SPK

Client Sample ID: RW-1037

Lab Sample ID: SWF0005-08

Date Collected: 06/03/13 13:31

Matrix: Drinking Water

Date Received: 06/04/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0008	06/04/13 10:35	CBW	TAL SPK

Client Sample ID: RW-1026

Lab Sample ID: SWF0005-09

Date Collected: 06/03/13 13:03

Matrix: Drinking Water

Date Received: 06/04/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0008	06/04/13 10:53	CBW	TAL SPK

Client Sample ID: RW-1027

Lab Sample ID: SWF0005-10

Date Collected: 06/03/13 13:46

Matrix: Drinking Water

Date Received: 06/04/13 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0008_P	06/04/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0008	06/04/13 11:12	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0005

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SNF0005	Client: Arctic	Project: YVD		
Date/Time Received: 8:15 6-4-13	By: EW			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other: FedEx # 8020 4658 2309				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:	<input checked="" type="checkbox"/>			
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 29 °C Thermometer (Circle one Serial # 122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-4-13 8:37 By: EW				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab		<input checked="" type="checkbox"/>		
Does this project require quick turnaround analysis		<input checked="" type="checkbox"/>		
Are there any short hold time tests (see chart below)	<input checked="" type="checkbox"/>			Nitrate
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

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SWF0019

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0019
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 9:57:31 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

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results through
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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Job ID: SWF0019

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/5/2013 7:55:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0019-01	RW-3179	Drinking Water	06/03/13 16:40	06/05/13 07:55
SWF0019-02	RW-1179	Drinking Water	06/03/13 16:42	06/05/13 07:55
SWF0019-03	RW-1072	Drinking Water	06/03/13 17:10	06/05/13 07:55
SWF0019-04	RW-1031	Drinking Water	06/03/13 17:26	06/05/13 07:55
SWF0019-05	RW-1014	Drinking Water	06/03/13 19:07	06/05/13 07:55
SWF0019-06	RW-1075	Drinking Water	06/04/13 10:17	06/05/13 07:55
SWF0019-07	RW-2075	Drinking Water	06/04/13 10:20	06/05/13 07:55
SWF0019-08	RW-1042	Drinking Water	06/04/13 12:34	06/05/13 07:55
SWF0019-09	RW-1064	Drinking Water	06/04/13 14:00	06/05/13 07:55



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Client Sample ID: RW-3179

Date Collected: 06/03/13 16:40
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/05/13 08:15	06/05/13 08:27	1.00

Client Sample ID: RW-1179

Date Collected: 06/03/13 16:42
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.68		0.400		mg/l		06/05/13 08:15	06/05/13 08:46	2.00

Client Sample ID: RW-1072

Date Collected: 06/03/13 17:10
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	4.86		0.400		mg/l		06/05/13 08:15	06/05/13 09:04	2.00

Client Sample ID: RW-1031

Date Collected: 06/03/13 17:26
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.50		0.400		mg/l		06/05/13 08:15	06/05/13 09:23	2.00

Client Sample ID: RW-1014

Date Collected: 06/03/13 19:07
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	50.9		2.00		mg/l		06/05/13 08:15	06/05/13 11:15	10.0

Client Sample ID: RW-1075

Date Collected: 06/04/13 10:17
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	11.3		0.400		mg/l		06/05/13 08:15	06/05/13 10:00	2.00

Client Sample ID: RW-2075

Date Collected: 06/04/13 10:20
Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	11.2		0.200		mg/l		06/05/13 08:15	06/05/13 10:19	1.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Client Sample ID: RW-1042

Date Collected: 06/04/13 12:34

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-08

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	39.3		0.400		mg/l		06/05/13 08:15	06/05/13 10:38	2.00

Client Sample ID: RW-1064

Date Collected: 06/04/13 14:00

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-09

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.74		0.400		mg/l		06/05/13 08:15	06/05/13 10:56	2.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0019

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0022-BLK1

Matrix: Water

Analysis Batch: 13F0022

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 13F0022_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/05/13 08:15	06/05/13 12:48	1.00

Lab Sample ID: 13F0022-BS1

Matrix: Water

Analysis Batch: 13F0022

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 13F0022_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	5.06		mg/l		101	90 - 110

Lab Sample ID: 13F0022-MS1

Matrix: Water

Analysis Batch: 13F0022

Client Sample ID: RW-3179

Prep Type: Total

Prep Batch: 13F0022_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.83		mg/l		96.6	80 - 120

Lab Sample ID: 13F0022-MSD1

Matrix: Water

Analysis Batch: 13F0022

Client Sample ID: RW-3179

Prep Type: Total

Prep Batch: 13F0022_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.82		mg/l		96.4	80 - 120	0.228	12.1

Lab Sample ID: 13F0022-DUP1

Matrix: Water

Analysis Batch: 13F0022

Client Sample ID: RW-3179

Prep Type: Total

Prep Batch: 13F0022_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Client Sample ID: RW-3179

Date Collected: 06/03/13 16:40

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0022	06/05/13 08:27	CBW	TAL SPK

Client Sample ID: RW-1179

Date Collected: 06/03/13 16:42

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0022	06/05/13 08:46	CBW	TAL SPK

Client Sample ID: RW-1072

Date Collected: 06/03/13 17:10

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0022	06/05/13 09:04	CBW	TAL SPK

Client Sample ID: RW-1031

Date Collected: 06/03/13 17:26

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0022	06/05/13 09:23	CBW	TAL SPK

Client Sample ID: RW-1014

Date Collected: 06/03/13 19:07

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0022	06/05/13 11:15	CBW	TAL SPK

Client Sample ID: RW-1075

Date Collected: 06/04/13 10:17

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0022	06/05/13 10:00	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Client Sample ID: RW-2075

Date Collected: 06/04/13 10:20

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-07

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0022	06/05/13 10:19	CBW	TAL SPK

Client Sample ID: RW-1042

Date Collected: 06/04/13 12:34

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-08

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0022	06/05/13 10:38	CBW	TAL SPK

Client Sample ID: RW-1064

Date Collected: 06/04/13 14:00

Date Received: 06/05/13 07:55

Lab Sample ID: SWF0019-09

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0022_P	06/05/13 08:15	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0022	06/05/13 10:56	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14



Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0019

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-3047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order # **SNWFO019**

CLIENT: ARCADIS		INVOICE TO: ARCADIS - US		TURNAROUND REQUEST	
REPORT TO: TOM MULLEN		P.O. NUMBER:		<input type="checkbox"/> 10 STD. <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses <input type="checkbox"/> 5 STD. <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses	
ADDRESS: 1915 W. WYONS AVE LIBERTY LAKE, WA 99019		PRESERVATIVE		in Business Days * OTHER Specify:	
PHONE:		REQUESTED ANALYSES		* Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NAME: Yakima Valley Dunes		MATRIX (W, S, O)		LOCATION/ COMMENTS	
PROJECT NUMBER: TBD		MATERIAL		# OF CONT.	
SAMPLED BY: Sebesta + Lyons		DATE/TIME		TA WO ID	
CLIENT SAMPLE IDENTIFICATION		DATE/TIME			
1. RW-3179	6-8-13	1640			
2. RW-1179	10-4-13	1648			
3. RW-1072	1710				
4. RW-1031	1720				
5. RW-1014	1907				
6. RW-1075	10-4-13	1017			
7. RW-2075	1020				
8. RW-1042	1834				
9. RW-10104	1400				
10					
RELEASED BY: Lisa M. Sebesta	DATE: 10-4-13	RECEIVED BY: Chris Williams	DATE: 7-55	FIRM: ARCADIS	DATE: 6-5-13
PRINT NAME: Lisa M. Sebesta	TIME: 1500	PRINT NAME: Chris Williams	TIME: 1500	FIRM: ARCADIS	TIME: 1500
RELEASED BY:	DATE:	RECEIVED BY:	DATE:	FIRM:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:	FIRM:	TIME:
ADDITIONAL REMARKS:		TEMP: 31		PAGE 1 OF 1	



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SNFO019	Client: Arcadis	Project: YVD		
Date/Time Received: 7:55 6-5-13	By: aw			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other: F. DEX 8020 4658 2310				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:	X			
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 31 °C Thermometer (Circle one Serial # 122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-5-13 8:32 By: aw				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification			X	
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X			Nitrate
Are any samples within 2 days of or past expiration	X			Nitrate
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWF0030

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0030
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:04:26 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Job ID: SWF0030

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/6/2013 8:00:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0030-01	RW-3048	Drinking Water	06/04/13 16:35	06/06/13 08:00
SWF0030-02	RW-1127	Drinking Water	06/04/13 17:06	06/06/13 08:00
SWF0030-03	RW-2127	Drinking Water	06/04/13 17:07	06/06/13 08:00
SWF0030-04	RW-1121	Drinking Water	06/04/13 17:52	06/06/13 08:00
SWF0030-05	RW-1048	Drinking Water	06/04/13 16:42	06/06/13 08:00
SWF0030-06	RW-1122	Drinking Water	06/04/13 18:10	06/06/13 08:00
SWF0030-07	RW-1116	Drinking Water	06/04/13 19:45	06/06/13 08:00
SWF0030-08	RW-1124	Drinking Water	06/04/13 17:34	06/06/13 08:00
SWF0030-09	RW-1115	Drinking Water	06/04/13 18:25	06/06/13 08:00
SWF0030-10	RW-2068	Drinking Water	06/05/13 10:22	06/06/13 08:00
SWF0030-11	RW-1161	Drinking Water	06/05/13 12:11	06/06/13 08:00
SWF0030-12	RW-1068	Drinking Water	06/05/13 10:21	06/06/13 08:00
SWF0030-13	RW-1130	Drinking Water	06/05/13 13:41	06/06/13 08:00
SWF0030-14	RW-1160	Drinking Water	06/05/13 12:23	06/06/13 08:00

Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Client Sample ID: RW-3048

Date Collected: 06/04/13 16:35
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/06/13 08:29	06/06/13 08:30	1.00

Client Sample ID: RW-1127

Date Collected: 06/04/13 17:06
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	13.7		0.400		mg/l		06/06/13 08:29	06/06/13 08:49	2.00

Client Sample ID: RW-2127

Date Collected: 06/04/13 17:07
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	14.0		0.200		mg/l		06/06/13 08:59	06/06/13 09:07	1.00

Client Sample ID: RW-1121

Date Collected: 06/04/13 17:52
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	15.6		0.400		mg/l		06/06/13 08:59	06/06/13 09:26	2.00

Client Sample ID: RW-1048

Date Collected: 06/04/13 16:42
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.40		0.400		mg/l		06/06/13 08:59	06/06/13 09:44	2.00

Client Sample ID: RW-1122

Date Collected: 06/04/13 18:10
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	26.9		0.400		mg/l		06/06/13 08:59	06/06/13 10:03	2.00

Client Sample ID: RW-1116

Date Collected: 06/04/13 19:45
Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	4.36		0.400		mg/l		06/06/13 08:59	06/06/13 10:22	2.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0030

Client Sample ID: RW-1124

Lab Sample ID: SWF0030-08

Date Collected: 06/04/13 17:34

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	18.6		0.400		mg/l		06/06/13 08:59	06/06/13 10:40	2.00

Client Sample ID: RW-1115

Lab Sample ID: SWF0030-09

Date Collected: 06/04/13 18:25

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.76		0.400		mg/l		06/06/13 08:59	06/06/13 10:59	2.00

Client Sample ID: RW-2068

Lab Sample ID: SWF0030-10

Date Collected: 06/05/13 10:22

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	29.4		2.00		mg/l		06/06/13 08:59	06/06/13 13:47	10.0

Client Sample ID: RW-1161

Lab Sample ID: SWF0030-11

Date Collected: 06/05/13 12:11

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.16		0.400		mg/l		06/06/13 08:59	06/06/13 11:36	2.00

Client Sample ID: RW-1068

Lab Sample ID: SWF0030-12

Date Collected: 06/05/13 10:21

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	30.7		0.400		mg/l		06/06/13 08:59	06/06/13 11:55	2.00

Client Sample ID: RW-1130

Lab Sample ID: SWF0030-13

Date Collected: 06/05/13 13:41

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.40		0.400		mg/l		06/06/13 08:59	06/06/13 12:13	2.00

Client Sample ID: RW-1160

Lab Sample ID: SWF0030-14

Date Collected: 06/05/13 12:23

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.16		0.400		mg/l		06/06/13 08:59	06/06/13 12:32	2.00

TestAmerica Spokane

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0034-BLK1
Matrix: Water
Analysis Batch: 13F0034

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0034_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/06/13 08:59	06/06/13 14:24	1.00

Lab Sample ID: 13F0034-BS1
Matrix: Water
Analysis Batch: 13F0034

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0034_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.99		mg/l		99.8	90 - 110

Lab Sample ID: 13F0034-MS1
Matrix: Water
Analysis Batch: 13F0034

Client Sample ID: RW-3048
Prep Type: Total
Prep Batch: 13F0034_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.85		mg/l		97.0	80 - 120

Lab Sample ID: 13F0034-MSD1
Matrix: Water
Analysis Batch: 13F0034

Client Sample ID: RW-3048
Prep Type: Total
Prep Batch: 13F0034_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.85		mg/l		97.0	80 - 120	0.00	12.1

Lab Sample ID: 13F0034-DUP1
Matrix: Water
Analysis Batch: 13F0034

Client Sample ID: RW-3048
Prep Type: Total
Prep Batch: 13F0034_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Client Sample ID: RW-3048

Date Collected: 06/04/13 16:35

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:29	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0034	06/06/13 08:30	CBW	TAL SPK

Client Sample ID: RW-1127

Date Collected: 06/04/13 17:06

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:29	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 08:49	CBW	TAL SPK

Client Sample ID: RW-2127

Date Collected: 06/04/13 17:07

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0034	06/06/13 09:07	CBW	TAL SPK

Client Sample ID: RW-1121

Date Collected: 06/04/13 17:52

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 09:26	CBW	TAL SPK

Client Sample ID: RW-1048

Date Collected: 06/04/13 16:42

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 09:44	CBW	TAL SPK

Client Sample ID: RW-1122

Date Collected: 06/04/13 18:10

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 10:03	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Client Sample ID: RW-1116

Lab Sample ID: SWF0030-07

Date Collected: 06/04/13 19:45

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 10:22	CBW	TAL SPK

Client Sample ID: RW-1124

Lab Sample ID: SWF0030-08

Date Collected: 06/04/13 17:34

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 10:40	CBW	TAL SPK

Client Sample ID: RW-1115

Lab Sample ID: SWF0030-09

Date Collected: 06/04/13 18:25

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 10:59	CBW	TAL SPK

Client Sample ID: RW-2068

Lab Sample ID: SWF0030-10

Date Collected: 06/05/13 10:22

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0034	06/06/13 13:47	CBW	TAL SPK

Client Sample ID: RW-1161

Lab Sample ID: SWF0030-11

Date Collected: 06/05/13 12:11

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 11:36	CBW	TAL SPK

Client Sample ID: RW-1068

Lab Sample ID: SWF0030-12

Date Collected: 06/05/13 10:21

Matrix: Drinking Water

Date Received: 06/06/13 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 11:55	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Client Sample ID: RW-1130

Date Collected: 06/05/13 13:41

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-13

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 12:13	CBW	TAL SPK

Client Sample ID: RW-1160

Date Collected: 06/05/13 12:23

Date Received: 06/06/13 08:00

Lab Sample ID: SWF0030-14

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0034_P	06/06/13 08:59	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0034	06/06/13 12:32	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0030

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order # **ANFO080**

INVOICE TO: **ARCADIS US**

P.O. NUMBER:

CLIENT: **ARCADIS**

REPORT TO: **JMULLON**

ADDRESS: **695 N. Legacy Ridge Dr Suite 200
 Liberty Lake WA 99019**

PHONE:

PROJECT NAME: **Ywema Valley Drives**

PROJECT NUMBER: **7P0**

SAMPLED BY: **Sheela Lynn**

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	PRESERVATIVE	REQUESTED ANALYSES
1. RW-3048	6-4-13 1635		
2. RW-1127	1706		
3. RW-2127	1707		
4. RW-1121	1752		
5. RW-1048	1042		
6. RW-1122	1810		
7. RW-1116	1945		
8. RW-1124	1734		
9. RW-1115	1625		
10. RW-2068	6-5-13 1022		

Matrix: **W**

Turnaround Request: **W**

Matrix (W, S, O): **W**

OF CONT: **1**

LOCATION/COMMENTS: **TA**

TA WO ID:

OTHER: **Specify:**

Organic & Inorganic Analyses: **1** **2** **3** **4** **5** **<1**

Petroleum Hydrocarbon Analyses: **1** **2** **3** **4** **5** **<1**

STD: **10** **5** **4** **3** **2** **1** **<1**

* Turnaround Requests Less than standard may incur Rush Charges.

RECEIVED BY: **Chris Williams** DATE: **6-6-13**

PRINT NAME: **Chris Williams** FIRM: **TA Systems** TIME: **8:00**

RECEIVED BY: **to ready** DATE: **6-5-13**

PRINT NAME: **ARCADIS** FIRM: **ARCADIS** TIME: **1500**

TEMP: **3.9** PAGE: **1** OF **2**

ADDITIONAL REMARKS:



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA, 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNF030**

CLIENT: ARCADIS		INVOICE TO: ARCADIS-US		TURNAROUND REQUEST			
REPORT TO: T. Mullen		P.O. NUMBER:		in Business Days *			
ADDRESS:		PRESERVATIVE		<input type="checkbox"/> 10 STD. Organic & Inorganic Analyses <input checked="" type="checkbox"/> 5 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 4 STD. <input type="checkbox"/> 3 STD. <input type="checkbox"/> 2 STD. <input type="checkbox"/> 1 STD. <input type="checkbox"/> <1 STD.			
PROJECT NAME: Yakima Valley Dunes		REQUESTED ANALYSES		OTHER Specify:			
PROJECT NUMBER:							
SAMPLED BY: Subst + Lyon							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME			MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID
1. RW-1101	6-5-13 1011			W	1		
2. RW-1068	1021			↓			
3. RW-1130	1341			↓			
4. RW-1160	1223			↓			
5.							
6.							
7.							
8.							
9.							
10.							
RELEASED BY: Ryan M. Subst	DATE: 6-5-13	RECEIVED BY: Christina Williams	DATE: 6-6-13	FIRM: ARCADIS	FIRM: TA Spokane	DATE: 6-6-13	TIME: 8:00
PRINT NAME:	TIME: 1500	PRINT NAME:	TIME: 1500			DATE:	TIME:
RELEASED BY:	DATE: 6-5-13	RECEIVED BY:	DATE: 6-5-13	FIRM:	FIRM:	DATE:	TIME:
PRINT NAME:	TIME: 1500	PRINT NAME:	TIME: 1500			DATE:	TIME:
ADDITIONAL REMARKS:						TEMP: 3.1	PAGE: 2 OF 2



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SNF0030	Client: Arcadis	Project: YVD		
Date/Time Received: 6-6-13 8:00	By: CW			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input checked="" type="checkbox"/> Courler <input type="checkbox"/> Client <input type="checkbox"/> Other: FEDEX # 8020 4658 2342				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	8			
Custody Seals are present and intact:	8			
Are CoC documents present:	8			
Necessary signatures:	8			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 3.4 °C Thermometer (Circle one Serial #122208348) Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-6-13 8:30 By: PH				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab			X	
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X			Nitrate
Are any samples within 2 days of or past expiration	X			Nitrate
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWF0049

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0049
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:06:42 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Job ID: SWF0049

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/7/2013 11:30:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0049-01	RW-1153	Drinking Water	06/05/13 18:32	06/07/13 11:30
SWF0049-02	RW-2141	Drinking Water	06/06/13 11:20	06/07/13 11:30
SWF0049-03	RW-1139	Drinking Water	06/05/13 17:19	06/07/13 11:30
SWF0049-04	RW-3139	Drinking Water	06/05/13 17:15	06/07/13 11:30
SWF0049-05	RW-1165	Drinking Water	06/05/13 19:26	06/07/13 11:30
SWF0049-06	RW-3083	Drinking Water	06/06/13 09:00	06/07/13 11:30
SWF0049-07	RW-1141	Drinking Water	06/06/13 11:16	06/07/13 11:30
SWF0049-08	RW-1083	Drinking Water	06/06/13 10:52	06/07/13 11:30
SWF0049-09	RW-1142	Drinking Water	06/06/13 14:08	06/07/13 11:30
SWF0049-10	RW-1145	Drinking Water	06/05/13 17:56	06/07/13 11:30



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Client Sample ID: RW-1153

Date Collected: 06/05/13 18:32
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.78		0.400		mg/l		06/07/13 10:47	06/07/13 11:49	2.00

Client Sample ID: RW-2141

Date Collected: 06/06/13 11:20
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	32.6		2.00		mg/l		06/07/13 10:47	06/07/13 13:23	10.0

Client Sample ID: RW-1139

Date Collected: 06/05/13 17:19
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	30.6		0.400		mg/l		06/07/13 10:47	06/07/13 12:08	2.00

Client Sample ID: RW-3139

Date Collected: 06/05/13 17:15
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/07/13 10:47	06/07/13 12:27	1.00

Client Sample ID: RW-1165

Date Collected: 06/05/13 19:26
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.30		0.400		mg/l		06/07/13 10:47	06/07/13 12:45	2.00

Client Sample ID: RW-3083

Date Collected: 06/06/13 09:00
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/07/13 10:47	06/07/13 13:41	1.00

Client Sample ID: RW-1141

Date Collected: 06/06/13 11:16
Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	30.2		0.400		mg/l		06/07/13 10:47	06/07/13 14:00	2.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Client Sample ID: RW-1083

Date Collected: 06/06/13 10:52

Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-08

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	36.5		0.400		mg/l		06/07/13 10:47	06/07/13 14:18	2.00

Client Sample ID: RW-1142

Date Collected: 06/06/13 14:08

Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-09

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	18.5		0.400		mg/l		06/07/13 10:47	06/07/13 14:37	2.00

Client Sample ID: RW-1145

Date Collected: 06/05/13 17:56

Date Received: 06/07/13 11:30

Lab Sample ID: SWF0049-10

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	27.3		0.400		mg/l		06/07/13 10:47	06/07/13 13:04	2.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0049

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0043-BLK1
Matrix: Water
Analysis Batch: 13F0043

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0043_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/07/13 10:58	06/07/13 16:10	1.00

Lab Sample ID: 13F0043-BS1
Matrix: Water
Analysis Batch: 13F0043

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0043_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.94		mg/l		98.8	90 - 110

Lab Sample ID: 13F0043-MS1
Matrix: Water
Analysis Batch: 13F0043

Client Sample ID: RW-3083
Prep Type: Total
Prep Batch: 13F0043_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.81		mg/l		96.1	80 - 120

Lab Sample ID: 13F0043-MSD1
Matrix: Water
Analysis Batch: 13F0043

Client Sample ID: RW-3083
Prep Type: Total
Prep Batch: 13F0043_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.82		mg/l		96.4	80 - 120	0.229	12.1

Lab Sample ID: 13F0043-DUP1
Matrix: Water
Analysis Batch: 13F0043

Client Sample ID: RW-3083
Prep Type: Total
Prep Batch: 13F0043_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Client Sample ID: RW-1153

Lab Sample ID: SWF0049-01

Date Collected: 06/05/13 18:32

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 11:49	CBW	TAL SPK

Client Sample ID: RW-2141

Lab Sample ID: SWF0049-02

Date Collected: 06/06/13 11:20

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13F0043	06/07/13 13:23	CBW	TAL SPK

Client Sample ID: RW-1139

Lab Sample ID: SWF0049-03

Date Collected: 06/05/13 17:19

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 12:08	CBW	TAL SPK

Client Sample ID: RW-3139

Lab Sample ID: SWF0049-04

Date Collected: 06/05/13 17:15

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0043	06/07/13 12:27	CBW	TAL SPK

Client Sample ID: RW-1165

Lab Sample ID: SWF0049-05

Date Collected: 06/05/13 19:26

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 12:45	CBW	TAL SPK

Client Sample ID: RW-3083

Lab Sample ID: SWF0049-06

Date Collected: 06/06/13 09:00

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0043	06/07/13 13:41	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Client Sample ID: RW-1141

Lab Sample ID: SWF0049-07

Date Collected: 06/06/13 11:16

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 14:00	CBW	TAL SPK

Client Sample ID: RW-1083

Lab Sample ID: SWF0049-08

Date Collected: 06/06/13 10:52

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 14:18	CBW	TAL SPK

Client Sample ID: RW-1142

Lab Sample ID: SWF0049-09

Date Collected: 06/06/13 14:08

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 14:37	CBW	TAL SPK

Client Sample ID: RW-1145

Lab Sample ID: SWF0049-10

Date Collected: 06/05/13 17:56

Matrix: Drinking Water

Date Received: 06/07/13 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0043_P	06/07/13 10:47	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0043	06/07/13 13:04	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0049

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNR0014**

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses
 10 STD. 5 STD. 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 5 STD. 4 3 2 1 <1

OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charges

CLIENT: ACORDS		INVOICE TO: ACORDS - US	
REPORT TO: TOM MILLER		PROJECT NAME: Yakema Valley Series	
ADDRESS: 695 W. 1st Liberty Lake 99019		PROJECT NUMBER: Legacy Ridge Drive	
PHONE: _____		PRESERVATIVE: _____	
PROJECT NAME: Yakema Valley Series		REQUESTED ANALYSES: Neutrals	
PROJECT NUMBER: _____		P.O. NUMBER: _____	
SAMPLED BY: Shelby + Lynn		DATE: _____	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DATE	TIME
1. RW-1153	6-5-13 1832	6-7-13	1130
2. RW-2141	6-6-13 1120		
3. RW-1139	6-5-13 1715		
4. RW-3139	6-5-13 1715		
5. RW-1165	6-5-13 1926		
6. RW-3083	6-6-13 908		
7. RW-1141	6-6-13 1116		
8. RW-1083	6-6-13 1052		
9. RW-1142	6-6-13 1408		
10. RW-1145	6-5-13 1730		
RELEASED BY: Shelby	DATE: 6-7-13	RECEIVED BY: Art Stankovic	DATE: 6-7-13
PRINT NAME: _____	TIME: 1130	PRINT NAME: _____	TIME: 11:30
FRM: ACORDS	DATE: _____	FRM: _____	DATE: _____
ADDITIONAL REMARKS: _____	TIME: _____	ADDITIONAL REMARKS: _____	TIME: _____

**TestAmerica Spokane
Sample Receipt Form**

Work Order # SNFO049	Client: Arcadis	Project: Kakima Paines		
Date/Time Received: 6-7-13	By: LS			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other: _____				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other: _____				
Temperature: 3.2 °C Thermometer (Circle one Serial # 422208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other: _____				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-7-13 11:33 By: LS				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X	X		Nitrate
Are any samples within 2 days of or past expiration	X			Nitrate
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			0	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012

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SWF0058

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0058
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:10:51 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Job ID: SWF0058

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/11/2013 7:50:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0058-01	RW-1224	Drinking Water	06/09/13 16:00	06/11/13 07:50
SWF0058-02	RW-2224	Drinking Water	06/09/13 16:03	06/11/13 07:50
SWF0058-03	RW-3214	Drinking Water	06/09/13 18:05	06/11/13 07:50
SWF0058-04	RW-1214	Drinking Water	06/09/13 18:12	06/11/13 07:50
SWF0058-05	RW-1237	Drinking Water	06/09/13 19:00	06/11/13 07:50
SWF0058-06	RW-1221	Drinking Water	06/09/13 19:28	06/11/13 07:50
SWF0058-07	RW-1235	Drinking Water	06/09/13 18:32	06/11/13 07:50
SWF0058-08	RW-1238	Drinking Water	06/09/13 19:44	06/11/13 07:50
SWF0058-09	RW-1230	Drinking Water	06/10/13 11:19	06/11/13 07:50



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Client Sample ID: RW-1224

Date Collected: 06/09/13 16:00
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.26		0.400		mg/l		06/11/13 08:40	06/11/13 08:52	2.00

Client Sample ID: RW-2224

Date Collected: 06/09/13 16:03
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.28		0.400		mg/l		06/11/13 08:40	06/11/13 09:10	2.00

Client Sample ID: RW-3214

Date Collected: 06/09/13 18:05
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/11/13 08:40	06/11/13 14:08	1.00

Client Sample ID: RW-1214

Date Collected: 06/09/13 18:12
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.7		0.400		mg/l		06/11/13 08:40	06/11/13 09:48	2.00

Client Sample ID: RW-1237

Date Collected: 06/09/13 19:00
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	35.7		0.400		mg/l		06/11/13 08:40	06/11/13 10:06	2.00

Client Sample ID: RW-1221

Date Collected: 06/09/13 19:28
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	13.0		0.400		mg/l		06/11/13 08:40	06/11/13 10:25	2.00

Client Sample ID: RW-1235

Date Collected: 06/09/13 18:32
Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	6.16		0.400		mg/l		06/11/13 08:40	06/11/13 10:43	2.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Client Sample ID: RW-1238

Date Collected: 06/09/13 19:44

Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-08

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	13.8		0.400		mg/l		06/11/13 08:40	06/11/13 11:02	2.00

Client Sample ID: RW-1230

Date Collected: 06/10/13 11:19

Date Received: 06/11/13 07:50

Lab Sample ID: SWF0058-09

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	25.9		0.400		mg/l		06/11/13 08:40	06/11/13 11:21	2.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0062-BLK1
Matrix: Water
Analysis Batch: 13F0062

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0062_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/11/13 08:00	06/11/13 12:54	1.00

Lab Sample ID: 13F0062-BS1
Matrix: Water
Analysis Batch: 13F0062

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0062_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.97		mg/l		99.4	90 - 110

Lab Sample ID: 13F0062-MS1
Matrix: Water
Analysis Batch: 13F0062

Client Sample ID: RW-3214
Prep Type: Total
Prep Batch: 13F0062_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.69		mg/l		93.7	80 - 120

Lab Sample ID: 13F0062-MSD1
Matrix: Water
Analysis Batch: 13F0062

Client Sample ID: RW-3214
Prep Type: Total
Prep Batch: 13F0062_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.71		mg/l		94.2	80 - 120	0.468	12.1

Lab Sample ID: 13F0062-DUP1
Matrix: Water
Analysis Batch: 13F0062

Client Sample ID: RW-3214
Prep Type: Total
Prep Batch: 13F0062_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Client Sample ID: RW-1224

Lab Sample ID: SWF0058-01

Date Collected: 06/09/13 16:00

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 08:52	CBW	TAL SPK

Client Sample ID: RW-2224

Lab Sample ID: SWF0058-02

Date Collected: 06/09/13 16:03

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 09:10	CBW	TAL SPK

Client Sample ID: RW-3214

Lab Sample ID: SWF0058-03

Date Collected: 06/09/13 18:05

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0062	06/11/13 14:08	CBW	TAL SPK

Client Sample ID: RW-1214

Lab Sample ID: SWF0058-04

Date Collected: 06/09/13 18:12

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 09:48	CBW	TAL SPK

Client Sample ID: RW-1237

Lab Sample ID: SWF0058-05

Date Collected: 06/09/13 19:00

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 10:06	CBW	TAL SPK

Client Sample ID: RW-1221

Lab Sample ID: SWF0058-06

Date Collected: 06/09/13 19:28

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 10:25	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Client Sample ID: RW-1235

Lab Sample ID: SWF0058-07

Date Collected: 06/09/13 18:32

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 10:43	CBW	TAL SPK

Client Sample ID: RW-1238

Lab Sample ID: SWF0058-08

Date Collected: 06/09/13 19:44

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 11:02	CBW	TAL SPK

Client Sample ID: RW-1230

Lab Sample ID: SWF0058-09

Date Collected: 06/10/13 11:19

Matrix: Drinking Water

Date Received: 06/11/13 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0062_P	06/11/13 08:40	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0062	06/11/13 11:21	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0058

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **3110008**

CLIENT: AREADIS		INVOICE TO: AREADIS - US			
REPORT TO: TOM MULLER		PRESERVATIVE			
ADDRESS: 6915 N. Legacy Ridge Dr. #200		REQUESTED ANALYSES			
PHONE: Liberty Lake WA 98019		P.O. NUMBER:			
PROJECT NAME: YVD		OTHER Specify:			
PROJECT NUMBER: TBD		<input type="checkbox"/> 10 STD. <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses Petroleum Hydrocarbon Analyses			
SAMPLED BY: Subert + 1/10/11		<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
1. RW-1224	6-9-13	W	1		
2. RW-2224	1603		1		
3. RW-3214	1805		1		
4. RW-1214	1812		1		
5. RW-1237	1900		1		
6. RW-1221	1928		1		
7. RW-1235	1832		1		
8. RW-1238	1944		1		
9. RW-1220	6-10-13		1		
10					

* Turnaround Requests less than standard may incur Rush Charges.

RECEIVED BY: **Christina**
 PRINT NAME: **Christina**
 DATE: **6-11-13**
 TIME: **7:50**

RECEIVED BY: **Christina**
 PRINT NAME: **Christina**
 DATE: **6-10-13**
 TIME: **1500 to Fed**

RECEIVED BY: **Subert**
 PRINT NAME: **Subert**
 DATE: **6-10-13**
 TIME: **1500 to Fed**

RECEIVED BY: **Subert**
 PRINT NAME: **Subert**
 DATE: **6-10-13**
 TIME: **1500 to Fed**

ADDITIONAL REMARKS:

TEMP: **29** PAGES: **1** OF **1**



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SINFC008	Client: Aroadis	Project: YUD		
Date/Time Received: 6-11-13 0750	By: CW			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill: 9020 4658 2331				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:	<input checked="" type="checkbox"/>			
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 29 °C Thermometer (Circle one Serial #122208348, Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6)				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-11-13 8:26 By: CS				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab		<input checked="" type="checkbox"/>		
Does this project require quick turnaround analysis		<input checked="" type="checkbox"/>		
Are there any short hold time tests (see chart below)	<input checked="" type="checkbox"/>			Nitrate
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWF0070

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0070
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:13:58 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Job ID: SWF0070

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/11/2013 3:25:00 PM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0070-01	RW-1204	Drinking Water	06/10/13 18:40	06/11/13 15:25
SWF0070-02	RW-1218	Drinking Water	06/10/13 17:55	06/11/13 15:25
SWF0070-03	RW-1219	Drinking Water	06/10/13 18:10	06/11/13 15:25
SWF0070-04	RW-1216	Drinking Water	06/10/13 17:02	06/11/13 15:25
SWF0070-05	RW-1211	Drinking Water	06/10/13 16:40	06/11/13 15:25
SWF0070-06	RW-1212	Drinking Water	06/10/13 16:00	06/11/13 15:25
SWF0070-07	RW-2212	Drinking Water	06/10/13 16:05	06/11/13 15:25
SWF0070-08	RW-1169	Drinking Water	06/10/13 15:08	06/11/13 15:25
SWF0070-09	RW-3169	Drinking Water	06/10/13 14:55	06/11/13 15:25



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0070

Client Sample ID: RW-1204

Date Collected: 06/10/13 18:40
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	13.1		0.400		mg/l		06/11/13 16:28	06/11/13 16:38	2.00

Client Sample ID: RW-1218

Date Collected: 06/10/13 17:55
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	26.6		0.400		mg/l		06/11/13 16:28	06/11/13 16:57	2.00

Client Sample ID: RW-1219

Date Collected: 06/10/13 18:10
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	31.1		0.400		mg/l		06/11/13 16:28	06/11/13 17:16	2.00

Client Sample ID: RW-1216

Date Collected: 06/10/13 17:02
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	4.56		0.400		mg/l		06/11/13 16:28	06/11/13 17:34	2.00

Client Sample ID: RW-1211

Date Collected: 06/10/13 16:40
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.06		0.400		mg/l		06/11/13 16:28	06/11/13 17:53	2.00

Client Sample ID: RW-1212

Date Collected: 06/10/13 16:00
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.5		0.400		mg/l		06/11/13 16:28	06/11/13 18:12	2.00

Client Sample ID: RW-2212

Date Collected: 06/10/13 16:05
 Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.3		0.400		mg/l		06/11/13 16:28	06/11/13 18:30	2.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Client Sample ID: RW-1169

Date Collected: 06/10/13 15:08

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-08

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.72		0.400		mg/l		06/11/13 16:28	06/11/13 18:49	2.00

Client Sample ID: RW-3169

Date Collected: 06/10/13 14:55

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-09

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/11/13 16:28	06/11/13 19:07	1.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0070

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0067-BLK1
Matrix: Water
Analysis Batch: 13F0067

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0067_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/11/13 16:28	06/11/13 20:40	1.00

Lab Sample ID: 13F0067-BS1
Matrix: Water
Analysis Batch: 13F0067

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0067_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	5.07		mg/l		101	90 - 110

Lab Sample ID: 13F0067-MS1
Matrix: Water
Analysis Batch: 13F0067

Client Sample ID: RW-3169
Prep Type: Total
Prep Batch: 13F0067_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.91		mg/l		98.1	80 - 120

Lab Sample ID: 13F0067-MSD1
Matrix: Water
Analysis Batch: 13F0067

Client Sample ID: RW-3169
Prep Type: Total
Prep Batch: 13F0067_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.90		mg/l		97.9	80 - 120	0.224	12.1

Lab Sample ID: 13F0067-DUP1
Matrix: Water
Analysis Batch: 13F0067

Client Sample ID: RW-3169
Prep Type: Total
Prep Batch: 13F0067_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Client Sample ID: RW-1204

Date Collected: 06/10/13 18:40

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 16:38	CBW	TAL SPK

Client Sample ID: RW-1218

Date Collected: 06/10/13 17:55

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 16:57	CBW	TAL SPK

Client Sample ID: RW-1219

Date Collected: 06/10/13 18:10

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 17:16	CBW	TAL SPK

Client Sample ID: RW-1216

Date Collected: 06/10/13 17:02

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 17:34	CBW	TAL SPK

Client Sample ID: RW-1211

Date Collected: 06/10/13 16:40

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 17:53	CBW	TAL SPK

Client Sample ID: RW-1212

Date Collected: 06/10/13 16:00

Date Received: 06/11/13 15:25

Lab Sample ID: SWF0070-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 18:12	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Client Sample ID: RW-2212

Lab Sample ID: SWF0070-07

Date Collected: 06/10/13 16:05

Matrix: Drinking Water

Date Received: 06/11/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 18:30	CBW	TAL SPK

Client Sample ID: RW-1169

Lab Sample ID: SWF0070-08

Date Collected: 06/10/13 15:08

Matrix: Drinking Water

Date Received: 06/11/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0067	06/11/13 18:49	CBW	TAL SPK

Client Sample ID: RW-3169

Lab Sample ID: SWF0070-09

Date Collected: 06/10/13 14:55

Matrix: Drinking Water

Date Received: 06/11/13 15:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0067_P	06/11/13 16:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0067	06/11/13 19:07	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0070

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119
 5755 5th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

Work Order #: **SMFO010**

CHAIN OF CUSTODY REPORT

TURNAROUND REQUEST

in Business Days *

10 STD. Organic & Inorganic Analyses
 5 STD. Petroleum Hydrocarbon Analyses
 5 STD. 4 3 2 1 <1
 5 STD. 4 3 2 1 <1
 OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT:	INVOICE TO:	P.O. NUMBER:	PRESERVATIVE:	REQUESTED ANALYSES:	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA WO ID
ARCADIS	ARCADIS - US				W	1		
REPORT TO: TOM MULLEN								
ADDRESS: 1615 N. Legacy Ridge Drive, Suite 200								
Liberty Lake WA 99019								
PHONE:								
PROJECT NAME: YVD								
PROJECT NUMBER: TBD								
SAMPLED BY: Sebesta + Lyons								
CLIENT SAMPLE IDENTIFICATION								
1 RW-1204	10-10-13	1840						
2 RW-1218	1755	1810						
3 RW-1219	1702	1640						
4 RW-1216	1680	1605						
5 RW-1211	15	119						
6 RW-1212	1508	1510						
7 RW-1220								
8 RW-1109								
9 RW-1109								
10 RW-1109								

RECEIVED BY: *Christie Williams*
 PRINT NAME: Christie Williams
 FIRM: TA Spoke
 DATE: 6-11-13
 TIME: 15:25
 DATE: 6-11-13
 TIME: 5:25
 TEMP: 1.9
 PAGE 11 OF 11

TAL-1000 (0612)



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SWF0070	Client: Arcaadis	Project: YVD		
Date/Time Received: 6-11-13 15:25	By: Chris			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	<input checked="" type="checkbox"/>			
Custody Seals are present and intact:			<input checked="" type="checkbox"/>	
Are CoC documents present:	<input checked="" type="checkbox"/>			
Necessary signatures:	<input checked="" type="checkbox"/>			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 1.9 °C Thermometer (Circle one Serial # 122208348 - Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-11-13 15:32 By: CS				
Are sample labels affixed and completed for each container	<input checked="" type="checkbox"/>			
Samples containers were received intact:	<input checked="" type="checkbox"/>			
Do sample IDs match the CoC	<input checked="" type="checkbox"/>			
Appropriate sample containers were received for tests requested	<input checked="" type="checkbox"/>			
Are sample volumes adequate for tests requested	<input checked="" type="checkbox"/>			
Appropriate preservatives were used for the tests requested	<input checked="" type="checkbox"/>			
pH of inorganic samples checked and is within method specification	<input checked="" type="checkbox"/>			
Are VOC samples free of bubbles >6mm (1/4" diameter)			<input checked="" type="checkbox"/>	
Are dissolved parameters field filtered			<input checked="" type="checkbox"/>	
Do any samples need to be filtered or preserved by the lab		<input checked="" type="checkbox"/>		
Does this project require quick turnaround analysis		<input checked="" type="checkbox"/>		
Are there any short hold time tests (see chart below)	<input checked="" type="checkbox"/>			Nitrate
Are any samples within 2 days of or past expiration		<input checked="" type="checkbox"/>		
Was the CoC scanned	<input checked="" type="checkbox"/>			
Were there Non-conformance issues at login		<input checked="" type="checkbox"/>		
If yes, was a CAR generated #			<input checked="" type="checkbox"/>	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWF0123

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0123
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:20:06 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Job ID: SWF0123

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/20/2013 7:45:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0123-01	RW-3025	Drinking Water	06/18/13 19:00	06/20/13 07:45
SWF0123-02	RW-1025	Drinking Water	06/18/13 19:06	06/20/13 07:45
SWF0123-03	RW-1111	Drinking Water	06/18/13 19:28	06/20/13 07:45
SWF0123-04	RW-1076	Drinking Water	06/19/13 09:51	06/20/13 07:45
SWF0123-05	RW-1134	Drinking Water	06/19/13 14:14	06/20/13 07:45
SWF0123-06	RW-2134	Drinking Water	06/19/13 14:20	06/20/13 07:45



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0123

Client Sample ID: RW-3025

Date Collected: 06/18/13 19:00
 Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/20/13 08:00	06/20/13 08:01	1.00

Client Sample ID: RW-1025

Date Collected: 06/18/13 19:06
 Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	6.16		0.400		mg/l		06/20/13 08:00	06/20/13 09:34	2.00

Client Sample ID: RW-1111

Date Collected: 06/18/13 19:28
 Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.16		0.400		mg/l		06/20/13 08:00	06/20/13 09:53	2.00

Client Sample ID: RW-1076

Date Collected: 06/19/13 09:51
 Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.58		0.400		mg/l		06/20/13 08:00	06/20/13 10:12	2.00

Client Sample ID: RW-1134

Date Collected: 06/19/13 14:14
 Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.08		0.400		mg/l		06/20/13 08:00	06/20/13 10:30	2.00

Client Sample ID: RW-2134

Date Collected: 06/19/13 14:20
 Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	7.20		0.400		mg/l		06/20/13 08:00	06/20/13 09:16	2.00

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0123

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0120-BLK1
Matrix: Water
Analysis Batch: 13F0120

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0120_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/20/13 09:16	06/20/13 11:26	1.00

Lab Sample ID: 13F0120-BS1
Matrix: Water
Analysis Batch: 13F0120

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0120_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.91		mg/l		98.2	90 - 110

Lab Sample ID: 13F0120-MS1
Matrix: Water
Analysis Batch: 13F0120

Client Sample ID: RW-3025
Prep Type: Total
Prep Batch: 13F0120_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	4.70		mg/l		93.9	80 - 120

Lab Sample ID: 13F0120-MSD1
Matrix: Water
Analysis Batch: 13F0120

Client Sample ID: RW-3025
Prep Type: Total
Prep Batch: 13F0120_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	4.73		mg/l		94.6	80 - 120	0.700	12.1

Lab Sample ID: 13F0120-DUP1
Matrix: Water
Analysis Batch: 13F0120

Client Sample ID: RW-3025
Prep Type: Total
Prep Batch: 13F0120_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Client Sample ID: RW-3025

Date Collected: 06/18/13 19:00

Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0120_P	06/20/13 08:00	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0120	06/20/13 08:01	CBW	TAL SPK

Client Sample ID: RW-1025

Date Collected: 06/18/13 19:06

Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0120_P	06/20/13 08:00	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0120	06/20/13 09:34	CBW	TAL SPK

Client Sample ID: RW-1111

Date Collected: 06/18/13 19:28

Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0120_P	06/20/13 08:00	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0120	06/20/13 09:53	CBW	TAL SPK

Client Sample ID: RW-1076

Date Collected: 06/19/13 09:51

Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0120_P	06/20/13 08:00	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0120	06/20/13 10:12	CBW	TAL SPK

Client Sample ID: RW-1134

Date Collected: 06/19/13 14:14

Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0120_P	06/20/13 08:00	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0120	06/20/13 10:30	CBW	TAL SPK

Client Sample ID: RW-2134

Date Collected: 06/19/13 14:20

Date Received: 06/20/13 07:45

Lab Sample ID: SWF0123-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0120_P	06/20/13 08:00	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0120	06/20/13 09:16	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0123

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica

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5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNEF102**

TURNAROUND REQUEST

In Business Days *

Organic & Inorganic Analyses
 10 STD. 5 STD. 4 3 2 1 <1

Petroleum Hydrocarbon Analyses
 5 STD. 4 3 2 1 <1

OTHER Specify: _____

* Turnaround Requests less than standard may incur Rush Charges.

CLIENT: PEARSONS		INVOICE TO: PEARSONS - US	
REPORT TO: Tom Willen		PRESERVATIVE: _____	
ADDRESS: 169N. Legacy Ridge Dr. Suite 300 Liberty Lake WA 99019		P.O. NUMBER: _____	
PHONE: _____		REQUESTED ANALYSES: _____	
PROJECT NAME: YVB		MATRIX (W, S, O): N	
PROJECT NUMBER: TRD		# OF CONT.: 1	
SAMPLED BY: Sasha + Lynn		LOCATIONS/ COMMENTS: ↓ ↓	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DATE	TIME
1. R10-3025	10-18-13	1900	X
2. R10-1025	↓	19010	X
3. R10-1111	↓	1928	X
4. R10-10710	10-19-13	951	X
5. R10-11321		1414	X
6. R10-2134		1420	X
7. _____			
8. _____			
9. _____			
10. _____			

RELEASED BY: **[Signature]** DATE: **6-19-13** TIME: **1500**

PRINT NAME: **[Signature]** FIRM: **PEARSONS**

RECEIVED BY: **[Signature]** DATE: _____ TIME: _____

PRINT NAME: **Chris Williams** FIRM: **THE STATE**

DATE: **6-20-13** TIME: **0745**

TERMS: **1/9** PAGE **1** OF **1**

**TestAmerica Spokane
Sample Receipt Form**

Work Order #: SNF023	Client: Aradis	Project: YVD		
Date/Time Received: 7:45 AM 6-10-13	By: lw			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input checked="" type="checkbox"/> Courier <input type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill: Fedex A 8020 4658 2320				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:	X			
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 1.9 °C Thermometer (Circle one Serial # 122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6/10/13 8:20 By: CB				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of Inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X			Nitrate
Are any samples within 2 days of or past expiration	X			Nitrate
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWF0131

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWF0131
Client Project/Site: [none]
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:22:24 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Job ID: SWF0131

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 6/20/2013 4:55:00 PM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWF0131-01	RW-3114	Drinking Water	06/19/13 17:00	06/20/13 16:55
SWF0131-02	RW-1114	Drinking Water	06/19/13 17:05	06/20/13 16:55
SWF0131-03	RW-1118	Drinking Water	06/19/13 17:20	06/20/13 16:55
SWF0131-04	RW-1112	Drinking Water	06/19/13 17:52	06/20/13 16:55
SWF0131-05	RW-2112	Drinking Water	06/19/13 18:00	06/20/13 16:55
SWF0131-06	RW-1203	Drinking Water	06/19/13 18:52	06/20/13 16:55
SWF0131-07	RW-1228	Drinking Water	06/19/13 19:43	06/20/13 16:55
SWF0131-08	RW-1177	Drinking Water	06/19/13 20:15	06/20/13 16:55
SWF0131-09	RW-1178	Drinking Water	06/19/13 20:29	06/20/13 16:55
SWF0131-10	RW-1210	Drinking Water	06/20/13 08:00	06/20/13 16:55
SWF0131-11	RW-2210	Drinking Water	06/20/13 08:20	06/20/13 16:55
SWF0131-12	RW-1105	Drinking Water	06/20/13 09:55	06/20/13 16:55

Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Client Sample ID: RW-3114

Date Collected: 06/19/13 17:00

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-01

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/21/13 06:28	06/21/13 07:30	1.00

Client Sample ID: RW-1114

Date Collected: 06/19/13 17:05

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-02

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	12.3		0.400		mg/l		06/21/13 06:28	06/21/13 07:49	2.00

Client Sample ID: RW-1118

Date Collected: 06/19/13 17:20

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-03

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.90		0.400		mg/l		06/21/13 06:28	06/21/13 08:07	2.00

Client Sample ID: RW-1112

Date Collected: 06/19/13 17:52

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-04

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	18.1		0.400		mg/l		06/21/13 06:28	06/21/13 08:26	2.00

Client Sample ID: RW-2112

Date Collected: 06/19/13 18:00

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-05

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	17.5		0.400		mg/l		06/21/13 06:28	06/21/13 08:45	2.00

Client Sample ID: RW-1203

Date Collected: 06/19/13 18:52

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-06

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	17.9		0.400		mg/l		06/21/13 06:28	06/21/13 09:03	2.00

Client Sample ID: RW-1228

Date Collected: 06/19/13 19:43

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-07

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	9.08		0.400		mg/l		06/21/13 06:28	06/21/13 09:22	2.00

TestAmerica Spokane

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Client Sample ID: RW-1177

Date Collected: 06/19/13 20:15

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-08

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	6.32		0.400		mg/l		06/21/13 06:28	06/21/13 09:41	2.00

Client Sample ID: RW-1178

Date Collected: 06/19/13 20:29

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-09

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	5.34		0.400		mg/l		06/21/13 06:28	06/21/13 09:59	2.00

Client Sample ID: RW-1210

Date Collected: 06/20/13 08:00

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-10

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	4.06		0.400		mg/l		06/21/13 06:28	06/21/13 10:18	2.00

Client Sample ID: RW-2210

Date Collected: 06/20/13 08:20

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-11

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	3.78		0.400		mg/l		06/21/13 06:28	06/21/13 10:37	2.00

Client Sample ID: RW-1105

Date Collected: 06/20/13 09:55

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-12

Matrix: Drinking Water

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	8.58		0.400		mg/l		06/21/13 06:28	06/21/13 10:55	2.00

TestAmerica Spokane

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: [none]

TestAmerica Job ID: SWF0131

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13F0129-BLK1
Matrix: Water
Analysis Batch: 13F0129

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13F0129_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		06/21/13 06:28	06/21/13 13:06	1.00

Lab Sample ID: 13F0129-BS1
Matrix: Water
Analysis Batch: 13F0129

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13F0129_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	4.67		mg/l		93.4	90 - 110

Lab Sample ID: 13F0129-MS1
Matrix: Water
Analysis Batch: 13F0129

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 13F0129_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	1.39		5.00	6.75		mg/l		107	80 - 120

Lab Sample ID: 13F0129-MSD1
Matrix: Water
Analysis Batch: 13F0129

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 13F0129_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	1.39		5.00	6.76		mg/l		108	80 - 120	0.163	12.1

Lab Sample ID: 13F0129-DUP1
Matrix: Water
Analysis Batch: 13F0129

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13F0129_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	1.39		1.44		mg/l		3.53	13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Client Sample ID: RW-3114

Date Collected: 06/19/13 17:00

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-01

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13F0129	06/21/13 07:30	CBW	TAL SPK

Client Sample ID: RW-1114

Date Collected: 06/19/13 17:05

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-02

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 07:49	CBW	TAL SPK

Client Sample ID: RW-1118

Date Collected: 06/19/13 17:20

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-03

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 08:07	CBW	TAL SPK

Client Sample ID: RW-1112

Date Collected: 06/19/13 17:52

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-04

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 08:26	CBW	TAL SPK

Client Sample ID: RW-2112

Date Collected: 06/19/13 18:00

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-05

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 08:45	CBW	TAL SPK

Client Sample ID: RW-1203

Date Collected: 06/19/13 18:52

Date Received: 06/20/13 16:55

Lab Sample ID: SWF0131-06

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 09:03	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Client Sample ID: RW-1228

Lab Sample ID: SWF0131-07

Date Collected: 06/19/13 19:43

Matrix: Drinking Water

Date Received: 06/20/13 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 09:22	CBW	TAL SPK

Client Sample ID: RW-1177

Lab Sample ID: SWF0131-08

Date Collected: 06/19/13 20:15

Matrix: Drinking Water

Date Received: 06/20/13 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 09:41	CBW	TAL SPK

Client Sample ID: RW-1178

Lab Sample ID: SWF0131-09

Date Collected: 06/19/13 20:29

Matrix: Drinking Water

Date Received: 06/20/13 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 09:59	CBW	TAL SPK

Client Sample ID: RW-1210

Lab Sample ID: SWF0131-10

Date Collected: 06/20/13 08:00

Matrix: Drinking Water

Date Received: 06/20/13 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 10:18	CBW	TAL SPK

Client Sample ID: RW-2210

Lab Sample ID: SWF0131-11

Date Collected: 06/20/13 08:20

Matrix: Drinking Water

Date Received: 06/20/13 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 10:37	CBW	TAL SPK

Client Sample ID: RW-1105

Lab Sample ID: SWF0131-12

Date Collected: 06/20/13 09:55

Matrix: Drinking Water

Date Received: 06/20/13 16:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13F0129_P	06/21/13 06:28	CBW	TAL SPK
Total	Analysis	EPA 300.0		2.00	13F0129	06/21/13 10:55	CBW	TAL SPK

TestAmerica Spokane

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: [none]

TestAmerica Job ID: SWF0131

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNFO131**

CLIENT: ARCADIS		INVOICE TO: ARCADIS-US				
REPORT TO: TOM MULLEN		PRESERVATIVE				
ADDRESS: 6915 N. Legacy Ridge Drive, Suite 200						
LIBERTY LAKE, WA 99019						
PHONE:	FAX:	P.O. NUMBER:				
PROJECT NAME: YVD	REQUESTED ANALYSES					
PROJECT NUMBER: TBD						
SAMPLED BY: Schesta + Lyon						
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA	WO ID
1. RW-3114	6-19-13 1700	X	1	W		
2. RW-1114	1705	X	1			
3. RW-1118	1720	X	1			
4. RW-1112	1752	X	1			
5. RW-2112	1800	X	1			
6. RW-1203	1852	X	1			
7. RW-1228	1943	X	1			
8. RW-1177	2015	X	1			
9. RW-1178	2029	X	1			
10. RW-1210	6-20-13 800	X	1			

TURNAROUND REQUEST

in Business Days *

Organic & Inorganic Analyses

Petroleum Hydrocarbon Analyses

STD. 10 5 4 3 2 1 <1

STD. 5 4 3 2 1 <1

OTHER Specify:

* Turnaround Requests less than standard may incur Rush Charges.

RECEIVED BY: **Pat Stapleton** DATE: **6-20-13**

PRINT NAME: **Pat Stapleton** FIRM: **TestAmerica** TIME: **16:30**

RECEIVED BY: DATE: TIME:

PRINT NAME: FIRM: TIME:

PRINT NAME: FIRM: TIME:

ADDITIONAL REMARKS:

TERM: **2.9** PAGE **1** OF **2**



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
 2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119

253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SNF081**

CLIENT: AREADIS		INVOICE TO: AREADIS-WS		TURNAROUND REQUEST	
REPORT TO: TOM MULLEN		ADDRESS: 6925 N Legacy Ridge Dr. Suite 200		Organic & Inorganic Analyses	
PHONE: Liberty Lake WA 99019		P.O. NUMBER:		Petroleum Hydrocarbon Analyses	
PROJECT NAME: YVID		PRESERVATIVE		<input type="checkbox"/> 10 STD. <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
PROJECT NUMBER: 780		REQUESTED ANALYSES		<input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1	
SAMPLED BY: Sebastian Lyen		DATE/TIME		OTHER Specify:	
1. CLIENT SAMPLE IDENTIFICATION	RW-2210	6-20-13	0810	W	1
2. CLIENT SAMPLE IDENTIFICATION	RW-1105	0955	0955	W	1
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
RELEASED BY: Lyen M. Lyen	DATE: 6-20-13	RECEIVED BY: Col. Stephen	DATE: 6-20-13	MATRIX (W, S, O)	LOCATION/ COMMENTS
PRINT NAME: Lyen M. Lyen	TIME: 1655	PRINT NAME: Col. Stephen	TIME: 1655		
RELEASED BY:	DATE:	RECEIVED BY:	DATE:		
PRINT NAME:	TIME:	PRINT NAME:	TIME:		
ADDITIONAL REMARKS:					



**TestAmerica Spokane
Sample Receipt Form**

Work Order #: JWF0131	Client: Arcoadis	Project: VVD		
Date/Time Received: 6-20-13 16:55		By: CS		
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 29 °C Thermometer (Circle one Serial# 122208348 Keyring IR Serial # 111874910 IR Gun 2) (acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 6-20-13 11:00 By: CS				
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification	X			
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X			Nitrate
Are any samples within 2 days of or past expiration	X			Nitrate
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



SWI0124

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Spokane
11922 East 1st. Avenue
Spokane, WA 99206
Tel: (509)924-9200

TestAmerica Job ID: SWI0124
Client Project/Site: SK030326.0001
Client Project Description: Yakima Dairies

For:
ARCADIS U.S., Inc. - Liberty Lake
695 N. Legacy Ridge Drive, Suite 200
Liberty Lake, WA 99019

Attn: Tom Mullen



Authorized for release by:
12/11/2013 10:27:12 AM

Randee Decker, Project Manager
(509)924-9200
Randee.Decker@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Job ID: SWI0124

Laboratory: TestAmerica Spokane

Narrative

Receipt

The sample(s) were received on 9/19/2013 8:45:00 AM ; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3 °C.

Wet Chemistry Method 300.0:

No analytical or quality issues were noted.

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Sample Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
SWI0124-01	RW-1212A	Drinking Water	09/18/13 12:28	09/19/13 08:45
SWI0124-02	RW-3212A	Drinking Water	09/18/13 11:30	09/19/13 08:45
SWI0124-03	RW-1129	Drinking Water	09/18/13 13:20	09/19/13 08:45
SWI0124-04	RW-2129	Drinking Water	09/18/13 13:20	09/19/13 08:45
SWI0124-05	RW-1227	Drinking Water	09/18/13 14:05	09/19/13 08:45



Definitions/Glossary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Client Sample ID: RW-1212A

Lab Sample ID: SWI0124-01

Date Collected: 09/18/13 12:28

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	15.1		0.200		mg/l		09/19/13 09:33	09/19/13 13:00	1.00

Client Sample ID: RW-3212A

Lab Sample ID: SWI0124-02

Date Collected: 09/18/13 11:30

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		09/19/13 09:33	09/19/13 13:19	1.00

Client Sample ID: RW-1129

Lab Sample ID: SWI0124-03

Date Collected: 09/18/13 13:20

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	28.5		2.00		mg/l		09/19/13 09:33	09/19/13 18:55	10.0

Client Sample ID: RW-2129

Lab Sample ID: SWI0124-04

Date Collected: 09/18/13 13:20

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	27.1		2.00		mg/l		09/19/13 09:33	09/19/13 19:32	10.0

Client Sample ID: RW-1227

Lab Sample ID: SWI0124-05

Date Collected: 09/18/13 14:05

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Method: EPA 300.0 - Anions by EPA Method 300.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	51.6		2.00		mg/l		09/19/13 09:33	09/19/13 19:51	10.0

QC Sample Results

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Method: EPA 300.0 - Anions by EPA Method 300.0

Lab Sample ID: 13I0097-BLK1
Matrix: Water
Analysis Batch: 13I0097

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13I0097_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate-Nitrogen	ND		0.200		mg/l		09/19/13 09:33	09/19/13 16:44	1.00

Lab Sample ID: 13I0097-BS1
Matrix: Water
Analysis Batch: 13I0097

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13I0097_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	5.00	5.12		mg/l		102	90 - 110

Lab Sample ID: 13I0097-MS1
Matrix: Water
Analysis Batch: 13I0097

Client Sample ID: Matrix Spike
Prep Type: Total
Prep Batch: 13I0097_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Result	Matrix Spike Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate-Nitrogen	ND		5.00	5.02		mg/l		100	80 - 120

Lab Sample ID: 13I0097-MSD1
Matrix: Water
Analysis Batch: 13I0097

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total
Prep Batch: 13I0097_P

Analyte	Sample Result	Sample Qualifier	Spike Added	Matrix Spike Dup Result	Matrix Spike Dup Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate-Nitrogen	ND		5.00	5.00		mg/l		100	80 - 120	0.399	12.1

Lab Sample ID: 13I0097-DUP1
Matrix: Water
Analysis Batch: 13I0097

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13I0097_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
Nitrate-Nitrogen	ND		ND		mg/l			13.1

Lab Chronicle

Client: ARCADIS U.S., Inc. - Liberty Lake
 Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Client Sample ID: RW-1212A

Lab Sample ID: SWI0124-01

Date Collected: 09/18/13 12:28

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13I0097_P	09/19/13 09:33	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13I0097	09/19/13 13:00	CBW	TAL SPK

Client Sample ID: RW-3212A

Lab Sample ID: SWI0124-02

Date Collected: 09/18/13 11:30

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13I0097_P	09/19/13 09:33	CBW	TAL SPK
Total	Analysis	EPA 300.0		1.00	13I0097	09/19/13 13:19	CBW	TAL SPK

Client Sample ID: RW-1129

Lab Sample ID: SWI0124-03

Date Collected: 09/18/13 13:20

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13I0097_P	09/19/13 09:33	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13I0097	09/19/13 18:55	CBW	TAL SPK

Client Sample ID: RW-2129

Lab Sample ID: SWI0124-04

Date Collected: 09/18/13 13:20

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13I0097_P	09/19/13 09:33	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13I0097	09/19/13 19:32	CBW	TAL SPK

Client Sample ID: RW-1227

Lab Sample ID: SWI0124-05

Date Collected: 09/18/13 14:05

Matrix: Drinking Water

Date Received: 09/19/13 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	Wet Chem		1.00	13I0097_P	09/19/13 09:33	CBW	TAL SPK
Total	Analysis	EPA 300.0		10.0	13I0097	09/19/13 19:51	CBW	TAL SPK

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200

Certification Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Laboratory: TestAmerica Spokane

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-071	10-31-14
Washington	State Program	10	C569	01-06-14

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Method Summary

Client: ARCADIS U.S., Inc. - Liberty Lake
Project/Site: SK030326.0001

TestAmerica Job ID: SWI0124

Method	Method Description	Protocol	Laboratory
EPA 300.0	Anions by EPA Method 300.0		TAL SPK

Protocol References:

Laboratory References:

TAL SPK = TestAmerica Spokane, 11922 East 1st. Avenue, Spokane, WA 99206, TEL (509)924-9200



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

5755 8th Street East, Tacoma, WA 98424-1317
 11922 E. First Ave., Spokane WA 99206-5302
 9405 SW Nimbus Ave., Beaverton, OR 97008-7145
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253-922-2310 FAX 922-5047
 509-924-9200 FAX 924-9290
 503-906-9200 FAX 906-9210
 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #: **SW10124**

CLIENT: ARCADIS U.S. Inc.		INVOICE TO: ARCADIS U.S. Inc.			
REPORT TO: Tom Mullen		PRESERVATIVE			
ADDRESS: 695 N. Legacy Ridge Dr, Ste 200		REQUESTED ANALYSES			
PHONE: 509 925 3369 FAX:		P.O. NUMBER:			
PROJECT NAME: Yakima v. Lake, Darter		OTHER Specify:			
PROJECT NUMBER: SK030326.001		<input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses STD.			
SAMPLED BY: Tom Mullen		* Turnaround Requests less than standard may incur Rush Charge.			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	MATRIX (W, S, O)	# OF CONT.	LOCATION/ COMMENTS	TA W/O ID
1. RW-1212A	9/18/13 1328	W	1		
2. RW-1212A	1130	W	1		
3. RW-1129	1330	W	1		
4. RW-2129	1330	W	1		
5. RW-1227	1405	W	1		
6.					
7.					
8.					
9.					
10.					
RELEASED BY: Tom Mullen	DATE: 9/19/13	FIRM: ARCADIS	RECEIVED BY: Jeff Stapleton	DATE: 9/19/13	
PRINT NAME: Tom Mullen	TIME: 0845	FIRM: ARCADIS	PRINT NAME: Jeff Stapleton	TIME: 8:45	
RELEASED BY:	DATE:	FIRM:	RECEIVED BY:	DATE:	
PRINT NAME:	TIME:	FIRM:	PRINT NAME:	TIME:	
ADDITIONAL REMARKS:		FIRM:		TEMP: 83	PAGE 83 OF 83



**TestAmerica Spokane
Sample Receipt Form**

Work Order # SW12124	Client: Armadis	Project: Yakima		
Date/Time Received: 9-19-13	By: CS			
Samples Delivered By: <input type="checkbox"/> Shipping Service <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> Other:				
List Air Bill Number(s) or Attach a photocopy of the Air Bill:				
Receipt Phase	Yes	No	NA	Comments
Were samples received in a cooler:	X			
Custody Seals are present and intact:			X	
Are CoC documents present:	X			
Necessary signatures:	X			
Thermal Preservation Type: <input type="checkbox"/> Blue Ice <input type="checkbox"/> Gel Ice <input checked="" type="checkbox"/> Real Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> Other:				
Temperature: 33 °C Thermometer (Circle one Serial #122208348 Keyring IR Serial # 111874910 IR Gun 2)(acceptance criteria 0-6				
Temperature out of range: <input type="checkbox"/> Not enough ice <input type="checkbox"/> Ice melted <input type="checkbox"/> w/in 4hrs of collection <input type="checkbox"/> NA <input type="checkbox"/> Other:				
Log-in Phase	Yes	No	NA	Comments
Date/Time: 9-19-13 8:56	By: CS			
Are sample labels affixed and completed for each container	X			
Samples containers were received intact:	X			
Do sample IDs match the CoC	X			
Appropriate sample containers were received for tests requested	X			
Are sample volumes adequate for tests requested	X			
Appropriate preservatives were used for the tests requested	X			
pH of inorganic samples checked and is within method specification			X	
Are VOC samples free of bubbles >6mm (1/4" diameter)			X	
Are dissolved parameters field filtered			X	
Do any samples need to be filtered or preserved by the lab		X		
Does this project require quick turnaround analysis		X		
Are there any short hold time tests (see chart below)	X			Nitrate
Are any samples within 2 days of or past expiration		X		
Was the CoC scanned	X			
Were there Non-conformance issues at login		X		
If yes, was a CAR generated #			X	

24 hours or less	48 hours	7 days
Coliform Bacteria	BOD, Color, MBAS	TDS, TSS, VDS, FDS
Chromium +6	Nitrate/Nitrite	Sulfide
	Orthophosphate	Aqueous Organic Prep

Form No. SP-FORM-SPL-002 12 December 2012



Appendix D

Data Usability Summary Reports
(Without Analytical Laboratory
Reports)

Yakima Valley Dairies
SDWA-10-2013-0080

Residential Well Sampling

Data Usability Summary Report
Sample Delivery Group(s)
SWE0197, SWE0206, and SWE0207

July 15, 2013



A handwritten signature in black ink that reads "Amy Goldberg Day".

Amy Goldberg Day
Project Chemist

A handwritten signature in blue ink that reads "Thomas F. Mullen".

Thomas F. Mullen, LHG
Sampling Team Leader

A handwritten signature in blue ink that reads "Kevin M. Freeman".

Kevin M. Freeman, PG
Project Coordinator

**Data Usability Summary Report
Sample Delivery Group(s)
SWE0197, SWE0206, and
SWE0207**

Residential Well Sampling
Yakima Valley Dairies
SDWA-10-2013-0080

Prepared for:
Yakima Valley Dairies

Prepared by:
ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 928 3369
Fax 509 928 3075

Our Ref.:
SK030326.0001
SK030334.0001
SK030335.0001

Date:
July 15, 2013

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Tables

1	Summary of Analytical Results, Sample Delivery Group SWE0197
2	Summary of Analytical Results, Sample Delivery Group SWE0206
3	Summary of Analytical Results, Sample Delivery Group SWE0207

Appendices

A	TestAmerica Labs Analytical Report SWE0197
B	TestAmerica Labs Analytical Report SWE0206
C	TestAmerica Labs Analytical Report SWE0207



Summary

This Data Usability Summary Report summarizes the review of Sample Delivery Group numbers SWE0197, SWE0206, and SWE0207 for samples collected under the Yakima Valley Dairies Residential Well Sampling Quality Assurance Project Plan (QAPP). This assessment of data validation and usability was performed per the guidance and requirements established under Section 4 of the QAPP.

Samples in Delivery Group numbers SWE0197, SWE0206, and SWE0207 were collected from residential wells per the QAPP during the period May 29 to May 30, 2013. This review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with nitrate were reviewed for this validation. Field documentation was not included in this review.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable	
	No	Yes	No	Yes
1. Sample receipt condition		X		X
2. Requested analyses and sample results		X		X
3. Master tracking list		X		X
4. Methods of analysis		X		X
5. Reporting Limits		X		X
6. Sample collection date		X		X
7. Laboratory sample received date		X		X
8. Sample preservation verification (as applicable)		X		X
9. Sample preparation/extraction/analysis dates		X		X
10. Fully executed chain of custody form		X		X
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X
12. Data package completeness and compliance		X		X

Laboratory Analysis

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 300.0 (USEPA 2010). Data were reviewed in accordance with USEPA National Functional Guidelines (USEPA 2005). Summaries of the analytical results are presented in Tables 1, 2, and 3. Laboratory Analytical Reports are presented in Appendices A, B, and C.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines (USEPA 2005):

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

- UB The compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Nitrate

Holding Times

The specified holding time for nitrate (as nitrogen) analyzed by USEPA Method 300.0 is presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate as Nitrogen USEPA Method 300.0	Water	48 hours	Cool to 4 ± 2°C

The samples were prepared and analyzed within the specified holding time criteria.

Blank Contamination

QA blanks (i.e., laboratory method blanks and field blanks) are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Field blanks were collected as part of this dataset per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Field Blank Sample Number	Result (mg/L)
SWE0197	25	RW-3030	<0.2
		RW-3085	<0.2
SWE0206	19	RW-3108	<0.2
		RW-3086	<0.2
SWE0207	5	RW-3097	<0.2

Note: mg/L – milligrams per liter

Nitrate associated with the QA blanks exhibited a concentration less than the MDL. No data were qualified based on blank contamination.

Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the (optional) MS/MSD analysis must exhibit recoveries within the method-specified acceptance limits of 80 to 120 percent. The relative percent difference (RPD) between the MS and MSD results should be within the laboratory-established acceptance limits of zero to 12.1 percent.

Sample Delivery Group	Number of Collected Samples	MS/MSD Sample Number	Parent Sample Number	Percent Recovery
SWE0197	25	13E0178-MS1	RW-2100	100
		13E0178-MSD1	RW-2100	100
SWE0206	19	NONE		
SWE0207	5	13E0187-MS1	RW-3097	95
		13E0187-MSD1	RW-3097	94

The MS/MSD results were compliant and no data were qualified based on MS/MSD recovery.

Laboratory Control Sample/Ongoing Precision and Recovery Analysis

The LCS/OPR analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/OPR analysis must exhibit recoveries within the method-specified acceptance limits.

All compounds associated with the LCS/OPR analyses exhibited recoveries within the control limits. The LCS/OPR results were compliant and no data were qualified based on LCS/OPR recovery.

Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. Field duplicate samples were collected as part of this dataset per the specifications in the site specific QAPP.

Sample Delivery Group	Number of Collected Samples	Parent Sample	Result (mg/L)	Duplicate Sample	Result (mg/L)	RPD (percent)
SWE0197	25	RW-1093	7.87	RW-2093	7.84	0.4
		RW-1100	10.9	RW-2100	10.9	0.0
		RW-1107	10.4	RW-2107	10.4	0.0
SWE0206	19	RW-1152	15.8	RW-2152	15.6	1.3
		RW-1102	18.2	RW-2102	18.4	1.1
SWE0207	5	NONE				

Note: mg/L – milligrams per liter
 RPD – Relative Percent Difference

The duplicate results were compliant and no data were qualified based on the relative percent difference between the two samples.



System Performance and Overall Assessment

Overall system performance was acceptable. The reporting limits met the data quality objects. The overall data quality is within the guidelines specified in the method. No data were qualified based on the findings of the data validation.

Data Validation Checklist for Nitrate

Nitrate (as Nitrogen): USEPA Method 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GC/MS					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
Laboratory Control Sample (LCS) Accuracy %R		X		X	
LCS Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
MS %R		X		X	
MSD %R		X		X	
MS/MSD RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Dilution Factor		X		X	
Moisture Content					X

Note: %R Percent recovery



Tables

**Table 1
Summary of Analytical Results
Sample Delivery Group SWE0197**

**Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling**

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3030	5/28/2013 14:20	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1030	5/28/2013 14:35	Well Sample	EPA 300.0	Nitrate-Nitrogen	7.59	mg/l	
RW-1044	5/28/2013 15:25	Well Sample	EPA 300.0	Nitrate-Nitrogen	8.19	mg/l	
RW-1045	5/28/2013 15:47	Well Sample	EPA 300.0	Nitrate-Nitrogen	15.3	mg/l	
RW-1125	5/28/2013 16:05	Well Sample	EPA 300.0	Nitrate-Nitrogen	10.5	mg/l	
RW-1046	5/28/2013 16:20	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.98	mg/l	
RW-1047	5/28/2013 16:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l	
RW-1049	5/28/2013 17:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.36	mg/l	
RW-1051	5/28/2013 17:25	Well Sample	EPA 300.0	Nitrate-Nitrogen	17.1	mg/l	
RW-1054	5/28/2013 17:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	10.2	mg/l	
RW-3085	5/29/2013 8:00	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1085	5/29/2013 8:15	Well Sample	EPA 300.0	Nitrate-Nitrogen	8	mg/l	
RW-1093	5/29/2013 8:57	Well Sample	EPA 300.0	Nitrate-Nitrogen	7.87	mg/l	
RW-2093	5/29/2013 9:00	Duplicate of RW-1093	EPA 300.0	Nitrate-Nitrogen	7.84	mg/l	
RW-1094	5/29/2013 9:18	Well Sample	EPA 300.0	Nitrate-Nitrogen	4.59	mg/l	
RW-1095	5/29/2013 9:30	Well Sample	EPA 300.0	Nitrate-Nitrogen	11.8	mg/l	
RW-1096	5/29/2013 9:45	Well Sample	EPA 300.0	Nitrate-Nitrogen	16	mg/l	
RW-1158	5/29/2013 10:08	Well Sample	EPA 300.0	Nitrate-Nitrogen	29.4	mg/l	
RW-1100	5/29/2013 10:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	10.9	mg/l	
RW-2100	5/29/2013 10:57	Duplicate of RW-1100	EPA 300.0	Nitrate-Nitrogen	10.9	mg/l	
RW-1103	5/29/2013 11:10	Well Sample	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l	
RW-1099	5/29/2013 11:20	Well Sample	EPA 300.0	Nitrate-Nitrogen	14	mg/l	
RW-1149	5/29/2013 11:50	Well Sample	EPA 300.0	Nitrate-Nitrogen	13.2	mg/l	
RW-1107	5/29/2013 12:25	Well Sample	EPA 300.0	Nitrate-Nitrogen	10.4	mg/l	
RW-2107	5/29/2013 12:30	Duplicate of RW-1107	EPA 300.0	Nitrate-Nitrogen	10.4	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Table 2
Summary of Analytical Results
Sample Delivery Group SWE0206

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3108	5/29/2013 13:50	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1108	5/29/2013 14:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	20.3	mg/l	
RW-1101	5/29/2013 14:20	Well Sample	EPA 300.0	Nitrate-Nitrogen	18.2	mg/l	
RW-1172	5/29/2013 14:35	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.72	mg/l	
RW-1084	5/29/2013 15:20	Well Sample	EPA 300.0	Nitrate-Nitrogen	7.91	mg/l	
RW-1092	5/29/2013 15:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	8.3	mg/l	
RW-1152	5/29/2013 16:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	15.8	mg/l	
RW-2152	5/29/2013 16:05	Duplicate of RW-1152	EPA 300.0	Nitrate-Nitrogen	15.6	mg/l	
RW-1078	5/29/2013 16:33	Well Sample	EPA 300.0	Nitrate-Nitrogen	12.4	mg/l	
RW-3086	5/30/2013 8:50	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1086	5/30/2013 8:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	16.8	mg/l	
RW-1102	5/30/2013 9:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	18.2	mg/l	
RW-2102	5/30/2013 9:45	Duplicate of RW-1102	EPA 300.0	Nitrate-Nitrogen	18.4	mg/l	
RW-1062	5/30/2013 10:05	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.67	mg/l	
RW-1087	5/30/2013 10:15	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.82	mg/l	
RW-1090A	5/30/2013 10:50	Well Sample	EPA 300.0	Nitrate-Nitrogen	23.8	mg/l	
RW-1090B	5/30/2013 10:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	23	mg/l	
RW-1012	5/30/2013 11:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.63	mg/l	
RW-1011	5/30/2013 11:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	30.6	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Table 3
Summary of Analytical Results
Sample Delivery Group SWE0207

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3097	5/30/2013 13:50	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1097	5/30/2013 13:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	10.1	mg/l	
RW-1110	5/30/2013 14:30	Well Sample	EPA 300.0	Nitrate-Nitrogen	7.62	mg/l	
RW-1171	5/30/2013 15:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	12.7	mg/l	
RW-1091	5/30/2013 15:38	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.12	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.



Appendix A

TestAmerica Labs
Analytical Report SWE0197



Appendix C

TestAmerica Labs
Analytical Report SWE0207

Yakima Valley Dairies
SDWA-10-2013-0080

Residential Well Sampling

Data Usability Summary Report
Sample Delivery Group(s)
SWF0005 and SWF0019

July 15, 2013



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**Data Usability Summary Report
Sample Delivery Group(s)
SWF0005 and SWF0019**

Residential Well Sampling
Yakima Valley Dairies
SDWA-10-2013-0080

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Summary

This Data Usability Summary Report summarizes the review of Sample Delivery Group numbers SWF0005 and SWF0019 for samples collected under the Yakima Valley Dairies Residential Well Sampling Quality Assurance Project Plan (QAPP). This assessment of data validation and usability was performed per the guidance and requirements established under Section 4 of the QAPP.

Samples in Delivery Group numbers SWF0005 and SWF0019 were collected from residential wells per the QAPP during the period June 3 to June 4, 2013. This review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with nitrate were reviewed for this validation. Field documentation was not included in this review.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable	
	No	Yes	No	Yes
1. Sample receipt condition		X		X
2. Requested analyses and sample results		X		X
3. Master tracking list		X		X
4. Methods of analysis		X		X
5. Reporting Limits		X		X
6. Sample collection date		X		X
7. Laboratory sample received date		X		X
8. Sample preservation verification (as applicable)		X		X
9. Sample preparation/extraction/analysis dates		X		X
10. Fully executed chain of custody form		X		X
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X
12. Data package completeness and compliance		X		X

Laboratory Analysis

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 300.0 (USEPA 2010). Data were reviewed in accordance with USEPA National Functional Guidelines (USEPA 2005). Summaries of the analytical results are presented in Tables 1 and 2. Laboratory Analytical Reports are presented in Appendices A and B.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines (USEPA 2005):

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

- UB The compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Nitrate

Holding Times

The specified holding time for nitrate (as nitrogen) analyzed by USEPA Method 300.0 is presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate as Nitrogen USEPA Method 300.0	Water	48 hours	Cool to 4 ± 2°C

The samples were prepared and analyzed within the specified holding time criteria.

Blank Contamination

QA blanks (i.e., laboratory method blanks and equipment rinse blanks) are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Field blanks were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Field Blank Sample Number	Result (mg/L)
SWF0005	10	RW-3041	<0.2
SWF0019	9	RW-3179	<0.2

Nitrate associated with the QA blanks exhibited a concentration less than the MDL. No data were qualified based on blank contamination.

Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the (optional) MS/MSD analysis must exhibit recoveries within the method-specified acceptance limits of 80 to 120 percent. The relative percent difference (RPD) between the MS and MSD results should be within the laboratory-established acceptance limits of zero to 12.1 percent.

The MS/MSD results were compliant and no data were qualified based on MS/MSD recovery.

Laboratory Control Sample/Ongoing Precision and Recovery Analysis

The LCS/OPR analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/OPR analysis must exhibit recoveries within the method-specified acceptance limits.

Sample Delivery Group	Number of Collected Samples	MS/MSD Sample Number	Parent Sample Number	Percent Recovery
SWF0005	10	NONE		
SWF0019	9	13F0022-MS1	RW-3179	96.6
		13F0022-MSD1	RW-3179	96.4

All compounds associated with the LCS/OPR analyses exhibited recoveries within the control limits. The LCS/OPR results were compliant and no data were qualified based on LCS/OPR recovery.

Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. Field duplicate samples were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Parent Sample	Result (mg/L)	Duplicate Sample	Result (mg/L)	RPD (percent)
SWF0005	10	RW-1159	12	RW-2159	12	0.0
SWF0019	9	RW-1075	11.3	RW-2075	11.2	0.9

Note: mg/L – milligrams per liter
 RPD – Relative Percent Difference

The duplicate results were compliant and no data were qualified based on the relative percent difference between the two samples.



System Performance and Overall Assessment

Overall system performance was acceptable. The reporting limits met the data quality objects. The overall data quality is within the guidelines specified in the method. No data were qualified based on the findings of the data validation.

Data Validation Checklist for Nitrate

Nitrate (as Nitrogen): USEPA Method 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GC/MS					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X			
Laboratory Control Sample (LCS) Accuracy %R		X		X	
LCS Duplicate (LCSD) %R				X	
LCS/LCSD Precision (RPD)				X	
MS %R		X		X	
MSD %R		X		X	
MS/MSD RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Dilution Factor		X		X	
Moisture Content					X

Note: %R Percent recovery



Tables

Table 1
Summary of Analytical Results
Sample Delivery Group SWF0005

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3041	6/3/2013 8:40	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1041	6/3/2013 8:47	Well Sample	EPA 300.0	Nitrate-Nitrogen	36.8	mg/l	
RW-1017	6/3/2013 10:07	Well Sample	EPA 300.0	Nitrate-Nitrogen	15.9	mg/l	
RW-1008	6/3/2013 10:08	Well Sample	EPA 300.0	Nitrate-Nitrogen	20	mg/l	
RW-1159	6/3/2013 10:31	Well Sample	EPA 300.0	Nitrate-Nitrogen	12	mg/l	
RW-2159	6/3/2013 10:35	Duplicate of RW-1159	EPA 300.0	Nitrate-Nitrogen	12	mg/l	
RW-1026	6/3/2013 13:03	Well Sample	EPA 300.0	Nitrate-Nitrogen	8.3	mg/l	
RW-1020	6/3/2013 13:15	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.4	mg/l	
RW-1037	6/3/2013 13:31	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.3	mg/l	
RW-1027	6/3/2013 13:46	Well Sample	EPA 300.0	Nitrate-Nitrogen	5	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Table 2
Summary of Analytical Results
Sample Delivery Group SWF0019

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3179	6/3/2013 16:40	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1179	6/3/2013 16:42	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.68	mg/l	
RW-1072	6/3/2013 17:10	Well Sample	EPA 300.0	Nitrate-Nitrogen	4.86	mg/l	
RW-1031	6/3/2013 17:26	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.5	mg/l	
RW-1014	6/3/2013 19:07	Well Sample	EPA 300.0	Nitrate-Nitrogen	50.9	mg/l	
RW-1075	6/4/2013 10:17	Well Sample	EPA 300.0	Nitrate-Nitrogen	11.3	mg/l	
RW-2075	6/4/2013 10:20	Duplicate of RW-1075	EPA 300.0	Nitrate-Nitrogen	11.2	mg/l	
RW-1042	6/4/2013 12:34	Well Sample	EPA 300.0	Nitrate-Nitrogen	39.3	mg/l	
RW-1064	6/4/2013 14:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	8.74	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Yakima Valley Dairies
SDWA-10-2013-0080

Residential Well Sampling

Data Usability Summary Report
Sample Delivery Group(s)
SWF0030 and SWF0049

July 15, 2013



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**Data Usability Summary Report
Sample Delivery Group(s)
SWF0030 and SWF0049**

Residential Well Sampling
Yakima Valley Dairies
SDWA-10-2013-0080

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Summary

This Data Usability Summary Report summarizes the review of Sample Delivery Group numbers SWF0030 and SWF0049 for samples collected under the Yakima Valley Dairies Residential Well Sampling Quality Assurance Project Plan (QAPP). This assessment of data validation and usability was performed per the guidance and requirements established under Section 4 of the QAPP.

Samples in Delivery Group numbers SWF0030 and SWF0049 were collected from residential wells per the QAPP during the period June 4 to June 5, 2013. This review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with nitrate were reviewed for this validation. Field documentation was not included in this review.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable	
	No	Yes	No	Yes
1. Sample receipt condition		X		X
2. Requested analyses and sample results		X		X
3. Master tracking list		X		X
4. Methods of analysis		X		X
5. Reporting Limits		X		X
6. Sample collection date		X		X
7. Laboratory sample received date		X		X
8. Sample preservation verification (as applicable)		X		X
9. Sample preparation/extraction/analysis dates		X		X
10. Fully executed chain of custody form		X		X
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X
12. Data package completeness and compliance		X		X

Laboratory Analysis

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 300.0 (USEPA 2010). Data were reviewed in accordance with USEPA National Functional Guidelines (USEPA 2005). Summaries of the analytical results are presented in Tables 1 and 2. Laboratory Analytical Reports are presented in Appendices A and B.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines (USEPA 2005):

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

- UB The compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Nitrate

Holding Times

The specified holding time for nitrate (as nitrogen) analyzed by USEPA Method 300.0 is presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate as Nitrogen USEPA Method 300.0	Water	48 hours	Cool to 4 ± 2°C

The samples were prepared and analyzed within the specified holding time criteria.

Blank Contamination

QA blanks (i.e., laboratory method blanks and equipment rinse blanks) are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.



Field blanks were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Field Blank Sample Number	Result (mg/L)
SWF0030	14	RW-3048	<0.2
SWF0049	10	RW-3139	<0.2
		RW-3083	<0.2

Note: mg/L – milligrams per liter

Nitrate associated with the QA blanks exhibited a concentration less than the MDL. No data were qualified based on blank contamination.

Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the (optional) MS/MSD analysis must exhibit recoveries within the method-specified acceptance limits of 80 to 120 percent. The relative percent difference (RPD) between the MS and MSD results should be within the laboratory-established acceptance limits of zero to 12.1 percent.

Sample Delivery Group	Number of Collected Samples	MS/MSD Sample Number	Parent Sample Number	Percent Recovery
SWF0030	14	13F0034-MS1	RW-3048	97
		13F0034-MSD1	RW-3048	97
SWF0049	10	13F0043-MS1	RW-3083	96.1
		13F0043-MSD1	RW-3083	96.4

The MS/MSD results were compliant and no data were qualified based on MS/MSD recovery.



Laboratory Control Sample/Ongoing Precision and Recovery Analysis

The LCS/OPR analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/OPR analysis must exhibit recoveries within the method-specified acceptance limits.

All compounds associated with the LCS/OPR analyses exhibited recoveries within the control limits. The LCS/OPR results were compliant and no data were qualified based on LCS/OPR recovery.

Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. Field duplicate samples were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Parent Sample	Result (mg/L)	Duplicate Sample	Result (mg/L)	RPD (percent)
SWF0030	14	RW-1127	13.7	RW-2127	14	2.2
		RW-1068	30.7	RW-2068	29.4	4.3
SWF0049	10	RW-1141	30.2	RW-2141	32.6	7.6

Note: mg/L – milligrams per liter
RPD – Relative Percent Difference

The duplicate results were compliant and no data were qualified based on the relative percent difference between the two samples.



System Performance and Overall Assessment

Overall system performance was acceptable. The reporting limits met the data quality objects. No data were qualified based on the findings of the data validation.

Data Validation Checklist for Nitrate

Nitrate (as Nitrogen): USEPA Method 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GC/MS					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X			
Laboratory Control Sample (LCS) Accuracy %R		X		X	
LCS Duplicate (LCSD) %R				X	
LCS/LCSD Precision (RPD)				X	
MS %R		X		X	
MSD %R		X		X	
MS/MSD RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X	X	X	
Dilution Factor		X		X	
Moisture Content					X

Note: %R Percent recovery



Tables

Table 1
Summary of Analytical Results
Sample Delivery Group SWF0030

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3048	6/4/2013 16:35	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1048	6/4/2013 16:42	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.4	mg/l	
RW-1127	6/4/2013 17:06	Well Sample	EPA 300.0	Nitrate-Nitrogen	13.7	mg/l	
RW-2127	6/4/2013 17:07	Duplicate of RW-1127	EPA 300.0	Nitrate-Nitrogen	14	mg/l	
RW-1124	6/4/2013 17:34	Well Sample	EPA 300.0	Nitrate-Nitrogen	18.6	mg/l	
RW-1121	6/4/2013 17:52	Well Sample	EPA 300.0	Nitrate-Nitrogen	15.6	mg/l	
RW-1122	6/4/2013 18:10	Well Sample	EPA 300.0	Nitrate-Nitrogen	26.9	mg/l	
RW-1115	6/4/2013 18:25	Well Sample	EPA 300.0	Nitrate-Nitrogen	7.76	mg/l	
RW-1116	6/4/2013 19:45	Well Sample	EPA 300.0	Nitrate-Nitrogen	4.36	mg/l	
RW-1068	6/5/2013 10:21	Well Sample	EPA 300.0	Nitrate-Nitrogen	30.7	mg/l	
RW-2068	6/5/2013 10:22	Duplicate of RW-1068	EPA 300.0	Nitrate-Nitrogen	29.4	mg/l	
RW-1161	6/5/2013 12:11	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.16	mg/l	
RW-1160	6/5/2013 12:23	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.16	mg/l	
RW-1130	6/5/2013 13:41	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.4	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Table 2
Summary of Analytical Results
Sample Delivery Group SWF0049

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3139	6/5/2013 17:15	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1139	6/5/2013 17:19	Well Sample	EPA 300.0	Nitrate-Nitrogen	30.6	mg/l	
RW-1145	6/5/2013 17:56	Well Sample	EPA 300.0	Nitrate-Nitrogen	27.3	mg/l	
RW-1153	6/5/2013 18:32	Well Sample	EPA 300.0	Nitrate-Nitrogen	8.78	mg/l	
RW-1165	6/5/2013 19:26	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.3	mg/l	
RW-3083	6/6/2013 9:00	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1083	6/6/2013 10:52	Well Sample	EPA 300.0	Nitrate-Nitrogen	36.5	mg/l	
RW-1141	6/6/2013 11:16	Well Sample	EPA 300.0	Nitrate-Nitrogen	30.2	mg/l	
RW-2141	6/6/2013 11:20	Duplicate of RW-1141	EPA 300.0	Nitrate-Nitrogen	32.6	mg/l	
RW-1142	6/6/2013 14:08	Well Sample	EPA 300.0	Nitrate-Nitrogen	18.5	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Yakima Valley Dairies
SDWA-10-2013-0080

Residential Well Sampling

Data Usability Summary Report
Sample Delivery Group(s)
SWF0058 and SWF0070

July 15, 2013



Amy Goldberg Day

Amy Goldberg Day
Project Chemist

Thomas F. Mullen

Thomas F. Mullen, LHG
Sampling Team Leader

Kevin M. Freeman

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**Data Usability Summary Report
Sample Delivery Group(s)
SWF0058 and SWF0070**

Residential Well Sampling
Yakima Valley Dairies
SDWA-10-2013-0080

Prepared for:
Yakima Valley Dairies

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Summary

This Data Usability Summary Report summarizes the review of Sample Delivery Group numbers SWF0058 and SWF0070 for samples collected under the Yakima Valley Dairies Residential Well Sampling Quality Assurance Project Plan (QAPP). This assessment of data validation and usability was performed per the guidance and requirements established under Section 4 of the QAPP.

Samples in Delivery Group numbers SWF0058 and SWF0070 were collected from residential wells per the QAPP during the period June 9 to June 10, 2013. This review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with nitrate were reviewed for this validation. Field documentation was not included in this review.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable	
	No	Yes	No	Yes
1. Sample receipt condition		X		X
2. Requested analyses and sample results		X		X
3. Master tracking list		X		X
4. Methods of analysis		X		X
5. Reporting Limits		X		X
6. Sample collection date		X		X
7. Laboratory sample received date		X		X
8. Sample preservation verification (as applicable)		X		X
9. Sample preparation/extraction/analysis dates		X		X
10. Fully executed chain of custody form		X		X
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X
12. Data package completeness and compliance		X		X

Laboratory Analysis

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 300.0 (USEPA 2010). Data were reviewed in accordance with USEPA National Functional Guidelines (USEPA 2005). Summaries of the analytical results are presented in Tables 1 and 2. Laboratory Analytical Reports are presented in Appendices A and B.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines (USEPA 2005):

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

- UB The compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Nitrate

Holding Times

The specified holding time for nitrate (as nitrogen) analyzed by USEPA Method 300.0 is presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate as Nitrogen USEPA Method 300.0	Water	48 hours	Cool to 4±2 °C

The samples were prepared and analyzed within the specified holding time criteria.

Blank Contamination

QA blanks (i.e., laboratory method blanks and equipment rinse blanks) are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Field blanks were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Field Blank Sample Number	Result (mg/L)
SWF0058	9	RW-3214	<0.2
SWF0070	9	RW-3169	<0.2

Note: mg/L – milligrams per liter

Nitrate associated with the QA blanks exhibited a concentration less than the MDL. No data were qualified based on blank contamination.

Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the (optional) MS/MSD analysis must exhibit recoveries within the method-specified acceptance limits of 80 to 120 percent. The relative percent difference (RPD) between the MS and MSD results should be within the laboratory-established acceptance limits of zero to 12.1 percent.

Sample Delivery Group	Number of Collected Samples	MS/MSD Sample Number	Parent Sample Number	Percent Recovery
SWF0058	9	13F0062-MS1	RW-3214	93.7
		13F0062-MSD1	RW-3214	94.2
SWF0070	9	13F0067-MS1	RW-3169	98.1
		13F0067-MSD1	RW-3169	97.9

The MS/MSD results were compliant and no data were qualified based on MS/MSD recovery.

Laboratory Control Sample/Ongoing Precision and Recovery Analysis

The LCS/OPR analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the



LCS/OPR analysis must exhibit recoveries within the method-specified acceptance limits.

All compounds associated with the LCS/OPR analyses exhibited recoveries within the control limits. The LCS/OPR results were compliant and no data were qualified based on LCS/OPR recovery.

Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. Field duplicate samples were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Parent Sample	Result (mg/L)	Duplicate Sample	Result (mg/L)	RPD (percent)
SWF0058	9	RW-1224	9.26	RW-2224	9.28	0.2
SWF0070	9	RW-1212	12.5	RW-2212	12.3	1.6

Note: mg/L – milligrams per liter
RPD – Relative Percent Difference

The duplicate results were compliant and no data were qualified based on the relative percent difference between the two samples.



System Performance and Overall Assessment

Overall system performance was acceptable. The reporting limits met the data quality objects. The overall data quality is within the guidelines specified in the method. No data were qualified based on the findings of the data validation.

Data Validation Checklist for Nitrate

Nitrate (as Nitrogen): USEPA Method 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GC/MS					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X			
Laboratory Control Sample (LCS) Accuracy %R		X		X	
LCS Duplicate (LCSD) %R				X	
LCS/LCSD Precision (RPD)				X	
MS %R		X		X	
MSD %R		X		X	
MS/MSD RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Dilution Factor		X		X	
Moisture Content					X

Note: %R Percent recovery



Tables

Table 1
Summary of Analytical Results
Sample Delivery Group SWF0058

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-1224	6/9/2013 16:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.26	mg/l	
RW-2224	6/9/2013 16:03	Duplicate of RW-1224	EPA 300.0	Nitrate-Nitrogen	9.28	mg/l	
RW-3214	6/9/2013 18:05	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1214	6/9/2013 18:12	Well Sample	EPA 300.0	Nitrate-Nitrogen	12.7	mg/l	
RW-1235	6/9/2013 18:32	Well Sample	EPA 300.0	Nitrate-Nitrogen	6.16	mg/l	
RW-1237	6/9/2013 19:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	35.7	mg/l	
RW-1221	6/9/2013 19:28	Well Sample	EPA 300.0	Nitrate-Nitrogen	13	mg/l	
RW-1238	6/9/2013 19:44	Well Sample	EPA 300.0	Nitrate-Nitrogen	13.8	mg/l	
RW-1230	6/10/2013 11:19	Well Sample	EPA 300.0	Nitrate-Nitrogen	25.9	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Table 2
Summary of Analytical Results
Sample Delivery Group SWF0070

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3169	6/10/2013 14:55	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1169	6/10/2013 15:08	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.72	mg/l	
RW-1212	6/10/2013 16:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	12.5	mg/l	
RW-2212	6/10/2013 16:05	Duplicate of RW-1212	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l	
RW-1211	6/10/2013 16:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.06	mg/l	
RW-1216	6/10/2013 17:02	Well Sample	EPA 300.0	Nitrate-Nitrogen	4.56	mg/l	
RW-1218	6/10/2013 17:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	26.6	mg/l	
RW-1219	6/10/2013 18:10	Well Sample	EPA 300.0	Nitrate-Nitrogen	31.1	mg/l	
RW-1204	6/10/2013 18:40	Well Sample	EPA 300.0	Nitrate-Nitrogen	13.1	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Yakima Valley Dairies
SDWA-10-2013-0080

Residential Well Sampling

Data Usability Summary Report
Sample Delivery Group(s)
SWF0123 and SWF0131

July 15, 2013



A handwritten signature in black ink that reads "Amy Goldberg Day".

Amy Goldberg Day
Project Chemist

A handwritten signature in black ink that reads "Thomas F. Mullen".

Thomas F. Mullen, LHG
Sampling Team Leader

A handwritten signature in blue ink that reads "Kevin M. Freeman".

Kevin M. Freeman, PG
Project Coordinator

**Data Usability Summary Report
Sample Delivery Group(s)
SWF0123 and SWF0131**

Residential Well Sampling
Yakima Valley Dairies
SDWA-10-2013-0080

Prepared for:
Yakima Valley Dairies

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Summary

This Data Usability Summary Report summarizes the review of Sample Delivery Group numbers SWF0123 and SWF0131 for samples collected under the Yakima Valley Dairies Residential Well Sampling Quality Assurance Project Plan (QAPP). This assessment of data validation and usability was performed per the guidance and requirements established under Section 4 of the QAPP.

Samples in Delivery Group numbers SWF0123 and SWF0131 were collected from residential wells per the QAPP during the period June 18 through June 20, 2013. This review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with nitrate were reviewed for this validation. Field documentation was not included in this review.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable	
	No	Yes	No	Yes
1. Sample receipt condition		X		X
2. Requested analyses and sample results		X		X
3. Master tracking list		X		X
4. Methods of analysis		X		X
5. Reporting Limits		X		X
6. Sample collection date		X		X
7. Laboratory sample received date		X		X
8. Sample preservation verification (as applicable)		X		X
9. Sample preparation/extraction/analysis dates		X		X
10. Fully executed chain of custody form		X		X
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X
12. Data package completeness and compliance		X		X

Laboratory Analysis

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 300.0 (USEPA 2010). Data were reviewed in accordance with USEPA National Functional Guidelines (USEPA 2005). Summaries of the analytical results are presented in Tables 1 and 2. Laboratory Analytical Reports are presented in Appendices A and B.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines (USEPA 2005):

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

- UB The compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Nitrate

Holding Times

The specified holding time for nitrate (as nitrogen) analyzed by USEPA Method 300.0 is presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate as Nitrogen USEPA Method 300.0	Water	48 hours	Cool to 4±2 °C

The samples were prepared and analyzed within the specified holding time criteria.

Blank Contamination

QA blanks (i.e., laboratory method blanks and field blanks) are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Field blanks were per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Field Blank Sample Number	Result (mg/L)
SWF0123	6	RW-3025	<0.2
SWF0131	12	RW-3114	<0.2

Note: mg/L – milligrams per liter

Nitrate associated with the QA blanks exhibited a concentration less than the MDL. No data were qualified based on blank contamination.

Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the (optional) MS/MSD analysis must exhibit recoveries within the method-specified acceptance limits of 80 to 120 percent. The relative percent difference (RPD) between the MS and MSD results should be within the laboratory-established acceptance limits of zero to 12.1 percent.

Sample Delivery Group	Number of Collected Samples	MS/MSD Sample Number	Parent Sample Number	Percent Recovery
SWF0123	6	13F0120-MS1	RW-3025	93.9
		13F0120-MSD1	RW-3025	94.6
SWF0131	12	NONE		

The MS/MSD results were compliant and no data were qualified based on MS/MSD recovery.

Laboratory Control Sample/Ongoing Precision and Recovery Analysis

The LCS/OPR analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/OPR analysis must exhibit recoveries within the method-specified acceptance limits.



All compounds associated with the LCS/OPR analyses exhibited recoveries within the control limits. The LCS/OPR results were compliant and no data were qualified based on LCS/OPR recovery.

Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. Field duplicate samples were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Parent Sample	Result (mg/L)	Duplicate Sample	Result (mg/L)	RPD (percent)
SWF0123	6	RW-1134	7.08	RW-2134	7.2	1.7
SWF0131	12	RW-1112	18.1	RW-2112	17.5	3.4
		RW-1210	4.06	RW-2210	3.78	7.1

Note: mg/L – milligrams per liter
RPD – Relative Percent Difference

The duplicate pairs in both SDGs were compliant and no other data were qualified based on RPD non-compliance.



System Performance and Overall Assessment

Overall system performance was acceptable. The reporting limits met the data quality objects. The overall data quality is within the guidelines specified in the method. No data were qualified based on the findings of the data validation.

Data Validation Checklist for Nitrate

Nitrate (as Nitrogen): USEPA Method 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GC/MS					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
Laboratory Control Sample (LCS) Accuracy %R		X		X	
LCS Duplicate (LCSD) %R				X	
LCS/LCSD Precision (RPD)				X	
MS %R		X		X	
MSD %R		X		X	
MS/MSD RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Dilution Factor		X		X	

Note: %R Percent recovery



Tables

Table 1
Summary of Analytical Results
Sample Delivery Group SWF0123

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3025	6/18/2013 19:00	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1025	6/18/2013 19:06	Well Sample	EPA 300.0	Nitrate-Nitrogen	6.16	mg/l	
RW-1111	6/18/2013 19:28	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.16	mg/l	
RW-1076	6/19/2013 9:51	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.58	mg/l	
RW-1134	6/19/2013 14:14	Well Sample	EPA 300.0	Nitrate-Nitrogen	7.08	mg/l	
RW-2134	6/19/2013 14:20	Duplicate of RW-1134	EPA 300.0	Nitrate-Nitrogen	7.2	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Table 2
Summary of Analytical Results
Sample Delivery Group SWF0131

Data Useability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3114	6/19/2013 17:00	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1114	6/19/2013 17:05	Well Sample	EPA 300.0	Nitrate-Nitrogen	12.3	mg/l	
RW-1118	6/19/2013 17:20	Well Sample	EPA 300.0	Nitrate-Nitrogen	3.9	mg/l	
RW-1112	6/19/2013 17:52	Well Sample	EPA 300.0	Nitrate-Nitrogen	18.1	mg/l	
RW-2112	6/19/2013 18:00	Duplicate of RW-1112	EPA 300.0	Nitrate-Nitrogen	17.5	mg/l	
RW-1203	6/19/2013 18:52	Well Sample	EPA 300.0	Nitrate-Nitrogen	17.9	mg/l	
RW-1228	6/19/2013 19:43	Well Sample	EPA 300.0	Nitrate-Nitrogen	9.08	mg/l	
RW-1177	6/19/2013 20:15	Well Sample	EPA 300.0	Nitrate-Nitrogen	6.32	mg/l	
RW-1178	6/19/2013 20:29	Well Sample	EPA 300.0	Nitrate-Nitrogen	5.34	mg/l	
RW-1210	6/20/2013 8:00	Well Sample	EPA 300.0	Nitrate-Nitrogen	4.06	mg/l	
RW-2210	6/20/2013 8:20	Duplicate of RW-1210	EPA 300.0	Nitrate-Nitrogen	3.78	mg/l	
RW-1105	6/20/2013 9:55	Well Sample	EPA 300.0	Nitrate-Nitrogen	8.58	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.

Yakima Valley Dairies
SDWA-10-2013-0080

Residential Well Sampling

Data Usability Summary Report
Sample Delivery Group SWI0124

October 1, 2013



Amy Goldberg Day

Amy Goldberg Day
Project Chemist

Thomas F. Mullen

Thomas F. Mullen, LHG
Sampling Team Leader

Kevin M. Freeman

Kevin M. Freeman, PG
Project Coordinator

**Data Usability Summary Report
Sample Delivery Group(s)
SWI0124**

Residential Well Sampling
Yakima Valley Dairies
SDWA-10-2013-0080

Prepared for:
Yakima Valley Dairies

Prepared by:
ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 928 3369
Fax 509 928 3075

Our Ref.:
SK030326.0001
SK030334.0001
SK030335.0001

Date:
October 1, 2013

Summary	1
Analytical Data Package Documentation	1
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Tables

1	Summary of Analytical Results, Sample Delivery Group SWI0124
---	--

Appendices

A	TestAmerica Labs Analytical Report SWI0124
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Summary

This Data Usability Summary Report summarizes the review of Sample Delivery Group SWI0124 for samples collected under the Yakima Valley Dairies Residential Well Sampling Quality Assurance Project Plan (QAPP). This assessment of data validation and usability was performed per the guidance and requirements established under Section 4 of the QAPP.

Samples in Delivery Group number SWI0124 were collected from residential wells per the QAPP on September 18, 2013. This review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with nitrate were reviewed for this validation. Field documentation was not included in this review.

Analytical Data Package Documentation

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable	
	No	Yes	No	Yes
1. Sample receipt condition		X		X
2. Requested analyses and sample results		X		X
3. Master tracking list		X		X
4. Methods of analysis		X		X
5. Reporting Limits		X		X
6. Sample collection date		X		X
7. Laboratory sample received date		X		X
8. Sample preservation verification (as applicable)		X		X
9. Sample preparation/extraction/analysis dates		X		X
10. Fully executed chain of custody form		X		X
11. Narrative summary of quality assurance (QA) or sample problems provided		X		X
12. Data package completeness and compliance		X		X

Laboratory Analysis

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 300.0 (USEPA 2010). Data were reviewed in accordance with USEPA National Functional Guidelines (USEPA 2005). Summaries of the analytical results are presented in Tables 1 and 2. Laboratory Analytical Reports are presented in Appendix A.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and has already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines (USEPA 2005):

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank. Its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

- UB The compound is considered non-detect at the listed value due to associated blank contamination.
- N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
- R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Nitrate

Holding Times

The specified holding time for nitrate (as nitrogen) analyzed by USEPA Method 300.0 is presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate as Nitrogen USEPA Method 300.0	Water	48 hours	Cool to 4±2 °C

The samples were prepared and analyzed within the specified holding time criteria.

Blank Contamination

QA blanks (i.e., laboratory method blanks and field blanks) are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

A field blank was collected as part of this data set per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Field Blank Sample Number	Result (mg/L)
SWF0123	5	RW-3212A	<0.2

Note: mg/L – milligrams per liter

Nitrate associated with the QA blanks exhibited a concentration less than the MDL. No data were qualified based on blank contamination.

Matrix Spike/Matrix Spike Duplicate Samples

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the (optional) MS/MSD analysis must exhibit recoveries within the method-specified acceptance limits of 80 to 120 percent. The relative percent difference (RPD) between the MS and MSD results should be within the laboratory-established acceptance limits of zero to 12.1 percent.

Sample Delivery Group	Number of Collected Samples	MS/MSD Sample Number	Parent Sample Number	Percent Recovery
SWI0124	5	NONE		

The MS/MSD results based laboratory-prepared blank were compliant and no data were qualified based on MS/MSD recovery.

Laboratory Control Sample/Ongoing Precision and Recovery Analysis

The LCS/OPR analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/OPR analysis must exhibit recoveries within the method-specified acceptance limits.

All compounds associated with the LCS/OPR analyses exhibited recoveries within the control limits. The LCS/OPR results were compliant and no data were qualified based on LCS/OPR recovery.



Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. Field duplicate samples were collected per the specifications in the project specific QAPP.

Sample Delivery Group	Number of Collected Samples	Parent Sample	Result (mg/L)	Duplicate Sample	Result (mg/L)	RPD (percent)
SWI0124	5	RW-1129	28.5	RW-2129	27.1	5.0

Note: mg/L – milligrams per liter
RPD – Relative Percent Difference

The duplicate pair was compliant and no data were qualified based on RPD non-compliance.



System Performance and Overall Assessment

Overall system performance was acceptable. The reporting limits met the data quality objects. The overall data quality is within the guidelines specified in the method. No data were qualified based on the findings of the data validation.

Data Validation Checklist for Nitrate

Nitrate (as Nitrogen): USEPA Method 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Field blanks		X		X	
Laboratory Control Sample (LCS) Accuracy %R		X		X	
LCS Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
MS %R		X		X	
MSD %R		X		X	
MS/MSD RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Dilution Factor		X		X	

Note: %R Percent recovery



Tables

Table 1
Summary of Analytical Results
Sample Delivery Group SWI0124

Data Usability Summary Report
Yakima Valley Dairies
Residential Well Sampling

Sample No.	Sampled	Type	Analytical Method	Analyte	Result	Units	Qualifier
RW-3212A	9/18/2013 11:30	Field Blank	EPA 300.0	Nitrate-Nitrogen	0.2	mg/l	U
RW-1212A	9/18/2013 12:28	Well Sample	EPA 300.0	Nitrate-Nitrogen	15.1	mg/l	
RW-1129	9/18/2013 13:20	Well Sample	EPA 300.0	Nitrate-Nitrogen	28.5	mg/l	
RW-2129	9/18/2013 13:20	Duplicate of RW-1129	EPA 300.0	Nitrate-Nitrogen	27.1	mg/l	
RW-1227	9/18/2013 14:05	Well Sample	EPA 300.0	Nitrate-Nitrogen	51.6	mg/l	

Acronyms and Abbreviations:

mg/l = milligrams per liter

U = The compound was analyzed for but not detected. The result is the compound quantitation limit.



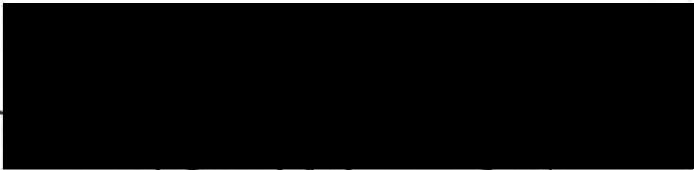
Appendix E

Reverse Osmosis Treatment System
Work Orders

2

RW-1212

I



ARCADIS

Accept offer

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

9-19-13

Installation



To summarize, you may select one of the following

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiecki, EPA Project Coordinator
 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
 Project Coordinator, Yakima Valley Dairies Project

I



RC-1159 #3

ARCADIS

Accept of

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by
9-19-13



Buen

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

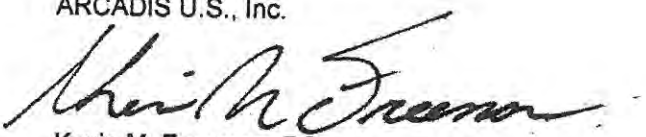
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 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.


 Kevin M. Freeman, PG
 Project Coordinator, Yakima Valley Dairies Project

I



12-13-13
#4

ARCADIS

YVD RO System Offer
Install & Maintenance
[MonthDay,Year]

Accept offer # 1
Installed by TC Girard *[Signature]*

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

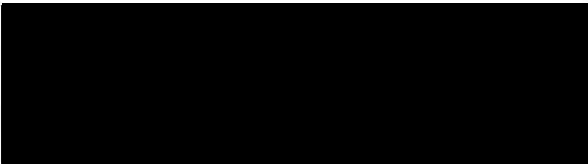
Sincerely,

ARCADIS U.S., Inc.

[Signature]
Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



REV-1068

Accept offer #1
Installed by Bill Maten

YYD RO System Offer
Install & Maintenance
[MonthDay,Year] #5

9-27-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

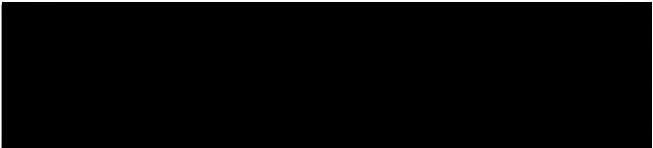
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



RW-1122

6

ARCADIS

Accept Offer #1

Installed 9-20-13

By Bill Mairer

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiacki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

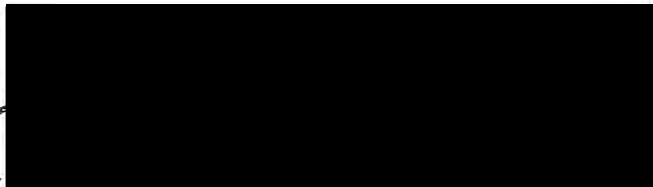
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



RW-1149 #7

ARCADIS

Accepted offer

9-18-13

Installer Bill main

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

BW

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiecki, EPA Project Coordinator
 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
 Project Coordinator, Yakima Valley Dairies Project

I



RW-1098

ARCADIS

Accept offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

8

Installed by Bill Meier

To summarize, you may select one of the following Offers:

9-27-13

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

Bill Meier

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I [Redacted]

KW-1127

accept offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

#9

Installed by TC Girard

[Signature]

10-27-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
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1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

[Signature of Kevin M. Freeman]

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I
[Redacted]
Accept offer #1
Installed 9-20-13

Rw-1174

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

By Bill Maier
BM

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

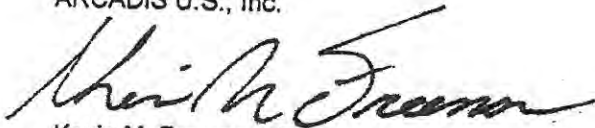
If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiacki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

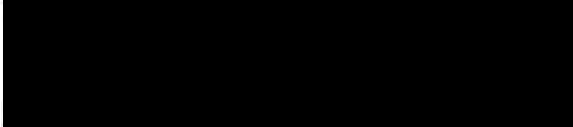
Sincerely,

ARCADIS U.S., Inc.



Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS



RW-1162

#12

Accept offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

less New unit. Has a New unit

To summarize, you may select one of the following Offers:

Already installed

We will

maint. every
6 months

Bill Mair

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiacki.Eric@epa.gov



We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman
 Kevin M. Freeman, PG
 Project Coordinator, Yakima Valley Dairies Project

I



12/10/13

#13

ARCADIS

Accept # 9 less water softener
Installed by TC Girard

YYD RO System Offer
Install & Maintenance
[MonthDay, Year]

[Signature]

10-27-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

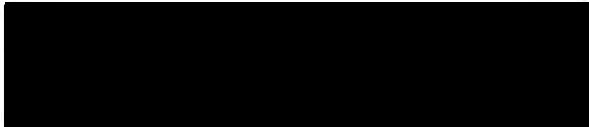
Sincerely,

ARCADIS U.S., Inc.

[Signature of Kevin M. Freeman]

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



RW-1097

#14

ARCADIS

Accept Offer 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by Bill Wainor

on 9-20-13

BWD

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
 Project Coordinator, Yakima Valley Dairies Project

10-10-13

#15

YYD RO System Offer
Install & Maintenance
[MonthDay, Year]

Je J

10-11-13

ARCADIS

I

accept offer # 1
Installed by TC Girard

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

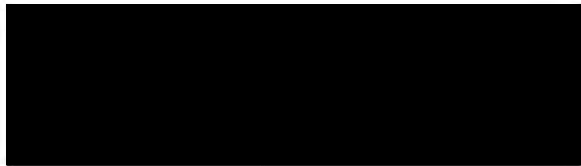
Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman
Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



Rw 1055

Accept Offer #1

YYD RO System Offer
Install & Maintenance #16
[MonthDay,Year]

Installed by Bill Martin

PM

9-24-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

RW-1054

ARCADIS

I [Redacted]

Accept Offer #1
Installed By Bill Mainer 9-24-13

YYD RO System Offer #17
Install & Maintenance
[MonthDay,Year]

Bill Mainer

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



NO-RW-II
given

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Accept Offer #1
Installed 11-1-13 by

T-C #18

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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U.S. EPA, Region 10
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Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

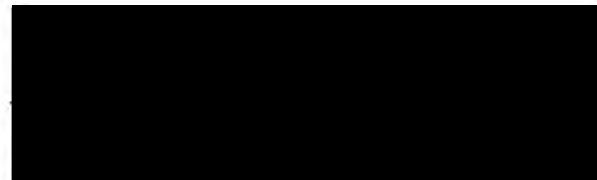
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



Rw-1218

ARCADIS

Accept offer #1

Installed 9-25-13 by

Bill Mares
BMD

YYD RO System Offer
Install & Maintenance #19
[MonthDay, Year]

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

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Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



Rce-1158

YYD RO System Offer
Install & Maintenance
[MonthDay,Year] #20

Accept offer #1

Installed 7-25-13

By Bill Maize

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I [Redacted]

KW-1126

#21

ARCADIS

Accept offer 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

9-18-13

Installer Bill Maier

Bill

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

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 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

*I [Redacted] Accept Offer #1
9-18-13*

RW-1128 #22

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installer Bill Walter



To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

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Seattle, WA 98101
Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

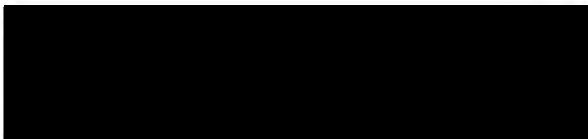
Sincerely,

ARCADIS U.S., Inc.



Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



RW-1102

ARCADIS

Accept Offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by Bill Maier #23

To summarize, you may select one of the following Offers:

9-25-13

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

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 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

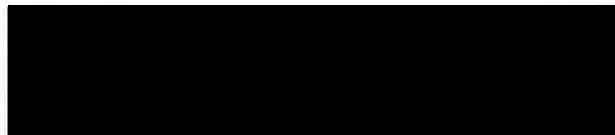
Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



Rw-1065

Accept Offer #1

Installed by Bill Mainer

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

#24

To summarize, you may select one of the following Offers:

7-26-13

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

Burd

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Telephone: 206-553-6904
Winiacki.Eric@epa.gov

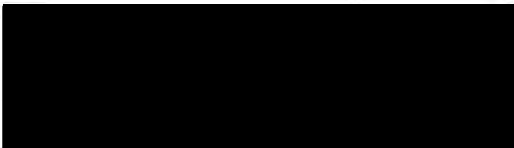
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS



RW-1223

Accept offer # 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by TC Grand

Le Feb # 25

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

10-12-13

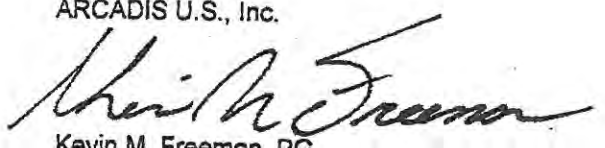
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Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

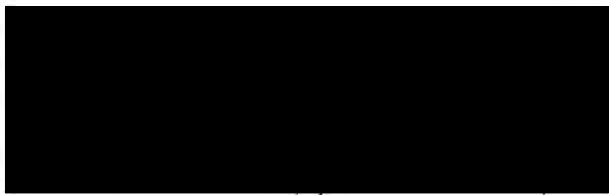
Sincerely,

ARCADIS U.S., Inc.


Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



RW-1040

Accept Offer #1.

Less New unit AS

YYD RO System Offer
Install & Maintenance
[MonthDay,Year] #26

To summarize, you may select one of the following Offers:

home already

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

has New unit.
maint. will be done every 6 months

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Bill Maier

10-1-13

Mr. Eric Winiacki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



RW-1096

Accept offer #1

Installed By Bill Maier

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

#27

To summarize, you may select one of the following Offers:

9-26-13

Bill

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiacki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

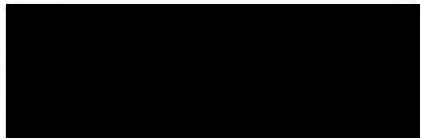
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



Rw-1047

ARCADIS

accept offer # _____
Installed by TC Girard

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

[Signature]

10-15-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

~~104~~
28

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

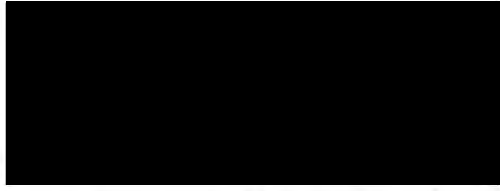
ARCADIS U.S., Inc.

[Signature]

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



RW-1112

accept offer # 1
Installed

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

by JTC Girard
JTC
10-14-13

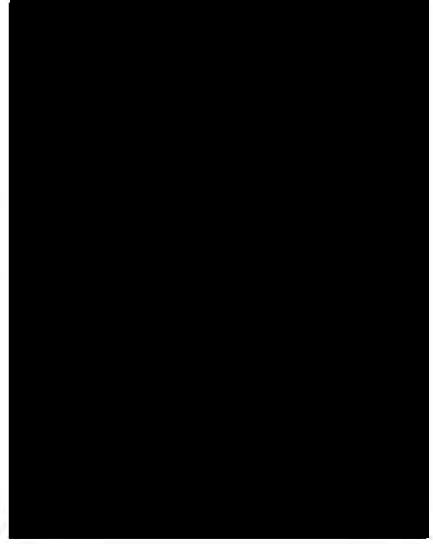
To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

#29
only installed
one RO.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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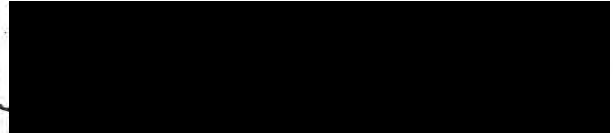
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

1



RW-1108 #30

ARCADIS

Accept Offer 1

9-19-13

Bill Mainer

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
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Seattle, WA 98101
Telephone: 206-553-6904
Winiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

+ [Redacted]

Rw-1041

ARCADIS

accept offer # 1
Installed by TE Girard

YYD RO System Offer
Install & Maintenance # 32
[MonthDay,Year]

Le J d

10-11-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

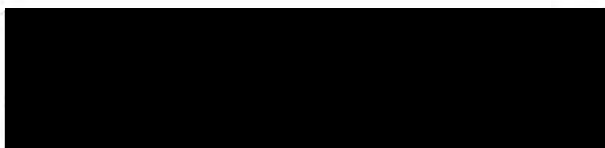
Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

T



RCW-1152

ARCADIS

Accept offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year] #33

Installed by Bill Maier

To summarize, you may select one of the following Offers:

[Signature]

10-1-13

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL [9355]** and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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 U.S. EPA, Region 10
 1200 Sixth Avenue, Suite 900
 Seattle, WA 98101
 Telephone: 206-553-6904
Winiacki.Eric@epa.gov

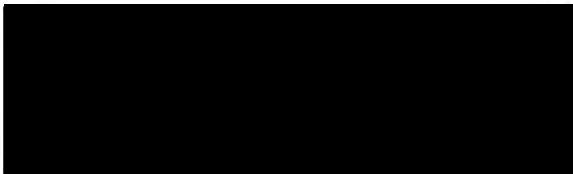
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

[Signature]
 Kevin M. Freeman, PG
 Project Coordinator, Yakima Valley Dairies Project

I



Rw-1125

ARCADIS

Accept offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by Bill Meier

#34

Bill Meier

9-27-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day: During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



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#35

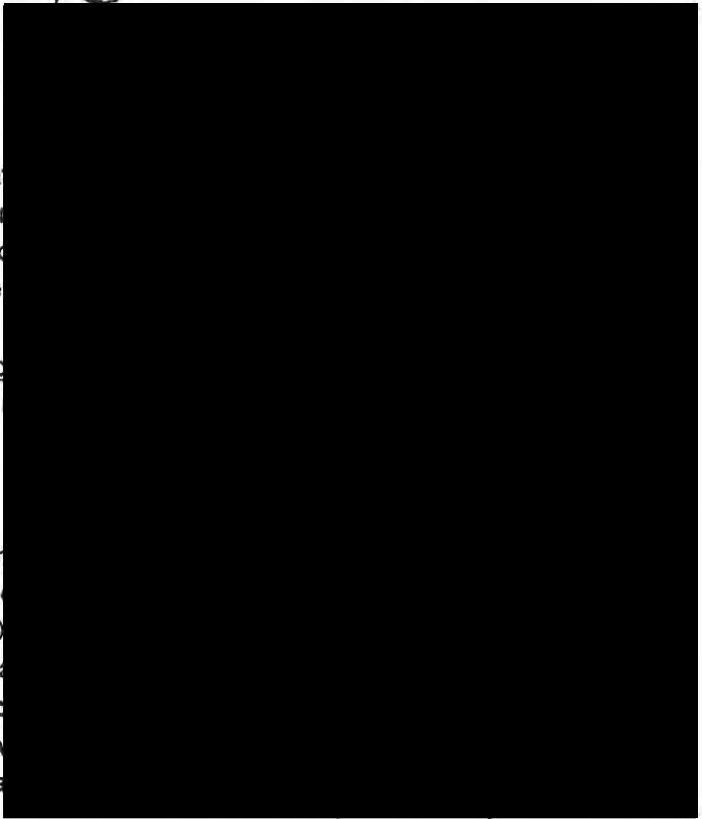
ARCADIS

Accept Offer #1
But will continue to
use our existing.

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but not maintained. You have no obligation to allow additional sampling.
- **THREE** - Decline the system offer.



If you wish to select either Offer ONE or TWO, call our toll-free number 855-509-WELL [9355] and select Option 2. Please leave your name and telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, ask us any questions and schedule installation of the system. **If you do not call within 10 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiacki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

Accepted by
Bill Winiacki
Bill Winiacki
9-26-13

We look forward to the opportunity to offer these services. Thank you for your time.

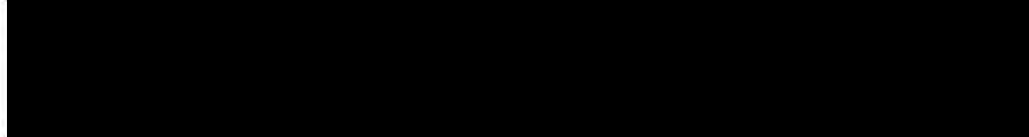
Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project



Infrastructure · Water · Environment · Buildings



ACCEPT Offer # 1
Installed by TC Curand
36
12-6-13

ARCADIS U.S., Inc.
695 North Legacy Ridge Drive
Suite 200
Liberty Lake
Washington 99019
Tel 509 928 3369
Fax 509 928 3075
www.arcadis-us.com

[RecipientName]
[Address Max. 6 lines]

Subject:

**WELL SAMPLING TEST RESULTS AND OFFER OF A WATER
FILTRATION SYSTEM AND MAINTENANCE AT NO CHARGE TO YOU**

ENVIRONMENT

Dear Salutation:

ARCADIS U.S. Inc. (ARCADIS) and the Yakima Valley Dairies (the "Dairies") wish to thank you for participating in our recent drinking well water sampling program. Your drinking water well was identified as being located within the Dairies or within one mile of the southern edge of the Dairies. The sample we collected from your residence measured the amount of nitrate present in your well water. **You are receiving this letter because our testing indicates that the well water contains nitrate at a concentration greater than the EPA Maximum Contaminant Level (MCL) of 10 parts per million.** Your well water contains XX.X parts per million (as milligrams per liter) of nitrate; a copy of your test result from the analytical laboratory is attached to this letter.

Date:
[MonthDay, Year]

Contact:
Kevin M. Freeman, PG

Extension:
211

Email:
YakimaDairies@
arcadis-us.com

Based on this test result, the Dairies offer, at no cost to you, to professionally install an under-sink reverse osmosis (RO) water filtration system (the "system") at this residence. This system is intended to provide a source of potable water for this residence. The system will reduce the amount of nitrate in the water from the faucet where the system is installed to below the MCL.

Our ref:
SK030326.0001.00001
SK030334.0001.00001
SK030335.0001.00001

Additionally, the Dairies offer, at no cost to you, professional maintenance of the RO system installed at this residence. The Dairies will maintain the system so long as the residence is occupied, either by you or future owners/tenants. **The Dairies may discontinue maintenance of the system if the nitrate level in your drinking water well is below the MCL when measured on a quarterly basis over a two-year period.** Accepting the professional maintenance offer will oblige you (and/or future residents) to allow sampling of your well up to four times per year, if requested by the Dairies. Your obligation for sampling would continue for as long as the Dairies provide professional maintenance of the RO system at this residence. The Dairies are not required to sample your well as part of the professional maintenance of the system.

EPA ref:
SDWA-10-2013-0080

Imagine the result

ARCADIS

Rw-1133

YYD RO System Offer
Install & Maintenance
[Month,Day,Year]

1 [Redacted]
accept offer #1
Installed by TC Girard

[Signature] 11-8-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

#37

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

[Signature]
Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

38 I



R6W-1015

ARCADIS

accept offer # 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by TC Girard

10-18-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

38

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



RW-1011

YYD RO System Offer #40
Install & Maintenance
[MonthDay,Year]

Accept Offer #1

Installed by TC Sivan

JJ

To summarize, you may select one of the following Offers:

- ONE - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- TWO - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- THREE - Decline the system offer.

10-7-13

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

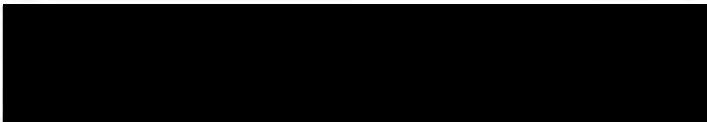
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



KW-1091A

ARCADIS

Accept Offer #1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year] #41

Installed by Bill Mason

To summarize, you may select one of the following Offers:

Bill Mason 10.1.13

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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 Seattle, WA 98101
 Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

I



Rw-109013

ARCADIS

Accept ~~offer~~ #3

YYD RO System Offer
Install & Maintenance #42
[Month,Day,Year]

Bill Maier

Brown

10-1-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

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 Seattle, WA 98101
 Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I [Redacted]

RCW-1203

Accept offer # 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

9-17-13
Installer Bill Maier

#44

But

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

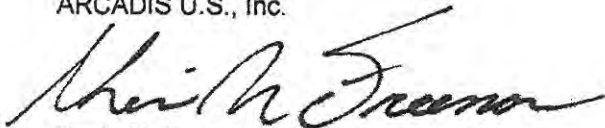
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Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.



Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



KW-1201

#46

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

accept offer # _____
Installed by TC Girard

TC Girard

10-9-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL [9355]** and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day: During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

Mr. Eric Winiiecki, EPA Project Coordinator
U.S. EPA, Region 10
1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiiecki.Eric@epa.gov

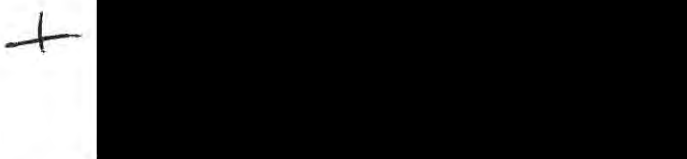
We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS



RW-1231 #47

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

accept offer # _____
Installed by FC Girard

10-9-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS



KW - 11 - 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

accept offer # 1

Installed by TC Girard
10-25-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

47

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS



RW -12FZA

accept offer # 1

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

Installed by TC Edward #50

[Handwritten signature]

10-11-13

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at 855-509-WELL [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Seattle, WA 98101
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Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

I



KW 1221

YYD RO System Offer
Install & Maintenance
[MonthDay,Year]

accept offer # 1

Installed by TC Cirrard
[Signature]
10-25-13

51

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL [9355]** and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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Telephone: 206-553-6904
Winiacki.Eric@epa.gov

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Sincerely,

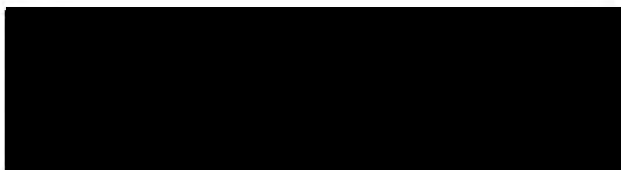
ARCADIS U.S., Inc.

[Signature of Kevin M. Freeman]

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ACADIS

1



PLW1-42
10-25-13

YD RO System Offer
Install & Maintenance
[Month,Day,Year]

accept offer #1
Installed by TC Girard

23

To summarize, you may select one of the following Offers:

Test

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

If you wish to select either Offer ONE or TWO, call our toll-free number at **855-509-WELL** [9355] and select Option 2. Please leave your name, address, a telephone number to reach you, and a best time to call. An ARCADIS representative will return your call, usually by the next business day. During that call, we will answer any questions and schedule installation of the system. **If you do not call within 14 days from the date of this letter, ARCADIS will assume you have selected Offer THREE and are declining the offer(s).** Should you have additional questions regarding this letter, please contact:

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1200 Sixth Avenue, Suite 900
Seattle, WA 98101
Telephone: 206-553-6904
Winiacki.Eric@epa.gov

We look forward to the opportunity to offer these services. Thank you for your time.

Sincerely,

ARCADIS U.S., Inc.

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project

ARCADIS

Rw-1109

YYD RO System Offer
Install & Maintenance
[Month,Day,Year]

accept offer
Installed by TCGround

[Signature]

11.8.13

#55

To summarize, you may select one of the following Offers:

- **ONE** - Have a system installed AND maintained by the Dairies at no cost to you. This option comes with the obligation of allowing additional water sampling at your residence if requested by the Dairies. Also, the Dairies may discontinue professional maintenance under the conditions presented above.
- **TWO** - Have a system installed by the Dairies at no cost to you but NOT maintained. You have no obligation to allow additional sampling under this option.
- **THREE** - Decline the system offer.

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Sincerely,

ARCADIS U.S., Inc.

[Signature of Kevin M. Freeman]

Kevin M. Freeman, PG
Project Coordinator, Yakima Valley Dairies Project



Appendix F

WQX Data Files
(Attached CD-ROM)