

August 9, 2021

Eric Winiecki
United States Environmental Protection Agency
Region 10
1200 Sixth Avenue, Suite 900
Seattle, Washington 98101-3140

Re: Second Quarter 2021 Groundwater Monitoring Data Report, Yakima Valley Dairies,
SDWA-10-2013-0080

This quarterly groundwater monitoring report has been prepared under the Administrative Order on Consent (AOC) Statement of Work. This is the 32nd report prepared under the AOC and concludes the planned 8 years of groundwater monitoring defined in the AOC Statement of Work. The Second Quarter 2021 groundwater monitoring event was conducted from June 6 to June 8, 2021.

As approved in the 2018 *Groundwater Monitoring Quality Assurance Project Plan* (QAPP; Anchor QEA 2018), the first, third, and fourth quarters of each year are considered quarterly monitoring events, and the second quarter of each year is considered an annual event. In accordance with the 2018 QAPP, 18 monitoring wells at the site were sampled for chemical analyses, and manual groundwater elevation measurements were completed in all 26 wells. As of Third Quarter 2019, quarterly sampling was resumed at well YVD-02 due to elevated nitrate concentrations detected in Second Quarter 2019. Beginning in Third Quarter 2020, quarterly sampling was resumed at well DC-07 due to elevated nitrate concentrations detected in Second Quarter 2020.

The locations of the monitoring wells are shown in Figure 1. The wells monitored in the quarterly and annual events are listed in Table 1.

Groundwater Monitoring Activities

Synoptic Depth to Static Water Level Measurement

Synoptic water level measurements were collected from all 26 wells in the monitoring network on June 6, 2021, using an electronic water level meter. Static depth-to-water measurements were recorded to the nearest 0.01 foot from the indicated reference point on each well casing. Static depth-to-water measurements were recorded on the Water Level Survey Form presented in Appendix D of the 2018 QAPP. The depth-to-water measurements were collected from the 26 wells in as short a time period as possible (approximately 8 hours) to provide a “snapshot” of groundwater elevations and to reduce the effect of atmospheric pressure changes or precipitation effects on the water levels. Depth-to-water measurements were converted to groundwater elevations in the North

American Vertical Datum of 1988 (NAVD88) by subtracting the measurements from the surveyed reference point elevation for each well. The depth-to-water measurements and calculated groundwater elevations for Second Quarter 2021 are shown in Table 2.

Continuous Groundwater Elevation Monitoring

Continuous long-term groundwater elevations are being monitored using non-vented Solinst Levellogger Junior Edge pressure transducers in six monitoring wells to evaluate seasonal fluctuations and trends in groundwater elevations. Two pressure transducers are installed in one of the shallow/deep monitoring well pairs to evaluate differences in hydraulic head and vertical gradients between the shallow and deep portions of the surficial aquifer. Wells with transducers include DC-03, the DC-05/DC-05D well pair, YVD-03, YVD-08, and YVD-11. Additionally, a Solinst Barologger Edge barometric pressure transducer is deployed at well YVD-08 to compensate water levels for atmospheric pressure.

Transducers recorded water levels in hourly increments from 12:00 p.m. on October 15, 2013, through December 7, 2020, at 8:00 a.m. Beginning December 7, 2020, at 8:45 a.m., the transducers began recording water levels in 15-minute increments to provide more accurate calibrations from manual depth to water measurements. During data downloads, depths to water in wells were manually gauged using an electronic water level meter. Following the data download, water level data were compensated for atmospheric pressure and calibrated with concurrent field-verified groundwater elevation measurements. Groundwater hydrographs of the six wells with pressure transducers are provided in Appendix A.

Groundwater Elevation Seasonal Patterns

The hydrographs for many of the monitoring wells show a seasonal pattern of water level increases and decreases. For example, the water level in monitoring well YVD-02 historically increased about 12 feet from first quarter to second quarter before an adjacent irrigation ditch was converted to a closed pipe, after which the seasonal pattern became less pronounced.

Another example of seasonal water level fluctuation is observed in well YVD-17, which is located adjacent to the large, unlined Southside irrigation canal run by the Sunnyside Valley Irrigation District (Figure 1). According to the District fact sheet, irrigation usually runs from April 1 through October 20 with canal priming operations beginning in mid-March. The water elevation in YVD-17 varies seasonally by about 6 feet. The lowest water level of each year has consistently occurred in the first quarter (approximately April 1), and the highest water level of each year has consistently occurred in the third quarter (approximately October 1). This suggests that the travel time of water from the flowing irrigation canal to the relatively shallow drinking water aquifer at YVD-17 is likely in the range of days to weeks.

The U.S. Environmental Protection Agency (EPA) has concluded that the seasonal fluctuations observed at monitoring wells indicate that percolation of water from the land surface to the aquifer in the vicinity of the Dairies can and does occur in a range of days to months. The time of travel depends on many factors including the soil type, existing amount of water in the soil, the duration and amount of water, evapotranspiration, and depth to the water table. The percolating water could originate from surface water such as a canal or pond, excess irrigation water from a field, an earthen lagoon, precipitation, or some other source. The groundwater elevation seasonal patterns for each monitoring well are shown in Figure 2 and the following table:

Monitoring Well ID	Clear Seasonal Pattern? (Y/N)	Well Depth from Ground Surface to Mid-Point of Screen (feet)	Highest Groundwater Elevation in 3Q (Fall) and Lowest in 1Q (Spring)	Highest Groundwater Elevation in 4Q (Winter) and Lowest in 2Q (Summer)	Highest Groundwater Elevation in 1Q (Spring) and Lowest in 3Q (Fall)
YVD-02	Y	25	X		
YVD-17	Y	38	X		
DC-04	Y	40	X		
DC-07	Y	49		X	
DC-03	Y	73	X		
DC-05	Y	74		X	
YVD-14R	Y	81		X	
YVD-10	Y	93			X
YVD-15	Y	95		X	
YVD-11	N	107			
DC-03D	Y	111	X		
YVD-09	N	112			
YVD-16	Y	112			X
DC-05D	Y	122		X	
YVD-13	Y	131		X	
DC-14	N	139			
YVD-12	Y	141			X
DC-01	N	150			
YVD-07	Y	158			X
YVD-06	Y	159			X
YVD-05	Y	172			X
YVD-08	Y	172			X
YVD-18	Y	175		X	

Monitoring Well ID	Clear Seasonal Pattern? (Y/N)	Well Depth from Ground Surface to Mid-Point of Screen (feet)	Highest Groundwater Elevation in 3Q (Fall) and Lowest in 1Q (Spring)	Highest Groundwater Elevation in 4Q (Winter) and Lowest in 2Q (Summer)	Highest Groundwater Elevation in 1Q (Spring) and Lowest in 3Q (Fall)
DC-09	Y	184			X
YVD-03	Y	190			X
YVD-04	Y	235			X

Sample Collection

Groundwater samples were collected using low-flow purging and sampling procedures described in the Standard Operating Procedure (SOP) entitled *Low-Flow Groundwater Purging and Sampling Procedures for Monitoring Wells* presented in Appendix E of the 2018 QAPP.

Purging and sampling of the monitoring wells was performed with dedicated 1-inch-diameter stainless-steel Solinst Model 407 bladder pumps with polytetrafluoroethylene (Teflon) bladders installed in each well.

A sample could not be collected at monitoring well YVD-02; the well was dry during the groundwater monitoring event.

Sample Handling and Custody

All samples were accompanied by a chain-of-custody record according to procedures described in the 2018 QAPP. 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 (e.g., a shipping/transport company), to the laboratory sample custodian.

All samples collected for laboratory analyses were delivered to Cascade Analytical, Inc. (Cascade), located at 1008 W Ahtanum Road in Union Gap, Washington. Two sample delivery groups (SDGs) were submitted to the analytical laboratory; the delivery group and collection date are as follows:

Sample Delivery Group	Samples Collected	Date Received by Laboratory
124053	June 6, 2021	June 6, 2021
124105	June 7, 2021	June 7, 2021
124212	June 8, 2021	June 8, 2021

Field Sampling Data Sheets were completed for each sample and indicate what type of samples were collected, sample identification, sample bottle types and volumes collected, field parameter

measurements, and other pertinent information (including significant events and observations that occurred during sampling activities). Enough 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. Original copies of all field forms and chain-of-custody documents were retained by the Yakima Valley Dairies'¹ (Dairies') Field Lead in the project files. Dairy owner certifications are included in Appendix B. Copies of the field forms from Second Quarter 2021 are presented in Appendix C.

Analytical Program

Corrective Actions

No corrective actions were required for the Second Quarter 2021 sampling event.

Data Review, Verification, and Validation

All data underwent a Stage 2 validation, which included a data package completeness review. Data were validated in accordance with the EPA *National Functional Guidelines for Superfund Organic Methods Data Review* (EPA 2014). The Data Validation Report (DVR) is presented in Appendix D. Any deviation from the 2018 QAPP was either documented within this memorandum or in the DVR. Results met project data quality goals and criteria and are usable for all purposes. Refer to Table 4 embedded in the DVR for a list of the qualified results from the data validation process. Qualified results include the following:

- The chloride relative percent difference (RPD) value was above the project control limit of 20% in the field duplicate analyzed on the sample from location YVD-17. These results were qualified "J" to indicate they are estimated.
- The sulfate RPD value was above the project control limit of 20% in the field duplicate analyzed on sample from location DC-07. These results were qualified "J" to indicate they are estimated.
- The total Kjeldahl nitrogen (TKN) matrix spike recoveries analyzed on samples YVD-060721-10, YVD-060821-34, and YVD-060821-22 were below the project-required control limit. The RPD value for YVD-060721-10 was above the project control limit as well. Associated batch sample results have been qualified as "UJ" to indicate the compound or analyte was analyzed for but not detected and the specified limit reported is estimated.

¹ Collectively, the following are referred to as the Yakima Valley Dairies: 1) Cow Palace, LLC; 2) D&A Dairy, LLC (also known as D and A Dairy L.L.C.), George DeRuyter & Son Dairy, LLC, and George & Margaret, LLC; and 3) Liberty Dairy, LLC, and its associated dairy facility H&S Bosma Dairy.

Groundwater Monitoring Results

Site Hydrogeology

The groundwater flow direction at the site is generally to the southwest at an average hydraulic gradient of 0.013 foot per foot. Hydraulic gradients are greater in the topographically higher areas in the northern section of the site, with an average of 0.026. As groundwater flows to the southwest toward the center of the Yakima River valley, hydraulic gradients decrease to approximately 0.011 in the central portion of the site and then decrease further to 0.004 in the southern portion of the site. The estimated average linear groundwater flow velocities for the shallow surficial aquifer at the Dairies range from 0.7 to 24.8 feet per day across the site. These estimated values are based on estimated conductivity values based on observed soil types and have not been confirmed with site-specific aquifer testing (e.g., slug tests).

A groundwater elevation contour map for the surficial aquifer based on Second Quarter 2021 depth to groundwater measurements is shown in Figure 1. Groundwater elevation measurements for Second Quarter 2021 and monitoring well construction details are provided in Tables 2 and 3, respectively. Historical groundwater elevations are provided in Table 4. Estimated possible average linear flow velocity values for Second Quarter 2021 are provided in Table 5. Groundwater hydrographs for all 26 wells are provided in Appendix A.

Groundwater Sampling Results

Groundwater field parameters collected during well purging included dissolved oxygen, pH, oxidation-reduction potential, specific conductance, temperature, and turbidity. Field parameter measurements are presented in Table 6.

Groundwater from the 17 wells sampled was analyzed for the following parameters:

- Nitrate as nitrogen
- Nitrite as nitrogen
- Ammonia
- TKN
- Total phosphorus
- Inorganic anions (chloride, fluoride, sulfate)
- Total metals (calcium, potassium, magnesium, sodium)
- Alkalinity (total and bicarbonate)

Groundwater analytical results for Second Quarter 2021 are presented spatially in Figures 3, 4, 5, and 6 and shown in Table 7. A summary of historical groundwater analytical results is presented in Table 8. Analytical laboratory reports are provided in Appendix E.

Nitrate was measured as nitrogen (Nitrate-N). The nitrate results are presented spatially on a map in Figure 7A. Historical nitrate concentrations since 2013 are presented in Figure 7B and plotted in Figures 8 through 12.

The monitoring well network includes wells that are located upgradient and downgradient of the Dairies. There are four groundwater monitoring wells located upgradient of the Dairy facilities' footprint. All four wells are screened at the water table. Historically, the nitrate concentrations in the four upgradient wells have been consistently below the nitrate maximum contaminant level (MCL) of 10 mg/L. As noted previously, YVD-02 was dry during Second Quarter 2021, and a sample could not be collected. YVD-02 is screened in a shallow basalt layer just downgradient of a former irrigation canal that has now been replaced by an enclosed pipe. After the open ditch was replaced by a piped conveyance, groundwater elevations decreased in the well. YVD-02 has been dry for two of the previous three quarters; a sample has not been collected since Second Quarter 2020 because the well has either been dry or has not had enough water to collect a sample.

Nitrate concentrations in the four upgradient wells for Second Quarter 2021 are as follows:

Upgradient Well	Nitrate (mg/L)
DC-01	8.00
YVD-02	NS
YVD-03	3.23
YVD-04	3.73

Note:
NS: not sampled

Nitrate concentrations in the 22 downgradient monitoring wells that are screened at the water table for Second Quarter 2021 are as follows:

Downgradient Wells	Nitrate (mg/L)
DC-03	185
DC-04	30.9
DC-05	38.5
DC-07	8.80
DC-09	6.20
DC-14	40.2
YVD-05	4.50
YVD-06	0.67
YVD-07	3.34
YVD-08	62.0
YVD-09	54.4

Downgradient Wells	Nitrate (mg/L)
YVD-10	53.1
YVD-11	41.7
YVD-12	14.4
YVD-13	34.0
YVD-14R	121
YVD-15	21.6
YVD-16	21.8
YVD-17	0.40

Nitrate concentrations exceeded the MCL in 13 of the 19 downgradient water table wells.

General observations regarding groundwater quality patterns in the downgradient water table wells (Figures 8 through 11) during Second Quarter 2021 include the following:

- Ammonia, nitrite, TKN, and phosphorus were not detected above their respective method reporting limits in any of the sampled wells in Second Quarter 2021.
- Nitrate was detected below the MCL in well DC-07 at a concentration of 8.80 mg/L. This is the second consecutive quarter that DC-07 has had nitrate concentrations below the MCL. Nitrate concentrations in this well were below the MCL since the monitoring program began until Second Quarter 2020. The well was added to the quarterly sampling program in Third Quarter 2020 and had concentrations above the MCL for three consecutive quarters from Second Quarter 2020 through Fourth Quarter 2020.
- Nitrate was detected above the MCL in well DC-14 at a concentration of 40.2 mg/L. This is the fifth consecutive quarter with increasing nitrate concentrations above the MCL.

EPA has not yet approved formal trend analyses procedures for use with the project. See Figures 8 through 12 for observed nitrate concentrations.

Three downgradient groundwater monitoring wells were constructed with well screens positioned at depths that were estimated by EPA to approximate the depth of a typical residential drinking water well in the area. Each of these deeper wells was paired at the same location with a water table well. The results for each well pair, with the water table well listed above its deeper counterpart, are as follows:

Well Placement	Shallow/Deep Well Pair	Nitrate (mg/L)	Shallow/Deep Well Pair	Nitrate (mg/L)	Shallow/Deep Well Pair	Nitrate (mg/L)
Shallow Well	YVD-13	34.0	DC-03	185	DC-05	38.5
Deep Well	YVD-18	31.8	DC-03D	41.4	DC-05D	13.0

The results from all the well pairs show higher nitrate concentrations at the top of the water table and lower concentrations at depth. The nitrate concentrations in the YVD-13/YVD-18 well pair were approximately equal from First Quarter 2017 through Second Quarter 2019. Since Third Quarter 2019, nitrate concentrations in water table well YVD-13 have been generally increasing relative to the deeper well YVD-18.

Analytical results for cations and anions were used to construct Stiff diagrams and Piper diagrams. A summary of the cation/anion balance is presented in Appendix F. Stiff and Piper diagrams are used to evaluate groundwater chemistry and composition and describe water type classifications of the surficial aquifer.

Stiff diagrams for the 26 wells sampled in Second Quarter 2021 are presented in Figures 13A through 13F. A Stiff diagram could not be prepared for well YVD-02 because the well was dry. Stiff diagrams are used to graphically display groundwater cation and anion concentrations. Concentrations in the Stiff diagrams are expressed in milliequivalents per liter and require a specific conversion for each individual ion concentration. Figure 14 presents the Stiff diagrams next to their respective sample points on a facility base map and shows that dissolved ion concentrations increase in the areas downgradient of the Dairies. Similarly, Figure 15 shows that total dissolved ions and nitrate concentrations increase in the downgradient direction from upgradient well YVD-02 to downgradient well DC-03.

Piper diagrams of general groundwater composition for the 17 wells sampled in Second Quarter 2021 are presented in Figures 16 through 19. Well YVD-02 is not presented on the Piper diagrams because the well was dry. The wells are divided into groups based on location and groundwater flow direction as follows:

- Group 1 located in the western portion of site (DC-03, DC-03D, YVD-08, YVD-09, YVD-12, YVD-13, and YVD-18)
- Group 2 located in the central portion of site (DC-04, DC-07, DC-14, YVD-10, YVD-14R, and YVD-15)
- Group 3 located in the eastern portion of site (DC-05, DC-05D, YVD-02, YVD-07, and YVD-11)

All three groups are shown together in Figure 16, and each group is shown on individual Piper diagrams in Figures 17 through 19. Individual data points within each sample group demonstrate the changes in the groundwater composition throughout the groundwater flow paths through the Dairies site. Most site groundwater is classified as calcium-bicarbonate type, which is present in 10 monitoring wells. Groundwater in four monitoring wells is classified as calcium-sulfate type, groundwater in two wells straddles the border between calcium-bicarbonate type and calcium-sulfate type, and groundwater in one well is classified as "no dominant type."

References

- Anchor QEA (Anchor QEA, LLC), 2018. *Groundwater Monitoring Quality Assurance Project Plan*. Yakima Valley Dairies/SDWA-10-2013-0080. Prepared for Yakima Valley Dairies. February 2018.
- Anchor QEA, 2019. *2018 Annual Report*. Yakima Valley Dairies/SDWA-10-2013-0080. Prepared for Cow Palace, LLC; George DeRuyter & Son Dairy, LLC, D&A Dairy, LLC, and George & Margaret, LLC; Liberty Dairy, LLC; and H&S Bosma Dairy. March 2019.
- EPA (U.S. Environmental Protection Agency), 2014. *National Functional Guidelines for Superfund Organic Methods Data Review*. Office of Superfund Remediation and Technology Innovation, U.S. Environmental Protection Agency, Washington, DC. EPA-540-R-014-002. August 2014.

Recipients

Adam Dolsen, Cow Palace, LLC
Dan DeRuyter, George DeRuyter & Son Dairy, LLC; D&A Dairy, LLC; George & Margaret, LLC
Henry Bosma, Liberty Dairy, LLC; H&S Bosma Dairy
Eric Winiecki, U.S. Environmental Protection Agency, Region 10
Rene Fuentes, U.S. Environmental Protection Agency, Region 10
Charles Clabaugh, U.S. Environmental Protection Agency, Region 10
Jennifer MacDonald, U.S. Environmental Protection Agency, Region 10
Meredith Weinberg, Perkins Coie LLP
Brendan Monahan, Stokes Lawrence PS
Lori Terri Gregory, Foster Pepper PLLC
Mark Larsen, Anchor QEA, LLC

Accompanying Materials

Tables

Table 1	Groundwater Monitoring Frequency
Table 2	Summary of Groundwater Elevations – Second Quarter 2021
Table 3	Monitoring Well Construction Details
Table 4	Historical Groundwater Elevations
Table 5	Estimated Possible Average Linear Groundwater Flow Velocities – Second Quarter 2021
Table 6	Field Parameter Measurements – Second Quarter 2021
Table 7	Groundwater Analytical Results – Second Quarter 2021
Table 8	Historical Groundwater Analytical Results

Figures

Figure 1	Surficial Aquifer Groundwater Elevation Contour Map Second Quarter 2021
Figure 2	Seasonal Groundwater Elevation Patterns
Figure 3	Nutrient Concentrations in Groundwater Second Quarter 2021
Figure 4	Anion Concentrations in Groundwater Second Quarter 2021
Figure 5	Metals Concentrations in Groundwater Second Quarter 2021
Figure 6	Alkalinity Concentrations in Groundwater Second Quarter 2021
Figure 7A	Nitrate Concentrations in Groundwater Second Quarter 2021
Figure 7B	Historical Nitrate Concentrations in Groundwater
Figure 8	Nitrate Concentrations – East Downgradient Wells
Figure 9	Nitrate Concentrations – West Downgradient Wells
Figure 10	Nitrate Concentrations – Central Downgradient Wells
Figure 11	Nitrate Concentrations – Northern Downgradient Wells
Figure 12	Nitrate Concentrations – Upgradient Wells
Figure 13A	Stiff Diagrams – DC-01, DC-03, DC-03D
Figure 13B	Stiff Diagrams – DC-04, DC-05, DC-05D
Figure 13C	Stiff Diagrams – DC-07, DC09, DC-14
Figure 13D	Stiff Diagrams – YVD-03, YVD-04, YVD-05
Figure 13E	Stiff Diagrams – YVD-06, YVD-07, YVD-08
Figure 13F	Stiff Diagrams – YVD-09, YVD-10, YVD-11
Figure 13G	Stiff Diagrams – YVD-12, YVD-13, YVD-14R
Figure 13H	Stiff Diagrams – YVD-15, YVD-16, YVD-17
Figure 13I	Stiff Diagram – YVD-18
Figure 14	Stiff Diagrams and Groundwater Elevation Contour Map
Figure 15	Nitrate and Total Dissolved Ion Concentration Along North-South Transect
Figure 16	Piper Diagram – All Wells
Figure 17	Piper Diagram – Group 1 Wells
Figure 18	Piper Diagram – Group 2 Wells
Figure 19	Piper Diagram – Group 3 Wells

Appendices

Appendix A	Groundwater Hydrographs
Appendix B	Owner Certifications
Appendix C	Groundwater Sampling Records
Appendix D	Data Validation Report
Appendix E	Analytical Laboratory Reports
Appendix F	Ion Balance Summary

Tables

Table 1
Groundwater Monitoring Frequency

Well ID	Manual Groundwater Elevation Measurements (Quarterly)	Long-Term Groundwater Elevation Measurements (Hourly)	Groundwater Sampling Frequency	
			Quarterly	Annually (Second Quarter Event)
DC-01	X			X
DC-03	X	X	X	X
DC-03D	X		X	X
DC-04	X		X	X
DC-05	X	X	X	X
DC-05D	X	X	X	X
DC-07	X		X	X
DC-09	X			X
DC-14	X		X	X
YVD-02	X		X	X
YVD-03	X	X		X
YVD-04	X			X
YVD-05	X			X
YVD-06	X			X
YVD-07	X			X
YVD-08	X	X	X	X
YVD-09	X		X	X
YVD-10	X		X	X
YVD-11	X	X	X	X
YVD-12	X		X	X
YVD-13	X		X	X
YVD-14R	X		X	X
YVD-15	X		X	X
YVD-16	X		X	X
YVD-17	X			X
YVD-18	X		X	X

Table 2
Summary of Groundwater Elevations – Second Quarter 2021

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-01	6/6/2021	1199.17	150.86	1048.31
DC-03	6/6/2021	910.58	75.89	834.69
DC-03D	6/6/2021	911.33	76.57	834.76
DC-04	6/6/2021	877.22	39.12	838.10
DC-05	6/6/2021	911.95	74.88	837.07
DC-05D	6/6/2021	915.91	79.28	836.63
DC-07	6/6/2021	889.29	48.69	840.60
DC-09	6/6/2021	1048.60	161.68	886.92
DC-14	6/6/2021	1036.61	138.28	898.33
YVD-02	6/6/2021	1288.97	ND	dry
YVD-03	6/6/2021	1120.68	195.50	925.18
YVD-04	6/6/2021	1118.66	224.48	894.18
YVD-05	6/6/2021	1051.78	173.39	878.39
YVD-06	6/6/2021	1053.51	112.36	941.15
YVD-07	6/6/2021	1073.03	161.15	911.88
YVD-08	6/6/2021	1014.38	173.75	840.63
YVD-09	6/6/2021	966.81	113.80	853.01
YVD-10	6/6/2021	958.00	95.54	862.46
YVD-11	6/6/2021	967.91	111.79	856.12
YVD-12	6/6/2021	961.91	140.70	821.21
YVD-13	6/6/2021	965.59	129.99	835.60
YVD-14R	6/6/2021	921.41	81.41	840.00
YVD-15	6/6/2021	940.61	96.97	843.64
YVD-16	6/6/2021	975.90	118.88	857.02
YVD-17	6/6/2021	866.73	37.82	828.91
YVD-18	6/6/2021	965.74	130.11	835.63

Notes:

BTOC: below top of casing

NAVD88: North American Vertical Datum of 1988

ND: not detected

Table 3
Monitoring Well Construction Details

Well ID	Coordinates		Top of Casing Elevation (feet NAVD88)	Ground Surface Elevation (feet NAVD88)	Surface Completion	Well Depth (feet bgs)	Casing and Screen Material	Screen Slot Size (inches)	Screen Length (feet)	Depth to Top of Screen (feet bgs)	Depth to Bottom of Screen (feet bgs)	Elevation of Top of Screen (feet NAVD88)	Elevation of Base of Screen (feet NAVD88)	Depth to Top of Filter Pack (feet bgs)	Depth to Bottom of Filter Pack (feet bgs)
	Latitude	Longitude													
Monitoring Wells															
DC-01	46.418795	-120.138185	1199.17	1199.64	Flush	160.0	Schedule 40 PVC	0.020	20.0	140.0	160.0	1059.6	1039.6	136.0	160.0
DC-03	46.386289	-120.146145	910.58	911.04	Flush	85.0	Schedule 40 PVC	0.020	20.0	62.5	82.5	848.5	828.5	58.5	85.0
DC-03D	46.386220	-120.146054	911.33	908.83	Stick-up	116.1	Schedule 40 PVC	0.020	9.5	106.1	115.6	802.7	793.2	100.0	116.5
DC-04	46.382446	-120.131129	877.22	877.62	Flush	51.0	Schedule 40 PVC	0.020	20.0	29.5	49.5	848.1	828.1	24.5	51.0
DC-05	46.382358	-120.120237	911.95	912.35	Flush	86.0	Schedule 40 PVC	0.020	20.0	63.5	83.5	848.9	828.9	59.5	86.0
DC-05D	46.382517	-120.120210	915.91	913.55	Stick-up	126.8	Schedule 40 PVC	0.020	9.5	116.8	126.3	796.8	787.3	114.0	128.0
DC-07	46.389612	-120.141671	889.29	889.78	Flush	61.0	Schedule 40 PVC	0.020	20.0	38.5	58.5	851.3	831.3	34.5	61.0
DC-09	46.404230	-120.120858	1048.60	1048.97	Flush	196.0	Schedule 40 PVC	0.020	20.0	173.5	193.5	875.5	855.5	169.5	196.0
DC-14	46.404240	-120.139685	1036.61	1036.92	Flush	151.0	Schedule 40 PVC	0.020	20.0	128.5	148.5	908.4	888.4	124.5	151.0
YVD-02	46.422601	-120.113697	1288.97	1285.81	Stick-up	35.0	Schedule 40 PVC	0.020	19.5	15.0	34.5	1270.8	1251.3	13.0	36.0
YVD-03	46.414227	-120.139638	1120.68	1118.15	Stick-up	200.1	Schedule 40 PVC	0.020	19.5	180.1	199.6	938.1	918.6	176.0	202.0
YVD-04	46.408062	-120.156224	1118.66	1116.06	Stick-up	245.2	Schedule 40 PVC	0.020	19.5	225.2	244.7	890.9	871.4	220.0	248.0
YVD-05	46.404457	-120.142790	1051.78	1052.26	Flush	182.2	Schedule 40 PVC	0.020	19.5	162.2	181.7	890.1	870.6	156.0	208.0
YVD-06	46.407671	-120.137191	1053.51	1053.88	Flush	169.0	Schedule 40 PVC	0.020	19.5	149.0	168.5	904.9	885.4	144.0	170.0
YVD-07	46.404432	-120.125205	1073.03	1070.59	Stick-up	168.3	Schedule 40 PVC	0.020	19.5	148.3	167.8	922.3	902.8	145.0	169.0
YVD-08	46.396920	-120.152771	1014.38	1011.92	Stick-up	182.5	Schedule 40 PVC	0.020	19.5	162.5	182.0	849.4	829.9	155.0	188.0
YVD-09	46.396832	-120.144078	966.81	964.28	Stick-up	122.3	Schedule 40 PVC	0.020	19.5	102.3	121.8	862.0	842.5	9.5	128.0
YVD-10	46.396978	-120.136165	958.00	955.45	Stick-up	103.1	Schedule 40 PVC	0.020	19.5	83.1	102.6	872.4	852.9	76.0	103.5
YVD-11	46.393446	-120.123627	967.91	965.51	Stick-up	116.9	Schedule 40 PVC	0.020	19.5	96.9	116.4	868.6	849.1	94.0	117.3
YVD-12	46.389730	-120.166996	961.91	959.51	Stick-up	151.4	Schedule 40 PVC	0.020	19.5	131.4	150.9	828.1	808.6	127.0	154.0
YVD-13	46.389708	-120.151673	965.59	963.07	Stick-up	141.0	Schedule 40 PVC	0.020	19.5	121.0	140.5	842.1	822.6	117.0	148.0
YVD-14R	46.389532	-120.145124	920.19	918.80	Stick-up	93.0	Schedule 40 PVC	0.020	20.0	72.0	92.0	846.8	826.8	69.0	93.0
YVD-15	46.389802	-120.137153	940.61	938.08	Stick-up	105.1	Schedule 40 PVC	0.020	19.5	85.1	104.6	853.0	833.5	81.0	128.0
YVD-16	46.389586	-120.114783	975.90	972.99	Stick-up	122.1	Schedule 40 PVC	0.020	19.5	102.1	121.6	870.9	851.4	100.5	127.0
YVD-17	46.380761	-120.142067	866.73	864.28	Stick-up	47.7	Schedule 40 PVC	0.020	19.5	27.7	47.2	836.6	817.1	25.0	58.0
YVD-18	46.389758	-120.151671	965.74	963.42	Stick-up	179.9	Schedule 40 PVC	0.020	9.5	169.9	179.4	793.5	784.0	166.0	181.5
Decommissioned Wells															
YVD-14	46.389536	-120.145067	920.19	917.64	Stick-up	91.0	Schedule 40 PVC	0.020	19.5	71.0	90.5	846.6	827.1	66.0	98.0

Notes:
Latitude and longitude in decimal degrees based on World Geodetic Survey 1984.
bgs: below ground surface
NAVD88: North American Vertical Datum of 1988
PVC: polyvinyl chloride

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-01	9/16/2013	1199.17	150.45	1048.72
DC-01	12/9/2013	1199.17	150.66	1048.51
DC-01	3/16/2014	1199.17	150.43	1048.74
DC-01	6/1/2014	1199.17	150.50	1048.67
DC-01	9/21/2014	1199.17	150.32	1048.85
DC-01	12/14/2014	1199.17	150.20	1048.97
DC-01	3/5/2015	1199.17	150.35	1048.82
DC-01	6/15/2015	1199.17	150.41	1048.76
DC-01	9/21/2015	1199.17	150.50	1048.67
DC-01	12/13/2015	1199.17	150.46	1048.71
DC-01	3/8/2016	1199.17	150.53	1048.64
DC-01	6/19/2016	1199.17	150.70	1048.47
DC-01	9/25/2016	1199.17	150.70	1048.47
DC-01	12/11/2016	1199.17	150.65	1048.52
DC-01	3/5/2017	1199.17	150.55	1048.62
DC-01	6/4/2017	1199.17	150.68	1048.49
DC-01	9/27/2017	1199.17	150.81	1048.36
DC-01	12/3/2017	1199.17	150.74	1048.43
DC-01	3/18/2018	1199.17	150.74	1048.43
DC-01	6/3/2018	1199.17	150.74	1048.43
DC-01	9/8/2018	1199.17	150.44	1048.73
DC-01	12/9/2018	1199.17	150.94	1048.23
DC-01	3/21/2019	1199.17	150.78	1048.39
DC-01	6/1/2019	1199.17	150.85	1048.32
DC-01	9/8/2019	1199.17	150.77	1048.40
DC-01	12/8/2019	1199.17	150.79	1048.38
DC-01	3/29/2020	1199.17	150.74	1048.43
DC-01	6/7/2020	1199.17	150.87	1048.30
DC-01	9/20/2020	1199.17	150.97	1048.20
DC-01	12/6/2020	1199.17	151.06	1048.11
DC-01	2/28/2021	1199.17	150.99	1048.18
DC-01	6/6/2021	1199.17	150.86	1048.31
DC-03	9/16/2013	910.58	72.43	838.15
DC-03	12/9/2013	910.58	72.55	838.03
DC-03	3/16/2014	910.58	73.62	836.96
DC-03	6/1/2014	910.58	73.25	837.33
DC-03	9/21/2014	910.58	72.26	838.32
DC-03	12/14/2014	910.58	72.40	838.18

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-03	3/5/2015	910.58	73.60	836.98
DC-03	6/15/2015	910.58	73.12	837.46
DC-03	9/21/2015	910.58	72.35	838.23
DC-03	12/13/2015	910.58	73.64	837.94
DC-03	3/8/2016	910.58	73.99	836.59
DC-03	6/19/2016	910.58	73.84	836.74
DC-03	9/25/2016	910.58	72.87	837.71
DC-03	12/11/2016	910.58	72.93	837.65
DC-03	3/5/2017	910.58	74.20	836.38
DC-03	6/4/2017	910.58	74.21	836.37
DC-03	9/27/2017	910.58	72.81	837.77
DC-03	12/3/2017	910.58	73.11	837.47
DC-03	3/18/2018	910.58	74.54	836.04
DC-03	6/3/2018	910.58	74.08	836.50
DC-03	9/8/2018	910.58	73.24	837.34
DC-03	12/9/2018	910.58	73.32	837.26
DC-03	3/21/2019	910.58	75.01	835.57
DC-03	6/1/2019	910.58	74.94	835.64
DC-03	9/8/2019	910.58	73.95	836.63
DC-03	12/8/2019	910.58	74.10	836.48
DC-03	3/29/2020	910.58	75.90	834.68
DC-03	6/7/2020	910.58	75.52	835.06
DC-03	9/20/2020	910.58	74.46	836.12
DC-03	12/6/2020	910.58	74.56	836.02
DC-03	2/28/2021	910.58	75.94	834.64
DC-03	6/6/2021	910.58	75.89	834.69
DC-03D	9/16/2013	911.33	73.03	838.30
DC-03D	12/9/2013	911.33	73.16	838.17
DC-03D	3/16/2014	911.33	74.35	836.98
DC-03D	6/1/2014	911.33	73.90	837.43
DC-03D	9/21/2014	911.33	72.87	838.46
DC-03D	12/14/2014	911.33	73.13	838.20
DC-03D	3/5/2015	911.33	74.28	837.05
DC-03D	6/15/2015	911.33	73.72	837.61
DC-03D	9/21/2015	911.33	72.96	838.37
DC-03D	12/13/2015	911.33	73.31	838.02
DC-03D	3/8/2016	911.33	74.66	836.67
DC-03D	6/19/2016	911.33	74.47	836.86

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-03D	9/25/2016	911.33	73.44	837.89
DC-03D	12/11/2016	911.33	73.73	837.60
DC-03D	3/5/2017	911.33	75.05	836.28
DC-03D	6/4/2017	911.33	74.88	836.45
DC-03D	9/27/2017	911.33	73.42	837.91
DC-03D	12/3/2017	911.33	73.80	837.53
DC-03D	3/18/2018	911.33	75.30	836.03
DC-03D	6/3/2018	911.33	74.82	836.51
DC-03D	9/8/2018	911.33	73.78	837.55
DC-03D	12/9/2018	911.33	74.01	837.32
DC-03D	3/21/2019	911.33	75.75	835.58
DC-03D	6/1/2019	911.33	75.65	835.68
DC-03D	9/8/2019	911.33	74.55	836.78
DC-03D	12/8/2019	911.33	74.79	836.54
DC-03D	3/29/2020	911.33	76.49	834.84
DC-03D	6/7/2020	911.33	76.19	835.14
DC-03D	9/20/2020	911.33	75.06	836.27
DC-03D	12/6/2020	911.33	75.24	836.09
DC-03D	2/28/2021	911.33	76.66	834.67
DC-03D	6/6/2021	911.33	76.57	834.76
DC-04	9/16/2013	877.22	31.75	845.47
DC-04	12/9/2013	877.22	32.61	844.61
DC-04	3/16/2014	877.22	34.55	842.67
DC-04	6/1/2014	877.22	34.65	842.57
DC-04	9/21/2014	877.22	31.99	845.23
DC-04	12/14/2014	877.22	32.98	844.24
DC-04	3/5/2015	877.22	34.31	842.91
DC-04	6/15/2015	877.22	34.70	842.52
DC-04	9/21/2015	877.22	33.61	843.61
DC-04	12/13/2015	877.22	34.38	842.84
DC-04	3/8/2016	877.22	35.60	841.62
DC-04	6/19/2016	877.22	34.74	842.48
DC-04	9/25/2016	877.22	33.81	843.41
DC-04	12/11/2016	877.22	34.33	842.89
DC-04	3/5/2017	877.22	35.45	841.77
DC-04	6/4/2017	877.22	35.63	841.59
DC-04	9/27/2017	877.22	34.42	842.80
DC-04	12/3/2017	877.22	35.17	842.05

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-04	3/18/2018	877.22	36.89	840.33
DC-04	6/3/2018	877.22	37.17	840.05
DC-04	9/8/2018	877.22	36.45	840.77
DC-04	12/9/2018	877.22	36.17	841.05
DC-04	3/21/2019	877.22	37.73	839.49
DC-04	6/1/2019	877.22	38.20	839.02
DC-04	9/8/2019	877.22	36.96	840.26
DC-04	12/8/2019	877.22	36.83	840.39
DC-04	3/29/2020	877.22	38.37	838.85
DC-04	6/7/2020	877.22	38.58	838.64
DC-04	9/20/2020	877.22	37.23	839.99
DC-04	12/6/2020	877.22	36.76	840.46
DC-04	2/28/2021	877.22	38.35	838.87
DC-04	6/6/2021	877.22	39.12	838.10
DC-05	9/16/2013	911.95	67.78	844.17
DC-05	12/9/2013	911.95	68.28	843.67
DC-05	3/16/2014	911.95	69.25	842.70
DC-05	6/1/2014	911.95	70.15	841.80
DC-05	9/21/2014	911.95	69.43	842.52
DC-05	12/14/2014	911.95	68.80	843.15
DC-05	3/5/2015	911.95	69.33	842.62
DC-05	6/15/2015	911.95	70.28	841.67
DC-05	9/21/2015	911.95	69.94	842.01
DC-05	12/13/2015	911.95	69.59	842.36
DC-05	3/8/2016	911.95	70.58	841.37
DC-05	6/19/2016	911.95	71.43	840.52
DC-05	9/25/2016	911.95	71.08	840.87
DC-05	12/11/2016	911.95	70.24	841.71
DC-05	3/5/2017	911.95	70.98	840.97
DC-05	6/4/2017	911.95	71.81	840.14
DC-05	9/27/2017	911.95	71.14	840.81
DC-05	12/3/2017	911.95	70.50	841.45
DC-05	3/18/2018	911.95	71.06	840.89
DC-05	6/3/2018	911.95	71.33	840.62
DC-05	9/8/2018	911.95	71.39	840.56
DC-05	12/9/2018	911.95	70.82	841.13
DC-05	3/21/2019	911.95	71.46	840.49
DC-05	6/1/2019	911.95	71.95	840.00

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-05	9/8/2019	911.95	72.09	839.86
DC-05	12/8/2019	911.95	71.47	840.48
DC-05	3/29/2020	911.95	72.43	839.52
DC-05	6/7/2020	911.95	73.11	838.84
DC-05	9/20/2020	911.95	73.38	838.57
DC-05	12/6/2020	911.95	73.03	838.92
DC-05	2/28/2021	911.95	73.97	837.98
DC-05	6/6/2021	911.95	74.88	837.07
DC-05D	9/16/2013	915.91	71.92	843.99
DC-05D	12/9/2013	915.91	72.04	843.87
DC-05D	3/16/2014	915.91	73.83	842.08
DC-05D	6/1/2014	915.91	74.80	841.11
DC-05D	9/21/2014	915.91	73.78	842.13
DC-05D	12/14/2014	915.91	73.02	842.89
DC-05D	3/5/2015	915.91	73.66	842.25
DC-05D	6/15/2015	915.91	74.71	841.20
DC-05D	9/21/2015	915.91	74.38	841.53
DC-05D	12/13/2015	915.91	73.88	842.03
DC-05D	3/8/2016	915.91	74.70	841.21
DC-05D	6/19/2016	915.91	75.71	840.20
DC-05D	9/25/2016	915.91	75.40	840.51
DC-05D	12/11/2016	915.91	74.65	841.26
DC-05D	3/5/2017	915.91	74.96	840.95
DC-05D	6/4/2017	915.91	75.94	839.97
DC-05D	9/27/2017	915.91	75.47	840.44
DC-05D	12/3/2017	915.91	74.64	841.27
DC-05D	3/18/2018	915.91	75.43	840.48
DC-05D	6/3/2018	915.91	75.46	840.45
DC-05D	9/8/2018	915.91	75.54	840.37
DC-05D	12/9/2018	915.91	75.00	840.91
DC-05D	3/21/2019	915.91	75.30	840.61
DC-05D	6/1/2019	915.91	76.26	839.65
DC-05D	9/8/2019	915.91	76.17	839.74
DC-05D	12/8/2019	915.91	75.37	840.54
DC-05D	3/29/2020	915.91	76.38	839.53
DC-05D	6/7/2020	915.91	77.36	838.55
DC-05D	9/20/2020	915.91	77.85	838.06
DC-05D	12/6/2020	915.91	77.21	838.70

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-05D	2/28/2021	915.91	78.68	837.23
DC-05D	6/6/2021	915.91	79.28	836.63
DC-07	9/16/2013	889.29	44.76	844.53
DC-07	12/9/2013	889.29	44.15	845.14
DC-07	3/16/2014	889.29	44.76	844.53
DC-07	6/1/2014	889.29	35.12 ¹	
DC-07	9/21/2014	889.29	44.59	844.70
DC-07	12/14/2014	889.29	44.13	845.16
DC-07	3/5/2015	889.29	44.90	844.39
DC-07	6/15/2015	889.29	45.30	843.99
DC-07	9/21/2015	889.29	45.08	844.21
DC-07	12/13/2015	889.29	44.65	844.64
DC-07	3/8/2016	889.29	45.50	843.79
DC-07	6/19/2016	889.29	46.16	843.13
DC-07	9/25/2016	889.29	45.69	843.60
DC-07	12/11/2016	889.29	45.61	843.68
DC-07	3/5/2017	889.29	46.27	843.02
DC-07	6/4/2017	889.29	46.54	842.75
DC-07	9/27/2017	889.29	46.11	843.18
DC-07	12/3/2017	889.29	45.73	843.56
DC-07	3/18/2018	889.29	46.45	842.84
DC-07	6/3/2018	889.29	46.76	842.53
DC-07	9/8/2018	889.29	46.32	842.97
DC-07	12/9/2018	889.29	46.09	843.20
DC-07	3/21/2019	889.29	46.94	842.35
DC-07	6/1/2019	889.29	47.36	841.93
DC-07	9/8/2019	889.29	46.79	842.50
DC-07	12/8/2019	889.29	46.68	842.61
DC-07	3/29/2020	889.29	47.65	841.64
DC-07	6/7/2020	889.29	48.04	841.25
DC-07	7/13/2020	889.29	48.06	841.23
DC-07	9/20/2020	889.29	47.80	841.49
DC-07	12/6/2020	889.29	47.51	841.78
DC-07	2/28/2021	889.29	48.12	841.17
DC-07	6/6/2021	889.29	48.69	840.60
DC-09	9/16/2013	1048.60	147.16	901.44
DC-09	12/9/2013	1048.60	143.10	905.50

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-09	3/16/2014	1048.60	139.81	908.79
DC-09	6/1/2014	1048.60	142.53	906.07
DC-09	9/21/2014	1048.60	143.67	904.93
DC-09	12/14/2014	1048.60	139.42	909.18
DC-09	3/5/2015	1048.60	137.83	910.77
DC-09	6/15/2015	1048.60	146.33	902.27
DC-09	9/21/2015	1048.60	151.28	897.32
DC-09	12/13/2015	1048.60	147.46	901.14
DC-09	3/8/2016	1048.60	146.70	901.90
DC-09	6/19/2016	1048.60	151.03 ¹	897.57
DC-09	9/25/2016	1048.60	151.98	896.62
DC-09	12/11/2016	1048.60	148.71	899.89
DC-09	3/5/2017	1048.60	146.24	902.36
DC-09	6/4/2017	1048.60	148.62	899.98
DC-09	9/27/2017	1048.60	151.56	897.04
DC-09	12/3/2017	1048.60	149.27	899.33
DC-09	3/18/2018	1048.60	146.19	902.41
DC-09	6/3/2018	1048.60	149.27	899.33
DC-09	9/8/2018	1048.60	151.66	896.94
DC-09	12/9/2018	1048.60	149.99	898.61
DC-09	3/21/2019	1048.60	148.87	899.73
DC-09	6/1/2019	1048.60	151.32	897.28
DC-09	9/8/2019	1048.60	155.69	892.91
DC-09	12/8/2019	1048.60	155.23	893.37
DC-09	3/29/2020	1048.60	156.53	892.07
DC-09	6/7/2020	1048.60	157.91	890.69
DC-09	9/20/2020	1048.60	161.02	887.58
DC-09	12/6/2020	1048.60	160.56	888.04
DC-09	2/28/2021	1048.60	159.29	889.31
DC-09	6/6/2021	1048.60	161.68	886.92
DC-14	9/16/2013	1036.61	131.08	905.53
DC-14	12/9/2013	1036.61	131.10	905.51
DC-14	3/16/2014	1036.61	130.32	906.29
DC-14	6/1/2014	1036.61	130.02	906.59
DC-14	9/21/2014	1036.61	130.25	906.36
DC-14	12/14/2014	1036.61	137.91 ¹	
DC-14	3/5/2015	1036.61	129.51	907.10
DC-14	6/15/2015	1036.61	129.37	907.24

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
DC-14	9/21/2015	1036.61	130.28	906.33
DC-14	12/13/2015	1036.61	130.71	905.90
DC-14	3/8/2016	1036.61	131.26	905.35
DC-14	6/19/2016	1036.61	131.89	904.72
DC-14	9/25/2016	1036.61	132.76	903.85
DC-14	12/11/2016	1036.61	133.45	903.16
DC-14	3/5/2017	1036.61	133.81	902.80
DC-14	6/4/2017	1036.61	133.81	902.80
DC-14	9/27/2017	1036.61	134.16	902.45
DC-14	12/3/2017	1036.61	134.48	902.13
DC-14	3/18/2018	1036.61	133.83	902.78
DC-14	6/3/2018	1036.61	133.35	903.26
DC-14	9/8/2018	1036.61	133.67	902.94
DC-14	12/9/2018	1036.61	133.67	902.94
DC-14	3/21/2019	1036.61	133.24	903.37
DC-14	6/1/2019	1036.61	132.98	903.63
DC-14	9/8/2019	1036.61	133.72	902.89
DC-14	12/8/2019	1036.61	134.60	902.01
DC-14	3/29/2020	1036.61	135.10	901.51
DC-14	6/7/2020	1036.61	135.56	901.05
DC-14	9/20/2020	1036.61	136.54	900.07
DC-14	12/6/2020	1036.61	137.45	899.16
DC-14	2/28/2021	1036.61	138.02	898.59
DC-14	6/6/2021	1036.61	138.28	898.33
YVD-02	9/16/2013	1288.97	24.21	1264.76
YVD-02	12/9/2013	1288.97	32.85	1256.12
YVD-02	3/16/2014	1288.97	34.45	1254.52
YVD-02	6/1/2014	1288.97	22.10	1266.87
YVD-02	9/21/2014	1288.97	26.14	1262.83
YVD-02	12/14/2014	1288.97	33.01	1255.96
YVD-02	3/5/2015	1288.97	34.42	1254.55
YVD-02	6/15/2015	1288.97	19.69	1269.28
YVD-02	9/21/2015	1288.97	25.36	1263.61
YVD-02	12/13/2015	1288.97	33.25	1255.72
YVD-02	3/8/2016	1288.97	33.93	1255.04
YVD-02	6/19/2016	1288.97	27.49	1261.48
YVD-02	9/25/2016	1288.97	27.72	1261.25
YVD-02	12/11/2016	1288.97	32.52	1256.45

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-02	3/5/2017	1288.97	27.34	1261.63
YVD-02	6/4/2017	1288.97	26.97	1262.00
YVD-02	9/27/2017	1288.97	28.08	1260.89
YVD-02	12/3/2017	1288.97	33.83	1255.14
YVD-02	3/18/2018	1288.97	34.07	1254.90
YVD-02	6/3/2018	1288.97	33.78	1255.19
YVD-02	9/8/2018	1288.97	29.19	1259.78
YVD-02	12/9/2018	1288.97	33.17	1255.80
YVD-02	3/21/2019	1288.97	34.44	1254.53
YVD-02	6/1/2019	1288.97	30.68	1258.29
YVD-02	9/8/2019	1288.97	32.34	1256.63
YVD-02	12/8/2019	1288.97	33.92	1255.05
YVD-02	3/29/2020	1288.97	35.49	1253.48
YVD-02	6/7/2020	1288.97	37.44	1251.53
YVD-02	7/13/2020	1288.97	37.68	1251.29
YVD-02	9/19/2020	1288.97	37.94	1251.03
YVD-02	12/6/2020	1288.97	ND	dry
YVD-02	2/28/2021	1288.97	37.93	1251.04
YVD-02	6/6/2021	1288.97	ND	dry
YVD-03	9/16/2013	1120.68	189.88	930.80
YVD-03	12/9/2013	1120.68	190.42	930.26
YVD-03	3/16/2014	1120.68	189.10	931.58
YVD-03	6/1/2014	1120.68	188.97	931.71
YVD-03	9/21/2014	1120.68	189.04	931.64
YVD-03	12/14/2014	1120.68	188.73	931.95
YVD-03	3/5/2015	1120.68	187.92	932.76
YVD-03	6/15/2015	1120.68	188.70	931.98
YVD-03	9/21/2015	1120.68	189.63	931.05
YVD-03	12/13/2015	1120.68	189.85	930.83
YVD-03	3/8/2016	1120.68	190.64	930.04
YVD-03	6/19/2016	1120.68	191.31	929.37
YVD-03	9/25/2016	1120.68	191.61	929.07
YVD-03	12/11/2016	1120.68	191.25	929.43
YVD-03	3/5/2017	1120.68	190.85	929.83
YVD-03	6/4/2017	1120.68	191.20	929.48
YVD-03	9/27/2017	1120.68	191.77	928.91
YVD-03	12/3/2017	1120.68	191.61	929.07
YVD-03	3/18/2018	1120.68	191.55	929.13

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-03	6/3/2018	1120.68	191.40	929.28
YVD-03	9/8/2018	1120.68	191.96	928.72
YVD-03	12/9/2018	1120.68	192.59	928.09
YVD-03	3/21/2019	1120.68	191.86	928.82
YVD-03	6/1/2019	1120.68	191.85	928.83
YVD-03	9/8/2019	1120.68	192.53	928.15
YVD-03	12/8/2019	1120.68	193.62	927.06
YVD-03	3/29/2020	1120.68	193.93	926.75
YVD-03	6/7/2020	1120.68	194.17	926.51
YVD-03	9/20/2020	1120.68	195.07	925.61
YVD-03	11/19/2020	1120.68	195.78	924.90
YVD-03	12/6/2020	1120.68	195.75	924.93
YVD-03	2/28/2021	1120.68	195.80	924.88
YVD-03	6/6/2021	1120.68	195.50	925.18
YVD-04	9/16/2013	1118.66	220.55	898.11
YVD-04	12/9/2013	1118.66	223.50	895.16
YVD-04	3/16/2014	1118.66	222.20	896.46
YVD-04	6/1/2014	1118.66	221.04	897.62
YVD-04	9/21/2014	1118.66	220.67	897.99
YVD-04	12/14/2014	1118.66	221.30	897.36
YVD-04	3/5/2015	1118.66	220.72	897.94
YVD-04	6/15/2015	1118.66	221.61	897.05
YVD-04	9/21/2015	1118.66	221.99	896.67
YVD-04	12/13/2015	1118.66	221.71	896.95
YVD-04	3/8/2016	1118.66	220.74	897.92
YVD-04	6/19/2016	1118.66	221.50	897.16
YVD-04	9/25/2016	1118.66	221.05	897.61
YVD-04	12/11/2016	1118.66	221.07	897.59
YVD-04	3/5/2017	1118.66	220.89	897.77
YVD-04	6/4/2017	1118.66	221.83	896.83
YVD-04	9/27/2017	1118.66	222.49	896.17
YVD-04	12/3/2017	1118.66	222.38	896.28
YVD-04	3/18/2018	1118.66	222.37	896.29
YVD-04	6/3/2018	1118.66	222.04	896.62
YVD-04	9/8/2018	1118.66	222.29	896.37
YVD-04	12/9/2018	1118.66	222.36	896.30
YVD-04	3/21/2019	1118.66	221.67	896.99
YVD-04	6/1/2019	1118.66	221.71	896.95

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-04	9/8/2019	1118.66	222.06	896.60
YVD-04	12/8/2019	1118.66	222.31	896.35
YVD-04	3/29/2020	1118.66	222.47	896.19
YVD-04	6/7/2020	1118.66	222.76	895.90
YVD-04	9/20/2020	1118.66	223.52	895.14
YVD-04	12/6/2020	1118.66	224.24	894.42
YVD-04	2/28/2021	1118.66	224.39	894.27
YVD-04	6/6/2021	1118.66	224.48	894.18
YVD-05	9/16/2013	1051.78	167.50	884.28
YVD-05	12/9/2013	1051.78	166.35	885.43
YVD-05	3/16/2014	1051.78	165.40	886.38
YVD-05	6/1/2014	1051.78	165.58	886.20
YVD-05	9/21/2014	1051.78	166.01	885.77
YVD-05	12/14/2014	1051.78	165.35	886.43
YVD-05	3/5/2015	1051.78	164.86	886.92
YVD-05	6/15/2015	1051.78	166.04	885.74
YVD-05	9/21/2015	1051.78	168.04	883.74
YVD-05	12/13/2015	1051.78	167.75	884.03
YVD-05	3/8/2016	1051.78	167.71	884.07
YVD-05	6/19/2016	1051.78	168.45	883.33
YVD-05	9/25/2016	1051.78	168.97	882.81
YVD-05	12/11/2016	1051.78	168.51	883.27
YVD-05	3/5/2017	1051.78	167.98	883.80
YVD-05	6/4/2017	1051.78	168.07	883.71
YVD-05	9/27/2017	1051.78	169.83	881.95
YVD-05	12/3/2017	1051.78	169.67	882.11
YVD-05	3/18/2018	1051.78	169.38	882.40
YVD-05	6/3/2018	1051.78	169.45	882.33
YVD-05	9/8/2018	1051.78	169.85	881.93
YVD-05	12/9/2018	1051.78	169.44	882.34
YVD-05	3/21/2019	1051.78	168.86	882.92
YVD-05	6/1/2019	1051.78	169.06	882.72
YVD-05	9/8/2019	1051.78	170.22	881.56
YVD-05	12/8/2019	1051.78	170.62	881.16
YVD-05	3/29/2020	1051.78	171.06	880.72
YVD-05	6/7/2020	1051.78	171.58	880.20
YVD-05	9/20/2020	1051.78	172.53	879.25
YVD-05	12/6/2020	1051.78	172.95	878.83

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-05	2/28/2021	1051.78	173.05	878.73
YVD-05	6/6/2021	1051.78	173.39	878.39
YVD-06	9/16/2013	1053.51	110.65	942.86
YVD-06	12/9/2013	1053.51	108.21	945.30
YVD-06	3/16/2014	1053.51	105.98	947.53
YVD-06	6/1/2014	1053.51	106.49	947.02
YVD-06	9/21/2014	1053.51	108.02	945.49
YVD-06	12/14/2014	1053.51	106.32	947.19
YVD-06	3/5/2015	1053.51	104.68	948.83
YVD-06	6/15/2015	1053.51	106.37	947.14
YVD-06	9/21/2015	1053.51	109.01	944.50
YVD-06	12/13/2015	1053.51	108.72	944.79
YVD-06	3/8/2016	1053.51	108.90	944.61
YVD-06	6/19/2016	1053.51	111.03	942.48
YVD-06	9/25/2016	1053.51	112.05	941.46
YVD-06	12/15/2016	1053.51	109.70	943.81
YVD-06	3/5/2017	1053.51	107.89	945.62
YVD-06	6/4/2017	1053.51	109.14	944.37
YVD-06	9/27/2017	1053.51	110.99	942.52
YVD-06	12/3/2017	1053.51	109.30	944.21
YVD-06	3/18/2018	1053.51	106.37	947.14
YVD-06	6/3/2018	1053.51	108.02	945.49
YVD-06	9/8/2018	1053.51	109.87	943.64
YVD-06	12/9/2018	1053.51	107.99	945.52
YVD-06	3/21/2019	1053.51	106.86	946.65
YVD-06	6/1/2019	1053.51	108.32	945.19
YVD-06	9/8/2019	1053.51	110.95	942.56
YVD-06	12/8/2019	1053.51	111.11	942.40
YVD-06	3/29/2020	1053.51	110.92	942.59
YVD-06	6/7/2020	1053.51	112.14	941.37
YVD-06	9/20/2020	1053.51	113.89	939.62
YVD-06	12/6/2020	1053.51	113.00	940.51
YVD-06	2/28/2021	1053.51	111.71	941.80
YVD-06	6/6/2021	1053.51	112.36	941.15
YVD-07	9/16/2013	1073.03	157.99	915.04
YVD-07	12/9/2013	1073.03	157.26	915.77
YVD-07	3/16/2014	1073.03	153.95	919.08

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-07	6/1/2014	1073.03	153.87	919.16
YVD-07	9/21/2014	1073.03	155.93	917.10
YVD-07	12/14/2014	1073.03	155.40	917.63
YVD-07	3/5/2015	1073.03	153.42	919.61
YVD-07	6/15/2015	1073.03	154.30	918.73
YVD-07	9/21/2015	1073.03	157.09	915.94
YVD-07	12/13/2015	1073.03	158.05	914.98
YVD-07	3/8/2016	1073.03	157.96	915.07
YVD-07	6/19/2016	1073.03	158.75	914.28
YVD-07	9/25/2016	1073.03	160.29	912.74
YVD-07	12/11/2016	1073.03	160.00	913.03
YVD-07	3/5/2017	1073.03	157.59	915.44
YVD-07	6/4/2017	1073.03	157.56	915.47
YVD-07	9/27/2017	1073.03	159.81	913.22
YVD-07	12/3/2017	1073.03	159.30	913.73
YVD-07	3/18/2018	1073.03	156.76	916.27
YVD-07	6/3/2018	1073.03	156.44	916.59
YVD-07	9/8/2018	1073.03	158.22	914.81
YVD-07	12/9/2018	1073.03	158.27	914.76
YVD-07	3/21/2019	1073.03	156.58	916.45
YVD-07	6/1/2019	1073.03	157.05	915.98
YVD-07	9/8/2019	1073.03	159.06	913.97
YVD-07	12/8/2019	1073.03	160.48	912.55
YVD-07	3/29/2020	1073.03	159.62	913.41
YVD-07	6/7/2020	1073.03	160.42	912.61
YVD-07	9/20/2020	1073.03	162.61	910.42
YVD-07	12/6/2020	1073.03	164.10	908.93
YVD-07	2/28/2021	1073.03	162.27	910.76
YVD-07	6/6/2021	1073.03	161.15	911.88
YVD-08	9/16/2013	1014.38	170.83	843.55
YVD-08	12/9/2013	1014.38	171.08	843.30
YVD-08	3/16/2014	1014.38	170.66	843.72
YVD-08	6/1/2014	1014.38	170.50	843.88
YVD-08	9/21/2014	1014.38	170.50	843.88
YVD-08	12/14/2014	1014.38	170.22	844.16
YVD-08	3/5/2015	1014.38	169.83	844.55
YVD-08	6/15/2015	1014.38	170.13	844.25
YVD-08	9/21/2015	1014.38	170.67	843.71

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-08	12/13/2015	1014.38	170.63	843.75
YVD-08	3/8/2016	1014.38	171.00	843.38
YVD-08	6/19/2016	1014.38	171.51	842.87
YVD-08	9/25/2016	1014.38	171.75	842.63
YVD-08	12/11/2016	1014.38	171.52	842.86
YVD-08	3/5/2017	1014.38	171.16	843.22
YVD-08	6/4/2017	1014.38	171.87	842.51
YVD-08	9/27/2017	1014.38	172.30	842.08
YVD-08	12/3/2017	1014.38	171.95	842.43
YVD-08	3/18/2018	1014.38	172.17	842.21
YVD-08	6/3/2018	1014.38	172.10	842.28
YVD-08	9/8/2018	1014.38	172.36	842.02
YVD-08	12/9/2018	1014.38	172.39	841.99
YVD-08	3/21/2019	1014.38	172.03	842.35
YVD-08	6/1/2019	1014.38	172.39	841.99
YVD-08	9/8/2019	1014.38	172.56	841.82
YVD-08	12/8/2019	1014.38	172.73	841.65
YVD-08	3/29/2020	1014.38	172.66	841.72
YVD-08	6/7/2020	1014.38	172.87	841.51
YVD-08	9/20/2020	1014.38	173.33	841.05
YVD-08	12/6/2020	1014.38	173.75	840.63
YVD-08	2/28/2021	1014.38	173.87	840.51
YVD-08	6/6/2021	1014.38	173.75	840.63
YVD-09	9/16/2013	966.81	111.14	855.67
YVD-09	12/9/2013	966.81	109.93	856.88
YVD-09	3/16/2014	966.81	109.65	857.16
YVD-09	6/1/2014	966.81	109.95	856.86
YVD-09	9/21/2014	966.81	110.08	856.73
YVD-09	12/14/2014	966.81	109.90	856.91
YVD-09	3/5/2015	966.81	109.95	856.86
YVD-09	6/15/2015	966.81	110.35	856.46
YVD-09	9/21/2015	966.81	110.83	855.98
YVD-09	12/13/2015	966.81	110.89	855.92
YVD-09	3/8/2016	966.81	111.16	855.65
YVD-09	6/19/2016	966.81	111.41	855.40
YVD-09	9/25/2016	966.81	111.68	855.13
YVD-09	12/11/2016	966.81	111.84	854.97
YVD-09	3/5/2017	966.81	111.92	854.89

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-09	6/4/2017	966.81	112.29	854.52
YVD-09	9/27/2017	966.81	112.50	854.31
YVD-09	12/3/2017	966.81	112.59	854.22
YVD-09	3/18/2018	966.81	112.56	854.25
YVD-09	6/3/2018	966.81	112.28	854.53
YVD-09	9/8/2018	966.81	112.19	854.62
YVD-09	12/9/2018	966.81	111.77	855.04
YVD-09	3/21/2019	966.81	111.78	855.03
YVD-09	6/1/2019	966.81	112.03	854.78
YVD-09	9/8/2019	966.81	112.37	854.44
YVD-09	12/8/2019	966.81	112.55	854.26
YVD-09	3/29/2020	966.81	112.60	854.21
YVD-09	6/7/2020	966.81	112.92	853.89
YVD-09	9/20/2020	966.81	113.29	853.52
YVD-09	12/6/2020	966.81	113.55	853.26
YVD-09	2/28/2021	966.81	113.63	853.18
YVD-09	6/6/2021	966.81	113.80	853.01
YVD-10	9/16/2013	958.00	90.04	867.96
YVD-10	12/9/2013	958.00	89.20	868.80
YVD-10	3/16/2014	958.00	89.39	868.61
YVD-10	6/1/2014	958.00	90.35	867.65
YVD-10	9/21/2014	958.00	90.41	867.59
YVD-10	12/14/2014	958.00	88.76	869.24
YVD-10	3/5/2015	958.00	89.90	868.10
YVD-10	6/15/2015	958.00	91.10	866.90
YVD-10	9/21/2015	958.00	91.85	866.15
YVD-10	12/13/2015	958.00	91.52	866.48
YVD-10	3/8/2016	958.00	91.91	866.09
YVD-10	6/19/2016	958.00	92.92	865.08
YVD-10	9/25/2016	958.00	92.99	865.01
YVD-10	12/11/2016	958.00	93.02	864.98
YVD-10	3/5/2017	958.00	93.24	864.76
YVD-10	6/4/2017	958.00	93.70	864.30
YVD-10	9/27/2017	958.00	93.39	864.61
YVD-10	12/3/2017	958.00	92.86	865.14
YVD-10	3/18/2018	958.00	92.49	865.51
YVD-10	6/3/2018	958.00	92.81	865.19
YVD-10	9/8/2018	958.00	93.35	864.65

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-10	12/9/2018	958.00	92.50	865.50
YVD-10	3/21/2019	958.00	92.36	865.64
YVD-10	6/1/2019	958.00	93.03	864.97
YVD-10	9/8/2019	958.00	93.67	864.33
YVD-10	12/8/2019	958.00	93.44	864.56
YVD-10	3/29/2020	958.00	94.06	863.94
YVD-10	6/7/2020	958.00	94.38	863.62
YVD-10	9/20/2020	958.00	94.92	863.08
YVD-10	12/6/2020	958.00	94.39	863.61
YVD-10	2/28/2021	958.00	94.67	863.33
YVD-10	6/6/2021	958.00	95.54	862.46
YVD-11	9/16/2013	967.91	106.03	861.88
YVD-11	12/9/2013	967.91	105.77	862.14
YVD-11	3/16/2014	967.91	105.72	862.19
YVD-11	6/1/2014	967.91	106.07	861.84
YVD-11	9/21/2014	967.91	106.04	861.87
YVD-11	12/14/2014	967.91	106.08	861.83
YVD-11	3/5/2015	967.91	106.18	861.73
YVD-11	6/15/2015	967.91	106.67	861.24
YVD-11	9/21/2015	967.91	106.52	861.39
YVD-11	12/13/2015	967.91	106.88	861.03
YVD-11	3/8/2016	967.91	107.58	860.33
YVD-11	6/19/2016	967.91	108.52	859.39
YVD-11	9/25/2016	967.91	108.95	858.96
YVD-11	12/11/2016	967.91	108.90	859.01
YVD-11	3/5/2017	967.91	109.08	858.83
YVD-11	6/4/2017	967.91	109.31	858.60
YVD-11	9/27/2017	967.91	108.75	859.16
YVD-11	12/3/2017	967.91	107.73	860.18
YVD-11	3/18/2018	967.91	108.10	859.81
YVD-11	6/3/2018	967.91	108.63	859.28
YVD-11	9/8/2018	967.91	108.97	858.94
YVD-11	12/9/2018	967.91	108.16	859.75
YVD-11	3/21/2019	967.91	108.58	859.33
YVD-11	6/1/2019	967.91	109.00	858.91
YVD-11	9/8/2019	967.91	109.58	858.33
YVD-11	12/8/2019	967.91	109.63	858.28
YVD-11	3/29/2020	967.91	110.09	857.82

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-11	6/7/2020	967.91	110.52	857.39
YVD-11	9/20/2020	967.91	111.12	856.79
YVD-11	12/6/2020	967.91	111.12	856.79
YVD-11	2/28/2021	967.91	111.24	856.67
YVD-11	6/6/2021	967.91	111.79	856.12
YVD-12	9/16/2013	961.91	138.50	823.41
YVD-12	12/9/2013	961.91	138.34	823.57
YVD-12	3/16/2014	961.91	137.55	824.36
YVD-12	6/1/2014	961.91	137.61	824.30
YVD-12	9/21/2014	961.91	137.45	824.46
YVD-12	12/14/2014	961.91	137.25	824.66
YVD-12	3/5/2015	961.91	136.52	825.39
YVD-12	6/15/2015	961.91	137.85	824.06
YVD-12	9/21/2015	961.91	138.95	822.96
YVD-12	12/13/2015	961.91	138.11	823.80
YVD-12	3/8/2016	961.91	138.26	823.65
YVD-12	6/19/2016	961.91	139.23	822.68
YVD-12	9/25/2016	961.91	139.13	822.78
YVD-12	12/11/2016	961.91	138.56	823.35
YVD-12	3/5/2017	961.91	138.02	823.89
YVD-12	6/4/2017	961.91	138.90	823.01
YVD-12	9/27/2017	961.91	139.05	822.86
YVD-12	12/3/2017	961.91	138.48	823.43
YVD-12	3/18/2018	961.91	138.46	823.45
YVD-12	6/3/2018	961.91	138.75	823.16
YVD-12	9/8/2018	961.91	139.15	822.76
YVD-12	12/9/2018	961.91	139.14	822.77
YVD-12	3/21/2019	961.91	138.69	823.22
YVD-12	6/1/2019	961.91	139.27	822.64
YVD-12	9/8/2019	961.91	139.67	822.24
YVD-12	12/8/2019	961.91	139.51	822.40
YVD-12	3/29/2020	961.91	139.82	822.09
YVD-12	6/7/2020	961.91	140.11	821.80
YVD-12	9/20/2020	961.91	140.51	821.40
YVD-12	12/6/2020	961.91	140.48	821.43
YVD-12	2/28/2021	961.91	140.39	821.52
YVD-12	6/6/2021	961.91	140.70	821.21

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-13	9/16/2013	965.59	127.43	838.16
YVD-13	12/9/2013	965.59	127.25	838.34
YVD-13	3/16/2014	965.59	127.58	838.01
YVD-13	6/1/2014	965.59	127.59	838.00
YVD-13	9/21/2014	965.59	127.29	838.30
YVD-13	12/14/2014	965.59	127.20	838.39
YVD-13	3/5/2015	965.59	127.35	838.24
YVD-13	6/15/2015	965.59	127.60	837.99
YVD-13	9/21/2015	965.59	127.36	838.23
YVD-13	12/13/2015	965.59	127.13	838.46
YVD-13	3/8/2016	965.59	127.87	837.72
YVD-13	6/19/2016	965.59	128.17	837.42
YVD-13	9/25/2016	965.59	127.88	837.71
YVD-13	12/11/2016	965.59	127.57	838.02
YVD-13	3/5/2017	965.59	127.92	837.67
YVD-13	6/4/2017	965.59	128.49	837.10
YVD-13	9/27/2017	965.59	128.05	837.54
YVD-13	12/3/2017	965.59	127.88	837.71
YVD-13	3/18/2018	965.59	128.47	837.12
YVD-13	6/3/2018	965.59	128.44	837.15
YVD-13	9/8/2018	965.59	128.28	837.31
YVD-13	12/9/2018	965.59	127.87	837.72
YVD-13	3/21/2019	965.59	128.46	837.13
YVD-13	6/1/2019	965.59	128.88	836.71
YVD-13	9/8/2019	965.59	128.62	836.97
YVD-13	12/8/2019	965.59	128.51	837.08
YVD-13	3/29/2020	965.59	129.09	836.50
YVD-13	6/7/2020	965.59	129.53	836.06
YVD-13	9/20/2020	965.59	129.32	836.27
YVD-13	12/6/2020	965.59	129.18	836.41
YVD-13	2/28/2021	965.59	129.66	835.93
YVD-13	6/6/2021	965.59	129.99	835.60
YVD-14	9/16/2013	920.19	77.30	842.89
YVD-14	12/9/2013	920.19	76.97	843.22
YVD-14	3/16/2014	920.19	77.45	842.74
YVD-14	6/1/2014	920.19	77.61	842.58
YVD-14	9/21/2014	920.19	77.28	842.91
YVD-14	12/14/2014	920.19	76.90	843.29

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-14	3/5/2015	920.19	77.51	842.68
YVD-14	6/17/2015	NM	NM	
YVD-14	9/21/2015	NM	NM	
YVD-14R	12/13/2015	921.41	77.76	843.65
YVD-14R	3/8/2016	921.41	78.53	842.88
YVD-14R	6/19/2016	921.41	79.03	842.38
YVD-14R	9/25/2016	921.41	78.68	842.73
YVD-14R	12/11/2016	921.41	78.57	842.84
YVD-14R	3/5/2017	921.41	79.14	842.27
YVD-14R	6/4/2017	921.41	79.53	841.88
YVD-14R	9/27/2017	921.41	78.93	842.48
YVD-14R	12/3/2017	921.41	78.72	842.69
YVD-14R	3/18/2018	921.41	79.40	842.01
YVD-14R	6/3/2018	921.41	79.35	842.06
YVD-14R	9/8/2018	921.41	79.26	842.15
YVD-14R	12/9/2018	921.41	78.93	842.48
YVD-14R	3/21/2019	921.41	79.75	841.66
YVD-14R	6/1/2019	921.41	80.14	841.27
YVD-14R	9/8/2019	921.41	79.74	841.67
YVD-14R	12/8/2019	921.41	79.60	841.81
YVD-14R	3/29/2020	921.41	80.46	840.95
YVD-14R	6/7/2020	921.41	80.83	840.58
YVD-14R	9/20/2020	921.41	80.55	840.86
YVD-14R	12/6/2020	921.41	80.38	841.03
YVD-14R	2/28/2021	921.41	80.92	840.49
YVD-14R	6/6/2021	921.41	81.41	840.00
YVD-15	9/16/2013	940.61	90.34	850.27
YVD-15	12/9/2013	940.61	90.49	850.12
YVD-15	3/16/2014	940.61	91.62	848.99
YVD-15	6/1/2014	940.61	92.57	848.04
YVD-15	9/21/2014	940.61	88.84	851.77
YVD-15	12/14/2014	940.61	90.56	850.05
YVD-15	3/5/2015	940.61	92.03	848.58
YVD-15	6/15/2015	940.61	93.22	847.39
YVD-15	9/21/2015	940.61	93.43	847.18
YVD-15	12/13/2015	940.61	93.21	847.40
YVD-15	3/8/2016	940.61	93.83	846.78
YVD-15	6/19/2016	940.61	94.70	845.91

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-15	9/25/2016	940.61	94.70	845.91
YVD-15	12/11/2016	940.61	94.44	846.17
YVD-15	3/5/2017	940.61	94.96	845.65
YVD-15	6/4/2017	940.61	95.52	845.09
YVD-15	9/27/2017	940.61	95.16	845.45
YVD-15	12/3/2017	940.61	94.74	845.87
YVD-15	3/18/2018	940.61	94.96	845.65
YVD-15	6/3/2018	940.61	95.32	845.29
YVD-15	43351	940.61	95.32	845.29
YVD-15	12/9/2018	940.61	94.79	845.82
YVD-15	3/21/2019	940.61	95.36	845.25
YVD-15	6/1/2019	940.61	95.83	844.78
YVD-15	9/8/2019	940.61	95.92	844.69
YVD-15	12/8/2019	940.61	95.55	845.06
YVD-15	3/29/2020	940.61	96.14	844.47
YVD-15	6/7/2020	940.61	96.58	844.03
YVD-15	9/20/2020	940.61	96.50	844.11
YVD-15	12/6/2020	940.61	95.96	844.65
YVD-15	2/28/2021	940.61	96.25	844.36
YVD-15	6/6/2021	940.61	96.97	843.64
YVD-16	9/16/2013	975.90	112.95	862.95
YVD-16	12/9/2013	975.90	112.84	863.06
YVD-16	3/16/2014	975.90	112.50	863.40
YVD-16	6/1/2014	975.90	112.62	863.28
YVD-16	9/21/2014	975.90	113.02	862.88
YVD-16	12/14/2014	975.90	112.86	863.04
YVD-16	3/5/2015	975.90	112.42	863.48
YVD-16	6/15/2015	975.90	112.85	863.05
YVD-16	9/21/2015	975.90	113.95	861.95
YVD-16	12/13/2015	975.90	114.04	861.86
YVD-16	3/8/2016	975.90	114.51	861.39
YVD-16	6/19/2016	975.90	115.18	860.72
YVD-16	9/25/2016	975.90	115.67	860.23
YVD-16	12/11/2016	975.90	115.17	860.73
YVD-16	3/5/2017	975.90	114.90	861.00
YVD-16	6/4/2017	975.90	115.51	860.39
YVD-16	9/27/2017	975.90	115.32	860.58
YVD-16	12/3/2017	975.90	114.86	861.04

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-16	3/18/2018	975.90	114.49	861.41
YVD-16	6/3/2018	975.90	114.62	861.28
YVD-16	9/8/2018	975.90	115.77	860.13
YVD-16	12/9/2018	975.90	115.57	860.33
YVD-16	3/21/2019	975.90	115.14	860.76
YVD-16	6/1/2019	975.90	115.72	860.18
YVD-16	9/8/2019	975.90	116.43	859.47
YVD-16	12/8/2019	975.90	116.71	859.19
YVD-16	3/29/2020	975.90	116.83	859.07
YVD-16	6/7/2020	975.90	117.34	858.56
YVD-16	9/20/2020	975.90	118.44	857.46
YVD-16	12/6/2020	975.90	118.68	857.22
YVD-16	2/28/2021	975.90	118.70	857.20
YVD-16	6/6/2021	975.90	118.88	857.02
YVD-17	9/16/2013	866.73	32.07	834.66
YVD-17	12/9/2013	866.73	34.81	831.92
YVD-17	3/16/2014	866.73	37.97	828.76
YVD-17	6/1/2014	866.73	35.50	831.23
YVD-17	9/21/2014	866.73	31.86	834.87
YVD-17	12/14/2014	866.73	34.74	831.99
YVD-17	3/5/2015	866.73	37.79	828.94
YVD-17	6/15/2015	866.73	34.57	832.16
YVD-17	9/21/2015	866.73	31.92	834.81
YVD-17	12/13/2015	866.73	35.16	831.57
YVD-17	3/8/2016	866.73	37.47	829.26
YVD-17	6/19/2016	866.73	35.37	831.36
YVD-17	9/25/2016	866.73	32.31	834.42
YVD-17	12/11/2016	866.73	35.20	831.53
YVD-17	3/5/2017	866.73	37.88	828.85
YVD-17	6/4/2017	866.73	36.13	830.60
YVD-17	9/27/2017	866.73	31.22	835.51
YVD-17	12/3/2017	866.73	34.65	832.08
YVD-17	3/18/2018	866.73	38.54	828.19
YVD-17	6/3/2018	866.73	36.20	830.53
YVD-17	9/8/2018	866.73	32.64	834.09
YVD-17	12/9/2018	866.73	35.42	831.31
YVD-17	3/21/2019	866.73	39.08	827.65
YVD-17	6/1/2019	866.73	37.30	829.43

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-17	9/9/2019	866.73	32.69	834.04
YVD-17	12/8/2019	866.73	35.95	830.78
YVD-17	3/29/2020	866.73	39.61	827.12
YVD-17	6/7/2020	866.73	36.93	829.80
YVD-17	9/20/2020	866.73	33.68	833.05
YVD-17	12/6/2020	866.73	36.31	830.42
YVD-17	2/28/2021	866.73	39.80	826.93
YVD-17	6/6/2021	866.73	37.82	828.91
YVD-18	9/16/2013	965.74	127.49	838.25
YVD-18	12/9/2013	965.74	127.45	838.29
YVD-18	3/16/2014	965.74	127.75	837.99
YVD-18	6/1/2014	965.74	127.69	838.05
YVD-18	9/21/2014	965.74	127.33	838.41
YVD-18	12/14/2014	965.74	127.33	838.41
YVD-18	3/5/2015	965.74	127.46	838.28
YVD-18	6/15/2015	965.74	127.71	838.03
YVD-18	9/21/2015	965.74	127.42	838.32
YVD-18	12/13/2015	965.74	127.24	838.50
YVD-18	3/8/2016	965.74	128.05	837.69
YVD-18	6/19/2016	965.74	128.29	837.45
YVD-18	9/25/2016	965.74	127.92	837.82
YVD-18	12/11/2016	965.74	127.66	838.08
YVD-18	3/5/2017	965.74	128.01	837.73
YVD-18	6/4/2017	965.74	128.54	837.20
YVD-18	9/27/2017	965.74	128.14	837.60
YVD-18	12/3/2017	965.74	127.95	837.79
YVD-18	3/18/2018	965.74	128.72	837.02
YVD-18	6/3/2018	965.74	128.48	837.26
YVD-18	9/8/2018	965.74	128.35	837.39
YVD-18	12/9/2018	965.74	128.00	837.74
YVD-18	3/21/2019	965.74	128.62	837.12
YVD-18	6/1/2019	965.74	129.04	836.70
YVD-18	9/8/2019	965.74	128.71	837.03
YVD-18	12/8/2019	965.74	128.63	837.11
YVD-18	3/29/2020	965.74	129.29	836.45
YVD-18	6/7/2020	965.74	129.67	836.07
YVD-18	9/20/2020	965.74	129.41	836.33
YVD-18	12/6/2020	965.74	129.32	836.42

Table 4
Historical Groundwater Elevations

Well ID	Date of Measurement	Reference Point Elevation (feet NAVD88)	Depth to Water (feet BTOC)	Groundwater Elevation (feet NAVD88)
YVD-18	2/28/2021	965.74	129.90	835.84
YVD-18	6/6/2021	965.74	130.11	835.63

Notes:

1. Erroneous or anomalous measurement; not included in dataset.

BTOC: below top of casing

NAVD88: North American Vertical Datum of 1988

NM: Not measured due to well damage.

Table 5
Estimated Possible Average Linear Groundwater Flow Velocities – Second Quarter 2021

Material	Hydraulic Conductivity ^{1,2} [K] (feet per day)	Effective Porosity ³ [n _e]	K/n _e	Estimated Possible Average Linear Groundwater Flow Velocities [V _x] (feet per day)			
				Second Quarter 2021 Hydraulic Gradients			
				Site Average I ⁴	Upslope I	Central I	Southern I
				0.013	0.026	0.011	0.004
Fine sand	53	0.33	161	2.0	4.2	1.7	0.7
Medium sand to fine gravel	131	0.32	409	5.2	10.6	4.4	1.8
Medium sand to coarse gravel	164	0.30	547	6.9	14.2	5.9	2.4
Fine gravel	267	0.28	954	12.0	24.8	10.4	4.1

Notes:

1. Hydraulic conductivities obtained from U.S. Environmental Protection Agency Method 9100, Saturated Hydraulic Conductivity, Saturated Leachate Conductivity, and Intrinsic Permeability, Chapter 6 – Properties; Publication SW-846: *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*; 1986.
2. Hydraulic conductivities presented are for well-sorted (poorly graded) material.
3. Effective porosity obtained from *Data Collection Handbook to Support Modeling Impacts of Radioactive Material in Soil*; Environmental Assessment and Information Sciences Division, Argonne National Laboratory; Argonne, Illinois; April 1993.
4. Hydraulic gradient [I] in feet per foot.

Table 6
Field Parameter Measurements – Second Quarter 2021

Well ID	Measurement Date	Bladder Pump Type (portable or dedicated)	Purge Time (minutes)	Volume Purged (liters)	Temperature (°C)	Dissolved Oxygen (mg/L)	Specific Conductance (µS/cm)	pH (Standard Units)	Oxidation/Reduction Potential (mV)	Turbidity (NTU)
DC-03	6/8/2021	Dedicated	15	2.5	15.0	6.59	2741	6.87	201.6	3.92
DC-03D	6/8/2021	Dedicated	21	5.9	15.2	1.38	1438	6.75	133.7	4.78
DC-04	6/6/2021	Dedicated	19	4.8	14.5	9.18	1344	6.84	170.3	2.99
DC-05	6/7/2021	Dedicated	15	2.5	14.6	7.20	1226	7.06	189.3	2.84
DC-05D	6/7/2021	Dedicated	18	4.3	14.2	7.01	774	7.56	174.8	2.56
DC-07	6/7/2021	Dedicated	15	3.8	15.0	0.53	1080	6.53	152.4	2.35
DC-14	6/8/2021	Dedicated	15	2.8	15.7	1.71	1578	6.72	162.7	3.74
YVD-02	NS	Dedicated	---	---	---	---	---	---	---	---
YVD-08	6/8/2021	Dedicated	21	4.7	15.6	6.40	1452	7.29	88.3	10.0
YVD-09	6/7/2021	Dedicated	15	2.7	16.2	5.68	1545	7.16	170.7	3.02
YVD-10	6/6/2021	Dedicated	22	4.1	13.9	6.31	2418	6.79	137.5	4.38
YVD-11	6/8/2021	Dedicated	18	2.0	14.1	6.18	1346	7.06	224.9	5.46
YVD-12	6/8/2021	Dedicated	15	2.6	15.6	6.70	1087	7.53	200.2	4.16
YVD-13	6/8/2021	Dedicated	15	3.8	15.0	6.55	1117	7.66	85.8	0.52
YVD-14R	6/6/2021	Dedicated	15	3.6	14.9	0.92	2056	6.71	82.9	2.83
YVD-15	6/6/2021	Dedicated	31	8.8	14.3	6.62	1138	7.06	70.4	10.2
YVD-16	6/6/2021	Dedicated	38	4.7	13.6	9.12	1044	7.41	222.3	4.41
YVD-18	6/8/2021	Dedicated	15	3.7	15.2	8.75	935	7.75	83.3	2.02

Notes:
---: no value or not applicable
°C: degrees Celsius
µS/cm: microsiemens per centimeter
mg/L: milligrams per liter
mV: millivolt
NS: not sampled
NTU: nephelometric turbidity unit

Table 7
Groundwater Analytical Results – Second Quarter 2021

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 200.7			EPA 300.0			EPA 300.0			EPA 200.7		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-01	YVD-060721-10	6/7/2021	N	124105	140	--	--	140	--	--	0.070	U	--	72.5	--	--	32.4	--	--	0.32	--	--	25.15	--	--
DC-03	YVD-060821-27	6/8/2021	N	124212	406	--	--	406	--	--	0.070	U	--	280	--	--	150	--	--	0.10	U	--	69.50	--	--
DC-03D	YVD-060821-29	6/8/2021	N	124212	456	--	--	456	--	--	0.070	U	--	175	--	--	66.8	--	--	0.10	U	--	39.00	--	--
DC-03D	YVD-060821-31	6/8/2021	FD	124212	455	--	--	455	--	--	0.070	U	--	174	--	--	66.7	--	--	0.10	U	--	38.35	--	--
DC-04	YVD-060621-06	6/6/2021	N	124053	438	--	--	438	--	--	0.070	U	--	195	--	--	39.6	--	--	0.10	U	--	34.75	--	--
DC-05	YVD-060721-14	6/7/2021	N	124105	360	--	--	360	--	--	0.070	U	--	129	--	--	34.9	--	--	0.17	--	--	46.45	--	--
DC-05D	YVD-060721-13	6/7/2021	N	124105	212	--	--	212	--	--	0.070	U	--	78.0	--	--	27.2	--	--	0.22	--	--	26.85	--	--
DC-07	YVD-060721-16	6/7/2021	N	124105	490	--	--	490	--	--	0.070	U	--	152	--	--	23.1	--	--	0.10	U	--	23.55	--	--
DC-07	YVD-060721-17	6/7/2021	FD	124105	490	--	--	490	--	--	0.070	U	--	150	--	--	23.2	--	--	0.10	U	--	23.40	--	--
DC-09	YVD-060721-15	6/7/2021	N	124105	129	--	--	129	--	--	0.070	U	--	34.4	--	--	14.8	--	--	0.38	--	--	7.350	--	--
DC-14	YVD-060821-33	6/8/2021	N	124212	563	--	--	563	--	--	0.070	U	--	196	--	--	93.4	--	--	0.14	--	--	47.05	--	--
YVD-02	NS ¹	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YVD-03	YVD-060821-24	6/8/2021	N	124212	182	--	--	182	--	--	0.070	U	--	42.2	--	--	8.09	--	--	0.37	--	--	17.75	--	--
YVD-04	YVD-060821-22	6/8/2021	N	124212	182	--	--	182	--	--	0.070	U	--	35.4	--	--	12.5	--	--	0.16	--	--	10.65	--	--
YVD-05	YVD-060821-26	6/8/2021	N	124212	198	--	--	198	--	--	0.070	U	--	39.6	--	--	11.0	--	--	0.68	--	--	17.30	--	--
YVD-06	YVD-060721-19	6/7/2021	N	124105	160	--	--	160	--	--	0.070	U	--	34.0	--	--	4.95	--	--	0.25	--	--	5.900	--	--
YVD-07	YVD-060821-34	6/8/2021	N	124212	142	--	--	142	--	--	0.070	U	--	33.1	--	--	7.68	--	--	0.22	--	--	13.45	--	--
YVD-08	YVD-060821-28	6/8/2021	N	124212	218	--	--	218	--	--	0.070	U	--	130	--	--	94.2	--	--	0.17	--	--	44.90	--	--
YVD-09	YVD-060721-18	6/7/2021	N	124105	352	--	--	352	--	--	0.070	U	--	102	--	--	75.9	--	--	0.32	--	--	35.50	--	--
YVD-10	YVD-060621-07	6/6/2021	N	124053	710	--	--	710	--	--	0.070	U	--	320	--	--	85.3	--	--	0.49	--	--	68.00	--	--
YVD-11	YVD-060821-23	6/8/2021	N	124212	414	--	--	414	--	--	0.070	U	--	170	--	--	85.4	--	--	0.11	--	--	41.90	--	--
YVD-12	YVD-060821-25	6/8/2021	N	124212	180	--	--	180	--	--	0.070	U	--	102	--	--	100	--	--	0.25	--	--	36.95	--	--
YVD-13	YVD-060821-32	6/8/2021	N	124212	142	--	--	142	--	--	0.070	U	--	92.5	--	--	82.8	--	--	0.31	--	--	25.45	--	--
YVD-14R	YVD-060621-09	6/6/2021	N	124053	558	--	--	558	--	--	0.070	U	--	262	--	--	131	--	--	0.14	--	--	68.00	--	--
YVD-15	YVD-060621-08	6/6/2021	N	124053	428	--	--	428	--	--	0.070	U	--	94.5	--	--	21.8	--	--	0.29	--	--	41.65	--	--
YVD-16	YVD-060621-03	6/6/2021	N	124053	299	--	--	299	--	--	0.070	U	--	88.5	--	--	37.5	--	--	0.16	--	--	31.85	--	--
YVD-17	YVD-060621-04	6/6/2021	N	124053	144	--	--	144	--	--	0.070	U	--	33.3	--	--	2.36	J	FDP	0.19	--	--	14.55	--	--
YVD-17	YVD-060621-05	6/6/2021	FD	124053	144	--	--	144	--	--	0.070	U	--	33.5	--	--	2.99	J	FDP	0.24	--	--	14.70	--	--

Table 7
Groundwater Analytical Results – Second Quarter 2021

Analyte					Nitrate (as N)			Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 300.0			EPA 351.2			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-01	YVD-060721-10	6/7/2021	N	124105	8.00	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	5.30	--	--	36.4	--	--	136	--	--
DC-03	YVD-060821-27	6/8/2021	N	124212	185	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	3.07	--	--	160	--	--	162	--	--
DC-03D	YVD-060821-29	6/8/2021	N	124212	41.4	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	3.04	--	--	63.5	--	--	83.7	--	--
DC-03D	YVD-060821-31	6/8/2021	FD	124212	39.9	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	2.98	--	--	62.5	--	--	81.0	--	--
DC-04	YVD-060621-06	6/6/2021	N	124053	30.9	--	--	0.050	U	--	5.0	U	--	0.070	U	--	4.22	--	--	33.2	--	--	109	--	--
DC-05	YVD-060721-14	6/7/2021	N	124105	38.5	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	3.26	--	--	52.0	--	--	102	--	--
DC-05D	YVD-060721-13	6/7/2021	N	124105	13.0	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	4.11	--	--	36.9	--	--	106	--	--
DC-07	YVD-060721-16	6/7/2021	N	124105	8.80	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	0.96	--	--	48.4	--	--	23.1	J	FDP
DC-07	YVD-060721-17	6/7/2021	FD	124105	9.90	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	0.97	--	--	48.1	--	--	37.8	J	FDP
DC-09	YVD-060721-15	6/7/2021	N	124105	6.20	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	2.13	--	--	37.4	--	--	14.8	--	--
DC-14	YVD-060821-33	6/8/2021	N	124212	40.2	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	6.35	--	--	57.0	--	--	27.9	--	--
YVD-02	NS ¹	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YVD-03	YVD-060821-24	6/8/2021	N	124212	3.23	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	6.85	--	--	37.6	--	--	33.0	--	--
YVD-04	YVD-060821-22	6/8/2021	N	124212	3.73	--	--	0.050	U	--	1.0	UJ	MS	0.070	U	--	4.32	--	--	47.4	--	--	29.5	--	--
YVD-05	YVD-060821-26	6/8/2021	N	124212	4.50	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	3.94	--	--	47.7	--	--	61.1	--	--
YVD-06	YVD-060721-19	6/7/2021	N	124105	0.67	--	--	0.050	U	--	0.50	UJ	MS,RPD	0.070	U	--	2.28	--	--	16.2	--	--	6.80	--	--
YVD-07	YVD-060821-34	6/8/2021	N	124212	3.34	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	4.28	--	--	37.6	--	--	40.8	--	--
YVD-08	YVD-060821-28	6/8/2021	N	124212	62.0	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	5.45	--	--	102	--	--	179	--	--
YVD-09	YVD-060721-18	6/7/2021	N	124105	54.4	--	--	0.050	U	--	5.0	UJ	MS,RPD	0.070	U	--	8.15	--	--	157	--	--	135	--	--
YVD-10	YVD-060621-07	6/6/2021	N	124053	53.1	--	--	0.050	U	--	5.0	U	--	0.070	U	--	2.80	--	--	106	--	--	219	--	--
YVD-11	YVD-060821-23	6/8/2021	N	124212	41.7	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	2.80	--	--	35.6	--	--	36.0	--	--
YVD-12	YVD-060821-25	6/8/2021	N	124212	14.4	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	2.41	--	--	60.0	--	--	176	--	--
YVD-13	YVD-060821-32	6/8/2021	N	124212	34.0	--	--	0.050	U	--	0.50	UJ	MS	0.070	U	--	3.96	--	--	100	--	--	196	--	--
YVD-14R	YVD-060621-09	6/6/2021	N	124053	121	--	--	0.050	U	--	5.0	U	--	0.070	U	--	4.71	--	--	146	--	--	114	--	--
YVD-15	YVD-060621-08	6/6/2021	N	124053	21.6	--	--	0.050	U	--	5.0	U	--	0.070	U	--	3.32	--	--	86.5	--	--	72.0	--	--
YVD-16	YVD-060621-03	6/6/2021	N	124053	21.8	--	--	0.050	U	--	5.0	U	--	0.070	U	--	5.03	--	--	77.5	--	--	111	--	--
YVD-17	YVD-060621-04	6/6/2021	N	124053	0.40	--	--	0.050	U	--	0.50	U	--	0.070	U	--	0.62	U	--	5.75	--	--	5.44	--	--
YVD-17	YVD-060621-05	6/6/2021	FD	124053	0.47	--	--	0.050	U	--	0.50	U	--	0.070	U	--	0.62	U	--	5.75	--	--	5.31	--	--

Table 7
Groundwater Analytical Results – Second Quarter 2021

Notes:
1. Well YVD-02 was dry. No sample could be collected
Bold: detected result
--: not applicable
(as N): reported as nitrogen
(as CaCO3): reported as calcium carbonate
EPA: U.S. Environmental Protection Agency
FD: field duplicate
mg/L: milligrams per liter
N: normal sample
NS: not sampled
SM: Standard Method
U: The compound was analyzed for but not detected. The associated value is the compound reporting limit, or the compound is considered non-detect at the listed value due to associated blank contamination.

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-01	DC-01-130104	01/04/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-01	DC-01-130924	09/24/2013	N	SWI0178	110	-	-	110	-	-	-	-	-	0.1	U	-	88.9	-	-	44	-	-	0.5	U	-	32.5	-	-	11.1	-	-
DC-01	DC-01-131211	12/11/2013	N	SWL0063	159	-	-	160	-	-	-	-	-	-	R	MSD	91.4	-	-	47.8	-	-	5	U	-	32.6	-	-	11.5	-	-
DC-01	DC-01-140318	03/18/2014	N	SXC0095	159	-	-	160	-	-	-	-	-	0.101	-	-	90.5	-	-	48.2	-	-	5	U	-	31.4	-	-	11.2	-	-
DC-01	DC-01-140602	06/02/2014	N	SXF0017	164	-	-	165	-	-	-	-	-	0.1	U	-	88.6	-	-	41.4	-	-	2	U	-	31.9	-	-	9.76	-	-
DC-01	DC-01-140923	09/23/2014	N	SXI0158	154	-	-	155	-	-	-	-	-	-	R	MSD	89.4	-	-	41.8	-	-	5	U	-	31.2	-	-	9	-	-
DC-01	DC-01-141216	12/16/2014	N	SXL0121	140	-	-	140	-	-	-	-	-	0.1	U	-	92.8	-	-	85.7	-	-	5	U	-	34.0	-	-	18.9	-	-
DC-01	DC-01-150316	03/16/2015	N	5904471	150	-	-	150	-	-	-	-	-	0.1	U	-	91.0	-	-	44	-	-	5	U	-	32.0	-	-	11	-	-
DC-01	DC-01-150616	06/16/2015	N	59010751	150	-	-	150	-	-	-	-	-	0.1	U	-	91.0	J+	MSD	42	-	-	5	U	-	33.0	J+	MSD	9.5	-	-
DC-01	DC-01-150923	09/23/2015	N	59020281	150	-	-	150	-	-	-	-	-	0.13	-	-	83.0	-	-	37	-	-	5	U	-	32.0	-	-	8.6	-	-
DC-01	YVD-D1-150923	09/23/2015	FD	59020281	160	-	-	160	-	-	-	-	-	0.1	U	-	85.0	-	-	43	-	-	0.5	U	-	33.0	-	-	10	-	-
DC-01	DC-01-151214	12/14/2015	N	59025431	170	J	FDP	170	J	FDP	-	-	-	-	R	MSD	97.0	-	-	38	-	-	5	U	-	34.0	-	-	8.8	-	-
DC-01	DC-01-160308	03/08/2016	N	59029711	150	-	-	150	-	-	-	-	-	-	R	FBK, FDP	83.0	-	-	40	-	-	5	U	-	30.0	-	-	8.6	-	-
DC-01	DC-01-160620	6/20/2016	N	59037101	150	-	-	150	-	-	-	-	-	0.1	U	-	83.0	-	-	40	-	-	5	U	-	31.0	-	-	9.2	-	-
DC-01	DC-01-160928	9/28/2016	N	K1611629	147	-	-	147	-	-	-	-	-	0.050	U	MBK	80.6	-	-	34.0	-	-	0.25	-	-	28.5	-	-	9.15	-	-
DC-01	DC-01-161212	12/12/2016	N	K1615045	144	-	-	144	-	-	-	-	-	0.050	U	-	81.1	-	-	31.9	-	-	0.39	-	-	27.9	-	-	8.89	J	HTQ
DC-01	YVD-030817-18	3/8/2017	N	K1702324	148	-	-	148	-	-	-	-	-	1	U	-	80.8	-	-	32.6	-	-	0.39	-	-	27	-	-	9.0	-	-
DC-01	YVD-060417-03	6/4/2017	N	K1705702	147	-	-	147	-	-	-	-	-	0.050	U	-	83.4	-	-	32.9	-	-	0.40	-	-	26.2	-	-	8.2	-	-
DC-01	YVD-060417-05	6/4/2017	FD	K1705702	147	-	-	147	-	-	-	-	-	0.050	U	-	83.0	-	-	33.2	-	-	0.38	-	-	25.7	-	-	8.2	-	-
DC-01	YVD-092517-13	9/25/2017	N	K1710333	148	-	-	148	-	-	-	-	-	0.050	U	-	78.9	-	-	33.2	-	-	0.37	-	-	26.1	-	-	8.41	-	-
DC-01	YVD-120617-31	12/6/2017	N	K1713157	146	-	-	146	-	-	-	-	-	0.050	U	-	83.7	-	-	33.2	-	-	0.37	-	-	28.1	-	-	8.81	-	-
DC-01	YVD-060418-19	6/4/2018	N	874662	141	-	-	141	-	-	0.070	U	FBK	-	-	-	80.5	-	-	34.6	-	-	0.36	-	-	28.75	-	-	8.60	-	-
DC-01	YVD-060219-03	6/2/2019	N	991939	142	-	-	142	-	-	0.070	U	-	-	-	-	76.5	-	-	46.3	U	FBK	0.99	U	FBK	26.15	-	-	8.60	-	-
DC-01	YVD-060820-07	6/8/2020	N	009144	143	--	--	143	--	--	0.070	U	--	-	-	-	76.0	--	--	33.1	--	--	0.30	--	--	26.30	--	--	7.60	--	--
DC-01	YVD-060721-10	6/7/2021	N	124105	140	--	--	140	--	--	0.070	U	--	-	-	-	72.5	--	--	32.4	--	--	0.32	--	--	25.15	--	--	8.00	--	--
DC-03	DC-03-130102	01/02/2013	N	EPA01	-	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-03	DC-03-130918	09/18/2013	N	SWI0138	435	-	-	435	-	-	-	-	-	0.1	U	-	284	-	-	176	-	-	5	U	-	73.7	-	-	166	-	-
DC-03	DC-03-131212	12/12/2013	N	SWL0078	474	-	-	475	-	-	-	-	-	0.02	U	-	280	-	-	172	-	-	5	U	-	75.0	-	-	174	-	-
DC-03	YVD-D3-131212	12/12/2013	FD	SWL0078	459	-	-	460	-	-	-	-	-	0.02	U	-	292	-	-	142	-	-	5	U	-	77.3	-	-	182	-	-
DC-03	DC-03-140319	03/19/2014	N	SXC0107	459	-	-	460	-	-	-	-	-	0.1	U	-	261	-	-	159	J	FDP	5	U	-	66.8	-	-	195	-	-
DC-03	YVD-D3-140319	03/19/2014	FD	SXC0107	469	-	-	470	-	-	-	-	-	0.1	U	-	261	-	-	128	J	FDP	5	U	-	66.7	-	-	164	-	-
DC-03	DC-03-140604	06/04/2014	N	SXF0025	425	-	-	425	-	-	-	-	-	0.1	U	-	259	-	-	201	-	-	10	U	-	67.7	-	-	234	-	-
DC-03	DC-03-140924	09/24/2014	N	SXI0173	409	-	-	410	-	-	-	-	-	0.1	U	-	291	-	-	147	-	-	5	U	-	77.1	-	-	170	-	-
DC-03	DC-03-141217	12/17/2014	N	SXL0144	429	-	-	430	-	-	-	-	-	0.18	J+	FBK, MBK	274	-	-	157	-	-	10	U	-	74.9	-	-	193	-	-
DC-03	YVD-D4-141217	12/17/2014	FD	SXL0144	423	-	-	425	-	-	-	-	-	0.1	U	-	271	-	-	182	-	-	5	U	-	72.6	-	-	156	-	-
DC-03	DC-03-150318	03/18/2015	N	5904651	420	-	-	420	-	-	-	-	-	0.1	U	-	260	-	-	160	-	-	5	U	-	73.0	-	-	180	-	-
DC-03	YVD-D4-150318	03/18/2015	FD	5904651	410	-	-	410	-	-	-	-	-	0.12	-	-	270	-	-	150	-	-	2.5	U	-	74.0	-	-	180	-	-
DC-03	DC-03-150617	06/17/2015	N	59011021	460	-	-	460	-	-	-	-	-	0.1	U	-	290	-	-	170	-	-	5	U	-	78.0	J	RPD	180	J-	MSD, FDP
DC-03	YVD-D4-150617	06/17/2015	FD	59011021	450	-	-	450	-	-	-	-	-	0.1	U	-	290	-	-	180	-	-	5	U	-	77.0	J	RPD	10	J-	MSD, FDP
DC-03	DC-03-150925	09/25/2015	N	59020431	390	-	-	390	-	-	-	-	-	0.1	-	-	270	-	-	140	-	-	10	U	-	73.0	-	-	180	-	-
DC-03	YVD-D4-150925	09/25/2015	FD	59020431	460	-	-	460	-	-	-	-	-	0.2	-	-	260	-	-	140	-	-	0.5	U	-	69.0	-	-	180	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-03	DC-03-151216	12/16/2015	N	59025501	400	-	-	400	-	-	-	-	-	0.18	J-	MSD	260	-	-	170	-	-	5	U	-	75.0	-	-	200	-	-
DC-03	YVD-D4-151216	12/16/2015	FD	59025501	380	-	-	380	-	-	-	-	-	-	R	MSD	250	-	-	160	-	-	2.5	U	-	75.0	-	-	170	-	-
DC-03	DC-03-160310	03/10/2016	N	59029941	460	-	-	460	-	-	-	-	-	0.1	U	-	270	-	-	150	-	-	5	U	-	72.0	-	-	180	-	-
DC-03	YVD-D4-160310	03/10/2016	FD	59029941	480	-	-	480	-	-	-	-	-	0.1	U	-	270	-	-	160	-	-	5	U	-	72.0	-	-	190	-	-
DC-03	DC-03-160623	6/23/2016	N	59037371	420	-	-	420	-	-	-	-	-	0.12	J-	MSD	270	-	-	150	-	-	5	U	-	73.0	-	-	180	-	-
DC-03	YVD-D4-160623	6/23/2016	FD	59037371	410	-	-	410	-	-	-	-	-	0.11	J-	MSD	250	-	-	160	-	-	2.5	U	-	71.0	-	-	170	-	-
DC-03	DC-03-160927	9/27/2016	N	K1611565	425	-	-	425	-	-	-	-	-	0.050	U	MBK	265	-	-	136	-	-	0.20	J	-	72.4	-	-	163	-	-
DC-03	DC-03-D2-160927	9/27/2016	FD	K1611565	427	-	-	427	-	-	-	-	-	0.050	U	MBK	262	-	-	137	-	-	0.19	J	-	71.9	-	-	163	-	-
DC-03	DC-03-161212	12/12/2016	N	K1615029	371	-	-	371	-	-	-	-	-	0.050	U	-	254	-	-	131	-	-	0.24	-	-	65.7	-	-	168	J	HTQ
DC-03	YVD-030817-13	3/8/2017	N	K1702324	381	-	-	381	-	-	-	-	-	1	U	-	267	-	-	150	-	-	0.22	-	-	66.0	-	-	179	-	-
DC-03	YVD-060517-02	6/5/2017	N	K1705702	358	-	-	358	-	-	-	-	-	0.050	U	-	271	-	-	152	-	-	0.24	-	-	61.6	-	-	181	-	-
DC-03	YVD-060517-04	6/5/2017	FD	K1705702	360	-	-	360	-	-	-	-	-	0.050	U	-	269	-	-	152	-	-	0.28	-	-	70.6	-	-	182	-	-
DC-03	YVD-092617-22	9/26/2017	N	K1710333	329	-	-	329	-	-	-	-	-	0.050	U	-	279	-	-	154	-	-	0.24	-	-	68.9	-	-	192	-	-
DC-03	YVD-120417-10	12/4/2017	N	K1713026	333	-	-	333	-	-	-	-	-	0.050	U	-	274	-	-	161	-	-	0.24	-	-	69.4	-	-	207	-	-
DC-03	YVD-031818-04	3/18/2018	N	870610	374	-	-	374	-	-	0.070	U	-	-	-	-	280	-	-	156	-	-	0.19	-	-	67.00	-	-	192	-	-
DC-03	YVD-060418-22	6/4/2018	N	874860	358	-	-	358	-	-	1.22	-	-	-	-	-	266	-	-	152	-	-	0.19	-	-	67.00	-	-	184	-	-
DC-03	YVD-090918-17	9/9/2018	N	880601	460	-	-	460	-	-	0.070	U	-	-	-	-	267	-	-	133	-	-	0.20	-	-	65.50	-	-	157	-	-
DC-03	YVD-121018-03	12/10/2018	N	884857	415	-	-	415	-	-	0.070	U	-	-	-	-	263	-	-	142	-	-	0.20	U	FBK	65.50	J	MSD	180	-	-
DC-03	YVD-031819-19	3/18/2019	N	988273	435	-	-	435	-	-	0.070	U	-	-	-	-	276	-	-	150	-	-	0.19	-	-	66.00	-	-	186	-	-
DC-03	YVD-060419-32	6/4/2019	N	992242	406	-	-	406	-	-	0.27	-	-	-	-	-	282	-	-	155	-	-	0.27	-	-	70.00	-	-	178	-	-
DC-03	YVD-091019-23	9/10/2019	N	998438	463	-	-	463	-	-	0.070	U	-	-	-	-	285	-	-	132	-	-	0.15	-	-	74.00	-	-	180	-	-
DC-03	YVD-121019-22	12/10/2019	N	902321	433	-	-	433	-	-	0.070	U	-	-	-	-	261	-	-	121	-	-	0.17	-	-	65.50	-	-	175	-	-
DC-03	YVD-033120-22	3/31/2020	N	006260	418	-	-	418	-	-	0.070	U	-	-	-	-	284	-	-	136	-	-	0.17	--	--	71.00	-	-	166	-	-
DC-03	YVD-060920-26	6/9/2020	N	009269	426	--	--	426	--	--	0.070	U	--	-	-	-	298	--	--	163	--	--	0.14	--	--	75.00	--	--	205	--	--
DC-03	YVD-092120-21	9/21/2020	N	013896	429	--	--	429	--	--	0.070	U	--	-	-	-	284	--	--	140	--	--	0.24	--	--	73.50	--	--	177	--	--
DC-03	YVD-120720-05	12/7/2020	N	017035	430	--	--	430	--	--	0.070	U	--	-	-	-	260	--	--	122	--	--	0.15	--	--	64.50	--	--	144	--	--
DC-03	YVD-120720-07	12/7/2020	FD	017035	431	--	--	431	--	--	0.070	U	--	-	-	-	256	--	--	122	--	--	0.15	--	--	64.50	--	--	153	--	--
DC-03	YVD-030221-23	3/2/2021	N	120034	393	--	--	393	--	--	0.070	U	--	-	-	-	286	--	--	141	--	--	0.17	--	--	69.00	--	--	186	--	--
DC-03	YVD-060821-27	6/8/2021	N	124212	406	--	--	406	--	--	0.070	U	--	-	-	-	280	--	--	150	--	--	0.10	U	--	69.50	--	--	185	--	--
DC-03D	DC-03D-130918	09/18/2013	N	SWI0138	509	-	-	510	-	-	-	-	-	0.1	U	-	198	-	-	56	-	-	5	U	-	44.0	-	-	46.4	-	-
DC-03D	DC-03D-131212	12/12/2013	N	SWL0073	559	-	-	560	-	-	-	-	-	0.02	UJ	MSD	194	-	-	67.9	-	-	5	U	-	43.3	-	-	38.9	-	-
DC-03D	DC-03D-140319	03/19/2014	N	SXC0107	564	-	-	565	-	-	-	-	-	0.127	-	-	200	-	-	65.9	-	-	5	U	-	43.9	-	-	42.5	-	-
DC-03D	DC-03D-140603	06/03/2014	N	SXF0017	542	-	-	543	-	-	-	-	-	0.1	U	-	179	-	-	65.5	-	-	2	U	-	40.9	-	-	42	-	-
DC-03D	DC-03D-140923	09/23/2014	N	SXI0173	514	-	-	515	-	-	-	-	-	0.1	U	-	216	-	-	59.5	-	-	2.5	U	-	46.6	-	-	38	-	-
DC-03D	DC-03D-141217	12/17/2014	N	SXL0121	514	-	-	515	-	-	-	-	-	0.1	U	-	203	-	-	62.8	-	-	2.5	U	-	46.8	-	-	38.6	-	-
DC-03D	DC-03D-150317	03/17/2015	N	5904651	530	-	-	530	-	-	-	-	-	0.1	U	-	210	-	-	63	-	-	2.5	U	-	48.0	-	-	37	-	-
DC-03D	DC-03D-150617	06/17/2015	N	59011021	530	-	-	530	-	-	-	-	-	0.1	U	-	210	-	-	71	-	-	2.5	U	-	48.0	J	RPD	42	J-	MSD
DC-03D	DC-03D-150925	09/25/2015	N	59020431	610	-	-	610	-	-	-	-	-	0.1	U	-	200	-	-	58	-	-	10	U	-	47.0	-	-	33	-	-
DC-03D	DC-03D-151216	12/16/2015	N	59025501	590	-	-	590	-	-	-	-	-	-	R	MSD	210	-	-	70	-	-	2.5	U	-	50.0	-	-	36	-	-
DC-03D	DC-03D-160310	03/10/2016	N	59029941	580	-	-	580	-	-	-	-	-	0.1	U	-	200	-	-	65	-	-	2.5	U	-	47.0	-	-	37	-	-
DC-03D	DC-03D-160623	6/23/2016	N	59037371	530	-	-	530	-	-	-	-	-	0.11	J-	MSD	200	-	-	65	-	-	5	U	-	47.0	-	-	36	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-03D	DC-03D-160927	9/27/2016	N	K1611565	546	-	-	546	-	-	-	-	-	0.050	U	MBK	188	-	-	58.7	-	-	0.10	J	-	47.1	-	-	32.8	-	-
DC-03D	DC-03D-161212	12/12/2016	N	K1615029	544	-	-	544	-	-	-	-	-	0.050	U	-	200	-	-	57.8	-	-	0.12	J	-	44.8	-	-	33.8	J	HTQ
DC-03D	YVD-030817-14	3/8/2017	N	K1702324	537	-	-	537	-	-	-	-	-	1	U	-	196	-	-	59.5	-	-	0.16	J	-	43.4	-	-	32.9	-	-
DC-03D	YVD-030817-16	3/8/2017	FD	K1702324	555	-	-	555	-	-	-	-	-	1	U	-	194	-	-	59.1	-	-	0.17	J	-	42.7	-	-	32.8	-	-
DC-03D	YVD-060517-09	6/5/2017	N	K1705702	533	-	-	533	-	-	-	-	-	0.050	U	-	203	-	-	58.7	-	-	0.13	J	-	41.3	-	-	31.9	-	-
DC-03D	YVD-092617-24	9/26/2017	N	K1710333	537	-	-	537	-	-	-	-	-	0.050	U	-	194	-	-	60.1	-	-	0.12	J	-	44.2	-	-	33.2	-	-
DC-03D	YVD-120417-08	12/4/2017	N	K1713026	525	-	-	525	-	-	-	-	-	0.050	U	-	195	-	-	57.9	-	-	0.17	J	-	41.5	-	-	33.6	-	-
DC-03D	YVD-031818-02	3/18/2018	N	870610	529	-	-	529	-	-	0.070	U	-	-	-	-	199	-	-	66.1	-	-	0.10	U	-	42.65	-	-	32.6	-	-
DC-03D	YVD-060418-24	6/4/2018	N	874860	533	-	-	533	-	-	0.070	U	-	-	-	-	187	-	-	64.7	-	-	0.10	-	-	42.85	-	-	31.0	-	-
DC-03D	YVD-090918-15	9/9/2018	N	880601	541	-	-	541	-	-	0.070	U	-	-	-	-	200	-	-	69.5	-	-	0.10	-	-	42.90	-	-	32.9	-	-
DC-03D	YVD-121018-05	12/10/2018	N	884857	543	-	-	543	-	-	0.070	U	-	-	-	-	191	-	-	62.1	-	-	0.10	U	FBK	42.50	J	MSD	34.8	-	-
DC-03D	YVD-031819-17	3/18/2019	N	988273	536	-	-	536	-	-	0.070	U	-	-	-	-	192	-	-	61.4	-	-	0.13	-	-	41.55	-	-	35.4	-	-
DC-03D	YVD-060419-30	6/4/2019	N	992242	499	-	-	499	-	-	0.070	U	-	-	-	-	186	-	-	59.6	-	-	0.10	U	-	40.35	-	-	36.6	-	-
DC-03D	YVD-060419-31	6/4/2019	FD	992242	494	-	-	494	-	-	0.070	U	-	-	-	-	182	-	-	60.6	-	-	0.10	U	-	40.70	-	-	37.2	-	-
DC-03D	YVD-091019-21	9/10/2019	N	998438	506	-	-	506	-	-	0.070	U	-	-	-	-	186	-	-	58.4	-	-	0.10	U	-	40.95	-	-	36.4	-	-
DC-03D	YVD-091019-22	9/10/2019	FD	998438	514	-	-	514	-	-	0.070	U	-	-	-	-	186	-	-	58.3	-	-	0.10	U	-	41.15	-	-	36.5	-	-
DC-03D	YVD-121019-20	12/10/2019	N	902321	502	-	-	502	-	-	0.070	U	-	-	-	-	182	-	-	65.0	-	-	0.10	U	-	39.85	-	-	36.2	-	-
DC-03D	YVD-033120-20	3/31/2020	N	006260	456	-	-	456	-	-	0.070	U	-	-	-	-	175	-	-	58.5	-	-	0.10	U	--	38.40	-	-	39.0	-	-
DC-03D	YVD-061020-34	6/10/2020	N	009361	458	--	--	458	--	--	0.070	U	--	-	-	-	168	--	--	60.8	--	--	0.10	U	--	36.20	J	MS	37.0	--	--
DC-03D	YVD-092120-19	9/21/2020	N	013896	460	--	--	460	--	--	0.070	U	--	-	-	-	176	--	--	68.9	--	--	0.10	U	--	38.30	--	--	38.5	--	--
DC-03D	YVD-120720-09	12/7/2020	N	017035	452	--	--	452	--	--	0.070	U	--	-	-	-	174	--	--	66.3	--	--	0.15	--	--	38.60	--	--	35.8	--	--
DC-03D	YVD-030221-21	3/2/2021	N	120034	481	--	--	481	--	--	0.070	U	--	-	-	-	181	--	--	69.6	--	--	0.10	U	--	39.15	--	--	39.8	--	--
DC-03D	YVD-030221-21	3/2/2021	N	120034	481	--	--	481	--	--	0.070	U	--	-	-	-	181	--	--	69.6	--	--	0.10	U	--	39.15	--	--	39.8	--	--
DC-03D	YVD-060821-29	6/8/2021	N	124212	456	--	--	456	--	--	0.070	U	--	-	-	-	175	--	--	66.8	--	--	0.10	U	--	39.00	--	--	41.4	--	--
DC-03D	YVD-060821-31	6/8/2021	FD	124212	455	--	--	455	--	--	0.070	U	--	-	-	-	174	--	--	66.7	--	--	0.10	U	--	38.35	--	--	39.9	--	--
DC-04	DC-04-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.0	-	-
DC-04	DC-04-130920	09/20/2013	N	SWI0142	305	-	-	305	-	-	-	-	-	0.1	U	-	141	-	-	39.4	-	-	5	U	-	25.5	-	-	-	-	-
DC-04	DC-04-130924	09/24/2013	N	SWI0175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.7	-	-	
DC-04	DC-04-131212	12/12/2013	N	SWL0073	315	-	-	315	-	-	-	-	-	0.02	UJ	MSD	148	-	-	41.1	-	-	5	U	-	28.4	-	-	36.7	-	-
DC-04	DC-04-140318	03/18/2014	N	SXC0107	325	-	-	325	-	-	-	-	-	0.1	U	-	153	-	-	42	-	-	5	U	-	28.0	-	-	37.3	-	-
DC-04	DC-04-140603	06/03/2014	N	SXF0017	310	-	-	310	-	-	-	-	-	0.1	U	-	134	-	-	36.2	-	-	2	U	-	28.9	-	-	36.4	-	-
DC-04	DC-04-140923	09/23/2014	N	SXI0173	317	-	-	320	-	-	-	-	-	0.1	U	-	174	-	-	39.7	-	-	2.5	U	-	34.2	-	-	37.8	-	-
DC-04	DC-04-141217	12/17/2014	N	SXL0121	329	-	-	330	-	-	-	-	-	0.1	U	-	182	-	-	42.7	-	-	2.5	U	-	35.7	-	-	40.8	-	-
DC-04	DC-04-150317	03/17/2015	N	5904651	340	-	-	340	-	-	-	-	-	0.1	U	-	180	-	-	41	-	-	2.5	U	-	34.0	-	-	39	-	-
DC-04	DC-04-150617	06/17/2015	N	59010961	330	-	-	330	-	-	-	-	-	0.1	U	-	180	-	-	46	-	-	5	U	-	34.0	-	-	42	-	-
DC-04	DC-04-150924	09/24/2015	N	59020391	400	-	-	400	-	-	-	-	-	0.1	UJ	MSD	160	-	-	48	-	-	2.5	U	-	36.0	-	-	48	J+	MSD
DC-04	YVD-D3-150924	09/24/2015	FD	59020391	380	-	-	380	-	-	-	-	-	0.1	UJ	MSD	170	-	-	53	-	-	2.5	U	-	37.0	-	-	53	J+	MSD
DC-04	DC-04-151215	12/15/2015	N	59025431	400	J	FDP	400	J	FDP	-	-	-	-	R	MSD	180	-	-	46	-	-	2.5	U	-	36.0	-	-	48	-	-
DC-04	DC-04-160309	03/09/2016	N	59029711	390	-	-	390	-	-	-	-	-	0.1	UJ	FDP	190	-	-	53	-	-	2.5	U	-	36.0	-	-	53	-	-
DC-04	DC-04-160621	6/21/2016	N	59037271	360	-	-	360	-	-	-	-	-	0.1	UJ	MSD	200	-	-	50	-	-	2.5	U	-	40.0	-	-	50	-	-
DC-04	DC-04-160926	9/26/2016	N	K1611506	374	-	-	374	-	-	-	-	-	0.050	U	MBK	194	-	-	43.4	-	-	0.12	J	-	40.6	-	-	44.1	-	-
DC-04	DC-04-161216	12/12/2016	N	K1615174	384	-	-	384	-	-	-	-	-	0.050	U	-	214	-	-	44.7	-	-	0.15	J	-	39.7	-	-	45.2	-	-
DC-04	YVD-031017-31	3/10/2017	N	K1702448	375	-	-	375	-	-	-	-	-	0.050	U	-	219	-	-	43.1	-	-	0.16	J	-	36.3	-	-	46.0	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-04	YVD-031017-33	3/10/2017	FD	K1702448	383	-	-	383	-	-	-	-	-	0.050	U	-	219	-	-	43.2	-	-	0.16	J	-	36.3	-	-	45.7	-	-
DC-04	YVD-060617-26	6/6/2017	N	K1705833	390	-	-	390	-	-	-	-	-	0.050	U	-	202	-	-	38.6	-	-	0.13	J	-	37.0	-	-	38.4	-	-
DC-04	YVD-092517-06	9/25/2017	N	K1710274	391	-	-	391	-	-	-	-	-	0.050	U	-	192	-	-	35.2	-	-	0.14	J	-	37.0	-	-	33.7	-	-
DC-04	YVD-120517-24	12/5/2017	N	K1713091	388	-	-	388	-	-	-	-	-	0.050	U	-	188	-	-	34.3	-	-	0.12	J	-	32.7	-	-	33.8	J	HTQ
DC-04	YVD-031818-07	3/18/2018	N	870610	377	-	-	377	-	-	0.070	U	-	-	-	-	182	-	-	34.5	-	-	0.10	U	-	32.10	-	-	32.9	-	-
DC-04	YVD-060418-18	6/4/2018	N	874662	380	-	-	380	-	-	0.070	U	FBK	-	-	-	182	-	-	35.4	-	-	0.10	-	-	33.55	-	-	33.0	-	-
DC-04	YVD-090918-18	9/9/2018	N	880601	371	-	-	371	-	-	0.070	U	-	-	-	-	176	-	-	32.4	-	-	0.12	-	-	30.40	-	-	30.4	-	-
DC-04	YVD-121118-18	12/11/2018	N	884939	376	-	-	376	-	-	0.070	U	-	-	-	-	166	-	-	30.4	-	-	0.11	-	-	29.40	-	-	29.4	-	-
DC-04	YVD-032019-21	3/20/2019	N	988477	393	-	-	393	-	-	0.070	U	-	-	-	-	172	-	-	26.2	-	-	0.10	-	-	30.45	-	-	29.6	-	-
DC-04	YVD-060219-14	6/2/2019	N	991939	390	-	-	390	-	-	0.09	-	-	-	-	-	173	-	-	22.9	U	FBK	0.10	U	-	30.55	-	-	29.1	-	-
DC-04	YVD-090919-09	9/9/2019	N	998357	387	-	-	387	-	-	0.070	U	-	-	-	-	169	-	-	33.1	-	-	0.10	U	-	30.35	-	-	31.4	-	-
DC-04	YVD-120919-07	12/9/2019	N	902276	382	-	-	382	-	-	0.070	U	-	-	-	-	167	-	-	33.4	-	-	0.10	U	-	30.35	-	-	31.3	-	-
DC-04	YVD-033120-18	3/31/2020	N	006260	390	-	-	390	-	-	0.070	U	-	-	-	-	171	-	-	34.1	-	-	0.10	--	--	30.50	-	-	29.8	-	-
DC-04	YVD-060820-08	6/8/2020	N	009144	395	--	--	395	--	--	0.070	U	--	-	-	-	173	--	--	34.5	--	--	0.10	--	--	31.00	--	--	30.9	--	--
DC-04	YVD-092020-07	9/20/2020	N	013864	403	--	--	403	--	--	0.070	U	--	-	-	-	184	--	--	39.4	--	--	0.10	U	--	33.35	--	--	34.1	--	--
DC-04	YVD-120820-23	12/8/2020	N	017137	422	--	--	422	--	--	0.070	U	--	-	-	-	193	--	--	41.3	--	--	0.10	U	--	34.65	--	--	34.4	--	--
DC-04	YVD-030221-20	3/2/2021	N	120034	443	--	--	443	--	--	0.070	U	--	-	-	-	208	--	--	46.2	--	--	0.15	--	--	36.15	--	--	35.0	--	--
DC-04	YVD-030221-22	3/2/2021	FD	120034	440	--	--	440	--	--	0.070	U	--	-	-	-	200	--	--	45.7	--	--	0.15	--	--	35.70	--	--	34.3	--	--
DC-04	YVD-030221-20	3/2/2021	N	120034	443	--	--	443	--	--	0.070	U	--	-	-	-	208	--	--	46.2	--	--	0.15	--	--	36.15	--	--	35.0	--	--
DC-04	YVD-030221-22	3/2/2021	FD	120034	440	--	--	440	--	--	0.070	U	--	-	-	-	200	--	--	45.7	--	--	0.15	--	--	35.70	--	--	34.3	--	--
DC-04	YVD-060621-06	6/6/2021	N	124053	438	--	--	438	--	--	0.070	U	--	-	-	-	195	--	--	39.6	--	--	0.10	U	--	34.75	--	--	30.9	--	--
DC-05	DC-05-130104	01/04/2013	N	EPA01	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32		-	
DC-05	DC-05-130920	09/20/2013	N	SWI0142	414		-	415		-	-	-	-	0.255		-	129		-	36.7		-	5	U	-	48.5		-	-		-
DC-05	DC-05-130924	09/24/2013	N	SWI0175	-		-	-		-	-	-	-	-		-	-		-	-		-	-	-	-	-	33.6		-		
DC-05	DC-05-131212	12/12/2013	N	SWL0073	424	-	-	425	-	-	-	-	-	0.02	UJ	MSD	130	-	-	35.9	-	-	5	U	-	50.2	-	-	42.6	-	-
DC-05	DC-05-140318	03/18/2014	N	SXC0107	404	-	-	405	-	-	-	-	-	0.131	-	-	133	-	-	33	-	-	5	U	-	49.7	-	-	33.1	-	-
DC-05	DC-05-140603	06/03/2014	N	SXF0017	412	-	-	413	-	-	-	-	-	0.1	U	-	118	-	-	31.6	-	-	2	U	-	46.7	-	-	32.6	-	-
DC-05	DC-05-140923	09/23/2014	N	SXI0173	408	-	-	410	-	-	-	-	-	0.1	U	-	140	-	-	35	-	-	2.5	U	-	53.5	-	-	35.8	-	-
DC-05	DC-05-141217	12/17/2014	N	SXL0121	414	-	-	415	-	-	-	-	-	0.1	U	-	147	-	-	34.4	-	-	2.5	U	-	58.9	-	-	33.4	-	-
DC-05	DC-05-150317	03/17/2015	N	5904541	430	-	-	430	-	-	-	-	-	0.1	U	-	150	-	-	36	-	-	2	-	-	58.0	-	-	38	J-	MSD
DC-05	DC-05-150616	06/16/2015	N	59010961	410	-	-	410	-	-	-	-	-	0.1	U	-	140	-	-	35	-	-	2	U	-	57.0	-	-	37	-	-
DC-05	YVD-D2-150616	06/16/2015	FD	59010961	410	-	-	410	-	-	-	-	-	0.1	U	-	140	-	-	35	-	-	5	U	-	56.0	-	-	41	-	-
DC-05	DC-05-150923	09/23/2015	N	59020391	440	-	-	440	-	-	-	-	-	0.1	UJ	MSD	130	-	-	33	-	-	2	U	-	57.0	-	-	38	J+	MSD
DC-05	DC-05-151215	12/15/2015	N	59025431	440	J	FDP	440	J	FDP	-	-	-	-	R	MSD	140	-	-	29	-	-	2	U	-	55.0	-	-	38	-	-
DC-05	DC-05-160309	03/09/2016	N	59029711	410	-	-	410	-	-	-	-	-	0.1	UJ	FDP	140	-	-	35	-	-	2	U	-	54.0	-	-	43	-	-
DC-05	DC-05-160621	6/21/2016	N	59037151	390	-	-	390	-	-	-	-	-	0.1	UJ	-	130	-	-	34	-	-	2	U	-	54.0	-	-	36	-	-
DC-05	DC-05-160926	9/26/2016	N	K1611506	346	-	-	346	-	-	-	-	-	0.050	U	-	119	-	-	26.5	-	-	0.15	J	-	49.7	-	-	32.1	-	-
DC-05	DC-05-D1-160926	9/26/2016	FD	K1611506	364	-	-	364	-	-	-	-	-	0.050	U	MBK	124	-	-	26.6	-	-	0.16	J	-	52.5	-	-	32.2	-	-
DC-05	DC-05-161216	12/16/2016	N	K1615174	348	-	-	348	-	-	-	-	-	0.050	U	-	129	-	-	28.6	-	-	0.19	J	-	45.4	-	-	33.7	-	-
DC-05	YVD-D5-161216	12/16/2016	FD	K1615174	340	-	-	340	-	-	-	-	-	0.050	U	-	128	-	-	28.9	-	-	0.19	J	-	48.0	-	-	33.3	-	-
DC-05	YVD-030717-09	3/7/2017	N	K1702324	367	-	-	367	-	-	-	-	-	1	U	-	117	-	-	28.5	-	-	0.20	J	-	43.5	-	-	32.9	J	HTQ
DC-05	YVD-060717-30	6/7/2017	N	K1705833	364	-	-	364	-	-	-	-	-	0.050	U	-	122	-	-												

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-05	YVD-031818-03	3/18/2018	N	870610	364	-	-	364	-	-	0.10	-	-	-	-	-	116	-	-	33.0	-	-	0.14	U	-	42.35	-	-	33.6	-	-
DC-05	YVD-031818-05	3/18/2018	FD	870610	356	-	-	356	-	-	0.070	U	-	-	-	-	116	-	-	33.1	-	-	0.14	-	-	42.85	-	-	33.8	-	-
DC-05	YVD-060318-02	6/3/2018	FD	874568	368	-	-	368	-	-	0.070	U	-	-	-	-	118	-	-	32.2	-	-	0.15	-	-	43.50	-	-	34.4	-	-
DC-05	YVD-090918-03	9/9/2018	N	880601	378	-	-	378	-	-	0.070	U	-	-	-	-	122	-	-	31.4	-	-	0.18	-	-	42.55	-	-	31.5	-	-
DC-05	YVD-121118-16	12/11/2018	N	884939	390	-	-	390	-	-	0.070	U	-	-	-	-	120	-	-	33.7	-	-	0.16	-	-	43.40	-	-	33.2	-	-
DC-05	YVD-031719-02	3/17/2019	N	988239	396	-	-	396	-	-	0.070	U	-	-	-	-	126	-	-	29.9	-	-	0.12	U	FBK	44.25	-	-	30.4	-	-
DC-05	YVD-060219-08	6/2/2019	N	991939	400	-	-	400	-	-	0.070	U	-	-	-	-	122	-	-	26.2	U	FBK	0.12	U	FBK	44.15	-	-	28.8	-	-
DC-05	YVD-090919-14	9/9/2019	N	998357	389	-	-	389	-	-	0.070	U	-	-	-	-	120	-	-	25.4	-	-	0.14	-	-	42.30	-	-	26.7	-	-
DC-05	YVD-120919-03	12/9/2019	N	902276	400	-	-	400	-	-	0.070	U	-	-	-	-	120	-	-	28.1	-	-	0.14	-	-	43.00	-	-	29.3	-	-
DC-05	YVD-033020-12	3/30/2020	N	006241	402	-	-	402	-	-	0.070	U	-	-	-	-	120	-	-	26.0	-	-	0.14	--	--	43.45	-	-	25.6	-	-
DC-05	YVD-060820-06	6/8/2020	N	009144	404	--	--	404	--	--	0.070	U	--	-	-	-	116	--	--	24.4	--	--	0.16	--	--	41.75	--	--	24.0	--	--
DC-05	YVD-092020-03	9/20/2020	N	013864	387	--	--	387	--	--	0.070	U	--	-	-	-	126	--	--	26.8	--	--	0.12	--	--	45.05	--	--	27.8	--	--
DC-05	YVD-120720-06	12/7/2020	N	017035	372	--	--	372	--	--	0.070	U	--	-	-	-	130	--	--	24.0	--	--	0.12	--	--	47.55	--	--	29.6	--	--
DC-05	YVD-030221-16	3/2/2021	N	120034	388	--	--	388	--	--	0.070	U	--	-	-	-	139	--	--	30.5	--	--	0.12	--	--	49.25	--	--	32.3	--	--
DC-05	YVD-060721-14	6/7/2021	N	124105	360	--	--	360	--	--	0.070	U	--	-	-	-	129	--	--	34.9	--	--	0.17	--	--	46.45	--	--	38.5	--	--
DC-05D	DC-05D-130920	09/20/2013	N	SWI0142	214	-	-	215	-	-	-	-	-	0.1	U	-	86.7	-	-	43.6	-	-	5	U	-	30.3	-	-	-	-	-
DC-05D	DC-05D-130924	09/24/2013	N	SWI0178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.6	-	-	
DC-05D	DC-05D-131211	12/11/2013	N	SWL0073	209	-	-	210	-	-	-	-	-	0.02	UJ	MSD	81.8	-	-	32.3	-	-	5	U	-	28.8	-	-	16	-	-
DC-05D	DC-05D-140318	03/18/2014	N	SXC0095	209	-	-	210	-	-	-	-	-	0.182	-	-	86.2	-	-	33.4	-	-	5	U	-	29.4	-	-	12.8	-	-
DC-05D	DC-05D-140602	06/02/2014	N	SXF0017	214	-	-	215	-	-	-	-	-	0.163	-	-	67.4	-	-	30.6	-	-	2	U	-	24.6	-	-	3.36	-	-
DC-05D	DC-05D-140922	09/22/2014	N	SXI0148	203	-	-	205	-	-	-	-	-	0.1	U	-	83.3	-	-	30.9	-	-	2	U	-	30.2	-	-	11.7	-	-
DC-05D	DC-05D-141216	12/16/2014	N	SXL0121	199	-	-	200	-	-	-	-	-	0.1	U	-	78.9	-	-	35.9	-	-	5	U	-	29.5	-	-	7.9	-	-
DC-05D	DC-05D-150317	03/17/2015	N	5904541	210	-	-	210	-	-	-	-	-	0.1	U	-	78.0	-	-	31	-	-	2	U	-	29.0	-	-	7.7	J-	MSD
DC-05D	DC-05D-150616	06/16/2015	N	59010961	210	-	-	210	-	-	-	-	-	0.1	U	-	79.0	-	-	34	-	-	2	U	-	30.0	-	-	8.6	-	-
DC-05D	DC-05D-150923	09/23/2015	N	59020391	200	-	-	200	-	-	-	-	-	0.1	UJ	MSD	74.0	-	-	31	-	-	2	U	-	31.0	-	-	8.9	J+	MSD
DC-05D	YVD-D2-150923	09/23/2015	FD	59020391	220	-	-	220	-	-	-	-	-	0.16	J	MSD	73.0	-	-	33	-	-	0.5	U	-	30.0	-	-	10	J+	MSD
DC-05D	DC-05D-151215	12/15/2015	N	59025431	230	J	FDP	230	J	FDP	-	-	-	-	R	MSD	78.0	-	-	30	-	-	2	U	-	29.0	-	-	9.9	-	-
DC-05D	DC-05D-160309	03/09/2016	N	59029711	220	-	-	220	-	-	-	-	-	0.1	UJ	FDP	81.0	-	-	33	-	-	2	U	-	30.0	-	-	13	-	-
DC-05D	DC-05D-160621	6/21/2016	N	59037271	210	-	-	210	-	-	-	-	-	0.13	J-	MSD	78.0	-	-	32	-	-	2	U	-	30.0	-	-	12	-	-
DC-05D	DC-05D-160926	9/26/2016	N	K1611506	209	-	-	209	-	-	-	-	-	0.050	U	-	81.4	-	-	25.6	-	-	0.26	-	-	28.4	-	-	11.2	-	-
DC-05D	DC-05D-161214	12/14/2016	N	K1615126	202	-	-	202	-	-	-	-	-	0.050	U	-	78.1	-	-	25.7	-	-	0.28	-	-	27.5	-	-	11.2	-	-
DC-05D	YVD-030717-12	3/7/2017	N	K1702324	206	-	-	206	-	-	-	-	-	1	U	-	76.4	-	-	26.3	-	-	0.32	-	-	26.5	-	-	11.6	J	HTQ
DC-05D	YVD-060717-34	6/7/2017	N	K1705833	201	-	-	201	-	-	-	-	-	0.050	U	-	79.1	-	-	23.9	-	-	0.29	-	-	27.3	-	-	10.8	-	-
DC-05D	YVD-092517-02	9/25/2017	N	K1710274	207	-	-	207	-	-	-	-	-	0.050	U	-	79.2	-	-	25.2	-	-	0.28	-	-	28.9	-	-	11.1	-	-
DC-05D	YVD-092517-03	9/25/2017	FD	K1710274	207	-	-	207	-	-	-	-	-	0.050	U	-	80.6	-	-	24.9	-	-	0.27	-	-	29.1	-	-	11	-	-
DC-05D	YVD-120517-20	12/5/2017	N	K1713091	202	-	-	202	-	-	-	-	-	0.050	U	-	81.2	-	-	26.6	-	-	0.28	-	-	27.1	-	-	11.9	J	HTQ
DC-05D	YVD-031818-08	3/18/2018	N	870610	198	-	-	198	-	-	0.07	U	-	-	-	-	82.0	-	-	27.4	-	-	0.25	-	-	27.50	-	-	12.6	-	-
DC-05D	YVD-060318-03	6/3/2018	N	874568	203	-	-	203	-	-	0.08	U	FBK	-	-	-	78.5	-	-	27.4	-	-	0.35	-	-	27.95	-	-	12.5	-	-
DC-05D	YVD-060318-05	6/3/2018	FD	874568	202	-	-	202	-	-	0.070	U	-	-	-	-	78.5	-	-	27.4	-	-	0.26	-	-	28.00	-	-	13.4	-	-
DC-05D	YVD-090918-02	9/9/2018	N	880601	204	-	-	204	-	-	0.070	U	-	-	-	-	79.5	-	-	26.8	-	-	0.25	-	-	26.75	-	-	12.2	-	-
DC-05D	YVD-121118-14	12/11/2018	N	884939	204	-	-	204	-	-	0.070	U	-	-	-	-	78.5	-	-	25.7	-	-	0.24	-	-	26.50	-	-	12.4	-	-
DC-05D	YVD-031719-04	3/17/2019	N	988239	204	-	-	204	-	-	0.070	U																			

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-05D	YVD-120919-05	12/9/2019	N	902276	201	-	-	201	-	-	0.070	U	-	-	-	-	76.5	-	-	26.3	-	-	0.28	-	-	26.20	-	-	12.9	-	-
DC-05D	YVD-033020-14	3/30/2020	N	006241	202	-	-	202	-	-	0.070	U	-	-	-	-	75.5	-	-	27.3	-	-	0.25	--	--	26.30	-	-	12.8	-	-
DC-05D	YVD-060820-02	6/8/2020	N	009144	202	--	--	202	--	--	0.070	U	--	-	-	-	76.5	--	--	26.9	--	--	0.20	--	--	26.55	--	--	14.4	--	--
DC-05D	YVD-060820-04	6/8/2020	FD	009144	202	--	--	202	--	--	0.070	U	--	-	-	-	76.0	--	--	26.9	--	--	0.20	--	--	26.55	--	--	12.0	--	--
DC-05D	YVD-092020-04	9/20/2020	N	013864/20I0421	202	--	--	202	--	--	0.070	U	--	-	-	-	78.0	--	--	27.2	--	--	0.21	--	--	26.95	--	--	12.0	--	--
DC-05D	YVD-092020-05	9/20/2020	FD	013864/20I0421	202	--	--	202	--	--	0.070	U	--	-	-	-	78.5	--	--	27.2	--	--	0.22	--	--	26.75	--	--	12.0	--	--
DC-05D	YVD-120720-02	12/7/2020	N	017035	200	--	--	200	--	--	0.070	U	--	-	-	-	77.5	--	--	23.5	--	--	0.20	--	--	27.05	--	--	12.9	--	--
DC-05D	YVD-120720-04	12/7/2020	FD	017035	198	--	--	198	--	--	0.070	U	--	-	-	-	76.5	--	--	21.0	--	--	0.18	--	--	26.90	--	--	12.9	--	--
DC-05D	YVD-030221-18	3/2/2021	N	120034	206	--	--	206	--	--	0.070	U	--	-	-	-	80.5	--	--	27.9	--	--	0.23	--	--	27.10	--	--	12.8	--	--
DC-05D	YVD-060721-13	6/7/2021	N	124105	212	--	--	212	--	--	0.070	U	--	-	-	-	78.0	--	--	27.2	--	--	0.22	--	--	26.85	--	--	13.0	--	--
DC-07	DC-07-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	-	-	
DC-07	DC-07-130918	09/18/2013	N	SWI0123	315	-	-	315	-	-	-	-	-	0.1	U	-	122	-	-	30.5	-	-	5	U	-	18.4	-	-	4.3	-	-
DC-07	YVD-D1-130918	09/18/2013	FD	SWI0123	295	-	-	295	-	-	-	-	-	0.1	U	-	122	-	-	32.8	-	-	5	U	-	18.5	-	-	4.3	-	-
DC-07	DC-07-131210	12/10/2013	N	SWL0055	260	-	-	260	-	-	-	-	-	0.02	UJ	MSD	27.5	-	-	31	-	-	5	U	-	11.5	-	-	4.7	-	-
DC-07	DC-07-140316	03/16/2014	N	SXC0081	260	-	-	260	-	-	-	-	-	0.116	-	-	88.4	-	-	26.5	-	-	2	U	-	15.4	-	-	4.72	-	-
DC-07	DC-07-140602	06/02/2014	N	SXF0008	245	-	-	245	-	-	-	-	-	0.1	U	-	93.7	-	-	28.2	-	-	2	U	-	16.5	-	-	0.8	U	-
DC-07	DC-07-140922	09/22/2014	N	SXI0148	215	-	-	215	-	-	-	-	-	0.1	U	-	87.1	-	-	29.8	-	-	2	U	-	16.1	-	-	4.88	-	-
DC-07	DC-07-141216	12/16/2014	N	SXL0108	210	-	-	210	-	-	-	-	-	0.1	U	-	83.6	-	-	24.2	-	-	2	U	-	15.1	-	-	2.8	-	-
DC-07	YVD-D2-141216	12/16/2014	FD	SXL0108	210	-	-	210	-	-	-	-	-	0.1	U	-	84.2	-	-	25.6	-	-	0.5	U	-	15.1	-	-	2.92	-	-
DC-07	DC-07-150317	03/17/2015	N	5904541	240	-	-	240	-	-	-	-	-	0.1	U	-	94.0	-	-	29	-	-	2	U	-	17.0	-	-	4.6	J-	MSD
DC-07	DC-07-150617	06/17/2015	N	59011021	230	-	-	230	-	-	-	-	-	0.1	U	-	97.0	-	-	32	-	-	2	U	-	17.0	J	RPD	4	J-	MSD
DC-07	DC-07-150924	09/24/2015	N	59020391	240	-	-	240	-	-	-	-	-	0.1	UJ	MSD	76.0	-	-	30	-	-	2	U	-	15.0	-	-	2.7	J+	MSD
DC-07	DC-07-151215	12/15/2015	N	59025501	240	-	-	240	-	-	-	-	-	-	R	MSD	87.0	-	-	29	-	-	2	U	-	16.0	-	-	2.5	-	-
DC-07	DC-07-160309	03/09/2016	N	59029941	280	-	-	280	-	-	-	-	-	0.1	U	-	91.0	-	-	31	-	-	2	U	-	17.0	-	-	2.2	-	-
DC-07	DC-07-160621	6/21/2016	N	59037271	250	-	-	250	-	-	-	-	-	0.1	J-	MSD	96.0	-	-	33	-	-	2	U	-	18.0	-	-	4.8	-	-
DC-07	DC-07-160926	9/26/2016	N	K1611565	204	-	-	204	-	-	-	-	-	0.050	U	-	82.3	-	-	24.4	-	-	0.2	U	-	15.0	-	-	2.74	-	-
DC-07	DC-07-161214	12/14/2016	N	K1615083	218	-	-	218	-	-	-	-	-	0.050	U	-	77.0	-	-	19.2	-	-	0.2	U	-	13.1	-	-	1.44	-	-
DC-07	YVD-030917-25	3/9/2017	N	K1702448	255	-	-	255	-	-	-	-	-	0.050	U	-	87.9	-	-	21.4	-	-	0.2	U	-	14.4	-	-	2.58	-	-
DC-07	YVD-060617-18	6/6/2017	N	K1705754	232	-	-	232	-	-	-	-	-	0.050	U	-	82.8	-	-	24.5	-	-	0.11	J	-	14.3	-	-	2.42	-	-
DC-07	YVD-092517-12	9/25/2017	N	K1710333	235	-	-	235	-	-	-	-	-	0.050	U	-	86.1	-	-	25.4	-	-	0.09	J	-	13.9	-	-	2.34	-	-
DC-07	YVD-120417-14	12/4/2017	N	K1713026	221	-	-	221	-	-	-	-	-	0.050	U	-	80.9	-	-	25.7	-	-	0.18	J	-	13.3	-	-	2.92	-	-
DC-07	YVD-060318-17	6/3/2018	N	874568	202	-	-	202	-	-	0.070	U	-	-	-	-	90.5	-	-	28.5	-	-	0.10	U	-	15.85	-	-	6.90	-	-
DC-07	YVD-060319-20	6/3/2019	N	992053	349	-	-	349	-	-	0.070	U	-	-	-	-	120	-	-	20.4	-	-	0.10	U	-	20.20	-	-	2.95	-	-
DC-07	YVD-060920-18	6/9/2020	N	009269	468	--	--	468	--	--	0.070	U	--	-	-	-	174	--	--	48.8	--	--	0.10	U	--	26.95	--	--	10.1	--	--
DC-07	YVD-092120-22	9/21/2020	N	013896	500	--	--	500	--	--	0.070	U	--	-	-	-	194	--	--	62.3	--	--	0.10	U	--	28.95	--	--	26.5	--	--
DC-07	YVD-120820-22	12/8/2020	N	017137	507	--	--	507	--	--	0.070	U	--	-	-	-	172	--	--	40.6	--	--	0.11	--	--	25.95	--	--	13.4	--	--
DC-07	YVD-030121-10	3/1/2021	N	119931	500	--	--	500	--	--	0.070	U	--	-	-	-	169	--	--	35.1	--	--	0.10	U	--	26.60	--	--	5.80	--	--
DC-07	YVD-060721-16	6/7/2021	N	124105	490	--	--	490	--	--	0.070	U	--	-	-	-	152	--	--	23.1	--	--	0.10	U	--	23.55	--	--	8.80	--	--
DC-07	YVD-060721-17	6/7/2021	FD	124105	490	--	--	490	--	--	0.070	U	--	-	-	-	150	--	--	23.2	--	--	0.10	U	--	23.40	--	--	9.90	--	--
DC-09	DC-09-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	
DC-09	DC-09-130923	09/23/2013	N	SWI0178	44.7	-	-	45	-	-	-	-	-	0.1	U	-	34.0	-	-	-	-	-	-	-	-	8.4	-	-	-	-	-
DC-09	DC-09-130926	09/26/2013	N	SWI0190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.2	-	-	0.5	U	-	-	-	6.02	-	-	
DC-09	DC-09-131211	12/11/2013	N	SWL0063	129	-	-	130	-	-	-	-	-	-	R	MSD	34.8	-	-	17.4	-	-	0.5	U	-	7.9	-	-	6.78	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-09	DC-09-140317	03/17/2014	N	SXC0095	144	-	-	145	-	-	-	-	-	0.1	U	-	35.4	-	-	15.6	-	-	0.82	-	-	8.4	-	-	5.85	-	-
DC-09	DC-09-140602	06/02/2014	N	SXF0008	129	-	-	130	-	-	-	-	-	0.106	-	-	33.9	-	-	15.9	-	-	0.5	U	-	8.3	-	-	6.18	-	-
DC-09	YVD-D3-140602	06/02/2014	FD	SXF0008	129	-	-	130	-	-	-	-	-	0.1	U	-	34.2	-	-	15.8	-	-	0.5	U	-	8.7	-	-	5.97	-	-
DC-09	DC-09-140923	09/23/2014	N	SXI0158	124	-	-	125	-	-	-	-	-	-	R	MSD	32.2	-	-	15.8	-	-	0.5	U	-	6.8	-	-	6.01	-	-
DC-09	DC-09-141216	12/16/2014	N	SXL0108	129	-	-	130	-	-	-	-	-	0.1	U	-	35.3	-	-	16.3	-	-	0.5	U	-	8.0	-	-	5.94	-	-
DC-09	DC-09-150316	03/16/2015	N	5904541	130	-	-	130	-	-	-	-	-	0.15	-	-	36.0	-	-	17	-	-	0.6	-	-	8.0	-	-	5.9	J-	MSD
DC-09	DC-09-150616	06/16/2015	N	59010751	130	-	-	130	-	-	-	-	-	0.1	U	-	34.0	J+	MSD	16	-	-	0.5	U	-	8.1	J+	MSD	5.8	-	-
DC-09	DC-09-150923	09/23/2015	N	59020281	140	-	-	140	-	-	-	-	-	0.1	U	-	33.0	-	-	16	-	-	0.5	U	-	8.1	-	-	5.8	-	-
DC-09	DC-09-151214	12/14/2015	N	59025431	150	J	FDP	150	J	FDP	-	-	-	-	R	MSD	34.0	-	-	16	-	-	0.5	U	-	8.2	-	-	5.9	-	-
DC-09	DC-09-160308	03/08/2016	N	59029711	130	-	-	130	-	-	-	-	-	-	R	FBK, FDP	35.0	-	-	16	-	-	0.5	U	-	8.8	-	-	5.7	-	-
DC-09	YVD-D2-160308	03/08/2016	FD	59029711	130	-	-	130	-	-	-	-	-	0.1	UJ	FDP	34.0	-	-	16	-	-	0.5	U	-	8.6	-	-	5.7	-	-
DC-09	DC-09-160621	6/21/2016	N	59037151	130	-	-	130	-	-	-	-	-	0.1	UJ	-	32.0	-	-	17	-	-	0.51	-	-	7.5	-	-	5.9	-	-
DC-09	DC-09-160929	9/29/2016	N	K1611704	129	-	-	129	-	-	-	-	-	0.050	U	MBK	30.6	-	-	14.8	-	-	0.38	-	-	6.25	-	-	5.53	-	-
DC-09	DC-09-D4-160929	9/29/2016	FD	K1611704	128	-	-	128	-	-	-	-	-	0.050	U	MBK	30.4	-	-	14.9	-	-	0.38	-	-	6.22	-	-	5.53	-	-
DC-09	DC-09-161215	12/15/2016	N	K1615126	127	-	-	127	-	-	-	-	-	0.050	U	-	33.0	-	-	15.0	-	-	0.41	-	-	6.65	-	-	5.62	-	-
DC-09	YVD-D4-161215	12/15/2016	FD	K1615126	127	-	-	127	-	-	-	-	-	0.050	U	-	32.8	-	-	15.0	-	-	0.42	-	-	6.62	-	-	5.61	-	-
DC-09	YVD-031317-36	3/13/2017	N	K1702489	124	-	-	124	-	-	-	-	-	0.050	U	-	33.8	-	-	14.6	-	-	0.44	-	-	6.75	-	-	5.54	-	-
DC-09	YVD-060717-27	6/7/2017	N	K1705833	126	-	-	126	-	-	-	-	-	0.050	U	-	33.3	-	-	14.7	-	-	0.40	-	-	6.88	-	-	5.55	-	-
DC-09	YVD-092617-23	9/26/2017	N	K1710333	132	-	-	132	-	-	-	-	-	0.050	U	-	32.9	-	-	14.7	-	-	0.40	-	-	6.71	-	-	5.47	-	-
DC-09	YVD-120417-09	12/4/2017	N	K1713026	129	-	-	129	-	-	-	-	-	0.050	U	-	33.0	-	-	15.1	-	-	0.43	-	-	6.50	-	-	5.80	-	-
DC-09	YVD-060418-25	6/4/2018	N	874860	127	-	-	127	-	-	0.070	U	-	-	-	-	33.4	-	-	14.1	-	-	0.39	-	-	7.30	-	-	5.29	-	-
DC-09	YVD-060319-19	6/3/2019	N	992053	128	-	-	128	-	-	0.070	U	-	-	-	-	34.5	-	-	13.1	-	-	0.39	-	-	7.25	-	-	5.23	-	-
DC-09	YVD-060920-25	6/9/2020	N	009269	128	--	--	128	--	--	0.070	U	--	-	-	--	34.0	--	--	14.4	--	--	0.35	--	--	7.150	--	--	5.60	--	--
DC-09	YVD-060721-15	6/7/2021	N	124105	129	--	--	129	--	--	0.070	U	--	-	-	--	34.4	--	--	14.8	--	--	0.38	--	--	7.350	--	--	6.20	--	--
DC-14	DC-14-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-
DC-14	DC-14-130917	09/17/2013	N	SWI0113	454	-	-	455	-	-	-	-	-	0.115	-	-	121	-	-	80.2	-	-	0.5	U	-	32.3	-	-	12	-	-
DC-14	DC-14-131211	12/11/2013	N	SWL0063	434	-	-	435	-	-	-	-	-	-	R	MSD	91.2	-	-	64.4	-	-	5	U	-	23.9	-	-	5.8	-	-
DC-14	DC-14-140318	03/18/2014	N	SXC0095	494	-	-	495	-	-	-	-	-	0.1	U	-	107	-	-	71.8	-	-	5	U	-	28.4	-	-	10.6	-	-
DC-14	DC-14-140602	06/02/2014	N	SXF0017	425	-	-	425	-	-	-	-	-	0.1	U	-	95.9	-	-	56.1	-	-	1	U	-	26.3	-	-	6.46	-	-
DC-14	DC-14-140923	09/23/2014	N	SXI0158	424	-	-	425	-	-	-	-	-	-	R	MSD	106	-	-	63.7	-	-	1	U	-	27.6	-	-	8.9	-	-
DC-14	DC-14-141216	12/16/2014	N	SXL0108	429	-	-	430	-	-	-	-	-	0.1	U	-	110	-	-	74.4	-	-	1	U	-	31.5	-	-	10.4	-	-
DC-14	DC-14-150316	03/16/2015	N	5904541	490	-	-	490	-	-	-	-	-	0.16	-	-	140	-	-	80	-	-	1	U	-	38.0	-	-	18	J-	MSD
DC-14	DC-14-150616	06/16/2015	N	59010961	430	-	-	430	-	-	-	-	-	0.1	U	-	120	-	-	76	-	-	1	U	-	33.0	-	-	12	-	-
DC-14	DC-14-150924	09/24/2015	N	59020391	470	-	-	470	-	-	-	-	-	0.1	UJ	MSD	130	-	-	96	-	-	1	U	-	42.0	-	-	22	J+	MSD
DC-14	DC-14-151214	12/14/2015	N	59025351	550	-	-	550	-	-	-	-	-	-	R	MSD	150	-	-	90	-	-	1	U	-	43.0	-	-	21	-	-
DC-14	YVD-D1-151214	12/14/2015	FD	59025351	540	-	-	540	-	-	-	-	-	-	R	MSD	150	-	-	85	-	-	0.5	U	-	43.0	-	-	22	-	-
DC-14	DC-14-160309	03/09/2016	N	59029711	490	-	-	490	-	-	-	-	-	0.1	UJ	FDP	130	-	-	82	-	-	1	U	-	38.0	-	-	16	-	-
DC-14	DC-14-160620	6/20/2016	N	59037151	460	-	-	460	-	-	-	-	-	0.1	U	-	120	-	-	75	-	-	1	U	-	36.0	-	-	16	-	-
DC-14	DC-14-160929	9/29/2016	N	K1611704	394	-	-	394	-	-	-	-	-	0.050	U	MBK	97.2	-	-	56.4	-	-	0.30	-	-	28.9	-	-	7.19	-	-
DC-14	DC-14-161216	12/16/2016	N	K1615174	361	-	-	361	-	-	-	-	-	0.050	U	-	93.3	-	-	53.9	-	-	0.36	-	-	22.3	-	-	4.45	-	-
DC-14	YVD-031317-38	3/14/2017	N	K1702542	359	-	-	359	-	-	-	-	-	0.050	U	-	91.0	-	-	49.6	-	-	0.34	-	-	24.4	-	-	4.34	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-14	YVD-060617-19	6/6/2017	N	K1705754	386	-	-	386	-	-	-	-	-	0.050	U	-	97.7	-	-	49.2	-	-	0.34	-	-	24.4	-	-	3.86	-	-
DC-14	YVD-092517-11	9/25/2017	N	K1710274	382	-	-	382	-	-	-	-	-	0.050	U	-	98.2	-	-	43.3	-	-	0.34	-	-	24.5	-	-	2.41	-	-
DC-14	YVD-120617-27	12/6/2017	N	K1713157	378	-	-	378	-	-	-	-	-	0.050	U	MBK	100	-	-	46.4	-	-	0.35	-	-	23.5	-	-	2.52	-	-
DC-14	YVD-120617-29	12/6/2017	FD	K1713157	372	-	-	372	-	-	-	-	-	0.050	U	-	97.7	-	-	46.0	-	-	0.34	-	-	22.8	-	-	2.52	-	-
DC-14	YVD-031918-20	3/19/2018	N	870634	372	-	-	372	-	-	0.070	U	-	-	-	-	95.0	-	-	47.9	-	-	0.31	-	-	22.55	-	-	2.86	-	-
DC-14	YVD-060518-28	6/5/2018	N	874860	370	-	-	370	-	-	0.070	U	-	-	-	-	92.0	-	-	56.5	-	-	0.31	-	-	23.45	-	-	4.00	-	-
DC-14	YVD-060518-30	6/5/2018	FD	874860	-	R	PRS	-	R	PRS	0.070	U	-	-	-	-	97.5	-	-	-	R	PRS	-	R	PRS	24.55	-	-	-	R	PRS
DC-14	YVD-090918-08	9/9/2018	N	880601	368	-	-	368	-	-	0.070	U	-	-	-	-	104	-	-	63.5	-	-	0.29	-	-	25.00	-	-	4.08	-	-
DC-14	YVD-090918-10	9/9/2018	FD	880601	363	-	-	363	-	-	0.070	U	-	-	-	-	105	-	-	70.8	-	-	0.29	-	-	25.05	-	-	4.00	-	-
DC-14	YVD-121018-07	12/10/2018	N	884857	376	-	-	376	-	-	0.070	U	-	-	-	-	105	-	-	72.8	-	-	0.28	U	FBK	25.70	J	MSD	4.60	-	-
DC-14	YVD-031719-09	3/17/2019	N	988239	395	-	-	395	-	-	0.070	U	-	-	-	-	118	-	-	83.8	-	-	0.25	U	FBK	27.80	-	-	5.00	-	-
DC-14	YVD-060319-17	6/3/2019	N	992053	395	-	-	395	-	-	0.070	U	-	-	-	-	122	-	-	79.7	-	-	0.22	-	-	29.65	-	-	5.35	-	-
DC-14	YVD-091019-18	9/10/2019	N	998438	427	-	-	427	-	-	0.070	U	-	-	-	-	132	-	-	89.5	-	-	0.24	-	-	32.25	-	-	7.70	-	-
DC-14	YVD-120919-14	12/9/2019	N	902276	438	-	-	438	-	-	0.070	U	-	-	-	-	134	-	-	95.2	-	-	0.32	-	-	32.85	-	-	8.00	-	-
DC-14	YVD-033120-19	3/31/2020	N	006260	451	-	-	451	-	-	0.070	U	-	-	-	-	134	-	-	87.6	-	-	0.24	--	--	32.50	-	-	9.50	-	-
DC-14	YVD-033120-21	3/31/2020	FD	006260	448	-	-	448	-	-	0.070	U	-	-	-	-	136	-	-	87.7	-	-	0.26	--	--	33.05	-	-	9.60	-	-
DC-14	YVD-061020-32	6/10/2020	N	009361	437	--	--	437	--	--	0.070	U	--	-	-	-	138	--	--	84.9	--	--	0.23	--	--	33.70	J	MS	11.5	--	--
DC-14	YVD-061020-33	6/10/2020	FD	009361	461	--	--	461	--	--	0.070	U	--	-	-	-	139	--	--	87.3	--	--	0.22	--	--	33.25	J	MS	12.0	--	--
DC-14	YVD-092120-23	9/21/2020	N	013896	472	--	--	472	--	--	0.070	U	--	-	-	-	150	--	--	90.5	--	--	0.21	--	--	36.10	--	--	17.3	--	--
DC-14	YVD-120820-21	12/8/2020	N	017137	496	--	--	496	--	--	0.070	U	--	-	-	-	174	--	--	89.4	--	--	0.18	--	--	41.50	--	--	23.6	--	--
DC-14	YVD-030121-09	3/1/2021	N	119931	517	--	--	517	--	--	0.070	U	--	-	-	-	186	--	--	90.9	--	--	0.24	--	--	44.30	--	--	31.2	--	--
DC-14	YVD-060821-33	6/8/2021	N	124212	563	--	--	563	--	--	0.070	U	--	-	-	-	196	--	--	93.4	--	--	0.14	--	--	47.05	--	--	40.2	--	--
YVD-02	YVD-02-130924	09/24/2013	N	SWI0178	54.9	-	-	55	-	-	-	-	-	0.146	-	-	20.4	-	-	3.85	-	-	0.5	U	-	5.9	-	-	0.41	-	-
YVD-02	YVD-02-140316	03/16/2014	N	SXC0081	199	-	-	200	-	-	-	-	-	0.1	U	-	90.8	-	-	3.93	-	-	1.02	-	-	71.7	-	-	0.2	U	-
YVD-02	YVD-02-140602	06/02/2014	N	SXF0008	82.2	-	-	82.5	-	-	-	-	-	0.1	U	-	62.7	-	-	2.75	-	-	0.5	U	-	48.7	-	-	0.2	U	-
YVD-02	YVD-02-140921	09/21/2014	N	SXI0148	89.4	-	-	90	-	-	-	-	-	0.1	U	-	29.6	-	-	2.64	-	-	0.5	U	-	13.7	J	FDP	0.2	U	-
YVD-02	YVD-D1-140921	09/21/2014	FD	SXI0148	89.4	-	-	90	-	-	-	-	-	0.1	U	-	35.8	-	-	2.2	-	-	0.5	U	-	18.2	J	FDP	0.2	U	-
YVD-02	YVD-02-141215	12/15/2014	N	SXL0103	94.7	-	-	95	-	-	-	-	-	0.1	U	-	35.7	-	-	2.9	J+	MSD	0.5	U	-	17.4	-	-	0.22	J	DUP
YVD-02	YVD-02-150615	06/15/2015	N	59010751	75	J+	FBK	75	J+	FBK	-	-	-	0.11	-	-	32.0	J+	MSD	2.6	-	-	0.5	U	-	16.0	J+	MSD	0.23	-	-
YVD-02	YVD-02-150923	09/23/2015	N	59020281	95	-	-	95	-	-	-	-	-	0.1	U	-	28.0	-	-	2.5	-	-	0.5	U	-	17.0	-	-	0.2	U	-
YVD-02	YVD-02-151214	12/14/2015	N	59025351	100	-	-	100	-	-	-	-	-	-	R	MSD	38.0	-	-	2.6	-	-	0.5	U	-	23.0	-	-	0.2	U	-
YVD-02	YVD-02-160308	03/08/2016	N	59029521	110	J	FDP	110	J	FDP	-	-	-	0.1	UJ	RPD	32.0	-	-	3	-	-	0.57	-	-	20.0	-	-	0.2	U	-
YVD-02	YVD-02-160620	6/20/2016	N	59037101	75	-	-	75	-	-	-	-	-	0.1	U	-	25.0	-	-	2.9	-	-	0.5	U	-	10.0	-	-	0.31	-	-
YVD-02	YVD-02-160928	9/28/2016	N	K1611629	72	-	-	72	-	-	-	-	-	0.050	U	MBK	17.2	-	-	2.79	J	DUP	0.16	J	-	4.6	-	-	0.13	-	-
YVD-02	YVD-030817-15	3/8/2017	N	K1702324	103	-	-	103	-	-	-	-	-	1	U	-	30.2	-	-	3.85	-	-	0.21	-	-	7.2	-	-	5.40	-	-
YVD-02	YVD-060617-14	6/6/2017	N	K1705754	81	-	-	81	-	-	-	-	-	0.050	U	-	20.9	-	-	3.03	-	-	0.16	J	-	4.85	-	-	0.20	-	-
YVD-02	YVD-060617-16	6/6/2017	FD	K1705754	67	-	-	67	-	-	-	-	-	0.050	U	-	20.2	-	-	2.95	-	-	0.15	J	-	4.74	-	-	0.20	-	-
YVD-02	YVD-092617-20	9/26/2017	N	K1710333	75	-	-	75	-	-	-	-	-	0.050	U	-	17.7	-	-	2.63	-	-	0.15	J	-	4.64	-	-	0.17	-	-
YVD-02	YVD-120417-02	12/4/2017	N	K1713026	89	-	-	89	-	-	-	-	-	0.050	U	-	20.0	-	-	2.37	-	-	0.29	-	-	7.43	-	-	0.22	-	-
YVD-02	YVD-120417-04	12/4/2017	FD	K1713026	93	-	-	93	-	-	-	-	-	0.050	U	-	19.6	-	-	2.20	-	-	0.31	-	-	7.74	-	-	0.20	-	-
YVD-02	YVD-061218-32	6/12/2018	N	875438	-	R	NR	-	R	NR	-	R	NR	-	-	-	-	R	NR	-	R	NR	-	R	NR	-	R	NR	-	R	NR
YVD-02	YVD-060419-28	6/4/2019	N	992242	191	-	-	191	-	-	0.07	U	-	-	-	-	54.0	-	-	12.5	-	-	0.18	-	-	19.55	-	-	33.9	J	HTQ
YVD-02	YVD-070219-33	7/2/2019	N	994356	204	-	-	204	-	-	0.07	U	-	-	-	-	87.0	-	-	13.0	-	-	0.19	-	-	32.35	-	-	36.1	-	-
YVD-02	YVD-091019-19	9/10/2019	N	998438	200	-	-	200	-	-	0.07	U	-	-	-	-	97.0	-	-	11.3	-	-	0.13	-	-	26.95	-	-	43.6	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-02	YVD-121019-23	12/10/2019	N	902321	226	-	-	226	-	-	0.07	U	-	-	-	-	85.0	-	-	11.6	-	-	0.33	-	-	31.60	-	-	38.9	-	-
YVD-02	YVD-040120-23	4/1/2020	N	006311	237	-	-	237	-	-	0.07	U	-	-	-	-	59.5	-	-	11.7	-	-	0.55	--	--	25.40	-	-	20.6	-	-
YVD-02	YVD-061120-35	6/11/2020	N	009430	NS	--	--	NS	--	--	NS	--	--	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--	15.5	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	NS	--	--	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	NS	--	--	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	NS	--	--	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	NS	--	--	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	NS	--	--	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-03	YVD-03-130916	09/16/2013	N	SWI0113	209	-	-	210	-	-	-	-	-	0.1	U	-	57.5	-	-	14	-	-	0.74	-	-	24.3	-	-	4.75	-	-
YVD-03	YVD-03-131210	12/10/2013	N	SWL0063	214	-	-	215	-	-	-	-	-	-	R	MSD	48.7	-	-	14.3	-	-	1	U	-	20.4	-	-	5.96	-	-
YVD-03	YVD-03-140317	03/17/2014	N	SXC0081	219	-	-	220	-	-	-	-	-	0.249	-	-	51.2	-	-	13.3	-	-	1.03	-	-	18.2	-	-	4.75	-	-
YVD-03	YVD-03-140602	06/02/2014	N	SXF0008	206	-	-	208	-	-	-	-	-	0.1	U	-	46.4	-	-	10.7	-	-	0.5	U	-	16.8	-	-	3.86	-	-
YVD-03	YVD-03-140923	09/23/2014	N	SXI0158	199	-	-	200	-	-	-	-	-	-	R	MSD	52.2	-	-	11.8	-	-	0.62	-	-	19.5	-	-	3.97	-	-
YVD-03	YVD-D3-140923	09/23/2014	FD	SXI0158	199	-	-	200	-	-	-	-	-	-	R	MSD	45.4	-	-	12.1	-	-	0.65	-	-	16.2	-	-	4.04	-	-
YVD-03	YVD-03-141215	12/15/2014	N	SXL0108	199	-	-	200	-	-	-	-	-	0.1	U	-	51.7	-	-	12.9	-	-	0.54	-	-	19.3	-	-	4.27	-	-
YVD-03	YVD-03-150316	03/16/2015	N	5904541	210	-	-	210	-	-	-	-	-	0.1	U	-	46.0	-	-	13	-	-	0.84	-	-	17.0	-	-	4.1	J-	MSD
YVD-03	YVD-03-150616	06/16/2015	N	59010751	200	-	-	200	-	-	-	-	-	0.12	-	-	50.0	J+	MSD	12	-	-	0.68	-	-	20.0	J+	MSD	4	-	-
YVD-03	YVD-03-150922	09/22/2015	N	59020141	220	-	-	220	-	-	-	-	-	0.1	U	-	43.0	-	-	14	-	-	0.66	-	-	19.0	-	-	4.9	-	-
YVD-03	YVD-03-151214	12/14/2015	N	59025351	230	-	-	230	-	-	-	-	-	-	R	MSD	49.0	-	-	14	-	-	0.74	-	-	22.0	-	-	4.9	-	-
YVD-03	YVD-03-160307	03/07/2016	N	59029521	150	J	FDP	150	J	FDP	-	-	-	0.1	UJ	RPD	43.0	-	-	13	-	-	0.72	-	-	20.0	-	-	4.6	-	-
YVD-03	YVD-03-160620	6/20/2016	N	59037151	190	-	-	190	-	-	-	-	-	0.1	U	-	46.0	-	-	14	-	-	0.76	-	-	21.0	-	-	4.6	-	-
YVD-03	YVD-03-160929	9/29/2016	N	K1611758	196	-	-	196	-	-	-	-	-	0.050	U	MBK	43.2	-	-	11.7	-	-	0.61	-	-	18.3	-	-	4.39	-	-
YVD-03	YVD-03-161213	12/13/2016	N	K1615045	189	-	-	189	-	-	-	-	-	0.050	U	-	40.0	-	-	11.6	-	-	0.69	-	-	17.4	-	-	4.47	-	-
YVD-03	YVD-030617-02	3/6/2017	N	K1702228	190	-	-	190	-	-	-	-	-	0.050	U	-	41.6	-	-	11.4	-	-	0.60	-	-	17.3	-	-	4.42	-	-
YVD-03	YVD-030617-03	3/6/2017	FD	K1702228	192	-	-	192	-	-	-	-	-	0.050	U	-	41.5	-	-	11.6	-	-	0.65	-	-	17.3	-	-	4.48	-	-
YVD-03	YVD-060517-13	6/5/2017	N	K1705702	189	-	-	189	-	-	-	-	-	0.050	U	-	41.9	-	-	11.9	-	-	0.66	-	-	18.1	-	-	4.61	-	-
YVD-03	YVD-092517-05	9/25/2017	N	K1710274	193	-	-	193	-	-	-	-	-	0.050	U	-	41.6	-	-	11.6	-	-	0.66	-	-	18.7	-	-	4.45	-	-
YVD-03	YVD-120517-19	12/5/2017	N	K1713091	181	-	-	181	-	-	-	-	-	0.050	U	-	41.9	-	-	11.1	-	-	0.64	-	-	17.4	-	-	4.52	-	-
YVD-03	YVD-060518-27	6/5/2018	N	874860	188	-	-	188	-	-	0.070	U	-	-	-	-	39.0	-	-	11.3	-	-	0.62	-	-	17.4	-	-	4.70	-	-
YVD-03	YVD-060219-07	6/2/2019	N	991939	185	-	-	185	-	-	0.070	U	-	-	-	-	40.3	-	-	8.19	U	FBK	0.44	U	FBK	17.2	-	-	3.16	-	-
YVD-03	YVD-060820-09	6/8/2020	N	009144	184	--	--	184	--	--	0.070	U	--	-	-	-	40.5	--	--	11.6	--	--	0.56	--	--	17.55	--	--	5.20	--	--
YVD-03	YVD-060821-24	6/8/2021	N	124212	182	--	--	182	--	--	0.070	U	--	-	-	-	42.2	--	--	8.09	--	--	0.37	--	--	17.75	--	--	3.23	--	--
YVD-04	YVD-04-130916	09/16/2013	N	SWI0113	184	-	-	185	-	-	-	-	-	0.1	U	-	37.4	-	-	14.9	-	-	0.5	U	-	11.2	-	-	4.45	-	-
YVD-04	YVD-04-131210	12/10/2013	N	SWL0063	203	-	-	205	-	-	-	-	-	-	R	MSD	38.2	-	-	15	-	-	1	U	-	11.7	-	-	4.64	-	-
YVD-04	YVD-04-140317	03/17/2014	N	SXC0081	209	-	-	210	-	-	-	-	-	0.1	U	-	37.7	-	-	15.1	-	-	0.63	-	-	11.6	-	-	4.03	-	-
YVD-04	YVD-04-140602	06/02/2014	N	SXF0008	191	-	-	193	-	-	-	-	-	0.113	-	-	36.8	-	-	14.3	-	-	1	U	-	11.5	-	-	3.78	-	-
YVD-04	YVD-04-140923	09/23/2014	N	SXI0158	188	-	-	190	-	-	-	-	-	-	R	MSD	37.8	-	-	15.3	-	-	0.5	U	-	11.5	-	-	3.87	-	-
YVD-04	YVD-04-141215	12/15/2014	N	SXL0108	188	-	-	190	-	-	-	-	-	0.1	U	-	38.8	-	-	15.2	-	-	0.5	U	-	12.4	-	-	3.81	-	-
YVD-04	YVD-04-150315	03/15/2015	N	5904471	190	-	-	190	-	-	-	-	-	0.1	U	-	38.0	-	-	16	-	-	0.5	U	-	12.0	-	-	4.3	-	-
YVD-04	YVD-04-150615	06/15/2015	N	59010751	190	-	-	190	-	-	-	-	-	0.1	U	-	38.0	J+	MSD	15	-	-	0.5	U	-	8.5	J+	MSD	4	-	-
YVD-04	YVD-04-150922	09/22/2015	N	59020141	200	-	-	200	-	-	-	-	-	0.13	-	-	36.0	-	-	15	-	-	0.5	U	-	11.0	-	-	3.9	-	-
YVD-04	YVD-04-151213	12/13/2015	N	59025351	200	-	-	200	-	-	-	-	-	-	R	MSD	39.0	-	-	15	-	-	0.5	U	-	12.0	-	-	4.1	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-04	YVD-04-160307	03/07/2016	N	59029521	250	J	FDP	250	J	FDP	-	-	-	0.1	UJ	RPD	36.0	-	-	14	-	-	0.5	U	-	12.0	-	-	3.7	-	-
YVD-04	YVD-04-160620	6/20/2016	N	59037101	190	-	-	190	-	-	-	-	-	0.1	U	-	36.0	-	-	15	-	-	0.5	U	-	12.0	-	-	4	-	-
YVD-04	YVD-D1-160620	6/20/2016	FD	59037101	180	-	-	180	-	-	-	-	-	0.1	U	-	35.0	-	-	15	-	-	0.5	U	-	12.0	-	-	4	-	-
YVD-04	YVD-04-160928	9/28/2016	N	K1611629	187	-	-	187	-	-	-	-	-	0.050	U	-	34.7	-	-	13.2	-	-	0.21	-	-	10.7	-	-	3.67	-	-
YVD-04	YVD-04-D3-160928	9/28/2016	FD	K1611629	185	-	-	185	-	-	-	-	-	0.050	U	MBK	34.7	-	-	13.2	-	-	0.20	-	-	10.9	-	-	3.68	-	-
YVD-04	YVD-04-161213	12/13/2016	N	K1615045	181	-	-	181	-	-	-	-	-	0.050	U	-	35.2	-	-	13.2	-	-	0.23	-	-	10.9	-	-	3.74	-	-
YVD-04	YVD-031017-28	3/10/2017	N	K1702448	167	-	-	167	-	-	-	-	-	0.050	U	-	37.8	-	-	13.2	-	-	0.21	-	-	10.9	-	-	3.70	-	-
YVD-04	YVD-060517-11	6/5/2017	N	K1705702	182	-	-	182	-	-	-	-	-	0.050	U	-	36.5	-	-	13.0	-	-	0.22	-	-	9.85	-	-	3.53	-	-
YVD-04	YVD-092517-07	9/25/2017	N	K1710274	188	-	-	188	-	-	-	-	-	0.050	U	-	37.2	-	-	12.9	-	-	0.21	-	-	11.7	-	-	3.57	-	-
YVD-04	YVD-120417-13	12/4/2017	N	K1713091	185	-	-	185	-	-	-	-	-	0.050	U	-	36.5	-	-	13.2	-	-	0.24	-	-	10.9	-	-	3.79	-	-
YVD-04	YVD-060418-21	6/4/2018	N	874662	179	-	-	179	-	-	0.08	U	FBK	-	-	-	37.0	-	-	12.3	-	-	0.19	-	-	11.65	-	-	4.10	-	-
YVD-04	YVD-060219-05	6/2/2019	N	991939	181	-	-	181	-	-	0.070	U	-	-	-	-	36.2	-	-	22.9	U	FBK	0.79	U	FBK	11.10	-	-	3.85	-	-
YVD-04	YVD-060820-05	6/8/2020	N	009144	182	--	--	182	--	--	0.070	U	--	-	-	-	34.9	--	--	12.7	--	--	0.16	--	--	10.90	--	--	4.10	--	--
YVD-04	YVD-060821-22	6/8/2021	N	124212	182	--	--	182	--	--	0.070	U	--	-	-	-	35.4	--	--	12.5	--	--	0.16	--	--	10.65	--	--	3.73	--	--
YVD-05	YVD-05-130917	09/17/2013	N	SWI0113	184	-	-	185	-	-	-	-	-	0.112	-	-	66.0	-	-	10.2	-	-	0.5	U	-	31.0	-	-	4.9	-	-
YVD-05	YVD-05-131211	12/11/2013	N	SWL0063	174	-	-	175	-	-	-	-	-	-	R	MSD	41.5	-	-	10	-	-	1	U	-	17.0	-	-	4.36	-	-
YVD-05	YVD-05-140317	03/17/2014	N	SXC0081	174	-	-	175	-	-	-	-	-	0.1	U	-	33.7	-	-	8.4	-	-	1.3	-	-	13.5	-	-	3.3	-	-
YVD-05	YVD-05-140601	06/01/2014	N	SXF0008	164	-	-	165	-	-	-	-	-	0.1	U	-	30.8	-	-	8.4	-	-	1	U	-	13.2	-	-	3	-	-
YVD-05	YVD-05-140922	09/22/2014	N	SXI0148	159	-	-	160	-	-	-	-	-	0.1	U	-	31.6	-	-	7.6	-	-	1	U	-	13.7	-	-	2.82	-	-
YVD-05	YVD-05-141215	12/15/2014	N	SXL0103	154	-	-	155	-	-	-	-	-	0.1	U	-	36.9	-	-	4.56	J+	MSD, FDP	1	U	-	17.0	-	-	1.5	J	FDP, DUP
YVD-05	YVD-D1-141215	12/15/2014	FD	SXL0103	153	-	-	155	-	-	-	-	-	0.1	U	-	34.2	-	-	7.8	J+	MSD, FDP	0.5	U	-	15.0	-	-	2.65	J	FDP, DUP
YVD-05	YVD-05-150316	03/16/2015	N	5904471	160	-	-	160	-	-	-	-	-	0.1	U	-	33.0	-	-	8	-	-	1	U	-	15.0	-	-	2.8	-	-
YVD-05	YVD-05-150616	06/16/2015	N	59010751	170	-	-	170	-	-	-	-	-	0.1	U	-	35.0	J+	MSD	8.9	-	-	1	U	-	16.0	J+	MSD	3.1	-	-
YVD-05	YVD-05-150922	09/22/2015	N	59020281	160	-	-	160	-	-	-	-	-	0.1	U	-	42.0	-	-	8.8	-	-	1	U	-	20.0	-	-	3	-	-
YVD-05	YVD-05-151214	12/14/2015	N	59025351	180	-	-	180	-	-	-	-	-	-	R	MSD	37.0	-	-	7.9	-	-	1	U	-	17.0	-	-	2.8	-	-
YVD-05	YVD-05-160307	03/07/2016	N	59029521	160	J	FDP	160	J	FDP	-	-	-	0.1	UJ	RPD	32.0	-	-	8.3	-	-	1	U	-	15.0	-	-	2.7	-	-
YVD-05	YVD-D1-160307	03/07/2016	FD	59029521	170	J	FDP	170	J	FDP	-	-	-	0.1	UJ	RPD	32.0	-	-	8.7	-	-	0.59	-	-	15.0	-	-	2.9	-	-
YVD-05	YVD-05-160620	6/20/2016	N	59037151	170	-	-	170	-	-	-	-	-	0.1	U	-	31.0	-	-	9.1	-	-	1	U	-	14.0	-	-	3	-	-
YVD-05	YVD-05-160928	9/28/2016	N	K1611698	171	-	-	171	-	-	-	-	-	0.050	U	MBK	32.1	-	-	8.37	-	-	0.44	-	-	13.8	-	-	3.12	-	-
YVD-05	YVD-05-161215	12/15/2016	N	K1615174	163	-	-	163	-	-	-	-	-	0.050	U	-	33.3	-	-	8.30	-	-	0.48	-	-	13.1	-	-	3.15	-	-
YVD-05	YVD-031317-32	3/13/2017	N	K1702489	166	-	-	166	-	-	-	-	-	0.050	U	-	31.4	-	-	7.89	-	-	0.49	-	-	14.1	-	-	2.88	-	-
YVD-05	YVD-031317-34	3/13/2017	FD	K1702489	168	-	-	168	-	-	-	-	-	0.050	U	-	31.4	-	-	7.92	-	-	0.48	-	-	14.0	-	-	2.91	-	-
YVD-05	YVD-060617-23	6/6/2017	N	K1705754	168	-	-	168	-	-	-	-	-	0.050	U	-	31.6	-	-	8.12	-	-	0.47	-	-	13.9	-	-	2.90	-	-
YVD-05	YVD-092517-09	9/25/2017	N	K1710274	173	-	-	173	-	-	-	-	-	0.050	U	-	35.3	-	-	8.01	-	-	0.47	-	-	14.6	-	-	2.82	-	-
YVD-05	YVD-120517-15	12/5/2017	N	K1713091	171	-	-	171	-	-	-	-	-	0.050	U	MBK	31.3	-	-	7.92	-	-	0.51	-	-	13.5	-	-	2.81	-	-
YVD-05	YVD-060518-29	6/5/2018	N	874860	170	-	-	170	-	-	0.070	U	-	-	-	-	31.6	-	-	8.29	-	-	0.44	-	-	14.15	-	-	2.79	-	-
YVD-05	YVD-060219-09	6/2/2019	N	991939	176	-	-	176	-	-	0.070	U	-	-	-	-	33.2	-	-	6.43	U	FBK	0.31	U	FBK	14.35	-	-	2.18	-	-
YVD-05	YVD-060920-15	6/9/2020	N	009269	182	--	--	182	--	--	0.070	U	--	-	-	-	35.4	--	--	9.24	--	--	0.39	--	--	15.40	--	--	3.88	--	--
YVD-05	YVD-060821-26	6/8/2021	N	124212	198	--	--	198	--	--	0.070	U	--	-	-	-	39.6	--	--	11.0	--	--	0.68	--	--	17.30	--	--	4.50	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-06	YVD-06-130917	09/17/2013	N	SWI0113	149	-	-	150	-	-	-	-	-	0.1	U	-	46.0	-	-	3.13	-	-	0.5	U	-	12.8	-	-	0.51	-	-
YVD-06	YVD-06-131209	12/09/2013	N	SWL0055	154	-	-	155	-	-	-	-	-	0.02	UJ	MSD	31.2	J	FDP	2.73	-	-	0.5	U	-	5.3	J	FDP	0.49	J	FDP
YVD-06	YVD-D1-131209	12/09/2013	FD	SWL0055	159	-	-	160	-	-	-	-	-	0.02	UJ	MSD	38.9	J	FDP	8	U	-	5	U	-	6.6	J	FDP	6.4	J	FDP
YVD-06	YVD-06-140316	03/16/2014	N	SXC0081	174	-	-	175	-	-	-	-	-	0.1	U	-	40.1	-	-	3.47	-	-	0.58	-	-	7.6	-	-	0.61	-	-
YVD-06	YVD-D1-140316	03/16/2014	FD	SXC0081	159	-	-	160	-	-	-	-	-	0.1	U	-	40.5	-	-	3.16	-	-	0.55	-	-	7.8	-	-	0.62	-	-
YVD-06	YVD-06-140601	06/01/2014	N	SXF0008	156	-	-	158	-	-	-	-	-	0.172	-	-	37.8	-	-	2.88	J	DUP	0.5	U	-	6.5	-	-	0.51	-	-
YVD-06	YVD-D1-140601	06/01/2014	FD	SXF0008	153	-	-	155	-	-	-	-	-	0.1	U	-	38.3	-	-	2.95	-	-	0.5	U	-	6.6	-	-	0.56	-	-
YVD-06	YVD-06-140921	09/21/2014	N	SXI0148	149	-	-	150	-	-	-	-	-	0.139	-	-	41.3	-	-	2.45	-	-	0.5	U	-	8.5	-	-	0.44	-	-
YVD-06	YVD-06-141215	12/15/2014	N	SXL0103	149	-	-	150	-	-	-	-	-	0.1	U	-	40.3	-	-	2.5	J+	MSD	0.5	U	-	7.8	-	-	0.45	J	DUP
YVD-06	YVD-06-150316	03/16/2015	N	5904471	150	-	-	150	-	-	-	-	-	0.1	U	-	38.0	-	-	2.8	-	-	0.5	U	-	6.8	-	-	0.99	-	-
YVD-06	YVD-06-150616	06/16/2015	N	59010751	150	-	-	150	-	-	-	-	-	0.1	U	-	40.0	J+	MSD	2.7	-	-	0.5	U	-	7.0	J+	MSD	0.53	-	-
YVD-06	YVD-06-150922	09/22/2015	N	59020141	170	-	-	170	-	-	-	-	-	0.11	-	-	41.0	-	-	2.8	-	-	0.5	U	-	9.8	-	-	0.51	-	-
YVD-06	YVD-06-151214	12/14/2015	N	59025351	170	-	-	170	-	-	-	-	-	-	R	MSD	42.0	-	-	2.4	-	-	0.5	U	-	7.3	-	-	0.51	-	-
YVD-06	YVD-06-160307	03/07/2016	N	59029521	160	J	FDP	160	J	FDP	-	-	-	0.1	UJ	RPD	38.0	-	-	2.8	-	-	0.5	U	-	7.2	-	-	0.51	-	-
YVD-06	YVD-06-160620	6/20/2016	N	59037151	150	-	-	150	-	-	-	-	-	0.1	U	-	37.0	-	-	3.1	-	-	0.5	U	-	6.6	-	-	0.53	-	-
YVD-06	YVD-06-160929	9/29/2016	N	K1611704	145	-	-	145	-	-	-	-	-	0.050	U	MBK	35.7	-	-	2.64	-	-	0.20	-	-	6.1	-	-	0.55	-	-
YVD-06	YVD-06-161215	12/15/2016	N	K1615126	136	-	-	136	-	-	-	-	-	0.050	U	-	33.5	-	-	3.14	-	-	0.23	-	-	5.7	-	-	0.70	-	-
YVD-06	YVD-030617-04	3/6/2017	N	K1702228	142	-	-	142	-	-	-	-	-	0.021	J	-	35.2	-	-	2.83	-	-	0.29	-	-	5.8	-	-	0.61	-	-
YVD-06	YVD-060617-21	6/6/2017	N	K1705754	144	-	-	144	-	-	-	-	-	0.050	U	-	36.9	-	-	2.54	-	-	0.19	J	-	6.07	-	-	0.51	-	-
YVD-06	YVD-092617-17	9/26/2017	N	K1710333	140	-	-	140	-	-	-	-	-	0.050	U	-	35.0	-	-	2.94	-	-	0.23	-	-	5.82	-	-	0.62	-	-
YVD-06	YVD-092617-18	9/26/2017	FD	K1710333	140	-	-	140	-	-	-	-	-	0.050	U	-	34.6	-	-	2.95	-	-	0.22	-	-	5.77	-	-	0.62	-	-
YVD-06	YVD-120517-17	12/5/2017	N	K1713091	137	-	-	137	-	-	-	-	-	0.050	U	MBK	34.7	-	-	3.23	-	-	0.25	-	-	5.81	-	-	0.73	-	-
YVD-06	YVD-060318-15	6/3/2018	N	874568	138	-	-	138	-	-	0.09	U	FBK	-	-	-	37.5	-	-	2.69	-	-	0.18	-	-	6.45	-	-	0.56	-	-
YVD-06	YVD-060219-11	6/2/2019	N	991939	134	-	-	134	-	-	0.070	U	-	-	-	-	35.6	-	-	2.50	U	FBK	0.15	U	FBK	6.05	-	-	0.51	-	-
YVD-06	YVD-060920-17	6/9/2020	N	009269	132	--	--	132	--	--	0.070	U	--	-	-	-	34.2	--	--	3.20	--	--	0.17	--	--	5.900	--	--	0.70	--	--
YVD-06	YVD-060721-19	6/7/2021	N	124105	160	--	--	160	--	--	0.070	U	--	-	-	-	34.0	--	--	4.95	--	--	0.25	--	--	5.900	--	--	0.67	--	--
YVD-07	YVD-07-130923	09/23/2013	N	SWI0178	79.4	-	-	80	-	-	-	-	-	0.1	U	-	27.7	-	-	-	-	-	-	-	-	16.2	-	-	-	-	-
YVD-07	YVD-07-130926	09/26/2013	N	SWI0190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.53	-	-	0.5	U	-	-	-	-	4.4	-	-	
YVD-07	YVD-07-131210	12/10/2013	N	SWL0055	135	-	-	135	-	-	-	-	-	0.02	UJ	MSD	99.2	-	-	8.46	-	-	0.55	-	-	16.0	-	-	5.3	-	-
YVD-07	YVD-07-140316	03/16/2014	N	SXC0081	134	-	-	135	-	-	-	-	-	0.116	-	-	33.4	-	-	11.6	-	-	0.83	-	-	14.1	-	-	3.9	-	-
YVD-07	YVD-07-140604	06/04/2014	N	SXF0025	137	-	-	138	-	-	-	-	-	0.1	U	-	38.4	-	-	9.74	-	-	1	U	-	18.3	-	-	3.36	-	-
YVD-07	YVD-07-140922	09/22/2014	N	SXI0158	134	-	-	135	-	-	-	-	-	-	R	MSD	31.4	-	-	10.3	-	-	1	U	-	12.7	-	-	5.52	-	-
YVD-07	YVD-07-141216	12/16/2014	N	SXL0108	133	-	-	135	-	-	-	-	-	0.1	U	-	29.9	-	-	8.76	-	-	1	U	-	12.2	-	-	2.92	-	-
YVD-07	YVD-07-150316	03/16/2015	N	5904541	140	-	-	140	-	-	-	-	-	0.1	U	-	37.0	-	-	15	-	-	1	U	-	15.0	-	-	4	J-	MSD
YVD-07	YVD-D2-150316	03/16/2015	FD	5904541	140	-	-	140	-	-	-	-	-	0.1	U	-	35.0	-	-	16	-	-	0.65	-	-	14.0	-	-	4.2	J-	MSD
YVD-07	YVD-07-150616	06/16/2015	N	59010751	150	-	-	150	-	-	-	-	-	0.1	U	-	34.0	J+	MSD	13	-	-	0.5	U	-	14.0	J+	MSD	3.3	-	-
YVD-07	YVD-D1-150616	06/16/2015	FD	59010751	140	-	-	140	-	-	-	-	-	0.1	U	-	35.0	J+	MSD	14	-	-	0.5	U	-	14.0	J+	MSD	3.5	-	-
YVD-07	YVD-07-150923	09/23/2015	N	59020281	160	-	-	160	-	-	-	-	-	0.22	-	-	33.0	-	-	9.9	-	-	1	U	-	14.0	-	-	4.7	-	-
YVD-07	YVD-07-151214	12/14/2015	N	59025431	140	J	FDP	140	J	FDP	-	-	-	-	R	MSD	30.0	-	-	6.7	-	-	1	U	-	13.0	-	-	2.4	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-07	YVD-07-160308	03/08/2016	N	59029711	140	-	-	140	-	-	-	-	-	1.1	J+	FBK, FDP	25.0	-	-	6.7	-	-	1	U	-	11.0	-	-	1.8	-	-
YVD-07	YVD-07-160621	6/21/2016	N	59037151	100	-	-	100	-	-	-	-	-	0.1	U	-	19.0	-	-	6.2	-	-	1	U	-	9.0	-	-	1.2	-	-
YVD-07	YVD-07-160929	9/29/2016	N	K1611704	113	-	-	113	-	-	-	-	-	0.050	U	MBK	17.8	-	-	5.3	-	-	0.40	-	-	7.14	-	-	1.37	-	-
YVD-07	YVD-07-161213	12/13/2016	N	K1615083	120	-	-	120	-	-	-	-	-	0.050	U	-	25.9	-	-	6.38	-	-	0.40	-	-	10.2	-	-	2.15	-	-
YVD-07	YVD-030717-07	3/7/2017	N	K1702324	107	-	-	107	-	-	-	-	-	1	U	-	17.6	-	-	5.34	-	-	0.43	-	-	6.47	-	-	1.74	J	HTQ
YVD-07	YVD-060517-15	6/5/2017	N	K1705754	105	-	-	105	-	-	-	-	-	0.050	U	-	19.4	-	-	6.07	-	-	0.39	-	-	7.31	-	-	2.07	-	-
YVD-07	YVD-092617-21	9/26/2017	N	K1710333	116	-	-	116	-	-	-	-	-	0.050	U	-	25.4	-	-	7.45	-	-	0.35	-	-	9.27	-	-	3.47	-	-
YVD-07	YVD-120417-11	12/4/2017	N	K1713026	130	-	-	130	-	-	-	-	-	0.050	U	-	29.5	-	-	8.32	-	-	0.37	-	-	11.1	-	-	4.40	-	-
YVD-07	YVD-060418-23	6/4/2018	N	874662	126	-	-	126	-	-	0.47	U	FBK	-	-	-	34.0	-	-	10.5	-	-	0.30	-	-	13.35	-	-	3.34	-	-
YVD-07	YVD-060319-16	6/3/2019	N	992053	127	-	-	127	-	-	0.070	U	-	-	-	-	31.0	-	-	5.83	-	-	0.17	-	-	11.75	-	-	1.86	-	-
YVD-07	YVD-060920-27	6/9/2020	N	009269	145	--	--	145	--	--	0.070	U	--	-	-	-	33.8	--	--	8.90	--	--	0.29	--	--	13.70	--	--	4.86	--	--
YVD-07	YVD-060821-34	6/8/2021	N	124212	142	--	--	142	--	--	0.070	U	--	-	-	-	33.1	--	--	7.68	--	--	0.22	--	--	13.45	--	--	3.34	--	--
YVD-08	YVD-08-130919	09/19/2013	N	SWI0138	354	-	-	355	-	-	-	-	-	0.1	U	-	126	-	-	145	-	-	5	U	-	43.8	-	-	8	-	-
YVD-08	YVD-08-131211	12/11/2013	N	SWL0063	259	-	-	260	-	-	-	-	-	-	R	MSD	134	-	-	123	-	-	5	U	-	53.8	-	-	22.5	-	-
YVD-08	YVD-08-140317	03/17/2014	N	SXC0095	294	-	-	295	-	-	-	-	-	0.146	-	-	122	-	-	128	-	-	5	U	-	42.0	-	-	14.3	-	-
YVD-08	YVD-08-140602	06/02/2014	N	SXF0017	279	-	-	280	-	-	-	-	-	0.1	U	-	138	-	-	118	-	-	2	U	-	64.6	-	-	14.7	-	-
YVD-08	YVD-08-140923	09/23/2014	N	SXI0173	249	-	-	250	-	-	-	-	-	0.1	U	-	103	-	-	122	-	-	2.5	U	-	36.3	-	-	8.1	-	-
YVD-08	YVD-08-141216	12/16/2014	N	SXL0108	264	-	-	265	-	-	-	-	-	0.1	U	-	111	-	-	126	-	-	2.5	U	-	41.4	-	-	14	-	-
YVD-08	YVD-08-150317	03/17/2015	N	5904541	230	-	-	230	-	-	-	-	-	0.1	U	-	110	-	-	120	-	-	2.5	U	-	40.0	-	-	13	J-	MSD
YVD-08	YVD-D3-150317	03/17/2015	FD	5904541	240	-	-	240	-	-	-	-	-	0.1	U	-	100	-	-	130	-	-	0.5	U	-	39.0	-	-	14	J-	MSD
YVD-08	YVD-08-150617	06/17/2015	N	59010961	280	J	FDP	280	J	FDP	-	-	-	0.14	-	-	110	-	-	120	-	-	2.5	U	-	40.0	-	-	19	-	-
YVD-08	YVD-D3-150617	06/17/2015	FD	59010961	220	J	FDP	220	J	FDP	-	-	-	0.1	U	-	110	-	-	140	-	-	5	U	-	39.0	-	-	19	-	-
YVD-08	YVD-08-150924	09/24/2015	N	59020391	260	-	-	260	-	-	-	-	-	0.1	UJ	MSD	110	-	-	120	-	-	2.5	U	-	44.0	-	-	20	J+	MSD
YVD-08	YVD-08-151215	12/15/2015	N	59025501	260	-	-	260	-	-	-	-	-	-	R	MSD	120	-	-	120	-	-	2.5	U	-	44.0	-	-	26	-	-
YVD-08	YVD-D3-151215	12/15/2015	FD	59025501	250	-	-	250	-	-	-	-	-	0.15	J-	MSD	120	-	-	110	-	-	5	U	-	46.0	-	-	26	-	-
YVD-08	YVD-08-160310	03/10/2016	N	59029941	240	-	-	240	-	-	-	-	-	0.1	U	-	120	-	-	120	-	-	2.5	U	-	44.0	-	-	32	-	-
YVD-08	YVD-08-160622	6/22/2016	N	59037271	230	-	-	230	-	-	-	-	-	0.1	UJ	MSD	120	-	-	110	-	-	2.5	U	-	46.0	-	-	34	-	-
YVD-08	YVD-D3-160622	6/22/2016	FD	59037271	230	-	-	230	-	-	-	-	-	0.1	UJ	FBK, MSD	120	-	-	120	-	-	0.5	U	-	46.0	-	-	34	-	-
YVD-08	YVD-08-160927	9/27/2016	N	K1611565	239	-	-	239	-	-	-	-	-	0.050	U	MBK	120	-	-	96.0	-	-	0.18	J	-	47.0	-	-	30.6	-	-
YVD-08	YVD-08-161213	12/13/2016	N	K1615045	222	-	-	222	-	-	-	-	-	0.050	U	-	122	-	-	89.3	-	-	0.23	-	-	41.9	-	-	34.5	J	HTQ
YVD-08	YVD-030917-24	3/9/2017	N	K1702448	263	-	-	263	-	-	-	-	-	0.050	U	-	136	-	-	95.2	-	-	0.20	J	-	44.4	-	-	37.3	J	HTQ
YVD-08	YVD-060717-29	6/7/2017	N	K1705833	236	-	-	236	-	-	-	-	-	0.050	U	-	139	-	-	94.3	-	-	0.17	J	-	48.3	-	-	44.0	-	-
YVD-08	YVD-092617-19	9/26/2017	N	K1710333	271	-	-	271	-	-	-	-	-	0.050	U	-	137	-	-	98.0	-	-	0.19	J	-	44.3	-	-	38.6	J	HTQ
YVD-08	YVD-120517-23	12/5/2017	N	K1713157	233	-	-	233	-	-	-	-	-	0.050	U	-	147	-	-	98.8	-	-	0.20	J	-	48.1	-	-	49.3	-	-
YVD-08	YVD-031918-15	3/19/2018	N	870634	250	-	-	250	-	-	0.070	U	-	-	-	-	134	-	-	103	-	-	0.15	-	-	45.95	-	-	46.3	-	-
YVD-08	YVD-060518-31	6/5/2018	N	874860	238	-	-	238	-	-	0.070	U	-	-	-	-	136	-	-	99.0	-	-	0.16	-	-	47.45	-	-	53.0	-	-
YVD-08	YVD-090918-04	9/9/2018	N	880601	237	-	-	237	-	-	0.070	U	-	-	-	-	146	-	-	103	-	-	0.18	-	-	49.15	-	-	54.4	-	-
YVD-08	YVD-121118-19	12/11/2018	N	884939	227	-	-	227	-	-	0.070	U	-	-	-	-	138	-	-	117	-	-	0.16	-	-	45.85	-	-	59.4	-	-
YVD-08	YVD-031719-03	3/17/2019	N	988239	234	-	-	234	-	-	0.070	U	-	-	-	-	138	-	-	119	-	-	0.22	U	FBK	46.30	-	-	54.8	-	-
YVD-08	YVD-060319-21	6/3/2019	N	992053	240	-	-	240	-	-	0.070	U	-	-	-	-	138	-	-	100	-	-	0.10	-	-	46.10	-	-	50.0	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-08	YVD-090919-02	9/9/2019	N	998357	226	-	-	226	-	-	0.070	U	-	-	-	-	139	-	-	89.8	-	-	0.15	-	-	45.70	-	-	62.0	-	-
YVD-08	YVD-120919-02	12/9/2019	N	902276	227	-	-	227	-	-	0.070	U	-	-	-	-	132	-	-	95.6	-	-	0.16	-	-	44.60	-	-	61.8	-	-
YVD-08	YVD-120919-04	12/9/2019	FD	902276	226	-	-	226	-	-	0.070	U	-	-	-	-	130	-	-	94.3	-	-	0.15	-	-	44.50	-	-	61.6	-	-
YVD-08	YVD-033120-17	3/31/2020	N	006260	213	-	-	213	-	-	0.070	U	-	-	-	-	132	-	-	96.5	-	-	0.18	--	--	45.65	-	-	68.0	-	-
YVD-08	YVD-060920-23	6/9/2020	N	009269	217	--	--	217	--	--	0.070	U	--	-	-	-	132	--	--	96.1	--	--	0.19	--	--	44.75	--	--	66.6	--	--
YVD-08	YVD-092120-11	9/21/2020	N	013896	216	--	--	216	--	--	0.070	U	--	-	-	-	134	--	--	96.2	--	--	0.16	--	--	45.80	--	--	66.0	--	--
YVD-08	YVD-120720-11	12/7/2020	N	017035	215	--	--	215	--	--	0.070	U	--	-	-	-	132	--	--	107	--	--	0.20	--	--	45.85	--	--	62.2	--	--
YVD-08	YVD-030121-07	3/1/2021	N	119931	217	--	--	217	--	--	0.070	U	--	-	-	-	135	--	--	92.9	--	--	0.20	--	--	45.80	--	--	68.8	--	--
YVD-08	YVD-060821-28	6/8/2021	N	124212	218	--	--	218	--	--	0.070	U	--	-	-	-	130	--	--	94.2	--	--	0.17	--	--	44.90	--	--	62.0	--	--
YVD-09	YVD-09-130919	09/19/2013	N	SWI0138	369	-	-	370	-	-	-	-	-	0.1	U	-	107	-	-	96.3	-	-	5	U	-	39.3	-	-	74.7	-	-
YVD-09	YVD-09-131212	12/12/2013	N	SWL0078	384	-	-	385	-	-	-	-	-	0.02	U	-	109	-	-	87.2	-	-	5	U	-	42.0	-	-	64.4	-	-
YVD-09	YVD-09-140319	03/19/2014	N	SXC0107	388	-	-	390	-	-	-	-	-	0.1	U	-	109	-	-	104	-	-	5.5	-	-	40.8	-	-	62.4	-	-
YVD-09	YVD-09-140603	06/03/2014	N	SXF0025	367	-	-	368	-	-	-	-	-	0.1	U	-	113	-	-	89.8	-	-	5	U	-	44.5	-	-	57.1	-	-
YVD-09	YVD-09-140924	09/24/2014	N	SXI0173	359	-	-	360	-	-	-	-	-	0.1	U	-	118	-	-	68.2	-	-	5	U	-	41.7	-	-	48	-	-
YVD-09	YVD-09-141217	12/17/2014	N	SXL0121	359	-	-	360	-	-	-	-	-	0.1	U	-	130	-	-	85	-	-	5	U	-	56.3	-	-	53.9	-	-
YVD-09	YVD-09-150318	03/18/2015	N	5904651	350	-	-	350	-	-	-	-	-	0.14	-	-	110	-	-	74	-	-	5	U	-	46.0	-	-	47	-	-
YVD-09	YVD-09-150617	06/17/2015	N	59010961	350	-	-	350	-	-	-	-	-	0.14	-	-	110	-	-	89	-	-	5	U	-	43.0	-	-	54	-	-
YVD-09	YVD-09-150923	09/23/2015	N	59020391	330	-	-	330	-	-	-	-	-	0.21	J	MSD	110	-	-	78	-	-	0.5	U	-	46.0	-	-	56	J+	MSD
YVD-09	YVD-09-151215	12/15/2015	N	59025501	340	-	-	340	-	-	-	-	-	-	R	MSD	110	-	-	77	-	-	5	U	-	42.0	-	-	52	-	-
YVD-09	YVD-09-160310	03/10/2016	N	59029941	360	-	-	360	-	-	-	-	-	0.12	-	-	110	-	-	72	-	-	5	U	-	42.0	-	-	48	-	-
YVD-09	YVD-09-160622	6/22/2016	N	59037271	350	-	-	350	-	-	-	-	-	0.1	UJ	MSD	100	-	-	76	-	-	5	U	-	42.0	-	-	49	-	-
YVD-09	YVD-09-160929	9/29/2016	N	K1611704	347	-	-	347	-	-	-	-	-	0.050	U	MBK	103	-	-	66.7	-	-	0.34	-	-	41.2	-	-	43.2	-	-
YVD-09	YVD-09-161213	12/13/2016	N	K1615045	340	-	-	340	-	-	-	-	-	0.050	U	-	107	-	-	59.8	-	-	0.40	-	-	38.1	-	-	42.8	J	HTQ
YVD-09	YVD-D2-161213	12/13/2016	FD	K1615045	340	-	-	340	-	-	-	-	-	0.050	U	-	108	-	-	61.4	-	-	0.40	-	-	37.1	-	-	43.3	J	HTQ
YVD-09	YVD-031317-35	3/13/2017	N	K1702489	329	-	-	329	-	-	-	-	-	0.050	U	-	108	-	-	63.9	-	-	0.37	-	-	39.2	-	-	44.3	-	-
YVD-09	YVD-060517-08	6/5/2017	N	K1705702	341	-	-	341	-	-	-	-	-	0.050	U	-	110	-	-	62.6	-	-	0.39	-	-	39.4	-	-	44.6	-	-
YVD-09	YVD-092617-29	9/26/2017	N	K1710381	351	-	-	351	-	-	-	-	-	0.050	U	-	109	-	-	61.0	-	-	0.38	-	-	37.2	-	-	44.1	J	HTQ
YVD-09	YVD-092617-30	9/26/2017	FD	K1710381	415	-	-	415	-	-	-	-	-	0.050	U	-	109	-	-	61.1	-	-	0.38	-	-	37.4	-	-	44.1	J	HTQ
YVD-09	YVD-120517-21	12/5/2017	N	K1713091	351	-	-	351	-	-	-	-	-	0.050	U	-	108	-	-	63.0	-	-	0.38	-	-	35.9	-	-	46.9	-	-
YVD-09	YVD-031918-18	3/19/2018	N	870634	350	-	-	350	-	-	0.070	U	-	-	-	-	108	-	-	69.2	-	-	0.34	-	-	35.90	-	-	48.5	-	-
YVD-09	YVD-060318-13	6/3/2018	N	874568	348	-	-	348	-	-	0.070	U	-	-	-	-	107	-	-	63.4	-	-	0.36	-	-	37.75	-	-	50.6	-	-
YVD-09	YVD-090918-06	9/9/2018	N	880601	354	-	-	354	-	-	0.070	U	-	-	-	-	108	-	-	71.0	-	-	0.35	-	-	35.90	-	-	51.4	-	-
YVD-09	YVD-121118-15	12/11/2018	N	884939	358	-	-	358	-	-	0.070	U	-	-	-	-	102	-	-	65.6	-	-	0.34	-	-	34.25	-	-	52.8	-	-
YVD-09	YVD-121118-17	12/11/2018	FD	884939	357	-	-	357	-	-	0.070	U	-	-	-	-	103	-	-	68.0	-	-	0.33	-	-	34.55	-	-	54.6	-	-
YVD-09	YVD-031719-05	3/17/2019	N	988239	356	-	-	356	-	-	0.070	U	-	-	-	-	104	-	-	67.4	-	-	0.31	U	FBK	35.75	-	-	56.0	-	-
YVD-09	YVD-060319-15	6/3/2019	N	992053	353	-	-	353	-	-	0.070	U	-	-	-	-	104	-	-	43.4	-	-	0.36	-	-	35.65	-	-	53.3	-	-
YVD-09	YVD-090919-04	9/9/2019	N	998357	363	-	-	363	-	-	0.070	U	-	-	-	-	110	-	-	64.7	-	-	0.33	-	-	36.45	-	-	58.2	-	-
YVD-09	YVD-120919-06	12/9/2019	N	902276	356	-	-	356	-	-	0.070	U	-	-	-	-	106	-	-	69.1	-	-	0.37	-	-	35.75	-	-	57.0	-	-
YVD-09	YVD-033020-05	3/30/2020	N	006241	350	-	-	350	-	-	0.070	U	-	-	-	-	102	-	-	71.4	-	-	0.37	--	--	35.15	-	-	55.2	-	-
YVD-09	YVD-060920-24	6/9/2020	N	009269	350	--	--	350	--	--	0.070	U	--	-	-	-	102	--	--	68.8	--	--	0.31	--	--	35.35	--	--	55.2	--	--
YVD-09	YVD-092120-16	9/21/2020	N	013896	347	--	--	347	--	--	0.070	U	--	-	-	-	101	--	--	72.5	--	--	0.10	U	--	35.05	--	--	56.2	--	--
YVD-09	YVD-120720-13	12/7/2020	N	017035	345	--	--	345	--	--	0.070	U	--	-	-	-	101	--	--	69.4	--	--	0.26	--	--	35.65	--	--	54.0	--	--
YVD-09	YVD-030121-05	3/1/2021	N	119931	347	--	--	347	--	--	0.070	U	--	-	-	-	104	--	--	68.8	--	--	0.35	--	--	36.30	--	--	57.4	--	--
YVD-09	YVD-060721-18	6/7/2021	N	124105	352	--	--	352	--	--	0.070	U	--	-	-	-	102	--	--	75.9	--	--	0.32	--	--	35.50	--	--	54.4	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-10	YVD-10-130917	09/17/2013	N	SWI0123	464	-	-	465	-	-	-	-	-	0.1	U	-	216	-	-	95.4	-	-	5	U	-	51.8	-	-	95	-	-
YVD-10	YVD-10-131212	12/12/2013	N	SWL0078	459	-	-	460	-	-	-	-	-	0.02	U	-	202	-	-	91.4	-	-	5	U	-	55.6	-	-	86.9	-	-
YVD-10	YVD-10-140319	03/19/2014	N	SXC0107	489	-	-	490	-	-	-	-	-	0.109	-	-	218	-	-	86.8	-	-	5	U	-	54.0	-	-	77.6	-	-
YVD-10	YVD-10-140603	06/03/2014	N	SXF0025	487	-	-	488	-	-	-	-	-	0.105	-	-	232	-	-	94.3	-	-	5	U	-	58.6	-	-	86.1	-	-
YVD-10	YVD-10-140924	09/24/2014	N	SXI0173	523	-	-	525	-	-	-	-	-	0.1	U	-	276	-	-	115	-	-	5	U	-	65.8	-	-	97.2	-	-
YVD-10	YVD-10-141217	12/17/2014	N	SXL0144	503	-	-	505	-	-	-	-	-	0.5	U	-	248	-	-	97.9	-	-	5	U	-	60.4	-	-	78.7	-	-
YVD-10	YVD-10-150318	03/18/2015	N	5904651	590	-	-	590	-	-	-	-	-	0.1	U	-	400	-	-	180	-	-	5	U	-	92.0	-	-	120	-	-
YVD-10	YVD-10-150617	06/17/2015	N	59010961	600	-	-	600	-	-	-	-	-	0.12	-	-	390	-	-	39	-	-	5	U	-	95.0	-	-	20	-	-
YVD-10	YVD-10-150923	09/23/2015	N	59020391	620	-	-	620	-	-	-	-	-	0.72	J	MSD	330	-	-	160	-	-	5	U	-	89.0	-	-	120	J+	MSD
YVD-10	YVD-10-151214	12/14/2015	N	59025351	600	-	-	600	-	-	-	-	-	-	R	MSD	350	-	-	150	-	-	5	U	-	84.0	-	-	120	-	-
YVD-10	YVD-10-160309	03/09/2016	N	59029711	520	-	-	520	-	-	-	-	-	0.1	UJ	FDP	310	-	-	140	-	-	5	U	-	73.0	-	-	98	-	-
YVD-10	YVD-10-160621	6/21/2016	N	59037271	510	-	-	510	-	-	-	-	-	0.11	J-	MSD	270	-	-	120	-	-	5	U	-	73.0	-	-	96	-	-
YVD-10	YVD-10-160929	9/29/2016	N	K1611698	513	-	-	513	-	-	-	-	-	0.050	U	MBK	286	-	-	105	-	-	0.2	U	MBK	63.1	-	-	84	-	-
YVD-10	YVD-10-161212	12/12/2016	N	K1615029	524	-	-	524	-	-	-	-	-	0.050	U	-	303	-	-	141	-	-	0.10	J	-	66.9	-	-	109	J	HTQ
YVD-10	YVD-030917-27	3/9/2017	N	K1702448	637	-	-	637	-	-	-	-	-	0.050	U	-	569	-	-	173	-	-	0.09	J	-	128	-	-	123	J	HTQ
YVD-10	YVD-060617-22	6/6/2017	N	K1705754	525	-	-	525	-	-	-	-	-	0.050	U	-	349	-	-	125	-	-	0.14	J	-	76.7	-	-	99.4	-	-
YVD-10	YVD-092617-31	9/26/2017	N	K1710381	523	-	-	523	-	-	-	-	-	0.050	U	-	316	-	-	113	-	-	0.09	J	-	66.7	-	-	93.9	J	HTQ
YVD-10	YVD-120517-30	12/5/2017	N	K1713091	540	-	-	540	-	-	-	-	-	0.050	U	-	327	-	-	128	-	-	0.11	J	-	67.3	-	-	109	J	HTQ
YVD-10	YVD-031818-06	3/18/2018	N	870610	527	-	-	527	-	-	0.070	U	-	-	-	-	296	-	-	121	-	-	0.10	U	-	61.00	-	-	91.4	-	-
YVD-10	YVD-060318-06	6/3/2018	N	874568	543	-	-	543	-	-	0.08	U	FBK	-	-	-	298	-	-	122	-	-	0.10	U	-	65.00	-	-	92.0	-	-
YVD-10	YVD-090918-13	9/9/2018	N	880601	557	-	-	557	-	-	0.070	U	-	-	-	-	308	-	-	128	-	-	0.10	-	-	63.50	-	-	90.0	-	-
YVD-10	YVD-121018-08	12/10/2018	N	884857	544	-	-	544	-	-	0.070	U	-	-	-	-	274	-	-	124	-	-	0.10	U	FBK	58.00	J	MSD	87.0	-	-
YVD-10	YVD-031819-16	3/18/2019	N	988273	527	-	-	527	-	-	0.070	U	-	-	-	-	276	-	-	141	-	-	0.10	-	-	58.00	-	-	81.6	-	-
YVD-10	YVD-060319-18	6/3/2019	N	992053	568	-	-	568	-	-	0.070	U	-	-	-	-	297	-	-	135	-	-	0.10	U	-	63.00	-	-	74.4	-	-
YVD-10	YVD-091019-20	9/10/2019	N	998438	584	-	-	584	-	-	0.070	U	-	-	-	-	256	-	-	92.0	-	-	0.10	U	-	54.50	-	-	69.0	-	-
YVD-10	YVD-121019-21	12/10/2019	N	902321	576	-	-	576	-	-	0.070	U	-	-	-	-	286	-	-	114	-	-	0.10	U	-	59.50	-	-	84.4	-	-
YVD-10	YVD-033020-08	3/30/2020	N	006241	568	-	-	568	-	-	0.070	U	-	-	-	-	264	-	-	104	-	-	0.10	U	--	57.00	-	-	73.2	-	-
YVD-10	YVD-060920-12	6/9/2020	N	009269	586	--	--	586	--	--	0.070	U	--	-	-	-	293	--	--	128	--	--	0.10	U	--	62.00	--	--	82.6	--	--
YVD-10	YVD-092020-08	9/20/2020	N	013864	596	--	--	596	--	--	0.070	U	--	-	-	-	306	--	--	110	--	--	0.10	U	--	63.50	--	--	76.0	--	--
YVD-10	YVD-120720-12	12/7/2020	N	017035	612	--	--	612	--	--	0.070	U	--	-	-	-	331	--	--	161	--	--	0.10	U	--	71.00	--	--	76.0	--	--
YVD-10	YVD-030121-12	3/1/2021	N	119931	770	--	--	770	--	--	0.070	U	--	-	-	-	482	--	--	90.0	--	--	0.10	U	--	97.00	--	--	44.4	--	--
YVD-10	YVD-060621-07	6/6/2021	N	124053	710	--	--	710	--	--	0.070	U	--	-	-	-	320	--	--	85.3	--	--	0.49	--	--	68.00	--	--	53.1	--	--
YVD-11	YVD-11-130923	09/23/2013	N	SWI0178	254	J	FDP	255	J	FDP	-	-	-	0.1	U	-	183	-	-	-	-	-	-	-	-	51.9	-	-	-	-	-
YVD-11	YVD-D2-130923	09/23/2013	FD	SWI0178	199	J	FDP	200	J	FDP	-	-	-	0.1	U	-	175	-	-	-	-	-	-	-	-	46.0	-	-	-	-	-
YVD-11	YVD-11-130926	09/26/2013	N	SWI0190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.7	-	-	5	U	-	-	-	-	38.4	-	-
YVD-11	YVD-D3-130926	09/26/2013	FD	SWI0190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.4	-	-	5	U	-	-	-	-	46.2	-	-
YVD-11	YVD-11-131212	12/12/2013	N	SWL0073	294	-	-	295	-	-	-	-	-	0.02	UJ	MSD	171	-	-	58.7	-	-	5	U	-	43.4	-	-	49.9	-	-
YVD-11	YVD-11-140318	03/18/2014	N	SXC0107	324	-	-	325	-	-	-	-	-	0.1	U	-	183	-	-	61.6	-	-	5	U	-	44.4	-	-	43.7	-	-
YVD-11	YVD-11-140603	06/03/2014	N	SXF0017	312	-	-	313	-	-	-	-	-	0.1	U	-	176	-	-	67.2	-	-	5	U	-	50.3	-	-	49.1	-	-
YVD-11	YVD-11-140924	09/24/2014	N	SXI0173	294	-	-	295	-	-	-	-	-	0.1	U	-	193	-	-	67.2	-	-	2.5	U	-	47.9	-	-	46.6	-	-
YVD-11	YVD-11-141217	12/17/2014	N	SXL0121	289	-	-	290	-	-	-	-	-	0.1	U	-	198	-	-	72.1	-	-	5	U	-	53.6	-	-	49.1	-	-
YVD-11	YVD-11-150317	03/17/2015	N	5904651	290	-	-	290	-	-	-	-	-	0.1	U	-	190	-	-	76	-	-	5	U	-	51.0	-	-	52	-	-
YVD-11	YVD-11-150616	06/16/2015	N	59010961	290	-	-	290	-	-	-	-	-	0.1	U	-	200	-	-	86	-	-	5	U	-	50.0	-	-	56	-	-
YVD-11	YVD-11-150923	09/23/2015	N	59020281	310	-	-	310	-	-	-	-	-	0.12	-	-	200	-	-	90	-	-	5	U	-	55.0	-	-	66	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
					Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Well ID	Sample Name	Sample Date	Sample Type	Sample Group																											
YVD-11	YVD-11-151215	12/15/2015	N	59025431	110	J	FDP	110	J	FDP	-	-	-	-	R	MSD	210	-	-	100	-	-	5	U	-	60.0	-	-	74	-	-
YVD-11	YVD-D2-151215	12/15/2015	FD	59025431	360	J	FDP	360	J	FDP	-	-	-	-	R	MSD	210	-	-	98	-	-	0.5	U	-	58.0	-	-	70	-	-
YVD-11	YVD-11-160309	03/09/2016	N	59029711	340	-	-	340	-	-	-	-	-	0.14	J	FDP	200	-	-	99	-	-	5	U	-	53.0	-	-	65	-	-
YVD-11	YVD-11-160621	6/21/2016	N	59037151	340	-	-	340	-	-	-	-	-	0.1	U	-	200	-	-	120	-	-	5	U	-	56.0	-	-	71	-	-
YVD-11	YVD-11-160927	9/27/2016	N	K1611629	375	-	-	375	-	-	-	-	-	0.050	U	MBK	204	-	-	82.0	-	-	0.18	J	-	52.6	-	-	48.9	J	HTQ
YVD-11	YVD-11-161214	12/14/2016	N	K1615126	352	-	-	352	-	-	-	-	-	0.050	U	-	209	-	-	82.5	-	-	0.19	J	-	57.8	-	-	55.5	-	-
YVD-11	YVD-031317-37	3/13/2017	N	K1702489	353	-	-	353	-	-	-	-	-	0.050	U	-	235	-	-	102	-	-	0.21	-	-	62.1	-	-	77.3	-	-
YVD-11	YVD-060517-10	6/5/2017	N	K1705702	341	-	-	341	-	-	-	-	-	0.050	U	-	271	-	-	129	-	-	0.18	J	-	69.1	-	-	97.1	-	-
YVD-11	YVD-092617-26	9/26/2017	N	K1710381	347	-	-	347	-	-	-	-	-	0.050	U	-	276	-	-	135	-	-	0.17	J	-	68.6	-	-	103	J	HTQ
YVD-11	YVD-120417-06	12/4/2017	N	K1713026	361	-	-	361	-	-	-	-	-	0.050	U	-	248	-	-	110	-	-	0.16	J	-	58.6	-	-	84.8	-	-
YVD-11	YVD-031918-12	3/19/2018	N	870634	386	-	-	386	-	-	0.07	U	-	-	-	-	223	-	-	91.4	-	-	0.11	-	-	51.50	-	-	61.8	-	-
YVD-11	YVD-031918-14	3/19/2018	FD	870634	387	-	-	387	-	-	0.07	U	-	-	-	-	222	-	-	89.1	-	-	0.12	-	-	50.50	-	-	61.2	-	-
YVD-11	YVD-060418-14	6/4/2018	N	874662	377	-	-	377	-	-	0.34	U	FBK	-	-	-	224	-	-	114	-	-	0.12	-	-	57.00	-	-	68.6	-	-
YVD-11	YVD-060418-16	6/4/2018	FD	874662	380	-	-	380	-	-	0.08	U	FBK	-	-	-	231	-	-	114	-	-	0.12	-	-	57.50	-	-	68.2	-	-
YVD-11	YVD-090918-05	9/9/2018	N	880601	395	-	-	395	-	-	0.070	U	-	-	-	-	223	-	-	102	-	-	0.20	-	-	53.00	-	-	62.8	-	-
YVD-11	YVD-121018-10	12/10/2018	N	884857	410	-	-	410	-	-	0.070	U	-	-	-	-	182	-	-	75.6	-	-	0.14	U	FBK	44.90	J	MSD	41.1	-	-
YVD-11	YVD-031819-18	3/18/2019	N	988273	440	-	-	440	-	-	0.070	U	-	-	-	-	158	-	-	38.6	-	-	0.12	-	-	38.85	-	-	20.2	-	-
YVD-11	YVD-060219-02	6/2/2019	N	991939	424	-	-	424	-	-	0.070	U	-	-	-	-	156	-	-	49.2	U	FBK	0.59	U	FBK	38.30	-	-	26.4	-	-
YVD-11	YVD-060219-04	6/2/2019	FD	991939	423	-	-	423	-	-	0.070	U	-	-	-	-	156	-	-	49.8	U	FBK	0.60	U	FBK	38.70	-	-	26.7	-	-
YVD-11	YVD-090919-05	9/9/2019	N	998357	423	-	-	423	-	-	0.070	U	-	-	-	-	164	-	-	52.2	-	-	0.12	-	-	39.95	-	-	32.8	-	-
YVD-11	YVD-120919-13	12/9/2019	N	902276	429	-	-	429	-	-	0.070	U	-	-	-	-	162	-	-	46.1	-	-	0.11	-	-	39.70	-	-	27.8	-	-
YVD-11	YVD-033020-10	3/30/2020	N	006241	426	-	-	426	-	-	0.070	U	-	-	-	-	150	-	-	39.6	-	-	0.13	--	--	36.55	-	-	23.8	-	-
YVD-11	YVD-061020-31	6/10/2020	N	009361	420	--	--	420	--	--	0.070	U	--	-	-	-	151	--	--	47.0	--	--	0.13	--	--	36.55	J	MS	24.9	--	--
YVD-11	YVD-092120-20	9/21/2020	N	013896	413	--	--	413	--	--	0.070	U	--	-	-	-	162	--	--	69.2	--	--	0.12	--	--	40.85	--	--	37.5	--	--
YVD-11	YVD-120720-10	12/7/2020	N	017035	412	--	--	412	--	--	0.070	U	--	-	-	-	179	--	--	78.2	--	--	0.24	--	--	44.40	--	--	48.0	--	--
YVD-11	YVD-030121-06	3/1/2021	N	119931	422	--	--	422	--	--	0.070	U	--	-	-	-	178	--	--	85.9	--	--	0.17	--	--	45.60	--	--	44.1	--	--
YVD-11	YVD-060821-23	6/8/2021	N	124212	414	--	--	414	--	--	0.070	U	--	-	-	-	170	--	--	85.4	--	--	0.11	--	--	41.90	--	--	41.7	--	--
YVD-12	YVD-12-130919	09/19/2013	N	SWI0142	204	-	-	205	-	-	-	-	-	0.1	U	-	98.6	-	-	98.2	-	-	5	U	-	37.5	-	-	-	-	-
YVD-12	YVD-12-130925	09/25/2013	N	SWI0175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	
YVD-12	YVD-12-131211	12/11/2013	N	SWL0073	194	-	-	195	-	-	-	-	-	0.02	UJ	MSD	93.5	-	-	97	-	-	5	U	-	36.2	-	-	20.1	-	-
YVD-12	YVD-12-140318	03/18/2014	N	SXC0095	204	-	-	205	-	-	-	-	-	0.248	-	-	92.9	-	-	95.2	-	-	5	U	-	35.9	-	-	17	-	-
YVD-12	YVD-12-140603	06/03/2014	N	SXF0017	199	-	-	200	-	-	-	-	-	0.1	U	-	92.6	-	-	8.33	-	-	0.5	U	-	34.9	-	-	1.44	-	-
YVD-12	YVD-12-140922	09/22/2014	N	SXI0148	189	-	-	190	-	-	-	-	-	0.1	U	-	98.4	-	-	78.5	-	-	5	U	-	39.1	-	-	13.3	-	-
YVD-12	YVD-D2-140922	09/22/2014	FD	SXI0148	194	-	-	195	-	-	-	-	-	0.1	U	-	99.3	-	-	82.4	-	-	2	U	-	39.0	-	-	15.5	-	-
YVD-12	YVD-12-141216	12/16/2014	N	SXL0121	194	-	-	195	-	-	-	-	-	0.1	U	-	99.3	-	-	84.1	-	-	5	U	-	39.6	-	-	15.1	-	-
YVD-12	YVD-12-150317	03/17/2015	N	5904541	190	-	-	190	-	-	-	-	-	0.1	U	-	93.0	-	-	75	-	-	5	U	-	37.0	-	-	14	J-	MSD
YVD-12	YVD-12-150617	06/17/2015	N	59010961	190	-	-	190	-	-	-	-	-	0.1	U	-	90.0	-	-	84	-	-	5	U	-	35.0	-	-	12	-	-
YVD-12	YVD-12-150924	09/24/2015	N	59020391	190	-	-	190	-	-	-	-	-	0.1	UJ	MSD	92.0	-	-	78	-	-	5	U	-	39.0	-	-	15	J+	MSD
YVD-12	YVD-12-151216	12/16/2015	N	59025501	210	-	-	210	-	-	-	-	-	-	R	MSD	95.0	-	-	76	-	-	5	U	-	37.0	-	-	14	-	-
YVD-12	YVD-12-160309	03/09/2016	N	59029941	210	-	-	210	-	-	-	-	-	0.1	U	-	95.0	-	-	73	-	-	5	U	-	35.0	-	-	13	-	-
YVD-12	YVD-D3-160309	03/09/2016	FD	59029941	200	-	-	200	-	-	-	-	-	0.1	U	-	95.0	-	-	79	-	-	0.5	U	-	36.0	-	-	15	-	-
YVD-12	YVD-12-160622	6/22/2016	N	59037271	190	-	-	190	-	-	-	-	-	0.1	UJ	MSD	89.0	-	-	90	-	-	5	U	-	36.0	-	-	14	-	-
YVD-12	YVD-12-160929	9/29/2016	N	K1611704	188	-	-	188	-	-	-	-	-	0.050	U	MBK	88.9	-	-	83.5	-	-	0.33	-	-	37.2	-	-	13.5	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-12	YVD-12-161213	12/13/2016	N	K1615083	183	-	-	183	-	-	-	-	-	0.050	U	-	93.4	-	-	81.7	-	-	0.33	-	-	33.6	-	-	12.2	-	-
YVD-12	YVD-030917-20	3/9/2017	N	K1702404	132	-	-	132	-	-	-	-	-	0.050	U	-	97.3	-	-	91.7	-	-	0.38	-	-	35.4	-	-	13.4	-	-
YVD-12	YVD-060617-25	6/6/2017	N	K1705833	183	-	-	183	-	-	-	-	-	0.050	U	-	98.4	-	-	94.1	-	-	0.32	-	-	35.8	-	-	13.6	-	-
YVD-12	YVD-092517-15	9/25/2017	N	K1710333	188	-	-	188	-	-	-	-	-	0.050	U	-	97.6	-	-	94.7	-	-	0.34	-	-	34.2	-	-	14.0	-	-
YVD-12	YVD-120417-03	12/4/2017	N	K1713026	186	-	-	186	-	-	-	-	-	0.050	U	-	89.7	-	-	85.4	-	-	0.41	-	-	32.9	-	-	13.4	-	-
YVD-12	YVD-031918-13	3/19/2018	N	870610	181	-	-	181	-	-	0.070	U	-	-	-	-	98.0	-	-	97.7	-	-	0.35	-	-	35.25	-	-	13.6	-	-
YVD-12	YVD-060318-11	6/3/2018	N	874568	178	-	-	178	-	-	0.070	U	FBK	-	-	-	103	-	-	100	-	-	0.34	-	-	38.35	-	-	15.1	-	-
YVD-12	YVD-090918-16	9/9/2018	N	880601	185	-	-	185	-	-	0.070	U	-	-	-	-	110	-	-	105	-	-	0.33	-	-	38.65	-	-	15.8	-	-
YVD-12	YVD-121018-13	12/10/2018	N	884857	184	-	-	184	-	-	0.070	U	-	-	-	-	106	-	-	98.9	-	-	0.29	U	FBK	37.65	J	MSD	15.5	-	-
YVD-12	YVD-031719-07	3/17/2019	N	988239	189	-	-	189	-	-	0.070	U	-	-	-	-	104	-	-	97.6	-	-	0.31	U	FBK	38.00	-	-	18.4	-	-
YVD-12	YVD-060319-27	6/3/2019	N	992053	185	-	-	185	-	-	0.070	U	-	-	-	-	104	-	-	96.7	-	-	0.24	-	-	38.05	-	-	18.9	-	-
YVD-12	YVD-090919-16	9/9/2019	N	998357	185	-	-	185	-	-	0.070	U	-	-	-	-	106	-	-	95.6	-	-	0.29	-	-	37.50	-	-	16.5	-	-
YVD-12	YVD-120919-12	12/9/2019	N	902276	190	-	-	190	-	-	0.30	-	-	-	-	-	104	-	-	97.8	-	-	0.32	-	-	38.80	-	-	19.6	-	-
YVD-12	YVD-033020-11	3/30/2020	N	006241	183	-	-	183	-	-	0.070	U	-	-	-	-	99.5	-	-	99.5	-	-	0.32	--	--	36.25	-	-	17.1	-	-
YVD-12	YVD-060920-22	6/9/2020	N	009269	186	--	--	186	--	--	0.070	U	--	-	-	-	110	--	--	101	--	--	0.29	--	--	38.70	--	--	19.5	--	--
YVD-12	YVD-092120-18	9/21/2020	N	013896	180	--	--	180	--	--	0.070	U	--	-	-	-	96.5	--	--	99.3	--	--	0.27	--	--	35.45	--	--	13.8	--	--
YVD-12	YVD-120820-19	12/8/2020	N	017137	184	--	--	184	--	--	0.070	U	--	-	-	-	101	--	--	114	--	--	0.28	--	--	36.85	--	--	15.2	--	--
YVD-12	YVD-030221-19	3/2/2021	N	120034	184	--	--	184	--	--	0.070	U	--	-	-	-	101	--	--	98.1	--	--	0.30	--	--	36.55	--	--	14.8	--	--
YVD-12	YVD-060821-25	6/8/2021	N	124212	180	--	--	180	--	--	0.070	U	--	-	-	-	102	--	--	100	--	--	0.25	--	--	36.95	--	--	14.4	--	--
YVD-13	YVD-13-130919	09/19/2013	N	SWI0138	134	-	-	135	-	-	-	-	-	0.1	U	-	102	-	-	90.3	-	-	5	U	-	29.9	-	-	27.6	-	-
YVD-13	YVD-13-131211	12/11/2013	N	SWL0073	139	-	-	140	-	-	-	-	-	0.02	UJ	MSD	101	-	-	77.8	-	-	5	U	-	29.4	-	-	21.7	-	-
YVD-13	YVD-13-140318	03/18/2014	N	SXC0095	134	-	-	135	-	-	-	-	-	0.288		-	102	-	-	80.3	-	-	5	U	-	29.3	-	-	24.2	-	-
YVD-13	YVD-13-140603	06/03/2014	N	SXF0017	129	-	-	130	-	-	-	-	-	0.103		-	94.8	-	-	39.7	-	-	2	U	-	27.7	-	-	12.4	-	-
YVD-13	YVD-13-140923	09/23/2014	N	SKI0173	124	-	-	125	-	-	-	-	-	0.1	U	-	104	-	-	81.7	-	-	5	U	-	29.0	-	-	26.7	-	-
YVD-13	YVD-13-141217	12/17/2014	N	SXL0121	124	-	-	125	-	-	-	-	-	0.1	U	-	114	-	-	86.5	-	-	5	U	-	33.1	-	-	27.3	-	-
YVD-13	YVD-13-150317	03/17/2015	N	5904541	130	-	-	130	-	-	-	-	-	0.1	U	-	100	-	-	72	-	-	5	U	-	30.0	-	-	24	J-	MSD
YVD-13	YVD-13-150617	06/17/2015	N	59010961	140	-	-	140	-	-	-	-	-	0.1	U	-	110	-	-	81	-	-	5	U	-	30.0	-	-	27	-	-
YVD-13	YVD-13-150924	09/24/2015	N	59020391	150	-	-	150	-	-	-	-	-	0.1	UJ	MSD	98.0	-	-	70	-	-	5	U	-	31.0	-	-	26	J+	MSD
YVD-13	YVD-13-151216	12/16/2015	N	59025501	140	-	-	140	-	-	-	-	-	-	R	MSD	100	-	-	69	-	-	5	U	-	30.0	-	-	26	-	-
YVD-13	YVD-13-160309	03/09/2016	N	59029941	140	-	-	140	-	-	-	-	-	0.1	U	-	100	-	-	85	-	-	5	U	-	29.0	-	-	32	-	-
YVD-13	YVD-13-160622	6/22/2016	N	59037271	130	-	-	130	-	-	-	-	-	0.1	UJ	MSD	100	-	-	76	-	-	5	U	-	30.0	-	-	28	-	-
YVD-13	YVD-13-160928	9/28/2016	N	K1611698	133	-	-	133	-	-	-	-	-	0.050	U	MBK	101	-	-	60.0	-	-	0.30	-	-	28.1	-	-	23.5	J	HTQ
YVD-13	YVD-13-161214	12/13/2016	N	K1615083	132	-	-	132	-	-	-	-	-	0.050	U	-	100	-	-	57.3	-	-	0.33	-	-	27.5	-	-	23.1	-	-
YVD-13	YVD-030717-08	3/7/2017	N	K1702324	138	-	-	138	-	-	-	-	-	1	U	-	96.9	-	-	52.8	-	-	0.35	-	-	26.7	-	-	23.3	J	HTQ
YVD-13	YVD-030717-10	3/7/2017	FD	K1702324	139	-	-	139	-	-	-	-	-	1	U	-	97.3	-	-	53.6	-	-	0.37	-	-	27.1	-	-	23.7	J	HTQ
YVD-13	YVD-060717-33	6/7/2017	N	K1705833	134	-	-	134	-	-	-	-	-	0.050	U	-	99.0	-	-	54.6	-	-	0.30	-	-	27.9	-	-	22.7	-	-
YVD-13	YVD-092617-25	9/26/2017	N	K1710333	142	-	-	142	-	-	-	-	-	0.050	U	-	94.9	-	-	52.8	-	-	0.33	-	-	24.5	-	-	23.2	-	-
YVD-13	YVD-120417-07	12/4/2017	N	K1713026	141	-	-	141	-	-	-	-	-	0.050	U	-	93.4	-	-	53.9	-	-	0.36	-	-	24.5	-	-	24.3	-	-
YVD-13	YVD-031918-19	3/19/2018	N	870634	138	-	-	138	-	-	0.070	U	-	-	-	-	96.0	-	-	63.0	-	-	0.34	-	-	25.45	-	-	25.8	-	-
YVD-13	YVD-060318-09	6/3/2018	N	874568	137	-	-	137	-	-	0.070	U	-	-	-	-	91.0	-	-	63.3	-	-	0.35	-	-	25.90	-	-	25.2	-	-
YVD-13	YVD-090918-14	9/9/2018	N	880601	140	-	-	140	-	-	0.070	U	-	-	-	-	92.0	-	-	66.6	-	-	0.34	-	-	24.55	-	-	26.1	-	-
YVD-13	YVD-121018-11	12/10/2018	N	884857	142	-	-	142	-	-	0.070	U	-	-	-	-	87.5	-	-	70.8	-	-	0.25	U	FBK	24.20	J	MSD	28.6	-	-
YVD-13	YVD-031819-15	3/18/2019	N	988273	153	-	-	153	-	-	0.070	U	-	-	-	-	91.0	-	-	74.4	-	-	0.31	-	-	24.50	-	-	29.1	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-13	YVD-060319-25	6/3/2019	N	992053	142	-	-	142	-	-	0.070	U	-	-	-	-	90.0	-	-	40.9	-	-	0.23	-	-	24.35	-	-	28.0	-	-
YVD-13	YVD-090919-10	9/9/2019	N	998357	143	-	-	143	-	-	0.070	U	-	-	-	-	90.0	-	-	67.6	-	-	0.38	-	-	23.95	-	-	31.0	-	-
YVD-13	YVD-120919-10	12/9/2019	N	902276	138	-	-	138	-	-	0.070	U	-	-	-	-	88.0	-	-	73.4	-	-	0.37	-	-	24.10	-	-	30.9	-	-
YVD-13	YVD-033020-09	3/30/2020	N	006241	140	-	-	140	-	-	0.070	U	-	-	-	-	87.5	-	-	77.0	-	-	0.34	--	--	24.05	-	-	30.9	-	-
YVD-13	YVD-060920-21	6/9/2020	N	009269	139	--	--	139	--	--	0.070	U	--	-	-	-	89.5	--	--	71.1	--	--	0.29	--	--	24.55	--	--	28.5	--	--
YVD-13	YVD-092120-13	9/21/2020	N	013896	138	--	--	138	--	--	0.070	U	--	-	-	-	92.0	--	--	79.7	--	--	0.30	--	--	25.05	--	--	32.3	--	--
YVD-13	YVD-120820-17	12/8/2020	N	017137	137	--	--	137	--	--	0.070	U	--	-	-	-	90.5	--	--	64.8	--	--	0.33	--	--	25.05	--	--	27.1	--	--
YVD-13	YVD-030221-15	3/2/2021	N	120034	144	--	--	144	--	--	0.070	U	--	-	-	-	93.5	--	--	83.0	--	--	0.34	--	--	25.50	--	--	34.3	--	--
YVD-13	YVD-060821-32	6/8/2021	N	124212	142	--	--	142	--	--	0.070	U	--	-	-	-	92.5	--	--	82.8	--	--	0.31	--	--	25.45	--	--	34.0	--	--
YVD-14	YVD-14-130918	09/18/2013	N	SWI0123	605	-	-	605	-	-	-	-	-	0.1	U	-	260	-	-	118	-	-	5	U	-	65.4	-	-	112	-	-
YVD-14	YVD-14-131212	12/12/2013	N	SWL0078	544	-	-	545	-	-	-	-	-	0.02	U	-	249	-	-	104	-	-	5	U	-	65.6	-	-	105	-	-
YVD-14	YVD-14-140319	03/19/2014	N	SXC0107	634	-	-	635	-	-	-	-	-	0.1	U	-	248	-	-	108	-	-	5	U	-	64.5	-	-	101	-	-
YVD-14	YVD-14-140604	06/04/2014	N	SXF0025	569	-	-	570	-	-	-	-	-	0.1	U	-	240	-	-	109	-	-	5	U	-	63.2	-	-	102	-	-
YVD-14	YVD-14-140924	09/24/2014	N	SXI0173	554	-	-	555	-	-	-	-	-	0.107	-	-	268	-	-	110	-	-	5	U	-	72.0	-	-	96.7	-	-
YVD-14	YVD-14-141217	12/17/2014	N	SXL0121	539	-	-	540	-	-	-	-	-	0.1	U	-	252	-	-	110	-	-	5	U	-	70.9	-	-	96.1	-	-
YVD-14	YVD-14-150318	03/18/2015	N	5904651	530	-	-	530	-	-	-	-	-	0.11	-	-	260	-	-	110	-	-	5	U	-	70.0	-	-	91	-	-
YVD-14R	YVD-14R-151216	12/16/2015	N	59025501	550	-	-	550	-	-	-	-	-	-	R	MSD	250	-	-	110	-	-	5	U	-	69.0	-	-	98	-	-
YVD-14R	YVD-14R-160309	03/09/2016	N	59029941	600	-	-	600	-	-	-	-	-	0.1	U	-	250	-	-	110	-	-	5	U	-	67.0	-	-	100	-	-
YVD-14R	YVD-14R-160622	6/22/2016	N	59037271	490	-	-	490	-	-	-	-	-	0.1	UJ	MSD	230	-	-	110	-	-	5	U	-	67.0	-	-	110	-	-
YVD-14R	YVD-14R-160928	9/28/2016	N	K1611698	535	-	-	535	-	-	-	-	-	0.050	U	MBK	252	-	-	95.7	-	-	0.16	J	-	65.9	-	-	92.1	J	HTQ
YVD-14R	YVD-14R-161212	12/12/2016	N	K1615029	578	-	-	578	-	-	-	-	-	0.050	U	-	251	-	-	94.7	-	-	0.24	-	-	65.7	-	-	92.3	J	HTQ
YVD-14R	YVD-D1-161212	12/12/2016	FD	K1615029	571	-	-	571	-	-	-	-	-	0.050	U	-	255	-	-	93.3	-	-	0.19	-	-	66.5	-	-	92.3	J	HTQ
YVD-14R	YVD-030917-19	3/9/2017	N	K1702404	526	-	-	526	-	-	-	-	-	0.050	U	-	257	-	-	97.0	-	-	0.18	J	-	66.1	-	-	91.1	-	-
YVD-14R	YVD-030917-21	3/9/2017	FD	K1702404	514	-	-	514	-	-	-	-	-	0.050	U	-	251	-	-	95.0	-	-	0.19	J	-	65.2	-	-	92.2	J	HTQ
YVD-14R	YVD-060517-06	6/5/2017	N	K1705702	505	-	-	505	-	-	-	-	-	0.050	U	-	243	-	-	98.4	-	-	0.20	-	-	62.3	-	-	95.7	-	-
YVD-14R	YVD-092517-14	9/25/2017	N	K1710333	515	-	-	515	-	-	-	-	-	0.050	U	-	238	-	-	99.8	-	-	0.18	J	-	61.2	-	-	97.3	-	-
YVD-14R	YVD-120417-12	12/4/2017	N	K1713026	504	-	-	504	-	-	-	-	-	0.050	U	-	230	-	-	98.3	-	-	0.22	-	-	59.3	-	-	96.7	-	-
YVD-14R	YVD-031818-11	3/18/2018	N	870610	514	-	-	514	-	-	0.17	-	-	-	-	-	232	-	-	102	-	-	0.13	-	-	60.00	-	-	90.2	-	-
YVD-14R	YVD-060318-04	6/3/2018	N	874568	521	-	-	521	-	-	0.19	U	FBK	-	-	-	233	-	-	105	-	-	0.15	-	-	63.00	-	-	96.5	-	-
YVD-14R	YVD-090918-09	9/9/2018	N	880601	532	-	-	532	-	-	0.070	U	-	-	-	-	250	-	-	115	-	-	0.18	-	-	63.50	-	-	115	-	-
YVD-14R	YVD-121018-02	12/10/2018	N	884857	528	-	-	528	-	-	0.070	U	-	-	-	-	256	-	-	133	-	-	0.15	U	FBK	66.00	J	MSD	117	-	-
YVD-14R	YVD-121018-04	12/10/2018	FD	884857	528	-	-	528	-	-	0.070	U	-	-	-	-	254	-	-	132	-	-	0.15	U	FBK	66.00	J	MSD	115	-	-
YVD-14R	YVD-031819-12	3/18/2019	N	988273	531	-	-	531	-	-	0.070	U	-	-	-	-	277	-	-	151	-	-	0.44	J	DUP	71.50	-	-	138	-	-
YVD-14R	YVD-031819-14	3/18/2019	FD	988273	532	-	-	532	-	-	0.070	U	-	-	-	-	275	-	-	148	-	-	0.13	J	DUP	70.50	-	-	135	-	-
YVD-14R	YVD-060319-22	6/3/2019	N	992053	542	-	-	542	-	-	0.12	U	-	-	-	-	284	-	-	149	-	-	0.22	-	-	73.50	-	-	136	-	-
YVD-14R	YVD-060319-24	6/3/2019	FD	992053	538	-	-	538	-	-	0.070	U	-	-	-	-	270	-	-	130	-	-	0.10	U	-	71.50	-	-	138	-	-
YVD-14R	YVD-090919-13	9/9/2019	N	998357	560	-	-	560	-	-	0.070	U	-	-	-	-	280	-	-	130	-	-	0.13	-	-	73.00	-	-	140	-	-
YVD-14R	YVD-121019-15	12/10/2019	N	902321	533	-	-	533	-	-	0.070	U	-	-	-	-	255	-	-	128	-	-	0.13	-	-	66.50	-	-	126	-	-
YVD-14R	YVD-121019-17	12/10/2019	FD	902321	543	-	-	543	-	-	0.070	U	-	-	-	-	256	-	-	128	-	-	0.13	-	-	66.50	-	-	125	-	-
YVD-14R	YVD-033020-02	3/30/2020	N	006241	555	-	-	555	-	-	0.070	U	-	-	-	-	262	-	-	134	-	-	0.13	--	--	68.00	-	-	126	-	-
YVD-14R	YVD-033020-04	3/30/2020	FD	006241	556	-	-	556	-	-	0.070	U	-	-	-	-	262	-	-	132	-	-	0.13	--	--	68.00	-	-	127	-	-
YVD-14R	YVD-060920-20	6/9/2020	N	009269	569	--	--	569	--	--	0.070	U	--	-	-	-	269	--	--	149	--	--	0.11	--	--	70.50	--	--	130	--	--
YVD-14R	YVD-092120-14	9/21/2020	N	013896	560	--	--	560	--	--	0.070	U	--	-	-	-	260	--	--	141	--	--	0.21	--	--	68.50	--	--	122	--	--
YVD-14R	YVD-120820-20	12/8/2020	N	017137	556	--	--	556	--	--	0.070	U	--	-	-	-	263	--	--	148	--	--	0.12	--	--	68.00	--	--	119	--	--
YVD-14R	YVD-030121-08	3/1/2021	N	119931	564	--	--	564	--	--	0.070	U	--	-	-	-	266	--	--	139	--	--	0.14	--	--	70.50	--	--	129	--	--
YVD-14R	YVD-060621-09	6/6/2021	N	124053	558	--	--	558	--	--	0.070	U	--	-	-	-	262	--	--	131	--	--	0.14	--	--	68.00	--	--	121	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-15	YVD-15-130917	09/17/2013	N	SWI0123	514	-	-	515	-	-	-	-	-	0.1	U	-	125	-	-	62.8	-	-	5	U	-	51.6	-	-	72.5	-	-
YVD-15	YVD-15-131212	12/12/2013	N	SWL0078	494	-	-	495	-	-	-	-	-	0.02	U	-	131	-	-	120	-	-	5	U	-	59.4	-	-	71.2	-	-
YVD-15	YVD-15-140319	03/19/2014	N	SXC0107	534	-	-	535	-	-	-	-	-	0.112	-	-	124	-	-	54.9	-	-	5	U	-	57.9	-	-	47.4	-	-
YVD-15	YVD-15-140603	06/03/2014	N	SXF0025	509	-	-	510	-	-	-	-	-	0.1	U	-	138	-	-	82.5	-	-	5	U	-	64.7	-	-	88.1	-	-
YVD-15	YVD-15-140924	09/24/2014	N	SXI0173	541	-	-	545	-	-	-	-	-	0.246	-	-	132	-	-	58.7	-	-	5	U	-	56.9	-	-	54.8	-	-
YVD-15	YVD-15-141217	12/17/2014	N	SXL0121	518	-	-	520	-	-	-	-	-	0.1	U	-	175	-	-	57.6	-	-	5	U	-	81.6	-	-	66.9	-	-
YVD-15	YVD-15-150317	03/17/2015	N	5904651	550	-	-	550	-	-	-	-	-	0.1	U	-	280	-	-	65	-	-	5	U	-	130.0	-	-	67	-	-
YVD-15	YVD-15-150617	06/17/2015	N	59011021	550	-	-	550	-	-	-	-	-	0.1	U	-	140	-	-	42	-	-	0.5	U	-	66.0	J	RPD	39	J-	MSD, HTQ
YVD-15	YVD-15-150925	09/25/2015	N	59020431	480	-	-	480	-	-	-	-	-	0.1	U	-	98.0	-	-	22	-	-	5	U	-	46.0	-	-	14	-	-
YVD-15	YVD-15-151215	12/15/2015	N	59025431	540	J	FDP	540	J	FDP	-	-	-	-	R	MSD	120	-	-	37	-	-	5	U	-	59.0	-	-	38	-	-
YVD-15	YVD-15-160309	03/09/2016	N	59029711	520	-	-	520	-	-	-	-	-	0.1	UJ	FDP	120	-	-	32	-	-	5	U	-	60.0	-	-	36	-	-
YVD-15	YVD-15-160621	6/21/2016	N	59037271	430	-	-	430	-	-	-	-	-	0.13	J-	MSD	110	-	-	26	-	-	5	U	-	56.0	-	-	31	-	-
YVD-15	YVD-15-160928	9/28/2016	N	K1611629	401	-	-	401	-	-	-	-	-	0.050	U	MBK	112	-	-	22.5	-	-	0.29	-	-	50.9	-	-	26.6	-	-
YVD-15	YVD-15-161215	12/15/2016	N	K1615126	395	-	-	395	-	-	-	-	-	0.050	U	-	113	-	-	22.1	-	-	0.32	-	-	50.4	-	-	25.5	-	-
YVD-15	YVD-030917-23	3/9/2017	N	K1702404	395	-	-	395	-	-	-	-	-	0.050	U	-	119	-	-	23.0	-	-	0.34	-	-	52.9	-	-	25.0	J	HTQ
YVD-15	YVD-060617-20	6/6/2017	N	K1705754	399	-	-	399	-	-	-	-	-	0.050	U	-	126	-	-	21.8	-	-	0.32	-	-	54.6	-	-	23.0	-	-
YVD-15	YVD-092517-10	9/25/2017	N	K1710333	412	-	-	412	-	-	-	-	-	0.050	U	-	112	-	-	22.1	-	-	0.35	-	-	50.2	-	-	21.8	-	-
YVD-15	YVD-120517-28	12/5/2017	N	K1713091	414	-	-	414	-	-	-	-	-	0.050	U	-	112	-	-	21.8	-	-	0.34	-	-	48.0	-	-	22.7	J	HTQ
YVD-15	YVD-031818-09	3/18/2018	N	870610	397	-	-	397	-	-	0.070	U	-	-	-	-	104	-	-	21.7	-	-	0.32	-	-	46.60	-	-	24.4	-	-
YVD-15	YVD-060318-08	6/3/2018	N	874568	401	-	-	401	-	-	0.070	U	FBK	-	-	-	100	-	-	22.0	-	-	0.34	-	-	45.50	-	-	27.0	-	-
YVD-15	YVD-090918-11	9/9/2018	N	880601	395	-	-	395	-	-	0.070	U	-	-	-	-	97.5	-	-	22.8	-	-	0.35	-	-	42.70	-	-	24.4	-	-
YVD-15	YVD-121018-06	12/10/2018	N	884857	400	-	-	400	-	-	0.070	U	-	-	-	-	92.5	-	-	24.3	-	-	0.33	U	FBK	41.00	J	MSD	26.3	-	-
YVD-15	YVD-031719-10	3/17/2019	N	988239	394	-	-	394	-	-	0.070	U	-	-	-	-	91.5	-	-	21.1	-	-	0.31	U	FBK	39.75	-	-	24.3	-	-
YVD-15	YVD-060419-29	6/4/2019	N	992242	390	-	-	390	-	-	0.070	U	-	-	-	-	92.0	-	-	19.5	-	-	0.30	-	-	40.80	-	-	23.6	-	-
YVD-15	YVD-090919-11	9/9/2019	N	998357	407	-	-	407	-	-	0.070	U	-	-	-	-	91.0	-	-	21.8	-	-	0.34	-	-	39.40	-	-	23.4	-	-
YVD-15	YVD-121019-19	12/10/2019	N	902321	400	-	-	400	-	-	0.070	U	-	-	-	-	88.0	-	-	20.5	-	-	0.37	-	-	38.65	-	-	23.5	-	-
YVD-15	YVD-033020-06	3/30/2020	N	006241	396	-	-	396	-	-	0.070	U	-	-	-	-	86.5	-	-	20.6	-	-	0.37	--	--	38.25	-	-	22.3	-	-
YVD-15	YVD-060920-16	6/9/2020	N	009269	397	--	--	397	--	--	0.070	U	--	-	-	-	86.5	--	--	20.8	--	--	0.31	--	--	38.10	--	--	21.0	--	--
YVD-15	YVD-092020-09	9/20/2020	N	013864	390	--	--	390	--	--	0.070	U	--	-	-	-	87.5	--	--	21.1	--	--	0.31	--	--	38.70	--	--	21.2	--	--
YVD-15	YVD-120720-14	12/7/2020	N	017035	390	--	--	390	--	--	0.070	U	--	-	-	-	87.0	--	--	20.7	--	--	0.42	--	--	39.00	--	--	19.7	--	--
YVD-15	YVD-030121-14	3/1/2021	N	119931	397	--	--	397	--	--	0.070	U	--	-	-	-	87.5	--	--	21.1	--	--	0.34	--	--	39.35	--	--	22.0	--	--
YVD-15	YVD-060621-08	6/6/2021	N	124053	428	--	--	428	--	--	0.070	U	--	-	-	-	94.5	--	--	21.8	--	--	0.29	--	--	41.65	--	--	21.6	--	--
YVD-16	YVD-16-130923	09/23/2013	N	SWI0178	391	--	--	391	--	--	-	-	-	0.1	U	-	85.0	-	-	-	-	-	-	-	-	32.9	-	-	-	-	-
YVD-16	YVD-16-130926	09/26/2013	N	SWI0190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.1	-	-	5	U	-	-	-	-	28.8	-	-
YVD-16	YVD-16-131212	12/12/2013	N	SWL0073	309	-	-	310	-	-	-	-	-	0.02	UJ	MSD	87.7	-	-	46.7	-	-	5	U	-	32.1	-	-	28.8	-	-
YVD-16	YVD-16-140318	03/18/2014	N	SXC0107	298	-	-	300	-	-	-	-	-	0.1	U	-	105.0	-	-	46.1	-	-	5	U	-	53.2	-	-	23.5	-	-
YVD-16	YVD-16-140603	06/03/2014	N	SXF0017	287	-	-	288	-	-	-	-	-	0.1	U	-	86.3	-	-	36.7	-	-	2	U	-	37.0	-	-	21.9	-	-
YVD-16	YVD-16-140923	09/23/2014	N	SXI0173	303	-	-	305	-	-	-	-	-	0.1	U	-	99.2	-	-	38	-	-	2.5	U	-	38.9	-	-	21.4	-	-
YVD-16	YVD-16-141217	12/17/2014	N	SXL0121	298	-	-	300	-	-	-	-	-	0.1	U	-	94.9	-	-	37.9	-	-	2.5	U	-	37.1	-	-	20.6	-	-
YVD-16	YVD-D3-141217	12/17/2014	FD	SXL0121	308	-	-	310	-	-	-	-	-	0.1	U	-	92.9	-	-	39.9	-	-	0.5	U	-	36.2	-	-	22.4	-	-
YVD-16	YVD-16-150317	03/17/2015	N	5904651	310	-	-	310	-	-	-	-	-	0.11	-	-	93.0	-	-	39	-	-	2.5	U	-	34.0	-	-	22	-	-
YVD-16	YVD-16-150616	06/16/2015	N	59010961	310	-	-	310	-	-	-	-	-	0.1	-	-	96.0	-	-	43	-	-	2.5	U	-	35.0	-	-	23	-	-
YVD-16	YVD-16-150923	09/23/2015	N	59020281	330	-	-	330	-	-	-	-	-	0.1	U	-	88.0	-	-	39	-	-	2.5	U	-	37.0	-	-	23	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-16	YVD-16-151215	12/15/2015	N	59025431	350	J	FDP	350	J	FDP	-	-	-	-	R	MSD	89.0	-	-	38	-	-	2.5	U	-	34.0	-	-	22	-	-
YVD-16	YVD-16-160309	03/09/2016	N	59029711	300	-	-	300	-	-	-	-	-	0.15	J	FDP	90.0	-	-	39	-	-	2.5	U	-	36.0	-	-	23	-	-
YVD-16	YVD-16-160621	6/21/2016	N	59037151	300	-	-	300	-	-	-	-	-	0.1	U	-	85.0	-	-	42	-	-	2.5	U	-	33.0	-	-	22	-	-
YVD-16	YVD-D2-160621	6/21/2016	FD	59037151	300	-	-	300	-	-	-	-	-	0.1	U	-	86.0	-	-	40	-	-	0.5	U	-	34.0	-	-	22	-	-
YVD-16	YVD-16-160928	9/28/2016	N	K1611629	301	-	-	301	-	-	-	-	-	0.050	U	MBK	92.4	-	-	33.3	-	-	0.22	-	-	33.2	-	-	19.7	-	-
YVD-16	YVD-16-161215	12/15/2016	N	K1615126	298	-	-	298	-	-	-	-	-	0.050	U	-	88.4	-	-	33.7	-	-	0.24	-	-	31.1	-	-	19.7	-	-
YVD-16	YVD-030917-22	3/9/2017	N	K1702404	295	-	-	295	-	-	-	-	-	0.050	U	-	87.1	-	-	33.9	-	-	0.25	-	-	31.2	-	-	20.1	J	HTQ
YVD-16	YVD-060517-12	6/5/2017	N	K1705754	298	-	-	298	-	-	-	-	-	0.050	U	-	86.8	-	-	33.6	-	-	0.25	-	-	31.6	-	-	19.7	-	-
YVD-16	YVD-092617-28	9/26/2017	N	K1710381	309	-	-	309	-	-	-	-	-	0.050	U	-	89.0	-	-	32.8	-	-	0.23	-	-	31.7	-	-	19.1	J	HTQ
YVD-16	YVD-120517-22	12/5/2017	N	K1713091	294	-	-	294	-	-	-	-	-	0.050	U	-	87.9	-	-	33.3	-	-	0.24	-	-	30.1	-	-	19.8	J	HTQ
YVD-16	YVD-031918-16	3/19/2018	N	870634	297	-	-	297	-	-	0.070	U	-	-	-	-	88.5	-	-	34.4	-	-	0.20	-	-	30.25	-	-	20.3	-	-
YVD-16	YVD-060318-10	6/3/2018	N	874568	314	-	-	314	-	-	0.070	U	FBK	-	-	-	90.0	-	-	34.9	-	-	0.22	-	-	32.80	-	-	20.7	-	-
YVD-16	YVD-090918-07	9/9/2018	N	880601	309	-	-	309	-	-	0.070	U	-	-	-	-	89.5	-	-	35.7	-	-	0.21	-	-	30.55	-	-	21.4	-	-
YVD-16	YVD-121118-20	12/11/2018	N	884939	306	-	-	306	-	-	0.070	U	-	-	-	-	89.5	-	-	32.6	-	-	0.19	-	-	31.05	-	-	21.8	-	-
YVD-16	YVD-031719-08	3/17/2019	N	988239	300	-	-	300	-	-	0.070	U	-	-	-	-	88.5	-	-	35.4	-	-	0.18	U	FBK	30.65	-	-	22.5	-	-
YVD-16	YVD-060219-06	6/2/2019	N	991939	301	-	-	301	-	-	0.070	U	-	-	-	-	88.5	-	-	24.6	U	FBK	0.17	U	FBK	30.90	-	-	23.3	-	-
YVD-16	YVD-090919-07	9/9/2019	N	998357	303	-	-	303	-	-	0.070	U	-	-	-	-	86.5	-	-	36.9	-	-	0.21	-	-	30.40	-	-	22.9	-	-
YVD-16	YVD-120919-11	12/9/2019	N	902276	296	-	-	296	-	-	0.070	U	-	-	-	-	86.0	-	-	36.7	-	-	0.24	-	-	30.35	-	-	23.5	-	-
YVD-16	YVD-033120-16	3/31/2020	N	006260	287	-	-	287	-	-	0.070	U	-	-	-	-	85.5	-	-	38.0	-	-	0.18	--	--	30.30	-	-	22.8	-	-
YVD-16	YVD-061020-30	6/10/2020	N	009361	289	--	--	289	--	--	0.070	U	--	-	-	-	81.5	--	--	37.8	--	--	0.17	--	--	28.80	J	MS	21.8	--	--
YVD-16	YVD-092020-06	9/20/2020	N	013864	292	--	--	292	--	--	0.070	U	--	-	-	-	88.0	--	--	39.0	--	--	0.17	--	--	31.40	--	--	22.4	--	--
YVD-16	YVD-120720-08	12/7/2020	N	017035	298	--	--	298	--	--	0.070	U	--	-	-	-	92.5	--	--	41.2	--	--	0.19	--	--	33.15	--	--	24.6	--	--
YVD-16	YVD-030121-02	3/1/2021	N	119931	290	--	--	290	--	--	0.070	U	--	-	-	-	90.0	--	--	42.9	--	--	0.20	--	--	32.10	--	--	24.3	--	--
YVD-16	YVD-030121-04	3/1/2021	FD	119931	288	--	--	288	--	--	0.070	U	--	-	-	-	91.5	--	--	42.9	--	--	0.20	--	--	32.65	--	--	24.7	--	--
YVD-16	YVD-060621-03	6/6/2021	N	124053	299	--	--	299	--	--	0.070	U	--	-	-	-	88.5	--	--	37.5	--	--	0.16	--	--	31.85	--	--	21.8	--	--
YVD-17	YVD-17-130919	09/19/2013	N	SWI0142	213	-	-	215	-	-	-	-	-	0.1	U	-	72.7	-	-	3.1	-	-	0.5	U	-	35.8	-	-	-	-	-
YVD-17	YVD-17-130924	09/24/2013	N	SWI0175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YVD-17	YVD-17-131210	12/10/2013	N	SWL0055	169	-	-	170	-	-	-	-	-	0.02	UJ	MSD	54.2	-	-	2.98	-	-	0.5	U	-	28.4	-	-	0.68	-	-
YVD-17	YVD-17-140316	03/16/2014	N	SXC0081	144	-	-	145	-	-	-	-	-	0.166	-	-	36.0	-	-	3.45	-	-	0.65	-	-	17.6	-	-	1.07	-	-
YVD-17	YVD-17-140601	06/01/2014	N	SXF0008	169	-	-	170	-	-	-	-	-	0.1	U	-	42.3	-	-	3.17	-	-	0.5	U	-	18.5	-	-	0.67	-	-
YVD-17	YVD-17-140922	09/22/2014	N	SXI0148	183	-	-	185	-	-	-	-	-	0.1	U	-	47.5	-	-	2.87	-	-	0.5	U	-	21.2	-	-	0.96	-	-
YVD-17	YVD-17-141215	12/15/2014	N	SXL0103	168	-	-	170	-	-	-	-	-	0.1	U	-	42.1	-	-	2.99	J+	MSD	0.5	U	-	17.8	-	-	0.66	J	DUP
YVD-17	YVD-17-150316	03/16/2015	N	5904471	130	-	-	130	-	-	-	-	-	0.1	U	-	33.0	-	-	3.5	-	-	0.5	-	-	17.0	-	-	1.1	-	-
YVD-17	YVD-D1-150316	03/16/2015	FD	5904471	130	-	-	130	-	-	-	-	-	0.1	U	-	33.0	-	-	3.5	-	-	0.51	-	-	17.0	-	-	1.2	-	-
YVD-17	YVD-17-150617	06/17/2015	N	59010961	160	-	-	160	-	-	-	-	-	0.1	U	-	41.0	-	-	3	-	-	0.5	U	-	18.0	-	-	0.59	-	-
YVD-17	YVD-17-150924	09/24/2015	N	59020391	170	-	-	170	-	-	-	-	-	0.1	UJ	MSD	40.0	-	-	3.1	-	-	0.6	-	-	18.0	-	-	0.2	U	-
YVD-17	YVD-17-151216	12/16/2015	N	59025501	180	-	-	180	-	-	-	-	-	-	R	MSD	38.0	-	-	2.6	-	-	0.5	U	-	17.0	-	-	0.55	-	-
YVD-17	YVD-17-160310	03/10/2016	N	59029941	150	-	-	150	-	-	-	-	-	0.1	U	-	35.0	-	-	2.8	-	-	0.5	U	-	16.0	-	-	0.32	-	-
YVD-17	YVD-17-160623	6/23/2016	N	59037371	170	-	-	170	-	-	-	-	-	-	R	MSD	39.0	-	-	3.4	-	-	0.5	U	-	18.0	-	-	0.55	-	-
YVD-17	YVD-17-160926	9/26/2016	N	K1611565	182	-	-	182	-	-	-	-	-	0.050	U	MBK	40.8	-	-	2.91	-	-	0.32	-	-	17.3	-	-	1.16	-	-
YVD-17	YVD-17-161215	12/15/2016	N	K1615174	154	-	-	157	J	-	-	-	-	0.050	U	-	39.6	-	-	2.42	-	-	0.34	-	-	15.8	-	-	0.59	-	-
YVD-17	YVD-031017-29	3/10/2017	N	K1702448	142	-	-	156	J	-	-	-	-	0.050	U	-	36.6	-	-	2.65	-	-	0.33	-	-	15.7	-	-	0.42	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-17	YVD-060617-24	6/6/2017	N	K1705754	167	-	-	167	-	-	-	-	-	0.050	U	-	40.2	-	-	2.40	-	-	0.35	-	-	15.8	-	-	0.50	-	-
YVD-17	YVD-092517-08	9/25/2017	N	K1710274	179	-	-	179	-	-	-	-	-	0.050	U	-	43.1	-	-	2.89	-	-	0.37	-	-	16.4	-	-	0.99	-	-
YVD-17	YVD-120517-26	12/5/2017	N	K1713091	187	-	-	187	-	-	-	-	-	0.050	U	-	43.6	-	-	2.71	-	-	0.39	-	-	15.4	-	-	0.71	-	-
YVD-17	YVD-060418-20	6/4/2018	N	874662	160	-	-	160	-	-	0.09	U	FBK	-	-	-	39.1	-	-	2.87	-	-	0.30	-	-	16.5	-	-	0.66	-	-
YVD-17	YVD-060219-12	6/2/2019	N	991939	149	-	-	149	-	-	0.070	U	-	-	-	-	35.0	-	-	2.91	U	FBK	0.24	U	FBK	15.15	-	-	0.49	-	-
YVD-17	YVD-060820-10	6/8/2020	N	009144	146	--	--	146	--	--	0.070	U	--	-	-	-	34.4	--	--	3.17	--	--	0.25	--	--	15.15	--	--	0.70	--	--
YVD-17	YVD-060621-04	6/6/2021	N	124053	144	--	--	144	--	--	0.070	U	--	-	-	-	33.3	--	--	2.36	J	FDP	0.19	--	--	14.55	--	--	0.40	--	--
YVD-17	YVD-060621-05	6/6/2021	FD	124053	144	--	--	144	--	--	0.070	U	--	-	-	-	33.5	--	--	2.99	J	FDP	0.24	--	--	14.70	--	--	0.47	--	--
YVD-18	YVD-18-130919	09/19/2013	N	SWI0142	119	-	-	120	-	-	-	-	-	0.1	U	-	42.9	-	-	61.4	-	-	5	U	-	13.7	-	-	-	-	-
YVD-18	YVD-18-130925	09/25/2013	N	SWI0175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.6	-	-
YVD-18	YVD-18-131211	12/11/2013	N	SWL0073	109	-	-	110	-	-	-	-	-	0.02	UJ	MSD	50.4	-	-	62.9	-	-	5	U	-	17.1	-	-	14.2	J	FDP
YVD-18	YVD-D2-131211	12/11/2013	FD	SWL0073	114	-	-	115	-	-	-	-	-	0.02	UJ	MSD	50.2	-	-	66.5	-	-	5	U	-	16.7	-	-	23.5	J	FDP
YVD-18	YVD-18-140318	03/18/2014	N	SXC0095	119	-	-	120	-	-	-	-	-	0.134	J	FDP	51.7	-	-	66.7	-	-	5	U	-	16.5	-	-	18.8	-	-
YVD-18	YVD-D2-140318	03/18/2014	FD	SXC0095	124	-	-	125	-	-	-	-	-	0.28	J	FDP	52.0	-	-	62.1	-	-	5	U	-	16.6	-	-	17.1	-	-
YVD-18	YVD-18-140603	06/03/2014	N	SXF0017	117	-	-	118	-	-	-	-	-	0.1	U	-	46.8	-	-	64	-	-	2	U	-	15.4	-	-	16.9	-	-
YVD-18	YVD-18-140923	09/23/2014	N	SXI0173	114	-	-	115	-	-	-	-	-	0.1	U	-	48.5	-	-	54.7	-	-	2.5	U	-	15.6	-	-	13.8	-	-
YVD-18	YVD-18-141216	12/16/2014	N	SXL0121	114	-	-	115	-	-	-	-	-	0.1	U	-	52.7	-	-	59.6	-	-	2.5	U	-	17.7	-	-	16.5	-	-
YVD-18	YVD-18-150317	03/17/2015	N	5904541	110	-	-	110	-	-	-	-	-	0.1	U	-	56.0	-	-	64	-	-	2.5	U	-	19.0	-	-	20	J-	MSD
YVD-18	YVD-18-150617	06/17/2015	N	59010961	110	-	-	110	-	-	-	-	-	0.1	U	-	55.0	-	-	65	-	-	2.5	U	-	18.0	-	-	17	-	-
YVD-18	YVD-18-150924	09/24/2015	N	59020391	120	-	-	120	-	-	-	-	-	0.1	UJ	MSD	52.0	-	-	63	-	-	2.5	U	-	19.0	-	-	20	J+	MSD
YVD-18	YVD-18-151216	12/16/2015	N	59025501	120	-	-	120	-	-	-	-	-	-	R	MSD	60.0	-	-	66	-	-	2.5	U	-	20.0	-	-	23	-	-
YVD-18	YVD-18-160309	03/09/2016	N	59029941	120	-	-	120	-	-	-	-	-	0.1	U	-	62.0	-	-	63	-	-	2.5	U	-	21.0	-	-	22	-	-
YVD-18	YVD-18-160622	6/22/2016	N	59037271	130	-	-	130	-	-	-	-	-	0.1	UJ	MSD	55.0	-	-	61	-	-	2.5	U	-	19.0	-	-	21	-	-
YVD-18	YVD-18-160928	9/28/2016	N	K1611629	114	-	-	114	-	-	-	-	-	0.050	U	MBK	58.2	-	-	56.8	-	-	0.36	-	-	19.7	-	-	20.5	-	-
YVD-18	YVD-18-161214	12/14/2016	N	K1615083	111	-	-	111	-	-	-	-	-	0.050	U	-	62.5	-	-	56.3	-	-	0.38	-	-	19.6	-	-	21.5	-	-
YVD-18	YVD-D3-161214	12/14/2016	FD	K1615083	111	-	-	111	-	-	-	-	-	0.115	-	-	60.6	-	-	56.4	-	-	0.37	-	-	20.1	-	-	21.5	-	-
YVD-18	YVD-030617-05	3/6/2017	N	K1702324	110	-	-	110	-	-	-	-	-	1	U	-	65.4	-	-	55.9	-	-	0.40	-	-	20.5	-	-	23.7	J	HTQ
YVD-18	YVD-060717-31	6/7/2017	N	K1705833	114	-	-	114	-	-	-	-	-	0.050	U	-	65.2	-	-	57.0	-	-	0.34	-	-	21.4	-	-	22.9	-	-
YVD-18	YVD-092617-27	9/26/2017	N	K1710333	115	-	-	115	-	-	-	-	-	0.050	U	-	58.5	-	-	54.8	-	-	0.38	-	-	18.3	-	-	21.6	-	-
YVD-18	YVD-120417-05	12/4/2017	N	K1713026	114	-	-	114	-	-	-	-	-	0.050	U	-	62.6	-	-	58.9	-	-	0.40	-	-	20.0	-	-	24.4	-	-
YVD-18	YVD-031918-17	3/19/2018	N	870634	111	-	-	111	-	-	0.070	U	-	-	-	-	67.5	-	-	68.2	-	-	0.34	-	-	22.00	-	-	27.7	-	-
YVD-18	YVD-060318-07	6/3/2018	N	874568	110	-	-	110	-	-	0.070	U	-	-	-	-	70.0	-	-	65.9	-	-	0.33	-	-	23.30	-	-	26.3	-	-
YVD-18	YVD-090918-12	9/9/2018	N	880601	112	-	-	112	-	-	0.070	U	-	-	-	-	67.5	-	-	67.1	-	-	0.35	-	-	22.05	-	-	26.0	-	-
YVD-18	YVD-121018-09	12/10/2018	N	884857	115	-	-	115	-	-	0.070	U	-	-	-	-	68.0	-	-	66.8	-	-	0.32	U	FBK	22.00	J	MSD	27.0	-	-
YVD-18	YVD-031819-13	3/18/2019	N	988273	118	-	-	118	-	-	0.070	U	-	-	-	-	75.0	-	-	74.5	-	-	0.73	-	-	23.70	-	-	29.8	-	-
YVD-18	YVD-060319-23	6/3/2019	N	992053	118	-	-	118	-	-	0.070	U	-	-	-	-	75.0	-	-	71.0	-	-	0.25	-	-	23.35	-	-	28.4	-	-
YVD-18	YVD-090919-06	9/9/2019	N	998357	115	-	-	115	-	-	0.070	U	-	-	-	-	65.0	-	-	61.5	-	-	0.38	-	-	20.65	-	-	28.4	-	-
YVD-18	YVD-090919-08	9/9/2019	FD	998357	114	-	-	114	-	-	0.070	U	-	-	-	-	65.5	-	-	60.9	-	-	0.38	-	-	20.75	-	-	28.3	-	-
YVD-18	YVD-120919-08	12/9/2019	N	902276	113			113			0.070	U		-	-	-	70.0			68.1			0.34			22.95			28.8		
YVD-18	YVD-033020-07	3/30/2020	N	006241	117	-	-	117	-	-	0.070	U	-	-	-	-	73.5	-	-	71.6	-	-	0.30	--	--	23.30	-	-	28.5	-	-
YVD-18	YVD-060920-19	6/9/2020	N	009269	120	--	--	120	--	--	0.070	U	--	-	-	-	70.5	--	--	69.1	--	--	0.29	--	--	22.50	--	--	27.4	--	--
YVD-18	YVD-092120-15	9/21/2020	N	013896	115	--	--	115	--	--	0.070	U	--	-	-	-	67.0	--	--	70.9	--	--	0.31	--	--	21.55	--	--	27.4	--	--
YVD-18	YVD-092120-17	9/21/2020	FD	013896	113	--	--	113	--	--	0.070	U	--	-	-	-	65.5	--	--	70.4	--	--	0.31	--	--	21.15	--	--	27.2	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-18	YVD-120820-15	12/8/2020	N	017137	116	--	--	116	--	--	0.070	U	-	-	-	-	71.0	--	--	64.8	--	--	0.42	--	--	22.70	--	--	26.6	--	--
YVD-18	YVD-030221-17	3/2/2021	N	120034	122	--	--	122	--	--	0.070	U	--	-	-	-	76.0	--	--	72.2	--	--	0.31	--	--	23.70	--	--	28.2	--	--
YVD-18	YVD-060821-30	6/8/2021	N	124212	120	--	--	120	--	--	0.070	U	--	-	-	-	71.0	--	--	75.8	--	--	0.31	--	--	22.75	--	--	31.8	--	--
Equipment Blank	YVD-EB-130918	09/18/2013	EB	SWI0123	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-130925	09/25/2013	EB	SWI0175	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-131212	12/12/2013	EB	SWL0078	4	U	-	4	U	-	0.02	U	-	0.02	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-140317	03/17/2014	EB	SXC0081	4	U	-	4	U	-	0.124	-	-	0.124	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-140318	03/18/2014	EB	SXC0095	4	U	-	4	U	-	0.13	-	-	0.13	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-140319	03/19/2014	EB	SXC0107	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-140604	06/04/2014	EB	SXF0025	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	1.46	-	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-140924	09/24/2014	EB	SXI0173	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-141217	12/17/2014	EB	SXL0144	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.9	-	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-150617	06/17/2015	EB	59011021	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-150925	09/25/2015	EB	59020431	4	U	-	4	U	-	0.1	-	-	0.1	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-151216	12/16/2015	EB	59025501	5	-	-	5	-	-	0.12	J-	MSD	0.12	J-	MSD	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-160310	03/10/2016	EB	59029941	15	-	-	15	-	-	0.1	U	-	0.1	U	-	1	U	-	1.1	-	-	0.67	-	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-160623	6/23/2016	EB	59037371	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Equipment Blank	YVD-EB-160926	9/26/2016	EB	K1611506	2	U	-	2	U	-	0.050	U	MBK	0.050	U	MBK	0.097	-	-	0.2	U	-	0.2	U	-	0.0346	-	-	0.1	U	-
Equipment Blank	YVD-EB-160927	9/27/2016	EB	K1611629	2	U	-	2	U	-	0.050	U	MBK	0.050	U	MBK	0.011	J	-	0.1	U	-	0.1	U	-	0.0004	J	-	0.05	UJ	HTQ
Equipment Blank	YVD-EB-160928	9/28/2016	EB	K1611629	2	U	-	2	U	-	0.050	U	MBK	0.050	U	MBK	0.05	J	-	0.03	J	-	0.1	U	-	0.05	U	-	0.05	U	-
Equipment Blank	YVD-EB1-161214	12/14/2016	EB	K1615083	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Equipment Blank	YVD-EB2-161215	12/15/2016	EB	K1615126	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Equipment Blank	YVD-EB3-161216	12/16/2016	EB	K1615174	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.035	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-F1-130916	09/16/2013	FB	SWI0113	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-130917	09/17/2013	FB	SWI0113	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-130918	09/18/2013	FB	SWI0123	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-130918	09/18/2013	FB	SWI0138	4	U	-	4	U	-	0.12	-	-	0.12	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F5-130919	09/19/2013	FB	SWI0142	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	-	-	-
Field Blank	YVD-F6-130923	09/23/2013	FB	SWI0178	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	-	-	-	-	-	-	0.5	U	-	-	-	-
Field Blank	YVD-F7-130924	09/24/2013	FB	SWI0175	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F7-130926	09/26/2013	FB	SWI0190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	U	-	0.5	U	-	-	-	-	0.2	U	-	
Field Blank	YVD-F1-131209	12/09/2013	FB	SWL0055	4	U	-	4	U	-	0.02	U	-	0.02	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-131210	12/10/2013	FB	SWL0063	4	U	-	4	U	-	0.02	U	-	0.02	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-131211	12/11/2013	FB	SWL0073	4	U	-	4	U	-	0.02	U	-	0.02	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-131212	12/12/2013	FB	SWL0078	4	U	-	4	U	-	0.02	U	-	0.02	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Field Blank	YVD-F1-140316	03/16/2014	FB	SXC0081	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-140317	03/17/2014	FB	SXC0095	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-140318	03/18/2014	FB	SXC0107	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-140319	03/19/2014	FB	SXC0107	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-140601	06/01/2014	FB	SXF0008	4.25	-	-	4.25	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-140602	06/02/2014	FB	SXF0017	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-140603	06/03/2014	FB	SXF0025	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-140921	09/21/2014	FB	SXI0148	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-140922	09/22/2014	FB	SXI0148	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-140923	09/23/2014	FB	SXI0158	4	U	-	4	U	-	0.128	-	-	0.128	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-140924	09/24/2014	FB	SXI0173	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-141215	12/15/2014	FB	SXL0103	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	UJ	DUP
Field Blank	YVD-F2-141215	12/15/2014	FB	SXL0108	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-141216	12/16/2014	FB	SXL0121	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-141217	12/17/2014	FB	SXL0144	4	U	-	4	U	-	0.101	-	-	0.101	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	-	R	HTQ
Field Blank	YVD-F1-150315	03/15/2015	FB	5904471	15	-	-	15	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-150316	03/16/2015	FB	5904541	7.5	-	-	7.5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-150317	03/17/2015	FB	5904651	4.5	-	-	4.5	-	-	0.1	U	-	0.1	U	-	1.2	-	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-150615	06/15/2015	FB	59010751	10	-	-	10	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-150616	06/16/2015	FB	59010961	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-150617	06/17/2015	FB	59011021	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-150922	09/22/2015	FB	59020141	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-150923	09/23/2015	FB	59020281	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-150923	09/23/2015	FB	59020391	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-150924	09/24/2015	FB	59020391	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F5-150925	09/25/2015	FB	59020431	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-151213	12/13/2015	FB	59025351	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-151214	12/14/2015	FB	59025431	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-151215	12/15/2015	FB	59025501	5	-	-	5	-	-	-	R	MSD	-	R	MSD	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-151216	12/16/2015	FB	59025501	5	-	-	5	-	-	-	R	MSD	-	R	MSD	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-160307	03/07/2016	FB	59029521	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-160308	03/08/2016	FB	59029711	4	U	-	4	U	-	0.19	-	-	0.19	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-160309	03/09/2016	FB	59029941	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-160310	03/10/2016	FB	59029941	13	-	-	13	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F1-160620	6/20/2016	FB	59037101	5	-	-	5	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F2-160621	6/21/2016	FB	59037151	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F3-160622	6/22/2016	FB	59037271	5	-	-	5	-	-	0.22	-	-	0.22	-	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-F4-160623	6/23/2016	FB	59037371	10	-	-	10	-	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Field Blank	YVD-FB-160926	9/26/2016	FB	K1611506	2	U	-	2	U	-	0.050	U	MBK	0.050	U	MBK	0.02	U	MBK	0.2	U	-	0.2	U	-	0.0025	J	-	0.1	U	-
Field Blank	YVD-FB-160927	9/27/2016	FB	K1611565	2	U	-	2	U	-	0.050	U	MBK	0.050	U	MBK	0.02	U	MBK	0.2	U	-	0.2	U	-	0.05	U	-	0.1	U	-
Field Blank	YVD-FB-160928	9/28/2016	FB	K1611629	15	U	-	15	U	-	0.050	U	MBK	0.050	U	MBK	0.05	J	-	0.1	U	-	0.1	U	-	0.05	U	-	0.05	U	-
Field Blank	YVD-FB-160929	9/29/2016	FB	K1611698	2	U	-	2	U	-	0.050	U	MBK	0.050	U	MBK	0.07	J	-	0.2	U	-	0.2	U	-	0.05	U	-	0.1	U	-
Field Blank	YVD-FB1-161212	12/12/2016	FB	K1615029	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	HTQ
Field Blank	YVD-FB2-161213	12/13/2016	FB	K1615045	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-FB3-161214	12/14/2016	FB	K1615083	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	-	0.1	U	-
Field Blank	YVD-FB4-161215	12/15/2016	FB	K1615126	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-FB5-161216	12/16/2016	FB	K1615174	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-030617-01	3/6/2017	FB	K1702228	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-030717-06	3/7/2017	FB	K1702324	2	U	-	2	U	-	1	U	-	1	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	UJ	HTQ

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Field Blank	YVD-030817-11	3/8/2017	FB	K1702324	2	U	-	2	U	-	1	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-			
Field Blank	YVD-030917-17	3/9/2017	FB	K1702404	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-031017-26	3/10/2017	FB	K1702448	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-031317-30	3/13/2017	FB	K1702489	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-060417-01	6/4/2017	FB	K1705702	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.025	U	MBK	21	U	-	0.2	U	-	0.0053	U	MBK	5.3	U	-
Field Blank	YVD-060517-07	6/5/2017	FB	K1705702	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.029	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-060617-17	6/6/2017	FB	K1705754	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-060717-28	6/7/2017	FB	K1705833	2	U	-	2	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.2	U	-	0.2	U	-	0.0053	U	MBK	0.1	U	-
Field Blank	YVD-092517-01	9/25/2017	FB	K1710274	2.0	U	-	2.0	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.20	U	-	0.20	U	-	0.0018	J	-	0.10	U	-
Field Blank	YVD-092617-16	9/26/2017	FB	K1710333	2.0	U	-	2.0	U	-	0.050	U	-	0.050	U	-	0.026	U	MBK	0.20	U	-	0.20	U	-	0.0076	U	MBK	0.10	U	-
Field Blank	YVD-120417-01	12/4/2017	FB	K1713026	15	U	MBK	15	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.20	U	-	0.20	U	-	0.0053	U	MBK	0.10	U	-
Field Blank	YVD-120517-32	12/5/2017	FB	K1713091	15	U	MBK	15	U	-	0.050	U	-	0.050	U	-	0.021	U	MBK	0.42	-	-	0.20	U	-	0.0053	U	MBK	0.10	U	HTQ
Field Blank	YVD-120617-25	12/6/2017	FB	K1713157	15	U	MBK	15	U	-	0.050	U	MBK	0.050	U	MBK	0.021	U	MBK	0.20	U	-	0.20	U	-	0.0053	U	MBK	0.10	U	-
Field Blank	YVD-031818-01	3/18/2018	FB	870610	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-031918-10	3/19/2018	FB	870634	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060318-01	6/3/2018	FB	874568	5	U	-	5	U	-	0.18	-	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060418-12	6/4/2018	FB	874568	5	U	-	5	U	-	0.08	-	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060518-26	6/5/2018	FB	874860	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-061218-33	6/12/2018	FB	875438	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-090918-01	9/9/2018	FB	880601	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-121018-01	12/10/2018	FB	884857	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.28	-	-	0.10	-	-	0.06	UJ	MSD	0.05	U	-
Field Blank	YVD-121118-12	12/11/2018	FB	884939	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.14	-	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-031719-01	3/17/2019	FB	988239	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.22	-	-	0.12	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-031819-11	3/18/2019	FB	988273	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-032019-20	3/20/2019	FB	988477	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060219-01	6/2/2019	FB	991939	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	11.0	-	-	0.63	-	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060319-13	6/3/2019	FB	992053	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.31	-	-	0.1	U	-	0.06	U	-	0.08	-	-
Field Blank	YVD-060419-26	6/4/2019	FB	992242	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-090919-01	9/9/2019	FB	998357	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-090919-03	9/9/2019	FB	998357	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-091019-15	9/10/2019	FB	998438	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-091019-17	9/10/2019	FB	998438	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-120919-01	12/9/2019	FB	902276	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-120919-09	12/9/2019	FB	902276	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-121019-16	12/10/2019	FB	902321	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-121019-18	12/10/2019	FB	902321	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-033020-01	3/30/2020	FB	006241	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-033020-03	3/30/2020	FB	006241	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-033120-13	3/31/2020	FB	006260	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-033120-15	3/31/2020	FB	006260	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-060820-01	6/8/2020	FB	009144	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060820-02	6/8/2020	FB	009144	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-060920-11	6/9/2020	FB	009269	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-060920-13	6/9/2020	FB	009269	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-061020-29	6/10/2020	FB	009361	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-061020-28	6/10/2020	FB	009361	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-092020-01	9/20/2020	FB	013864	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-092020-02	9/20/2020	FB	013864	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-092120-10	9/21/2020	FB	013896	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-

Table 8
Historical Groundwater Analytical Results

Analyte					Alkalinity, Bicarbonate (as CaCO3)			Alkalinity, Total (as CaCO3)			Ammonia (as N)			Ammonia (as N)			Calcium			Chloride			Fluoride			Magnesium			Nitrate (as N)		
Analytical Method					SM 2320B			SM 2320B			SM 4500 NH3-G			EPA 350.1			EPA 200.7			EPA 300			EPA 300.0			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Field Blank	YVD-092120-12	9/21/2020	FB	013896	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-120720-01	12/7/2020	FB	017035	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-120720-03	12/7/2020	FB	017035	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-120820-16	12/8/2020	FB	017137	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-120820-18	12/8/2020	FB	017137	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-030121-01	3/1/2021	FB	119931	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-030121-03	3/1/2021	FB	119931	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-030221-11	3/2/2021	FB	120034	5	U	-	5	U	-	0.07	U	-	-	-	-	0.4	U	-	0.1	U	-	0.1	U	-	0.06	U	-	0.05	U	-
Field Blank	YVD-030221-13	3/2/2021	FB	120034	NS	-	-	NS	-	-	0.07	U	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-060621-01	6/6/2021	FB	124053	5.0	U	-	5.0	U	-	0.070	U	-	-	-	-	0.40	U	-	0.10	U	-	0.10	U	-	0.060	U	-	0.050	U	-
Field Blank	YVD-060621-02	6/6/2021	FB	124053	-	-	-	-	-	-	0.070	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Blank	YVD-060721-11	6/7/2021	FB	124105	5.0	U	-	5.0	U	-	0.070	U	-	-	-	-	0.40	U	-	0.10	U	-	0.10	U	-	0.060	U	-	0.050	U	-
Field Blank	YVD-060721-12	6/7/2021	FB	124105	-	-	-	-	-	-	0.070	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Blank	YVD-060821-20	6/8/2021	FB	124212	5.0	U	-	5.0	U	-	0.070	U	-	-	-	-	0.40	U	-	0.10	U	-	0.10	U	-	0.060	U	-	0.050	U	-
Field Blank	YVD-060821-21	6/8/2021	FB	124212	-	-	-	-	-	-	0.070	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blank Check	WW-1	4/25/2016	BC	59032861	110	-	-	110	-	-	0.33	-	-	0.33	-	-	1.7	U	-	160	U	-	100	U	-	0.83	U	-	40	U	-
Blank Check	DW-1	4/25/2016	BC	59032861	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-
Blank Check	DI-1	4/25/2016	BC	59032861	4	U	-	4	U	-	0.1	U	-	0.1	U	-	1	U	-	0.8	U	-	0.5	U	-	0.5	U	-	0.2	U	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-01	DC-01-130104	01/04/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-01	DC-01-130924	09/24/2013	N	SWI0178	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.123	-	-	-	-	-	6.10	-	-	43.0	-	-	223	-	-
DC-01	DC-01-131211	12/11/2013	N	SWL0063	2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.186	-	-	5.94	-	-	41.9	-	-	280	J-	MSD
DC-01	DC-01-140318	03/18/2014	N	SXC0095	2	U	-	0.304	-	-	0.079	-	-	-	-	-	-	-	-	-	-	-	5.93	-	-	40.2	-	-	250	J-	MSD
DC-01	DC-01-140602	06/02/2014	N	SXF0017	0.8	U	-	0.45	-	-	0.81	-	-	-	-	-	-	-	-	-	-	-	6.74	-	-	41.8	-	-	224	J-	MSD
DC-01	DC-01-140923	09/23/2014	N	SXI0158	2	U	-	0.25	U	-	0.12	-	-	-	-	-	-	-	-	-	-	-	6.02	-	-	44.3	J+	MSD	216	-	-
DC-01	DC-01-141216	12/16/2014	N	SXL0121	2	U	-	0.25	UJ	MSD	0.1	U	-	-	-	-	-	-	-	-	-	-	6.18	-	-	43.1	-	-	463	-	-
DC-01	DC-01-150316	03/16/2015	N	5904471	2	U	-	0.25	UJ	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	6.50	-	-	44.0	-	-	220	-	-
DC-01	DC-01-150616	06/16/2015	N	59010751	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.20	J+	MSD	42.0	J+	MSD	200	J-	MSD
DC-01	DC-01-150923	09/23/2015	N	59020281	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.00	-	-	43.0	-	-	200	-	-
DC-01	YVD-D1-150923	09/23/2015	FD	59020281	0.2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.10	-	-	43.0	-	-	210	-	-
DC-01	DC-01-151214	12/14/2015	N	59025431	2	U	-	-	R	MSD	0.3	J	FDP	-	-	-	-	-	-	-	-	-	6.80	-	-	48.0	-	-	220	-	-
DC-01	DC-01-160308	03/08/2016	N	59029711	2	U	-	-	R	MSD	0.26	-	-	-	-	-	-	-	-	-	-	-	6.20	-	-	42.0	-	-	210	J+	MSD
DC-01	DC-01-160620	6/20/2016	N	59037101	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.50	-	-	46.0	-	-	220	J-	MSD
DC-01	DC-01-160928	9/28/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.009	J	-	-	-	-	-	-	-	5.76	-	-	41.6	-	-	193	-	-
DC-01	DC-01-161212	12/12/2016	N	K1615045	0.10	UJ	HTQ	0.5	U	-	-	-	-	0.040	-	-	-	-	-	-	-	-	5.52	-	-	40.4	-	-	191	-	-
DC-01	YVD-030817-18	3/8/2017	N	K1702324	0.10	U	-	0.5	U	-	-	-	-	0.008	J	-	-	-	-	-	-	-	5.13	-	-	37.4	-	-	175	-	-
DC-01	YVD-060417-03	6/4/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	5.22	-	-	37.4	-	-	203	-	-
DC-01	YVD-060417-05	6/4/2017	FD	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	5.08	-	-	36.9	-	-	203	-	-
DC-01	YVD-092517-13	9/25/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	5.31	-	-	39.1	-	-	194	-	-
DC-01	YVD-120617-31	12/6/2017	N	K1713157	0.10	U	-	0.5	U	-	-	-	-	0.010	-	-	-	-	-	-	-	-	5.56	-	-	40.6	-	-	182	-	-
DC-01	YVD-060418-19	6/4/2018	N	874662	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.80	-	-	42.4	-	-	171	-	-
DC-01	YVD-060219-03	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.50	-	-	39.0	-	-	168	-	-
DC-01	YVD-060820-07	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.16	--	--	5.80	--	--	40.7	--	--	164	--	--
DC-01	YVD-060721-10	6/7/2021	N	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.30	--	--	36.4	--	--	136	--	--
DC-03	DC-03-130102	01/02/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-03	DC-03-130918	09/18/2013	N	SWI0138	2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	2.73	-	-	173	-	-	176	-	-
DC-03	DC-03-131212	12/12/2013	N	SWL0078	2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.221	-	-	3.29	-	-	172	-	-	176	-	-
DC-03	YVD-D3-131212	12/12/2013	FD	SWL0078	2	U	-	0.8311	U	ERL	-	-	-	-	-	-	-	-	-	0.244	-	-	3.53	-	-	181	-	-	160	-	-
DC-03	DC-03-140319	03/19/2014	N	SXC0107	2	U	-	0.938	J-	MSD	0.057	-	-	-	-	-	-	-	-	-	-	-	2.91	-	-	165	-	-	189	J	FDP
DC-03	YVD-D3-140319	03/19/2014	FD	SXC0107	2	U	-	0.718	J-	MSD	0.062	-	-	-	-	-	-	-	-	-	-	-	2.81	-	-	166	-	-	150	J	FDP
DC-03	DC-03-140604	06/04/2014	N	SXF0025	4	U	-	0.25	UJ	MSD	0.12	-	-	-	-	-	-	-	-	-	-	-	3.11	-	-	177	-	-	214	-	-
DC-03	DC-03-140924	09/24/2014	N	SXI0173	2	U	-	2.27	J+	MSD	0.073	J+	FBK	-	-	-	-	-	-	-	-	-	3.28	-	-	178	-	-	166	-	-
DC-03	DC-03-141217	12/17/2014	N	SXL0144	4	U	-	-	R	MSD	0.1	UJ	MSD	-	-	-	-	-	-	-	-	-	3.76	-	-	185	-	-	182	-	-
DC-03	YVD-D4-141217	12/17/2014	FD	SXL0144	10	U	-	-	R	MSD	0.13	J-	MSD	-	-	-	-	-	-	-	-	-	3.19	-	-	180	-	-	211	-	-
DC-03	DC-03-150318	03/18/2015	N	5904651	2	U	-	0.45	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.30	J-	MSD	180	-	-	160	-	-
DC-03	YVD-D4-150318	03/18/2015	FD	5904651	1	U	-	0.53	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.60	J-	MSD	180	-	-	160	-	-
DC-03	DC-03-150617	06/17/2015	N	59011021	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.60	J	RPD	190	J	RPD	170	-	-
DC-03	YVD-D4-150617	06/17/2015	FD	59011021	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.60	J	RPD	190	J	RPD	180	-	-
DC-03	DC-03-150925	09/25/2015	N	59020431	4	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.30	-	-	180	-	-	150	-	-
DC-03	YVD-D4-150925	09/25/2015	FD	59020431	4	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.20	-	-	180	-	-	160	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-03	DC-03-151216	12/16/2015	N	59025501	2	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	3.50	-	-	160	-	-	130	-	-
DC-03	YVD-D4-151216	12/16/2015	FD	59025501	1	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	3.50	-	-	160	-	-	130	-	-
DC-03	DC-03-160310	03/10/2016	N	59029941	2	U	-	0.94	J-	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.10	-	-	180	-	-	170	J	DUP
DC-03	YVD-D4-160310	03/10/2016	FD	59029941	2	U	-	0.25	UJ	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	-	-	180	-	-	180	J	DUP
DC-03	DC-03-160623	6/23/2016	N	59037371	2	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	190	-	-	160	-	-
DC-03	YVD-D4-160623	6/23/2016	FD	59037371	1	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.30	-	-	180	-	-	160	-	-
DC-03	DC-03-160927	9/27/2016	N	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.006	J	-	-	-	-	-	-	-	2.85	-	-	182	-	-	139	-	-
DC-03	DC-03-D2-160927	9/27/2016	FD	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.010	U	-	-	-	-	-	-	-	2.87	-	-	183	-	-	138	-	-
DC-03	DC-03-161212	12/12/2016	N	K1615029	0.10	U	-	0.5	U	-	-	-	-	0.199	-	-	-	-	-	-	-	-	3.05	-	-	167	-	-	112	-	-
DC-03	YVD-030817-13	3/8/2017	N	K1702324	0.12	-	-	0.5	U	-	-	-	-	0.006	J	-	-	-	-	-	-	-	2.58	-	-	159	-	-	104	-	-
DC-03	YVD-060517-02	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.022	-	-	-	-	-	-	-	-	2.49	-	-	157	-	-	147	-	-
DC-03	YVD-060517-04	6/5/2017	FD	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.019	-	-	-	-	-	-	-	-	2.49	-	-	158	-	-	122	-	-
DC-03	YVD-092617-22	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	2.92	-	-	159	-	-	115	-	-
DC-03	YVD-120417-10	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.017	U	MBK	-	-	-	-	-	-	2.76	-	-	161	-	-	108	-	-
DC-03	YVD-031818-04	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.01	-	-	180	-	-	111	-	-
DC-03	YVD-060418-22	6/4/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.34	-	-	174	-	-	108	-	-
DC-03	YVD-090918-17	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.82	-	-	160	-	-	136	-	-
DC-03	YVD-121018-03	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.24	-	-	170	-	-	134	-	-
DC-03	YVD-031819-19	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.19	-	-	178	-	-	148	-	-
DC-03	YVD-060419-32	6/4/2019	N	992242	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.02	-	-	172	-	-	152	-	-
DC-03	YVD-091019-23	9/10/2019	N	998438	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.06	-	-	159	-	-	154	-	-
DC-03	YVD-121019-22	12/10/2019	N	902321	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.60	-	-	164	-	-	156	-	-
DC-03	YVD-033120-22	3/31/2020	N	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.14	-	-	168	-	-	146	-	-
DC-03	YVD-060920-26	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS										0.070	U	--	3.30	--	--	174	--	--	161	--	--
DC-03	YVD-092120-21	9/21/2020	N	013896	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.06	--	--	160	--	--	166	--	--
DC-03	YVD-120720-05	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.58	--	--	170	--	--	160	--	--
DC-03	YVD-120720-07	12/7/2020	FD	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.66	--	--	166	--	--	161	--	--
DC-03	YVD-030221-23	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.22	--	--	166	--	--	154	--	--
DC-03	YVD-060821-27	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.07	--	--	160	--	--	162	--	--
DC-03D	DC-03D-130918	09/18/2013	N	SWI0138	2	U	-	0.255	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	2.71	-	-	62.1	-	-	101	-	-
DC-03D	DC-03D-131212	12/12/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.06	U	-	2.67	-	-	59.7	-	-	99.1	-	-
DC-03D	DC-03D-140319	03/19/2014	N	SXC0107	2	U	-	0.427	J-	MSD	0.05	U	-	-	-	-	-	-	-	-	-	-	2.67	-	-	57.5	-	-	106	-	-
DC-03D	DC-03D-140603	06/03/2014	N	SXF0017	0.8	U	-	0.468	-	-	0.074	J+	FBK	-	-	-	-	-	-	-	-	-	2.66	-	-	59.0	-	-	103	J-	MSD
DC-03D	DC-03D-140923	09/23/2014	N	SXI0173	1	U	-	0.25	U	-	0.098	-	-	-	-	-	-	-	-	-	-	-	3.40	-	-	67.8	-	-	89.4	-	-
DC-03D	DC-03D-141217	12/17/2014	N	SXL0121	1	U	-	0.282	J-	MSD	0.1	U	-	-	-	-	-	-	-	-	-	-	2.92	-	-	60.7	-	-	92.2	-	-
DC-03D	DC-03D-150317	03/17/2015	N	5904651	1	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	J-	MSD	68.0	-	-	87	-	-
DC-03D	DC-03D-150617	06/17/2015	N	59011021	1	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.20	J	RPD	68.0	J	RPD	93	-	-
DC-03D	DC-03D-150925	09/25/2015	N	59020431	4	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	-	-	65.0	-	-	86	-	-
DC-03D	DC-03D-151216	12/16/2015	N	59025501	1	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	3.20	-	-	69.0	-	-	94	-	-
DC-03D	DC-03D-160310	03/10/2016	N	59029941	1	U	-	0.25	UJ	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	-	-	68.0	-	-	90	J	DUP
DC-03D	DC-03D-160623	6/23/2016	N	59037371	2	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	-	-	70.0	-	-	89	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-03D	DC-03D-160927	9/27/2016	N	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.006	J	-	-	-	-	-	-	-	2.73	-	-	63.0	-	-	90.9	-	-
DC-03D	DC-03D-161212	12/12/2016	N	K1615029	0.10	U	-	0.5	U	-	-	-	-	0.085	-	-	-	-	-	-	-	-	2.98	-	-	65.0	-	-	90.7	-	-
DC-03D	YVD-030817-14	3/8/2017	N	K1702324	0.05	J	-	0.5	U	-	-	-	-	0.008	J	-	-	-	-	-	-	-	2.75	-	-	61.3	-	-	80.8	-	-
DC-03D	YVD-030817-16	3/8/2017	FD	K1702324	0.04	J	-	0.5	U	-	-	-	-	0.008	J	-	-	-	-	-	-	-	2.69	-	-	60.2	-	-	79.6	-	-
DC-03D	YVD-060517-09	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.006	J	-	-	-	-	-	-	-	2.66	-	-	59.7	-	-	91.6	-	-
DC-03D	YVD-092617-24	9/26/2017	N	K1710333	0.10	U	-	-	R	MSD	-	-	-	0.011	-	-	-	-	-	-	-	-	3.16	-	-	67.1	-	-	101	-	-
DC-03D	YVD-120417-08	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.011	U	MBK	-	-	-	-	-	-	2.64	-	-	60.9	-	-	86.7	-	-
DC-03D	YVD-031818-02	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.02	-	-	70.0	-	-	86.1	-	-
DC-03D	YVD-060418-24	6/4/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.24	-	-	67.0	-	-	82.1	-	-
DC-03D	YVD-090918-15	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.01	-	-	68.0	-	-	88.6	-	-
DC-03D	YVD-121018-05	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.18	-	-	67.0	-	-	83.0	-	-
DC-03D	YVD-031819-17	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.16	-	-	66.5	-	-	82.0	-	-
DC-03D	YVD-060419-30	6/4/2019	N	992242	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.94	-	-	65.5	-	-	81.8	-	-
DC-03D	YVD-060419-31	6/4/2019	FD	992242	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.96	-	-	66.0	-	-	82.6	-	-
DC-03D	YVD-091019-21	9/10/2019	N	998438	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.99	-	-	65.0	-	-	81.7	-	-
DC-03D	YVD-091019-22	9/10/2019	FD	998438	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.98	-	-	65.0	-	-	81.7	-	-
DC-03D	YVD-121019-20	12/10/2019	N	902321	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.18	-	-	61.5	-	-	80.9	-	-
DC-03D	YVD-033120-20	3/31/2020	N	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.92	-	-	64.0	-	-	74.5	-	-
DC-03D	YVD-061020-34	6/10/2020	N	009361	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.85	--	--	62.5	--	--	75.0	--	--
DC-03D	YVD-092120-19	9/21/2020	N	013896	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.96	--	--	65.0	--	--	82.4	--	--
DC-03D	YVD-120720-09	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.31	--	--	63.5	--	--	77.0	--	--
DC-03D	YVD-030221-21	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.96	--	--	63.5	--	--	80.6	--	--
DC-03D	YVD-030221-21	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.96	--	--	63.5	--	--	80.6	--	--
DC-03D	YVD-060821-29	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.04	--	--	63.5	--	--	83.7	--	--
DC-03D	YVD-060821-31	6/8/2021	FD	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.98	--	--	62.5	--	--	81.0	--	--
DC-04	DC-04-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-04	DC-04-130920	09/20/2013	N	SWI0142	-	-	-	3.03	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	3.45	-	-	32.1	-	-	93.6	-	-
DC-04	DC-04-130924	09/24/2013	N	SWI0175	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-04	DC-04-131212	12/12/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.104	-	-	3.51	-	-	31.7	-	-	110	-	-
DC-04	DC-04-140318	03/18/2014	N	SXC0107	2	U	-	0.707	J-	MSD	0.13	-	-	-	-	-	-	-	-	-	-	-	3.58	-	-	30.4	-	-	107	-	-
DC-04	DC-04-140603	06/03/2014	N	SXF0017	0.8	U	-	0.645	-	-	0.24	J+	FBK	-	-	-	-	-	-	-	-	-	3.65	-	-	32.3	-	-	104	J-	MSD
DC-04	DC-04-140923	09/23/2014	N	SXI0173	1	U	-	0.524	J+	MSD	0.29	-	-	-	-	-	-	-	-	-	-	-	4.51	-	-	35.5	-	-	108	-	-
DC-04	DC-04-141217	12/17/2014	N	SXL0121	1	U	-	0.25	UJ	MSD	0.17	-	-	-	-	-	-	-	-	-	-	-	4.34	-	-	34.9	-	-	120	-	-
DC-04	DC-04-150317	03/17/2015	N	5904651	1	U	-	0.33	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.90	J-	MSD	36.0	-	-	110	-	-
DC-04	DC-04-150617	06/17/2015	N	59010961	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.10	J+	MSD	36.0	J+	MSD	110	-	-
DC-04	DC-04-150924	09/24/2015	N	59020391	1	U	-	0.25	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.90	-	-	33.0	-	-	140	J-	MSD
DC-04	YVD-D3-150924	09/24/2015	FD	59020391	1	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.10	-	-	35.0	-	-	150	J-	MSD
DC-04	DC-04-151215	12/15/2015	N	59025431	1	U	-	-	R	MSD	0.25	UJ	FDP	-	-	-	-	-	-	-	-	-	4.20	-	-	36.0	-	-	130	-	-
DC-04	DC-04-160309	03/09/2016	N	59029711	1	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.00	-	-	36.0	-	-	150	J+	MSD
DC-04	DC-04-160621	6/21/2016	N	59037271	1	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.40	-	-	39.0	-	-	150	-	-
DC-04	DC-04-160926	9/26/2016	N	K1611506	0.10	U	-	-	R	MSD	-	-	-	0.137	-	-	-	-	-	-	-	-	4.50	-	-	38.2	-	-	142	-	-
DC-04	DC-04-161216	12/12/2016	N	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.052	-	-	-	-	-	-	-	-	4.11	-	-	36.9	-	-	155	-	-
DC-04	YVD-031017-31	3/10/2017	N	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.035	J	FDP	-	-	-	-	-	-	3.75	-	-	32.4	-	-	153	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-04	YVD-031017-33	3/10/2017	FD	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.053	J	FDP	-	-	-	-	-	-	3.74	-	-	32.3	-	-	152	-	-
DC-04	YVD-060617-26	6/6/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.085	-	-	-	-	-	-	-	-	3.96	-	-	34.7	-	-	129	-	-
DC-04	YVD-092517-06	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.044	-	-	-	-	-	-	-	-	4.06	-	-	35.9	-	-	140	-	-
DC-04	YVD-120517-24	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.037	-	-	-	-	-	-	-	-	3.62	-	-	32.7	-	-	121	-	-
DC-04	YVD-031818-07	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.02	-	-	35.6	-	-	115	-	-
DC-04	YVD-060418-18	6/4/2018	N	874662	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.18	-	-	34.4	-	-	119	-	-
DC-04	YVD-090918-18	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.98	-	-	32.8	-	-	109	-	-
DC-04	YVD-121118-18	12/11/2018	N	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.08	-	-	32.0	-	-	102	-	-
DC-04	YVD-032019-21	3/20/2019	N	988477	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.93	-	-	32.2	-	-	100	-	-
DC-04	YVD-060219-14	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.00	-	-	32.2	-	-	103	-	-
DC-04	YVD-090919-09	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.98	-	-	31.6	-	-	102	-	-
DC-04	YVD-120919-07	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.20	-	-	32.2	J	MSD	101	-	-
DC-04	YVD-033120-18	3/31/2020	N	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.04	-	-	32.8	-	-	101	-	-
DC-04	YVD-060820-08	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.07	--	--	4.14	--	--	33.8	--	--	102	--	--
DC-04	YVD-092020-07	9/20/2020	N	013864	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.22	--	--	34.6	--	--	108	--	--
DC-04	YVD-120820-23	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.32	--	--	35.2	--	--	121	--	--
DC-04	YVD-030221-20	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.40	--	--	34.7	--	--	112	--	--
DC-04	YVD-030221-22	3/2/2021	FD	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.22	--	--	34.3	--	--	111	--	--
DC-04	YVD-030221-20	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.40	--	--	34.7	--	--	112	--	--
DC-04	YVD-030221-22	3/2/2021	FD	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.22	--	--	34.3	--	--	111	--	--
DC-04	YVD-060621-06	6/6/2021	N	124053	0.050	U	--	5.0	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.22	--	--	33.2	--	--	109	--	--
DC-05	DC-05-130104	01/04/2013	N	EPA01	-		-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-
DC-05	DC-05-130920	09/20/2013	N	SWI0142	-		-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	2.88	-	-	64.2		-	154		-
DC-05	DC-05-130924	09/24/2013	N	SWI0175	2	U	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	
DC-05	DC-05-131212	12/12/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.723	-	-	3.92	-	-	64.2	-	-	178	-	-
DC-05	DC-05-140318	03/18/2014	N	SXC0107	2	U	-	0.558	J-	MSD	0.06	-	-	-	-	-	-	-	-	-	-	-	2.90	-	-	59.4	-	-	150	-	-
DC-05	DC-05-140603	06/03/2014	N	SXF0017	0.8	U	-	0.581	-	-	0.28	J+	FBK	-	-	-	-	-	-	-	-	-	3.25	-	-	61.3	-	-	128	J-	MSD
DC-05	DC-05-140923	09/23/2014	N	SXI0173	1	U	-	0.998	J+	MSD	0.16	-	-	-	-	-	-	-	-	-	-	-	3.86	-	-	71.0	-	-	122	-	-
DC-05	DC-05-141217	12/17/2014	N	SXL0121	1	U	-	0.25	UJ	MSD	0.13	-	-	-	-	-	-	-	-	-	-	-	3.41	-	-	59.0	-	-	141	-	-
DC-05	DC-05-150317	03/17/2015	N	5904541	0.8	U	-	0.27	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	-	-	61.0	-	-	140	J-	MSD
DC-05	DC-05-150616	06/16/2015	N	59010961	0.8	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.00	J+	MSD	64.0	J+	MSD	120	-	-
DC-05	YVD-D2-150616	06/16/2015	FD	59010961	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.30	J+	MSD	64.0	J+	MSD	110	-	-
DC-05	DC-05-150923	09/23/2015	N	59020391	0.8	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.10	-	-	56.0	-	-	110	J-	MSD
DC-05	DC-05-151215	12/15/2015	N	59025431	0.8	U	-	-	R	MSD	0.25	UJ	FDP	-	-	-	-	-	-	-	-	-	2.90	-	-	51.0	-	-	120	-	-
DC-05	DC-05-160309	03/09/2016	N	59029711	0.8	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.90	-	-	53.0	-	-	140	J+	MSD
DC-05	DC-05-160621	6/21/2016	N	59037151	0.8	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	2.80	-	-	53.0	-	-	130	-	-
DC-05	DC-05-160926	9/26/2016	N	K1611506	0.10	U	-	-	R	MSD	-	-	-	0.031	-	-	-	-	-	-	-	-	2.89	-	-	54.9	-	-	114	-	-
DC-05	DC-05-D1-160926	9/26/2016	FD	K1611506	0.10	U	-	-	R	MSD	-	-	-	0.028	-	-	-	-	-	-	-	-	3.06	-	-	58.1	-	-	114	-	-
DC-05	DC-05-161216	12/16/2016	N	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.048	-	-	-	-	-	-	-	-	2.60	-	-	47.9	-	-	108	-	-
DC-05	YVD-D5-161216	12/16/2016	FD	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.04	-	-	-	-	-	-	-	-	2.65	-	-	49.6	-	-	107	-	-
DC-05	YVD-030717-09	3/7/2017	N	K1702324	0.10	U	-	0.5	U	-	-	-	-	0.026	-	-	-	-	-	-	-	-	2.61	-	-	58.3	-	-	97.6	-	-
DC-05	YVD-060717-30	6/7/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.059	J	FDP	-	-	-	-	-	-	2.82	-	-	63.9	-	-	102	-	-
DC-05	YVD-060717-32	6/7/2017	FD	K1705833	0.10	U	-	0.5	U	-	-	-	-																		

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-05	YVD-031818-03	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.94	-	-	75.0	-	-	97.4	-	-
DC-05	YVD-031818-05	3/18/2018	FD	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.94	-	-	75.0	-	-	96.7	-	-
DC-05	YVD-060318-02	6/3/2018	FD	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.02	-	-	72.0	-	-	88.3	-	-
DC-05	YVD-090918-03	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.91	-	-	65.5	-	-	95.4	-	-
DC-05	YVD-121118-16	12/11/2018	N	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.05	-	-	68.1	-	-	92.2	-	-
DC-05	YVD-031719-02	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.10	-	-	68.5	-	-	117	-	-
DC-05	YVD-060219-08	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.14	-	-	71.0	-	-	122	-	-
DC-05	YVD-090919-14	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.02	-	-	65.5	-	-	129	-	-
DC-05	YVD-120919-03	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.12	-	-	72.5	J	MSD	110	-	-
DC-05	YVD-033020-12	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.20	-	-	76.0	-	-	142	-	-
DC-05	YVD-060820-06	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.26	--	--	76.0	--	--	114	--	--
DC-05	YVD-092020-03	9/20/2020	N	013864	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.18	--	--	72.0	--	--	149	--	--
DC-05	YVD-120720-06	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.42	--	--	65.0	--	--	166	--	--
DC-05	YVD-030221-16	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.24	--	--	60.0	--	--	143	--	--
DC-05	YVD-060721-14	6/7/2021	N	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.26	--	--	52.0	--	--	102	--	--
DC-05D	DC-05D-130920	09/20/2013	N	SWI0142	-	-	-	0.361	-	-	-	-	-	-	-	-	0.163	-	-	-	-	-	3.67	-	-	40.5	-	-	167	-	-
DC-05D	DC-05D-130924	09/24/2013	N	SWI0178	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-05D	DC-05D-131211	12/11/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.06	U	-	3.52	-	-	37.5	-	-	145	-	-
DC-05D	DC-05D-140318	03/18/2014	N	SXC0095	2	U	-	0.25	U	-	0.072	-	-	-	-	-	-	-	-	-	-	-	3.73	-	-	36.7	-	-	137	J-	MSD
DC-05D	DC-05D-140602	06/02/2014	N	SXF0017	0.8	U	-	0.591	-	-	0.56	J+	FBK	-	-	-	-	-	-	-	-	-	4.99	-	-	34.3	-	-	122	J-	MSD
DC-05D	DC-05D-140922	09/22/2014	N	SXI0148	0.8	U	-	0.424	-	-	0.057	-	-	-	-	-	-	-	-	-	-	-	3.56	-	-	37.8	-	-	127	-	-
DC-05D	DC-05D-141216	12/16/2014	N	SXL0121	0.2	U	-	0.25	UJ	MSD	0.39	-	-	-	-	-	-	-	-	-	-	-	5.18	-	-	36.8	-	-	140	-	-
DC-05D	DC-05D-150317	03/17/2015	N	5904541	0.8	U	-	0.25	UJ	MSD	0.3	-	-	-	-	-	-	-	-	-	-	-	4.60	-	-	39.0	-	-	120	J-	MSD
DC-05D	DC-05D-150616	06/16/2015	N	59010961	0.8	U	-	0.25	UJ	MSD	0.27	-	-	-	-	-	-	-	-	-	-	-	4.70	J+	MSD	41.0	J+	MSD	120	-	-
DC-05D	DC-05D-150923	09/23/2015	N	59020391	0.8	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.40	-	-	38.0	-	-	120	J-	MSD
DC-05D	YVD-D2-150923	09/23/2015	FD	59020391	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.40	-	-	38.0	-	-	120	J-	MSD
DC-05D	DC-05D-151215	12/15/2015	N	59025431	0.8	U	-	-	R	MSD	0.25	UJ	FDP	-	-	-	-	-	-	-	-	-	4.40	-	-	39.0	-	-	120	-	-
DC-05D	DC-05D-160309	03/09/2016	N	59029711	0.8	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.30	-	-	41.0	-	-	140	J+	MSD
DC-05D	DC-05D-160621	6/21/2016	N	59037271	0.8	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.10	-	-	41.0	-	-	130	-	-
DC-05D	DC-05D-160926	9/26/2016	N	K1611506	0.10	U	-	-	R	MSD	-	-	-	0.014	-	-	-	-	-	-	-	-	3.93	-	-	39.4	J	MSD	113	-	-
DC-05D	DC-05D-161214	12/14/2016	N	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.015	-	-	-	-	-	-	-	-	3.90	-	-	38.2	-	-	114	-	-
DC-05D	YVD-030717-12	3/7/2017	N	K1702324	0.10	U	-	0.5	U	-	-	-	-	0.041	-	-	-	-	-	-	-	-	3.64	-	-	35.6	-	-	105	-	-
DC-05D	YVD-060717-34	6/7/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.012	-	-	-	-	-	-	-	-	3.78	-	-	37.4	-	-	101	-	-
DC-05D	YVD-092517-02	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.024	J	FDP	-	-	-	-	-	-	3.91	-	-	38.7	-	-	118	-	-
DC-05D	YVD-092517-03	9/25/2017	FD	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.008	J	FDP	-	-	-	-	-	-	4.02	-	-	38.9	-	-	115	-	-
DC-05D	YVD-120517-20	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.013	-	-	-	-	-	-	-	-	3.69	-	-	37.6	-	-	112	-	-
DC-05D	YVD-031818-08	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.97	-	-	41.2	-	-	108	-	-
DC-05D	YVD-060318-03	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.12	-	-	39.6	-	-	105	-	-
DC-05D	YVD-060318-05	6/3/2018	FD	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.14	-	-	39.6	-	-	105	-	-
DC-05D	YVD-090918-02	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.00	-	-	38.0	-	-	107	-	-
DC-05D	YVD-121118-14	12/11/2018	N	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.15	-	-	38.0	-	-	102	-	-
DC-05D	YVD-031719-04	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.06	-	-	38.2	-	-	110	-	-
DC-05D	YVD-031719-06	3/17/2019	FD	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.11	-	-	38.6	-	-	109	-	-
DC-05D	YVD-060219-10	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.00	-	-	37.8	-	-	109	-	-
DC-05D	YVD-090919-12	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.96	-	-	35.4	-	-	105	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-05D	YVD-120919-05	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.97	-	-	36.6	J	MSD	105	-	-
DC-05D	YVD-033020-14	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.01	-	-	37.6	-	-	107	-	-
DC-05D	YVD-060820-02	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.03	--	--	38.6	--	--	118	--	--
DC-05D	YVD-060820-04	6/8/2020	FD	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.06	--	--	38.7	--	--	102	--	--
DC-05D	YVD-092020-04	9/20/2020	N	013864/20I0421	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.02	--	--	38.0	--	--	107	--	--
DC-05D	YVD-092020-05	9/20/2020	FD	013864/20I0421	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.03	--	--	37.8	--	--	106	--	--
DC-05D	YVD-120720-02	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.30	--	--	38.4	--	--	108	--	--
DC-05D	YVD-120720-04	12/7/2020	FD	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.26	--	--	38.2	--	--	108	--	--
DC-05D	YVD-030221-18	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.07	--	--	37.8	--	--	107	--	--
DC-05D	YVD-060721-13	6/7/2021	N	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.11	--	--	36.9	--	--	106	--	--
DC-07	DC-07-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-07	DC-07-130918	09/18/2013	N	SWI0123	2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1.00	U	-	45.7	-	-	168	-	-
DC-07	YVD-D1-130918	09/18/2013	FD	SWI0123	2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1.00	U	-	46.1	-	-	179	-	-
DC-07	DC-07-131210	12/10/2013	N	SWL0055	2	U	-	0.4366	UJ	ERL, MSD	-	-	-	-	-	-	-	-	-	0.0648	-	-	3.82	-	-	38.4	-	-	117	-	-
DC-07	DC-07-140316	03/16/2014	N	SXC0081	0.8	U	-	0.25	U	-	0.11	-	-	-	-	-	-	-	-	-	-	-	1.04	-	-	33.5	-	-	78.9	-	-
DC-07	DC-07-140602	06/02/2014	N	SXF0008	0.8	U	-	0.34	-	-	0.12	-	-	-	-	-	-	-	-	-	-	-	1.00	U	-	36.3	-	-	105	-	-
DC-07	DC-07-140922	09/22/2014	N	SXI0148	0.8	U	-	0.487	-	-	0.19	-	-	-	-	-	-	-	-	-	-	-	1.00	U	-	33.7	-	-	98.2	-	-
DC-07	DC-07-141216	12/16/2014	N	SXL0108	0.8	U	-	0.261	-	-	0.1	U	-	-	-	-	-	-	-	-	-	-	1.00	U	-	30.6	-	-	80.4	-	-
DC-07	YVD-D2-141216	12/16/2014	FD	SXL0108	0.2	U	-	0.305	-	-	0.1	U	-	-	-	-	-	-	-	-	-	-	1.00	U	-	30.8	-	-	82.1	-	-
DC-07	DC-07-150317	03/17/2015	N	5904541	0.8	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	1.00	-	-	35.0	-	-	83	J-	MSD
DC-07	DC-07-150617	06/17/2015	N	59011021	0.8	U	-	0.28	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	1.00	U	-	37.0	J	RPD	93	-	-
DC-07	DC-07-150924	09/24/2015	N	59020391	0.8	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	1.00	U	-	33.0	-	-	95	J-	MSD
DC-07	DC-07-151215	12/15/2015	N	59025501	0.8	U	-	-	R	MSD	0.41	J-	MSD	-	-	-	-	-	-	-	-	-	1.00	U	-	34.0	-	-	70	-	-
DC-07	DC-07-160309	03/09/2016	N	59029941	0.8	U	-	-	R	FBK, FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	1.10	-	-	36.0	-	-	78	J	DUP
DC-07	DC-07-160621	6/21/2016	N	59037271	0.8	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	1.20	-	-	38.0	-	-	96	-	-
DC-07	DC-07-160926	9/26/2016	N	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.057	-	-	-	-	-	-	-	-	1.06	-	-	36.6	-	-	92.3	-	-
DC-07	DC-07-161214	12/14/2016	N	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.078	-	-	-	-	-	-	-	-	1.05	-	-	32.0	-	-	72.4	-	-
DC-07	YVD-030917-25	3/9/2017	N	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.093	-	-	-	-	-	-	-	-	1.03	-	-	32.1	-	-	59.8	-	-
DC-07	YVD-060617-18	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.061	-	-	-	-	-	-	-	-	1.10	-	-	34.6	-	-	70.4	-	-
DC-07	YVD-092517-12	9/25/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.058	-	-	-	-	-	-	-	-	1.14	-	-	34.5	-	-	94.2	-	-
DC-07	YVD-120417-14	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.064	-	-	-	-	-	-	-	-	1.17	-	-	33.0	-	-	81.9	-	-
DC-07	YVD-060318-17	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	1.52	-	-	37.8	-	-	93.4	-	-
DC-07	YVD-060319-20	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	0.82	-	-	44.0	-	-	49.5	-	-
DC-07	YVD-060920-18	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	0.98	--	--	59.5	--	--	110	--	--
DC-07	YVD-092120-22	9/21/2020	N	013896	0.050	U	--	2.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	1.02	--	--	62.0	--	--	77.1	--	--
DC-07	YVD-120820-22	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	1.06	--	--	54.5	--	--	59.8	--	--
DC-07	YVD-030121-10	3/1/2021	N	119931	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	1.02	--	--	50.5	--	--	73.2	--	--
DC-07	YVD-060721-16	6/7/2021	N	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	0.96	--	--	48.4	--	--	23.1	J	FDP
DC-07	YVD-060721-17	6/7/2021	FD	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	0.97	--	--	48.1	--	--	37.8	J	FDP
DC-09	DC-09-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-09	DC-09-130923	09/23/2013	N	SWI0178	-	-	-	0.447	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	2.75	-	-	39.7	-	-	-	-	-
DC-09	DC-09-130926	09/26/2013	N	SWI0190	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.7	-	-	
DC-09	DC-09-131211	12/11/2013	N	SWL0063	0.2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.125	-	-	2.48	-	-	39.1	-	-	34.4	J-	MSD

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-09	DC-09-140317	03/17/2014	N	SXC0095	0.2	U	-	0.251	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-	2.88	-	-	36.5	-	-	28.8	J-	MSD
DC-09	DC-09-140602	06/02/2014	N	SXF0008	0.2	U	-	0.279	-	-	0.22	J	FDP	-	-	-	-	-	-	-	-	-	2.92	-	-	38.1	-	-	29.4	-	-
DC-09	YVD-D3-140602	06/02/2014	FD	SXF0008	0.2	U	-	0.359	-	-	0.16	J	FDP	-	-	-	-	-	-	-	-	-	3.08	-	-	37.9	-	-	29.1	-	-
DC-09	DC-09-140923	09/23/2014	N	SXI0158	0.2	U	-	0.25	U	-	0.05	U	-	-	-	-	-	-	-	-	-	-	1.94	-	-	38.9	J+	MSD	29.6	-	-
DC-09	DC-09-141216	12/16/2014	N	SXL0108	0.2	U	-	0.25	U	-	0.13	-	-	-	-	-	-	-	-	-	-	-	2.48	-	-	39.1	-	-	30.2	-	-
DC-09	DC-09-150316	03/16/2015	N	5904541	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.60	-	-	43.0	-	-	29	J-	MSD
DC-09	DC-09-150616	06/16/2015	N	59010751	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.30	J+	MSD	38.0	J+	MSD	28	J-	MSD
DC-09	DC-09-150923	09/23/2015	N	59020281	0.2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.50	-	-	40.0	-	-	30	-	-
DC-09	DC-09-151214	12/14/2015	N	59025431	0.2	U	-	-	R	MSD	0.3	J	FDP	-	-	-	-	-	-	-	-	-	2.70	-	-	40.0	-	-	31	-	-
DC-09	DC-09-160308	03/08/2016	N	59029711	0.2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.30	-	-	39.0	-	-	31	J+	MSD
DC-09	YVD-D2-160308	03/08/2016	FD	59029711	0.2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.10	-	-	39.0	-	-	31	J+	MSD
DC-09	DC-09-160621	6/21/2016	N	59037151	0.2	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	2.20	-	-	41.0	-	-	32	-	-
DC-09	DC-09-160929	9/29/2016	N	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.016	-	-	-	-	-	-	-	-	2.00	-	-	39.3	-	-	29.8	-	-
DC-09	DC-09-D4-160929	9/29/2016	FD	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.013	-	-	-	-	-	-	-	-	1.98	-	-	38.8	-	-	29.6	-	-
DC-09	DC-09-161215	12/15/2016	N	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.009	J	-	-	-	-	-	-	-	1.99	-	-	38.9	-	-	30.6	-	-
DC-09	YVD-D4-161215	12/15/2016	FD	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.007	J	-	-	-	-	-	-	-	1.98	-	-	37.8	-	-	30.6	-	-
DC-09	YVD-031317-36	3/13/2017	N	K1702489	0.10	U	-	0.5	U	-	-	-	-	0.024	-	-	-	-	-	-	-	-	2.00	-	-	38.8	-	-	28.2	-	-
DC-09	YVD-060717-27	6/7/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.029	-	-	-	-	-	-	-	-	1.97	-	-	39.3	-	-	30.3	-	-
DC-09	YVD-092617-23	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	1.98	-	-	38.5	-	-	32.5	-	-
DC-09	YVD-120417-09	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.014	U	MBK	-	-	-	-	-	-	1.86	-	-	37.3	-	-	30.6	-	-
DC-09	YVD-060418-25	6/4/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.08	-	-	40.2	-	-	29.2	-	-
DC-09	YVD-060319-19	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.06	-	-	39.2	-	-	27.6	-	-
DC-09	YVD-060920-25	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.04	--	--	40.8	--	--	30.8	--	--
DC-09	YVD-060721-15	6/7/2021	N	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.13	--	--	37.4	--	--	14.8	--	--
DC-14	DC-14-130103	01/03/2013	N	EPA01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC-14	DC-14-130917	09/17/2013	N	SWI0113	0.2	U	-	0.31	-	-	-	-	-	-	-	-	0.199	-	-	-	-	-	5.85	-	-	94.9	-	-	34.2	-	-
DC-14	DC-14-131211	12/11/2013	N	SWL0063	2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.167	-	-	4.71	-	-	94.0	-	-	33.9	J-	MSD
DC-14	DC-14-140318	03/18/2014	N	SXC0095	2	U	-	0.25	U	-	0.26	-	-	-	-	-	-	-	-	-	-	-	5.25	-	-	87.0	-	-	35.7	J-	MSD
DC-14	DC-14-140602	06/02/2014	N	SXF0017	0.4	U	-	0.367	-	-	0.42	J+	FBK	-	-	-	-	-	-	-	-	-	5.37	-	-	83.2	-	-	24.2	J-	MSD
DC-14	DC-14-140923	09/23/2014	N	SXI0158	0.4	U	-	0.315	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	4.95	-	-	88.6	J+	MSD	25.9	-	-
DC-14	DC-14-141216	12/16/2014	N	SXL0108	0.4	U	-	0.25	U	-	0.14	-	-	-	-	-	-	-	-	-	-	-	5.57	-	-	84.5	-	-	29.8	-	-
DC-14	DC-14-150316	03/16/2015	N	5904541	0.4	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.10	-	-	100	-	-	38	J-	MSD
DC-14	DC-14-150616	06/16/2015	N	59010961	0.4	U	-	0.25	UJ	MSD	0.3	-	-	-	-	-	-	-	-	-	-	-	6.50	J+	MSD	85.0	J+	MSD	29	-	-
DC-14	DC-14-150924	09/24/2015	N	59020391	0.4	U	-	0.25	UJ	MSD	0.31	-	-	-	-	-	-	-	-	-	-	-	6.30	-	-	92.0	-	-	42	J-	MSD
DC-14	DC-14-151214	12/14/2015	N	59025351	0.4	U	-	0.25	UJ	MSD	0.35	-	-	-	-	-	-	-	-	-	-	-	6.60	-	-	100	-	-	39	-	-
DC-14	YVD-D1-151214	12/14/2015	FD	59025351	0.2	U	-	0.25	UJ	MSD	0.38	-	-	-	-	-	-	-	-	-	-	-	6.60	-	-	100	-	-	41	-	-
DC-14	DC-14-160309	03/09/2016	N	59029711	0.4	U	-	-	R	MSD	0.33	-	-	-	-	-	-	-	-	-	-	-	6.60	-	-	95.0	-	-	39	J+	MSD
DC-14	DC-14-160620	6/20/2016	N	59037151	0.4	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	6.00	-	-	92.0	-	-	38	-	-
DC-14	DC-14-160929	9/29/2016	N	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.009	J	-	-	-	-	-	-	-	4.75	-	-	74.9	-	-	23.1	-	-
DC-14	DC-14-161216	12/16/2016	N	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.014	-	-	-	-	-	-	-	-	4.37	-	-	68.8	-	-	21.9	-	-
DC-14	YVD-031317-38	3/14/2017	N	K1702542	0.10	U	-	0.5	U	-	-	-	-	0.074	-	-	-	-	-	-	-	-	4.57	-	-	68.4	-	-	20.8	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
DC-14	YVD-060617-19	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	4.40	-	-	65.2	-	-	26.9	-	-
DC-14	YVD-092517-11	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.005	J	-	-	-	-	-	-	-	4.63	-	-	64.3	-	-	23.9	-	-
DC-14	YVD-120617-27	12/6/2017	N	K1713157	0.10	U	-	0.5	U	-	-	-	-	0.020	-	-	-	-	-	-	-	-	4.49	-	-	60.5	-	-	20.3	-	-
DC-14	YVD-120617-29	12/6/2017	FD	K1713157	0.10	U	-	0.5	U	-	-	-	-	0.021	-	-	-	-	-	-	-	-	4.44	-	-	60.6	-	-	20.0	-	-
DC-14	YVD-031918-20	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.56	-	-	58.0	-	-	17.8	-	-
DC-14	YVD-060518-28	6/5/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.62	-	-	56.0	-	-	16.1	-	-
DC-14	YVD-060518-30	6/5/2018	FD	874860	-	R	PRS	0.5	UJ	MBK	-	-	-	-	-	-	-	-	-	0.070	U	-	4.78	-	-	57.5	-	-	-	R	PRS
DC-14	YVD-090918-08	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.80	-	-	54.0	-	-	16.0	-	-
DC-14	YVD-090918-10	9/9/2018	FD	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.78	-	-	53.5	-	-	15.3	-	-
DC-14	YVD-121018-07	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.92	-	-	55.5	-	-	14.9	-	-
DC-14	YVD-031719-09	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.05	-	-	53.5	-	-	15.1	-	-
DC-14	YVD-060319-17	6/3/2019	N	992053	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	5.15	-	-	53.5	-	-	13.6	-	-
DC-14	YVD-091019-18	9/10/2019	N	998438	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.20	-	-	53.5	-	-	17.1	-	-
DC-14	YVD-120919-14	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.40			54.5	J	MSD	20.3	-	-
DC-14	YVD-033120-19	3/31/2020	N	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.25	-	-	53.5	-	-	21.1	-	-
DC-14	YVD-033120-21	3/31/2020	FD	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.35	-	-	54.5	-	-	21.3	-	-
DC-14	YVD-061020-32	6/10/2020	N	009361	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.45	--	--	53.0	--	--	22.5	--	--
DC-14	YVD-061020-33	6/10/2020	FD	009361	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.35	--	--	52.0	--	--	22.4	--	--
DC-14	YVD-092120-23	9/21/2020	N	013896	0.050	U	--	1.0	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.60	--	--	56.5	--	--	24.4	--	--
DC-14	YVD-120820-21	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	6.10	--	--	57.5	--	--	26.6	--	--
DC-14	YVD-030121-09	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	6.15	--	--	58.0	--	--	32.1	--	--
DC-14	YVD-060821-33	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	6.35	--	--	57.0	--	--	27.9	--	--
YVD-02	YVD-02-130924	09/24/2013	N	SWI0178	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.124	-	-	-	-	-	3.50	-	-	8.6	-	-	5.77	-	-
YVD-02	YVD-02-140316	03/16/2014	N	SXC0081	0.2	U	-	0.25	U	-	0.54	-	-	-	-	-	-	-	-	-	-	-	12.60	-	-	88.6	-	-	66.9	-	-
YVD-02	YVD-02-140602	06/02/2014	N	SXF0008	0.2	U	-	0.49	-	-	3.8	-	-	-	-	-	-	-	-	-	-	-	8.53	-	-	23.0	-	-	3.12	-	-
YVD-02	YVD-02-140921	09/21/2014	N	SXI0148	0.2	U	-	0.274	-	-	1.2	J	FDP	-	-	-	-	-	-	-	-	-	4.53	-	-	11.6	J	FDP	13.8	-	-
YVD-02	YVD-D1-140921	09/21/2014	FD	SXI0148	0.2	U	-	0.25	U	-	0.86	J	FDP	-	-	-	-	-	-	-	-	-	5.05	-	-	15.7	J	FDP	15.6	-	-
YVD-02	YVD-02-141215	12/15/2014	N	SXL0103	0.2	U	-	0.358	-	-	0.61	-	-	-	-	-	-	-	-	-	-	-	5.35	-	-	16.1	-	-	33.6	J+	MSD, DUP
YVD-02	YVD-02-150615	06/15/2015	N	59010751	0.2	U	-	0.25	UJ	MSD	1.1	-	-	-	-	-	-	-	-	-	-	-	4.10	J+	MSD	12.0	J+	MSD	3.2	J-	MSD
YVD-02	YVD-02-150923	09/23/2015	N	59020281	0.2	U	-	0.25	J-	MSD	1	J+	FBK		-	-	-	-	-	-	-	-	4.80	-	-	14.0	-	-	9.5	-	-
YVD-02	YVD-02-151214	12/14/2015	N	59025351	0.2	U	-	0.76	J-	MSD	0.68	-	-	-	-	-	-	-	-	-	-	-	6.30	-	-	25.0	-	-	24	-	-
YVD-02	YVD-02-160308	03/08/2016	N	59029521	0.2	U	-	0.25	J-	MSD	0.59	-	-	-	-	-	-	-	-	-	-	-	5.80	-	-	22.0	-	-	54	-	-
YVD-02	YVD-02-160620	6/20/2016	N	59037101	0.2	U	-	0.35	J-	MSD	0.52	-	-	-	-	-	-	-	-	-	-	-	4.20	-	-	9.7	-	-	8	J-	MSD
YVD-02	YVD-02-160928	9/28/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.092	-	-	-	-	-	-	-	-	3.41	-	-	5.07	-	-	3.13	-	-
YVD-02	YVD-030817-15	3/8/2017	N	K1702324	0.10	U	-	0.5	U	-	-	-	-	0.099	-	-	-	-	-	-	-	-	3.51	-	-	7.06	-	-	11.7	-	-
YVD-02	YVD-060617-14	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.093	-	-	-	-	-	-	-	-	3.00	-	-	5.95	-	-	3.43	J	FDP
YVD-02	YVD-060617-16	6/6/2017	FD	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.081	-	-	-	-	-	-	-	-	3.00	-	-	5.91	-	-	12.2	J	FDP
YVD-02	YVD-092617-20	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.09	-	-	-	-	-	-	-	-	3.06	-	-	5.20	-	-	4.79	-	-
YVD-02	YVD-120417-02	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.080	-	-	-	-	-	-	-	-	3.18	-	-	9.59	-	-	16.1	-	-
YVD-02	YVD-120417-04	12/4/2017	FD	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.074	-	-	-	-	-	-	-	-	3.08	-	-	9.58	-	-	15.8	-	-
YVD-02	YVD-061218-32	6/12/2018	N	875438	-	R	NR	-	R	NR	-	-	-	-	-	-	-	-	-	-	R	NR	-	R	NR	-	R	NR	-	R	NR
YVD-02	YVD-060419-28	6/4/2019	N	992242	0.24	-	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.10	-	-	5.15	-	-	14.8	-	-	39.9	-	-
YVD-02	YVD-070219-33	7/2/2019	N	994356	0.90	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	0.07	U	-	6.50	-	-	26.8	-	-	47.5	-	-
YVD-02	YVD-091019-19	9/10/2019	N	998438	0.05	U	-	UJ	MSD	-	-	-	-	-	-	-	-	-	-	0.07	-	-	6.60	-	-	21.6	-	-	40.4	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-02	YVD-121019-23	12/10/2019	N	902321	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	7.10	-	-	38.3	-	-	62.2	-	-
YVD-02	YVD-040120-23	4/1/2020	N	006311	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	--	--	--	6.25	-	-	75.0	-	-	96.6	-	-
YVD-02	YVD-061120-35	6/11/2020	N	009430	NS	--	--	NS	--	--	-	-	-	-	-	-	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	-	-	-	-	-	-	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	-	-	-	-	-	-	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	-	-	-	-	-	-	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	-	-	-	-	-	-	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-02	NS	--	--	--	NS	--	--	NS	--	--	-	-	-	-	-	-	-	-	-	NS	--	--	NS	--	--	NS	--	--	NS	--	--
YVD-03	YVD-03-130916	09/16/2013	N	SWI0113	0.49	-	-	0.488	-	-	-	-	-	-	-	-	0.89	-	-	-	-	-	9.00	-	-	43.0	-	-	70.7	-	-
YVD-03	YVD-03-131210	12/10/2013	N	SWL0063	0.4	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	1.02	-	-	6.67	-	-	40.2	-	-	54.8	J-	MSD
YVD-03	YVD-03-140317	03/17/2014	N	SXC0081	0.2	U	-	0.25	U	-	0.23	-	-	-	-	-	-	-	-	-	-	-	4.10	-	-	37.6	-	-	38	-	-
YVD-03	YVD-03-140602	06/02/2014	N	SXF0008	0.2	U	-	0.261	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	3.93	-	-	36.8	-	-	36	-	-
YVD-03	YVD-03-140923	09/23/2014	N	SXI0158	0.2	U	-	0.25	U	-	0.33	J	FDP	-	-	-	-	-	-	-	-	-	4.66	J	FDP	40.7	J+	MSD	34.7	-	-
YVD-03	YVD-D3-140923	09/23/2014	FD	SXI0158	0.2	U	-	0.25	U	-	0.24	J	FDP	-	-	-	-	-	-	-	-	-	3.62	J	FDP	38.0	J+	MSD	34.4	-	-
YVD-03	YVD-03-141215	12/15/2014	N	SXL0108	0.2	U	-	0.4	-	-	0.76	-	-	-	-	-	-	-	-	-	-	-	4.47	-	-	39.1	-	-	37	-	-
YVD-03	YVD-03-150316	03/16/2015	N	5904541	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.90	-	-	39.0	-	-	33	J-	MSD
YVD-03	YVD-03-150616	06/16/2015	N	59010751	0.2	U	-	0.25	UJ	MSD	0.59	-	-	-	-	-	-	-	-	-	-	-	6.10	J+	MSD	37.0	J+	MSD	41	J-	MSD
YVD-03	YVD-03-150922	09/22/2015	N	59020141	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.50	-	-	40.0	-	-	51	-	-
YVD-03	YVD-03-151214	12/14/2015	N	59025351	0.2	U	-	0.25	UJ	MSD	0.78	-	-	-	-	-	-	-	-	-	-	-	7.80	-	-	43.0	-	-	51	-	-
YVD-03	YVD-03-160307	03/07/2016	N	59029521	0.2	U	-	0.25	UJ	MSD	0.34	-	-	-	-	-	-	-	-	-	-	-	7.10	-	-	40.0	-	-	47	-	-
YVD-03	YVD-03-160620	6/20/2016	N	59037151	0.2	U	-	0.25	U	-	0.47	-	-	-	-	-	-	-	-	-	-	-	7.70	-	-	40.0	-	-	61	-	-
YVD-03	YVD-03-160929	9/29/2016	N	K1611758	0.10	U	-	0.5	U	-	-	-	-	0.047	-	-	-	-	-	-	-	-	6.89	-	-	41.4	-	-	44.4	-	-
YVD-03	YVD-03-161213	12/13/2016	N	K1615045	0.10	U	-	0.5	U	-	-	-	-	0.11	-	-	-	-	-	-	-	-	6.57	-	-	38.9	-	-	43.3	-	-
YVD-03	YVD-030617-02	3/6/2017	N	K1702228	0.10	U	-	0.5	U	-	-	-	-	0.083	J	FDP	-	-	-	-	-	-	6.53	-	-	38.5	-	-	40.7	-	-
YVD-03	YVD-030617-03	3/6/2017	FD	K1702228	0.10	U	-	0.5	U	-	-	-	-	0.061	J	FDP	-	-	-	-	-	-	6.48	-	-	38.4	-	-	40.7	-	-
YVD-03	YVD-060517-13	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.045	-	-	-	-	-	-	-	-	6.27	-	-	36.4	-	-	46.4	-	-
YVD-03	YVD-092517-05	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.038	-	-	-	-	-	-	-	-	6.85	-	-	40.9	-	-	46.3	-	-
YVD-03	YVD-120517-19	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.047	-	-	-	-	-	-	-	-	6.39	-	-	38.0	-	-	50.8	-	-
YVD-03	YVD-060518-27	6/5/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	6.70	-	-	39.3	-	-	41.7	-	-
YVD-03	YVD-060219-07	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	6.65	-	-	38.5	-	-	26.1	-	-
YVD-03	YVD-060820-09	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	6.65	--	--	39.6	--	--	48.6	--	--
YVD-03	YVD-060821-24	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	6.85	--	--	37.6	--	--	33.0	--	--
YVD-04	YVD-04-130916	09/16/2013	N	SWI0113	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	4.23	-	-	49.2	-	-	39.1	-	-
YVD-04	YVD-04-131210	12/10/2013	N	SWL0063	0.4	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.112	-	-	4.44	-	-	49.9	-	-	42.2	J-	MSD
YVD-04	YVD-04-140317	03/17/2014	N	SXC0081	0.2	U	-	0.25	U	-	0.078	-	-	-	-	-	-	-	-	-	-	-	4.46	-	-	47.8	-	-	35.2	-	-
YVD-04	YVD-04-140602	06/02/2014	N	SXF0008	0.4	U	-	0.25	U	-	0.053	-	-	-	-	-	-	-	-	-	-	-	4.41	-	-	50.5	-	-	36.2	-	-
YVD-04	YVD-04-140923	09/23/2014	N	SXI0158	0.2	U	-	0.25	U	-	0.061	-	-	-	-	-	-	-	-	-	-	-	4.49	-	-	52.2	J+	MSD	35.8	-	-
YVD-04	YVD-04-141215	12/15/2014	N	SXL0108	0.2	U	-	0.25	U	-	0.1	U	-	-	-	-	-	-	-	-	-	-	4.62	-	-	50.0	-	-	35.8	-	-
YVD-04	YVD-04-150315	03/15/2015	N	5904471	0.2	U	-	0.25	UJ	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	4.70	-	-	52.0	-	-	34	-	-
YVD-04	YVD-04-150615	06/15/2015	N	59010751	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.70	J+	MSD	49.0	J+	MSD	34	J-	MSD
YVD-04	YVD-04-150922	09/22/2015	N	59020141	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.60	-	-	51.0	-	-	35	-	-
YVD-04	YVD-04-151213	12/13/2015	N	59025351	0.2	U	-	0.25	UJ	MSD	0.39	-	-	-	-	-	-	-	-	-	-	-	4.90	-	-	53.0	-	-	36	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-04	YVD-04-160307	03/07/2016	N	59029521	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.60	-	-	51.0	-	-	34	-	-
YVD-04	YVD-04-160620	6/20/2016	N	59037101	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.80	-	-	53.0	-	-	35	J-	MSD
YVD-04	YVD-D1-160620	6/20/2016	FD	59037101	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.50	-	-	51.0	-	-	36	J-	MSD
YVD-04	YVD-04-160928	9/28/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.014	-	-	-	-	-	-	-	-	4.42	-	-	48.5	-	-	31.4	-	-
YVD-04	YVD-04-D3-160928	9/28/2016	FD	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.008	J	-	-	-	-	-	-	-	4.49	-	-	49.9	-	-	32.2	-	-
YVD-04	YVD-04-161213	12/13/2016	N	K1615045	0.10	U	-	0.5	U	-	-	-	-	0.026	-	-	-	-	-	-	-	-	4.43	-	-	47.5	-	-	31.7	-	-
YVD-04	YVD-031017-28	3/10/2017	N	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.018	-	-	-	-	-	-	-	-	4.25	-	-	46.7	-	-	32.9	-	-
YVD-04	YVD-060517-11	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.006	J	-	-	-	-	-	-	-	4.05	-	-	44.4	-	-	33.4	-	-
YVD-04	YVD-092517-07	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.026	-	-	-	-	-	-	-	-	4.62	-	-	51.1	-	-	32.7	-	-
YVD-04	YVD-120417-13	12/4/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.013	-	-	-	-	-	-	-	-	4.29	-	-	49.9	-	-	32.5	-	-
YVD-04	YVD-060418-21	6/4/2018	N	874662	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.46	-	-	51.0	-	-	30.4	-	-
YVD-04	YVD-060219-05	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.52	-	-	49.0	-	-	30.6	-	-
YVD-04	YVD-060820-05	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.32	--	--	49.8	--	--	30.5	--	--
YVD-04	YVD-060821-22	6/8/2021	N	124212	0.050	U	--	1.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.32	--	--	47.4	--	--	29.5	--	--
YVD-05	YVD-05-130917	09/17/2013	N	SWI0113	0.2	U	-	0.435	-	-	-	-	-	-	-	-	1.62	-	-	-	-	-	6.95	-	-	46.2	-	-	76.8	-	-
YVD-05	YVD-05-131211	12/11/2013	N	SWL0063	0.4	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.462	-	-	3.33	-	-	45.5	-	-	68.4	J-	MSD
YVD-05	YVD-05-140317	03/17/2014	N	SXC0081	0.4	U	-	0.25	U	-	0.14	-	-	-	-	-	-	-	-	-	-	-	2.75	-	-	43.1	-	-	52.7	-	-
YVD-05	YVD-05-140601	06/01/2014	N	SXF0008	0.4	U	-	0.25	U	-	0.15	-	-	-	-	-	-	-	-	-	-	-	2.84	-	-	43.9	-	-	50.5	-	-
YVD-05	YVD-05-140922	09/22/2014	N	SXI0148	0.4	U	-	0.259	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	2.75	-	-	45.1	-	-	48.1	-	-
YVD-05	YVD-05-141215	12/15/2014	N	SXL0103	0.4	U	-	0.272	-	-	0.29	J	FDP	-	-	-	-	-	-	-	-	-	4.21	-	-	45.5	-	-	27.7	J+	MSD, FDP, DUP
YVD-05	YVD-D1-141215	12/15/2014	FD	SXL0103	0.2	U	-	0.264	-	-	0.44	J	FDP	-	-	-	-	-	-	-	-	-	3.54	-	-	44.9	-	-	46	J+	MSD, FDP, DUP
YVD-05	YVD-05-150316	03/16/2015	N	5904471	0.4	U	-	0.25	UJ	-	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	3.60	-	-	47.0	-	-	47	-	-
YVD-05	YVD-05-150616	06/16/2015	N	59010751	0.4	U	-	0.25	UJ	-	0.51	-	-	-	-	-	-	-	-	-	-	-	4.00	J+	MSD	47.0	J+	MSD	49	J-	MSD
YVD-05	YVD-05-150922	09/22/2015	N	59020281	0.4	U	-	-	R	MSD	0.8	-	-	-	-	-	-	-	-	-	-	-	4.90	-	-	51.0	-	-	51	-	-
YVD-05	YVD-05-151214	12/14/2015	N	59025351	0.4	U	-	0.6	J-	MSD	0.65	-	-	-	-	-	-	-	-	-	-	-	4.30	-	-	52.0	-	-	48	-	-
YVD-05	YVD-05-160307	03/07/2016	N	59029521	0.4	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.60	-	-	48.0	-	-	47	-	-
YVD-05	YVD-D1-160307	03/07/2016	FD	59029521	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.60	-	-	48.0	-	-	48	-	-
YVD-05	YVD-05-160620	6/20/2016	N	59037151	0.4	U	-	0.25	U	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.40	-	-	48.0	-	-	49	-	-
YVD-05	YVD-05-160928	9/28/2016	N	K1611698	0.10	U	-	-	R	MSD	-	-	-	0.01	-	-	-	-	-	-	-	-	3.54	-	-	48.5	-	-	46.7	-	-
YVD-05	YVD-05-161215	12/15/2016	N	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.04	-	-	-	-	-	-	-	-	3.37	-	-	46.5	-	-	49.0	-	-
YVD-05	YVD-031317-32	3/13/2017	N	K1702489	0.10	U	-	0.5	U	-	-	-	-	0.03	-	-	-	-	-	-	-	-	3.44	-	-	46.0	-	-	41.5	-	-
YVD-05	YVD-031317-34	3/13/2017	FD	K1702489	0.10	U	-	0.5	U	-	-	-	-	0.02	-	-	-	-	-	-	-	-	3.38	-	-	45.6	-	-	41.4	-	-
YVD-05	YVD-060617-23	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.016	-	-	-	-	-	-	-	-	3.51	-	-	48.1	-	-	48.0	-	-
YVD-05	YVD-092517-09	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.012	-	-	-	-	-	-	-	-	3.61	-	-	48.4	-	-	46.6	-	-
YVD-05	YVD-120517-15	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.015	-	-	-	-	-	-	-	-	3.36	-	-	46.5	-	-	41.8	-	-
YVD-05	YVD-060518-29	6/5/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.58	-	-	46.4	-	-	43.6	-	-
YVD-05	YVD-060219-09	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.62	-	-	44.2	-	-	43.6	-	-
YVD-05	YVD-060920-15	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.66	--	--	46.2	--	--	50.0	--	--
YVD-05	YVD-060821-26	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.94	--	--	47.7	--	--	61.1	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-06	YVD-06-130917	09/17/2013	N	SWI0113	0.2	U	-	0.4	-	-	-	-	-	-	-	-	0.41	-	-	-	-	-	4.07	-	-	17.6	-	-	8.14	-	-
YVD-06	YVD-06-131209	12/09/2013	N	SWL0055	0.2	U	-	0.62	J	FBK, MSD, FDP	-	-	-	-	-	-	-	-	-	0.06	U	-	1.76	-	-	13.0	J	FDP	8.53	-	-
YVD-06	YVD-D1-131209	12/09/2013	FD	SWL0055	2	U	-	0.4	J	FBK, MSD, FDP	-	-	-	-	-	-	-	-	-	0.06	U	-	2.24	-	-	16.5	J	FDP	9.1	-	-
YVD-06	YVD-06-140316	03/16/2014	N	SXC0081	0.2	U	-	0.297	-	-	0.14	-	-	-	-	-	-	-	-	-	-	-	2.68	-	-	16.2	-	-	8.33	-	-
YVD-06	YVD-D1-140316	03/16/2014	FD	SXC0081	0.2	U	-	0.25	U	-	0.13	-	-	-	-	-	-	-	-	-	-	-	2.74	-	-	16.6	-	-	8.18	-	-
YVD-06	YVD-06-140601	06/01/2014	N	SXF0008	0.2	U	-	0.25	U	-	0.064	-	-	-	-	-	-	-	-	-	-	-	2.28	-	-	16.7	-	-	7.59	-	-
YVD-06	YVD-D1-140601	06/01/2014	FD	SXF0008	0.2	U	-	0.25	U	-	0.057	-	-	-	-	-	-	-	-	-	-	-	2.30	-	-	16.9	-	-	7.63	-	-
YVD-06	YVD-06-140921	09/21/2014	N	SXI0148	0.2	U	-	0.359	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-	2.69	-	-	17.4	-	-	7.98	-	-
YVD-06	YVD-06-141215	12/15/2014	N	SXL0103	0.2	U	-	0.25	U	-	0.1	U	-	-	-	-	-	-	-	-	-	-	2.58	-	-	16.9	-	-	7.47	J+	MSD, DUP
YVD-06	YVD-06-150316	03/16/2015	N	5904471	0.2	U	-	0.25	UJ	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	2.20	-	-	17.0	-	-	10	-	-
YVD-06	YVD-06-150616	06/16/2015	N	59010751	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.20	J+	MSD	17.0	J+	MSD	7.9	J-	MSD
YVD-06	YVD-06-150922	09/22/2015	N	59020141	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.10	-	-	17.0	-	-	7.9	-	-
YVD-06	YVD-06-151214	12/14/2015	N	59025351	0.2	U	-	0.57	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.40	-	-	18.0	-	-	8	-	-
YVD-06	YVD-06-160307	03/07/2016	N	59029521	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.50	-	-	17.0	-	-	7.8	-	-
YVD-06	YVD-06-160620	6/20/2016	N	59037151	0.2	U	-	0.42	-	-	0.25	U	-	-	-	-	-	-	-	-	-	-	2.30	-	-	17.0	-	-	8.1	-	-
YVD-06	YVD-06-160929	9/29/2016	N	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.022	-	-	-	-	-	-	-	-	2.26	-	-	17.1	-	-	8.55	-	-
YVD-06	YVD-06-161215	12/15/2016	N	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.010	-	-	-	-	-	-	-	-	2.12	-	-	17.1	-	-	10.2	-	-
YVD-06	YVD-030617-04	3/6/2017	N	K1702228	0.10	U	-	0.5	U	FBK	-	-	-	0.014	-	-	-	-	-	-	-	-	2.20	-	-	17.0	-	-	8.38	-	-
YVD-06	YVD-060617-21	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	2.17	-	-	16.3	-	-	8.44	-	-
YVD-06	YVD-092617-17	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.009	J	-	-	-	-	-	-	-	1.97	-	-	15.6	-	-	9.61	-	-
YVD-06	YVD-092617-18	9/26/2017	FD	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	2.03	-	-	16.1	-	-	9.58	-	-
YVD-06	YVD-120517-17	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.021	-	-	-	-	-	-	-	-	2.11	-	-	17.3	-	-	9.87	-	-
YVD-06	YVD-060318-15	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.36	-	-	17.3	-	-	7.86	-	-
YVD-06	YVD-060219-11	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.20	-	-	16.6	-	-	6.42	-	-
YVD-06	YVD-060920-17	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.16	--	--	17.6	--	--	8.86	--	--
YVD-06	YVD-060721-19	6/7/2021	N	124105	0.050	U	--	0.50	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.28	--	--	16.2	--	--	6.80	--	--
YVD-07	YVD-07-130923	09/23/2013	N	SWI0178	-	-	-	0.395	-	-	-	-	-	-	-	-	0.516	-	-	-	-	-	5.03	-	-	37.7	-	-	-	-	-
YVD-07	YVD-07-130926	09/26/2013	N	SWI0190	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.4	-	-	
YVD-07	YVD-07-131210	12/10/2013	N	SWL0055	0.2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.06	U	-	1.00	U	-	40.4	-	-	50	-	-
YVD-07	YVD-07-140316	03/16/2014	N	SXC0081	0.2	U	-	0.25	U	-	0.22	-	-	-	-	-	-	-	-	-	-	-	4.45	-	-	42.5	-	-	69.2	-	-
YVD-07	YVD-07-140604	06/04/2014	N	SXF0025	0.4	U	-	0.348	J-	MSD	0.69	-	-	-	-	-	-	-	-	-	-	-	5.57	-	-	44.5	-	-	57	-	-
YVD-07	YVD-07-140922	09/22/2014	N	SXI0158	0.4	U	-	0.25	U	-	0.2	-	-	-	-	-	-	-	-	-	-	-	4.05	-	-	42.7	J+	MSD	51.8	-	-
YVD-07	YVD-07-141216	12/16/2014	N	SXL0108	0.4	U	-	0.25	U	-	0.1	U	-	-	-	-	-	-	-	-	-	-	3.83	-	-	40.6	-	-	51.2	-	-
YVD-07	YVD-07-150316	03/16/2015	N	5904541	0.4	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.30	-	-	50.0	-	-	73	J-	MSD
YVD-07	YVD-D2-150316	03/16/2015	FD	5904541	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.30	-	-	48.0	-	-	70	J-	MSD
YVD-07	YVD-07-150616	06/16/2015	N	59010751	0.4	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.20	J+	MSD	43.0	J+	MSD	74	J-	MSD
YVD-07	YVD-D1-150616	06/16/2015	FD	59010751	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.20	J+	MSD	44.0	J+	MSD	74	J-	MSD
YVD-07	YVD-07-150923	09/23/2015	N	59020281	0.4	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.20	-	-	48.0	-	-	68	-	-
YVD-07	YVD-07-151214	12/14/2015	N	59025431	0.4	U	-	-	R	MSD	0.97	J	FDP	-	-	-	-	-	-	-	-	-	4.50	-	-	48.0	-	-	59	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-07	YVD-07-160308	03/08/2016	N	59029711	0.4	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	4.00	-	-	42.0	-	-	49	J+	MSD
YVD-07	YVD-07-160621	6/21/2016	N	59037151	0.4	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	37.0	-	-	31	-	-
YVD-07	YVD-07-160929	9/29/2016	N	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.020	-	-	-	-	-	-	-	-	3.31	-	-	34.0	-	-	37.1	-	-
YVD-07	YVD-07-161213	12/13/2016	N	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	3.59	-	-	36.6	-	-	64.0	-	-
YVD-07	YVD-030717-07	3/7/2017	N	K1702324	0.10	UJ	HTQ	0.5	U	-	-	-	-	0.019	-	-	-	-	-	-	-	-	2.83	-	-	31.4	-	-	25.4	-	-
YVD-07	YVD-060517-15	6/5/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.004	J	-	-	-	-	-	-	-	2.98	-	-	32.9	-	-	33.5	-	-
YVD-07	YVD-092617-21	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.022	-	-	-	-	-	-	-	-	3.26	-	-	34.0	-	-	51.0	-	-
YVD-07	YVD-120417-11	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.022	-	-	-	-	-	-	-	-	3.56	-	-	36.1	-	-	56.5	-	-
YVD-07	YVD-060418-23	6/4/2018	N	874662	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.76	-	-	39.4	-	-	63.5	-	-
YVD-07	YVD-060319-16	6/3/2019	N	992053	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.76	-	-	35.8	-	-	27.6	-	-
YVD-07	YVD-060920-27	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.27	--	--	41.8	--	--	62.9	--	--
YVD-07	YVD-060821-34	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.28	--	--	37.6	--	--	40.8	--	--
YVD-08	YVD-08-130919	09/19/2013	N	SWI0138	2	U	-	0.935	J+	FBK	-	-	-	-	-	-	0.1	U	-	-	-	-	6.03	-	-	88.3	-	-	105	-	-
YVD-08	YVD-08-131211	12/11/2013	N	SWL0063	2	U	-	0.75	U	ERL	-	-	-	-	-	-	-	-	-	1.46	-	-	7.55	-	-	82.2	-	-	273	J-	MSD
YVD-08	YVD-08-140317	03/17/2014	N	SXC0095	2	U	-	0.702	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-	5.30	-	-	75.1	-	-	173	J-	MSD
YVD-08	YVD-08-140602	06/02/2014	N	SXF0017	0.8	U	-	1.12	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-	11.20	-	-	78.3	-	-	175	J-	MSD
YVD-08	YVD-08-140923	09/23/2014	N	SXI0173	1	U	-	0.867	J+	MSD	0.35	-	-	-	-	-	-	-	-	-	-	-	5.87	-	-	76.9	-	-	107	-	-
YVD-08	YVD-08-141216	12/16/2014	N	SXL0108	1	U	-	0.369	-	-	0.34	-	-	-	-	-	-	-	-	-	-	-	5.92	-	-	77.2	-	-	140	-	-
YVD-08	YVD-08-150317	03/17/2015	N	5904541	1	U	-	0.39	J-	MSD	0.67	-	-	-	-	-	-	-	-	-	-	-	5.90	-	-	77.0	-	-	130	J-	MSD
YVD-08	YVD-D3-150317	03/17/2015	FD	5904541	0.2	U	-	0.25	UJ	MSD	0.49	-	-	-	-	-	-	-	-	-	-	-	5.70	-	-	76.0	-	-	150	J-	MSD
YVD-08	YVD-08-150617	06/17/2015	N	59010961	1	U	-	0.26	J-	MSD, FDP	0.53	-	-	-	-	-	-	-	-	-	-	-	6.00	J+	MSD	82.0	J+	MSD	140	-	-
YVD-08	YVD-D3-150617	06/17/2015	FD	59010961	0.2	U	-	0.86	J-	MSD, FDP	0.39	-	-	-	-	-	-	-	-	-	-	-	5.70	J+	MSD	77.0	J+	MSD	170	-	-
YVD-08	YVD-08-150924	09/24/2015	N	59020391	1	U	-	0.25	UJ	MSD	0.31	-	-	-	-	-	-	-	-	-	-	-	5.60	-	-	82.0	-	-	170	J-	MSD
YVD-08	YVD-08-151215	12/15/2015	N	59025501	1	U	-	-	R	MSD	0.33	J-	MSD	-	-	-	-	-	-	-	-	-	6.20	-	-	85.0	-	-	190	-	-
YVD-08	YVD-D3-151215	12/15/2015	FD	59025501	0.2	U	-	-	R	MSD	0.27	J-	MSD	-	-	-	-	-	-	-	-	-	6.20	-	-	85.0	-	-	180	-	-
YVD-08	YVD-08-160310	03/10/2016	N	59029941	1	U	-	0.25	UJ	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	5.60	-	-	87.0	-	-	210	J	DUP
YVD-08	YVD-08-160622	6/22/2016	N	59037271	1	U	-	-	R	MSD	0.31	-	-	-	-	-	-	-	-	-	-	-	5.90	-	-	87.0	-	-	200	-	-
YVD-08	YVD-D3-160622	6/22/2016	FD	59037271	0.2	U	-	-	R	MSD	0.28	-	-	-	-	-	-	-	-	-	-	-	6.00	-	-	88.0	-	-	200	-	-
YVD-08	YVD-08-160927	9/27/2016	N	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.049	-	-	-	-	-	-	-	-	4.95	-	-	84.7	-	-	193	-	-
YVD-08	YVD-08-161213	12/13/2016	N	K1615045	0.10	U	-	0.5	U	-	-	-	-	0.058	-	-	-	-	-	-	-	-	5.10	-	-	84.5	-	-	182	-	-
YVD-08	YVD-030917-24	3/9/2017	N	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.018	-	-	-	-	-	-	-	-	4.95	-	-	83.4	-	-	203	-	-
YVD-08	YVD-060717-29	6/7/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.025	-	-	-	-	-	-	-	-	5.13	-	-	92.1	-	-	194	-	-
YVD-08	YVD-092617-19	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.01	-	-	-	-	-	-	-	-	5.12	-	-	89.3	-	-	213	-	-
YVD-08	YVD-120517-23	12/5/2017	N	K1713157	0.10	U	-	0.5	U	-	-	-	-	0.013	-	-	-	-	-	-	-	-	5.23	-	-	93.2	-	-	184	-	-
YVD-08	YVD-031918-15	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	5.40	-	-	90.5	-	-	183	-	-
YVD-08	YVD-060518-31	6/5/2018	N	874860	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.55	-	-	98.0	-	-	197	-	-
YVD-08	YVD-090918-04	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.70	-	-	99.5	-	-	195	-	-
YVD-08	YVD-121118-19	12/11/2018	N	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	6.00	-	-	98.5	-	-	207	-	-
YVD-08	YVD-031719-03	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.50	-	-	96.0	-	-	203	-	-
YVD-08	YVD-060319-21	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.55	-	-	97.5	-	-	190	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-08	YVD-090919-02	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.45	-	-	91.5	-	-	184	-	-
YVD-08	YVD-120919-02	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.55	-	-	96.5	J	MSD	177	-	-
YVD-08	YVD-120919-04	12/9/2019	FD	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.55	-	-	96.0	J	MSD	173	-	-
YVD-08	YVD-033120-17	3/31/2020	N	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.35	-	-	99.0	-	-	184	-	-
YVD-08	YVD-060920-23	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.50	--	--	106	--	--	176	--	--
YVD-08	YVD-092120-11	9/21/2020	N	013896	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.60	--	--	104	--	--	179	--	--
YVD-08	YVD-120720-11	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	6.05	--	--	104	--	--	174	--	--
YVD-08	YVD-030121-07	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.55	--	--	102	--	--	177	--	--
YVD-08	YVD-060821-28	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.45	--	--	102	--	--	179	--	--
YVD-09	YVD-09-130919	09/19/2013	N	SWI0138	2	U	-	-	R	FBK	-	-	-	-	-	-	-	R	FBK	-	-	-	8.21	-	-	189	-	-	236	-	-
YVD-09	YVD-09-131212	12/12/2013	N	SWL0078	2	U	-	0.661	U	ERL	-	-	-	-	-	-	-	-	-	0.647	-	-	9.21	-	-	176	-	-	193	-	-
YVD-09	YVD-09-140319	03/19/2014	N	SXC0107	2	U	-	0.653	J-	MSD	0.53	-	-	-	-	-	-	-	-	-	-	-	9.33	-	-	173	-	-	214	-	-
YVD-09	YVD-09-140603	06/03/2014	N	SXF0025	2	U	-	0.613	J-	MSD	0.72	-	-	-	-	-	-	-	-	-	-	-	10.10	-	-	193	-	-	214	-	-
YVD-09	YVD-09-140924	09/24/2014	N	SXI0173	2	U	-	0.502	J+	MSD	0.32	J+	FBK	-	-	-	-	-	-	-	-	-	8.88	-	-	203	-	-	166	-	-
YVD-09	YVD-09-141217	12/17/2014	N	SXL0121	2	U	-	0.25	UJ	MSD	1.3	-	-	-	-	-	-	-	-	-	-	-	12.90	-	-	187	-	-	223	-	-
YVD-09	YVD-09-150318	03/18/2015	N	5904651	2	U	-	0.25	UJ	MSD	0.38	-	-	-	-	-	-	-	-	-	-	-	9.30	J-	MSD	190	-	-	190	-	-
YVD-09	YVD-09-150617	06/17/2015	N	59010961	2	U	-	0.37	J-	MSD	0.36	-	-	-	-	-	-	-	-	-	-	-	9.80	J+	MSD	190	J+	MSD	230	-	-
YVD-09	YVD-09-150923	09/23/2015	N	59020391	0.2	U	-	0.26	J-	MSD	0.27	-	-	-	-	-	-	-	-	-	-	-	9.60	-	-	180	-	-	270	J-	MSD
YVD-09	YVD-09-151215	12/15/2015	N	59025501	2	U	-	-	R	MSD	0.25	J-	MSD	-	-	-	-	-	-	-	-	-	9.60	-	-	190	-	-	250	-	-
YVD-09	YVD-09-160310	03/10/2016	N	59029941	2	U	-	0.25	UJ	FDP, MSD	0.33	-	-	-	-	-	-	-	-	-	-	-	9.20	-	-	190	-	-	250	J	DUP
YVD-09	YVD-09-160622	6/22/2016	N	59037271	2	U	-	-	R	MSD	0.29	-	-	-	-	-	-	-	-	-	-	-	8.90	-	-	190	-	-	260	-	-
YVD-09	YVD-09-160929	9/29/2016	N	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.016	-	-	-	-	-	-	-	-	7.62	-	-	184	-	-	243	-	-
YVD-09	YVD-09-161213	12/13/2016	N	K1615045	0.10	U	-	0.5	U	-	-	-	-	0.048	-	-	-	-	-	-	-	-	8.42	-	-	185	-	-	238	-	-
YVD-09	YVD-D2-161213	12/13/2016	FD	K1615045	0.10	U	-	0.5	U	-	-	-	-	0.078	-	-	-	-	-	-	-	-	8.04	-	-	181	-	-	240	-	-
YVD-09	YVD-031317-35	3/13/2017	N	K1702489	0.04	J	-	0.5	U	-	-	-	-	0.025	-	-	-	-	-	-	-	-	7.78	-	-	185	-	-	225	-	-
YVD-09	YVD-060517-08	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.007	J	-	-	-	-	-	-	-	6.98	-	-	163	-	-	237	-	-
YVD-09	YVD-092617-29	9/26/2017	N	K1710381	0.10	U	-	0.5	U	-	-	-	-	0.029	-	-	-	-	-	-	-	-	8.07	-	-	175	-	-	223	-	-
YVD-09	YVD-092617-30	9/26/2017	FD	K1710381	0.10	U	-	0.5	U	-	-	-	-	0.039	-	-	-	-	-	-	-	-	8.11	-	-	176	-	-	224	-	-
YVD-09	YVD-120517-21	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.009	J	-	-	-	-	-	-	-	7.27	-	-	174	-	-	211	-	-
YVD-09	YVD-031918-18	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	7.80	-	-	166	-	-	180	-	-
YVD-09	YVD-060318-13	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	8.35	-	-	182	-	-	182	-	-
YVD-09	YVD-090918-06	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	8.10	-	-	174	-	-	172	-	-
YVD-09	YVD-121118-15	12/11/2018	N	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	8.60	-	-	172	-	-	166	-	-
YVD-09	YVD-121118-17	12/11/2018	FD	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	8.75	-	-	175	-	-	170	-	-
YVD-09	YVD-031719-05	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	8.05	-	-	166	-	-	162	-	-
YVD-09	YVD-060319-15	6/3/2019	N	992053	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	8.00	-	-	166	-	-	146	-	-
YVD-09	YVD-090919-04	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	8.20	-	-	160	-	-	148	-	-
YVD-09	YVD-120919-06	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U		8.40	-	-	166	J	MSD	143	-	-
YVD-09	YVD-033020-05	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	7.95	-	-	163	-	-	150	-	-
YVD-09	YVD-060920-24	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	7.90	--	--	167	--	--	158	--	--
YVD-09	YVD-092120-16	9/21/2020	N	013896	0.050	U	--	2.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	7.85	--	--	164	--	--	151	--	--
YVD-09	YVD-120720-13	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	8.65	--	--	164	--	--	159	--	--
YVD-09	YVD-030121-05	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	8.05	--	--	161	--	--	152	--	--
YVD-09	YVD-060721-18	6/7/2021	N	124105	0.050	U	--	5.0	UJ	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	--	8.15	--	--	157	--	--	135	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-10	YVD-10-130917	09/17/2013	N	SWI0123	2	U	-	0.25	U	-	-	-	-	-	-	-	0.148	-	-	-	-	-	3.28	-	-	104	-	-	199	-	-
YVD-10	YVD-10-131212	12/12/2013	N	SWL0078	2	U	-	0.6495	U	ERL	-	-	-	-	-	-	-	-	-	1.4	-	-	4.49	-	-	102	-	-	174	-	-
YVD-10	YVD-10-140319	03/19/2014	N	SXC0107	2	U	-	0.507	J-	MSD	0.77	-	-	-	-	-	-	-	-	-	-	-	3.93	-	-	96.8	-	-	163	-	-
YVD-10	YVD-10-140603	06/03/2014	N	SXF0025	2	U	-	0.577	J-	MSD	0.8	-	-	-	-	-	-	-	-	-	-	-	4.07	-	-	103	-	-	188	-	-
YVD-10	YVD-10-140924	09/24/2014	N	SXI0173	2	U	-	0.443	J+	MSD	0.48	J+	FBK	-	-	-	-	-	-	-	-	-	3.86	-	-	116	-	-	217	-	-
YVD-10	YVD-10-141217	12/17/2014	N	SXL0144	2	U	-	-	R	MSD	0.69	J-	MSD	-	-	-	-	-	-	-	-	-	3.88	-	-	110	-	-	180	-	-
YVD-10	YVD-10-150318	03/18/2015	N	5904651	2	U	-	0.25	UJ	MSD	0.42	-	-	-	-	-	-	-	-	-	-	-	4.00	J-	MSD	130	-	-	370	-	-
YVD-10	YVD-10-150617	06/17/2015	N	59010961	2	U	-	0.44	J-	MSD	0.72	-	-	-	-	-	-	-	-	-	-	-	4.60	J+	MSD	130	J+	MSD	110	-	-
YVD-10	YVD-10-150923	09/23/2015	N	59020391	2	U	-	0.25	UJ	MSD	0.56	-	-	-	-	-	-	-	-	-	-	-	4.30	-	-	120	-	-	370	J-	MSD
YVD-10	YVD-10-151214	12/14/2015	N	59025351	2	U	-	0.25	UJ	MSD	0.58	-	-	-	-	-	-	-	-	-	-	-	4.30	-	-	120	-	-	360	-	-
YVD-10	YVD-10-160309	03/09/2016	N	59029711	2	U	-	-	R	MSD	0.42	-	-	-	-	-	-	-	-	-	-	-	4.10	-	-	120	-	-	280	J+	MSD
YVD-10	YVD-10-160621	6/21/2016	N	59037271	2	U	-	-	R	MSD	0.71	-	-	-	-	-	-	-	-	-	-	-	4.50	-	-	110	-	-	240	-	-
YVD-10	YVD-10-160929	9/29/2016	N	K1611698	0.10	U	-	-	R	MSD	-	-	-	0.028	-	-	-	-	-	-	-	-	2.48	-	-	114	-	-	223	-	-
YVD-10	YVD-10-161212	12/12/2016	N	K1615029	0.10	U	-	0.5	U	-	-	-	-	0.074	-	-	-	-	-	-	-	-	2.68	-	-	118	-	-	191	-	-
YVD-10	YVD-030917-27	3/9/2017	N	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.066	-	-	-	-	-	-	-	-	2.89	-	-	133	-	-	799	-	-
YVD-10	YVD-060617-22	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.036	-	-	-	-	-	-	-	-	2.57	-	-	119	-	-	368	-	-
YVD-10	YVD-092617-31	9/26/2017	N	K1710381	0.10	U	-	0.5	U	-	-	-	-	0.011	-	-	-	-	-	-	-	-	2.56	-	-	111	-	-	265	-	-
YVD-10	YVD-120517-30	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.023	-	-	-	-	-	-	-	-	2.37	-	-	114	-	-	224	-	-
YVD-10	YVD-031818-06	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.60	-	-	123	-	-	202	-	-
YVD-10	YVD-060318-06	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.93	-	-	118	-	-	208	-	-
YVD-10	YVD-090918-13	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.58	-	-	114	-	-	238	-	-
YVD-10	YVD-121018-08	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.64	-	-	112	-	-	196	-	-
YVD-10	YVD-031819-16	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	-	-	2.62	-	-	108	-	-	196	-	-
YVD-10	YVD-060319-18	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.56	-	-	106	-	-	220	-	-
YVD-10	YVD-091019-20	9/10/2019	N	998438	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.49	-	-	104	-	-	165	-	-
YVD-10	YVD-121019-21	12/10/2019	N	902321	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.94	-	-	102	-	-	199	-	-
YVD-10	YVD-033020-08	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.64	-	-	100	-	-	183	-	-
YVD-10	YVD-060920-12	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.71	--	--	108	--	--	224	--	--
YVD-10	YVD-092020-08	9/20/2020	N	013864	0.050	U	--	0.5	U	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.73	--	--	102	--	--	229	--	--
YVD-10	YVD-120720-12	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.24	--	--	106	--	--	288	--	--
YVD-10	YVD-030121-12	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.34	--	--	134	--	--	896	--	--
YVD-10	YVD-060621-07	6/6/2021	N	124053	0.050	U	--	5.0	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	2.80	--	--	106	--	--	219	--	--
YVD-11	YVD-11-130923	09/23/2013	N	SWI0178	-	-	-	0.25	U	-	-	-	-	-	-	-	0.1	UJ	FDP	-	-	-	5.44	J	FDP	23.2	-	-	-	-	-
YVD-11	YVD-D2-130923	09/23/2013	FD	SWI0178	-	-	-	0.25	U	-	-	-	-	-	-	-	0.753	J	FDP	-	-	-	3.60	J	FDP	23.0	-	-	-	-	-
YVD-11	YVD-11-130926	09/26/2013	N	SWI0190	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	207	-	-
YVD-11	YVD-D3-130926	09/26/2013	FD	SWI0190	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	228	-	-
YVD-11	YVD-11-131212	12/12/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.245	-	-	3.37	-	-	23.2	-	-	208	-	-
YVD-11	YVD-11-140318	03/18/2014	N	SXC0107	2	U	-	0.503	J-	MSD	0.17	-	-	-	-	-	-	-	-	-	-	-	3.15	-	-	22.2	-	-	193	-	-
YVD-11	YVD-11-140603	06/03/2014	N	SXF0017	2	U	-	0.564	-	-	0.84	-	-	-	-	-	-	-	-	-	-	-	5.38	-	-	26.1	-	-	203	J-	MSD
YVD-11	YVD-11-140924	09/24/2014	N	SXI0173	1	U	-	0.453	J+	MSD	0.17	J+	FBK	-	-	-	-	-	-	-	-	-	3.86	-	-	25.6	-	-	159	-	-
YVD-11	YVD-11-141217	12/17/2014	N	SXL0121	2	U	-	0.25	UJ	MSD	0.46	-	-	-	-	-	-	-	-	-	-	-	4.77	-	-	25.6	-	-	158	-	-
YVD-11	YVD-11-150317	03/17/2015	N	5904651	2	U	-	0.25	UJ	MSD	0.3	-	-	-	-	-	-	-	-	-	-	-	4.30	J-	MSD	26.0	-	-	150	-	-
YVD-11	YVD-11-150616	06/16/2015	N	59010961	2	U	-	0.31	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.20	J+	MSD	27.0	J+	MSD	140	-	-
YVD-11	YVD-11-150923	09/23/2015	N	59020281	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.40	-	-	25.0	-	-	130	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-11	YVD-11-151215	12/15/2015	N	59025431	2	U	-	-	R	MSD	0.59	J	FDP	-	-	-	-	-	-	-	-	-	5.20	-	-	25.0	-	-	140	-	-
YVD-11	YVD-D2-151215	12/15/2015	FD	59025431	0.2	U	-	-	R	MSD	1.5	J	FDP	-	-	-	-	-	-	-	-	-	4.90	-	-	25.0	-	-	130	-	-
YVD-11	YVD-11-160309	03/09/2016	N	59029711	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.30	-	-	25.0	-	-	140	J+	MSD
YVD-11	YVD-11-160621	6/21/2016	N	59037151	2	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	27.0	-	-	130	-	-
YVD-11	YVD-11-160927	9/27/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.071	-	-	-	-	-	-	-	-	3.13	-	-	26.1	-	-	100	-	-
YVD-11	YVD-11-161214	12/14/2016	N	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.421	-	-	-	-	-	-	-	-	4.82	-	-	25.6	-	-	104	-	-
YVD-11	YVD-031317-37	3/13/2017	N	K1702489	0.06	J	-	0.5	U	-	-	-	-	0.016	-	-	-	-	-	-	-	-	3.02	-	-	25.5	-	-	99.8	-	-
YVD-11	YVD-060517-10	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.029	-	-	-	-	-	-	-	-	2.98	-	-	24.9	-	-	133	-	-
YVD-11	YVD-092617-26	9/26/2017	N	K1710381	0.10	UJ	HTQ	0.5	U	-	-	-	-	0.006	J	-	-	-	-	-	-	-	3.24	-	-	28.8	-	-	219	-	-
YVD-11	YVD-120417-06	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.015	U	MBK	-	-	-	-	-	-	2.78	-	-	25.8	-	-	124	-	-
YVD-11	YVD-031918-12	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.98	-	-	26.0	-	-	103	-	-
YVD-11	YVD-031918-14	3/19/2018	FD	870634	0.050	U	-	-	-	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.94	-	-	25.8	-	-	100	-	-
YVD-11	YVD-060418-14	6/4/2018	N	874662	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.26	-	-	28.4	-	-	91.2	-	-
YVD-11	YVD-060418-16	6/4/2018	FD	874662	0.050	U	-	0.6	J	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.28	-	-	28.9	-	-	90.0	-	-
YVD-11	YVD-090918-05	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.05	-	-	28.2	-	-	90.6	-	-
YVD-11	YVD-121018-10	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.88	-	-	27.4	-	-	75.4	-	-
YVD-11	YVD-031819-18	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.76	-	-	26.2	-	-	60.4	-	-
YVD-11	YVD-060219-02	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.60	-	-	25.4	-	-	58.2	-	-
YVD-11	YVD-060219-04	6/2/2019	FD	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.68	-	-	25.6	-	-	58.4	-	-
YVD-11	YVD-090919-05	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.66	-	-	27.2	-	-	60.4	-	-
YVD-11	YVD-120919-13	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.76	-	-	29.6	J	MSD	57.2	-	-
YVD-11	YVD-033020-10	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.68	-	-	29.8	-	-	55.5	--	-
YVD-11	YVD-061020-31	6/10/2020	N	009361	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.64	--	--	31.0	--	--	48.8	--	--
YVD-11	YVD-092120-20	9/21/2020	N	013896	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.70	--	--	33.4	--	--	60.3	--	--
YVD-11	YVD-120720-10	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.05	--	--	36.4	--	--	52.8	--	--
YVD-11	YVD-030121-06	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.94	--	--	37.6	--	--	56.0	--	--
YVD-11	YVD-060821-23	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.80	--	--	35.6	--	--	36.0	--	--
YVD-12	YVD-12-130919	09/19/2013	N	SWI0142	-	-	-	-	R	FBK	-	-	-	-	-	-	0.356	J+	FBK	-	-	-	3.14	-	-	77.3	-	-	245	-	-
YVD-12	YVD-12-130925	09/25/2013	N	SWI0175	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YVD-12	YVD-12-131211	12/11/2013	N	SWL0073	2	U	-	-	R	MSD, FBK	-	-	-	-	-	-	-	-	-	0.218	-	-	3.63	-	-	73.2	-	-	262	-	-
YVD-12	YVD-12-140318	03/18/2014	N	SXC0095	2	U	-	0.564	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	3.27	-	-	73.4	-	-	236	J-	MSD
YVD-12	YVD-12-140603	06/03/2014	N	SXF0017	0.2	U	-	0.415	-	-	0.28	J+	FBK	-	-	-	-	-	-	-	-	-	2.96	-	-	70.7	-	-	21.3	J-	MSD
YVD-12	YVD-12-140922	09/22/2014	N	SXI0148	2	U	-	0.669	-	-	0.25	-	-	-	-	-	-	-	-	-	-	-	3.13	-	-	77.9	-	-	200	-	-
YVD-12	YVD-D2-140922	09/22/2014	FD	SXI0148	0.8	U	-	0.653	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	3.00	-	-	77.8	-	-	200	-	-
YVD-12	YVD-12-141216	12/16/2014	N	SXL0121	2	U	-	0.25	UJ	MSD	0.25	-	-	-	-	-	-	-	-	-	-	-	3.23	-	-	71.8	-	-	228	-	-
YVD-12	YVD-12-150317	03/17/2015	N	5904541	2	U	-	0.56	J-	MSD	0.31	-	-	-	-	-	-	-	-	-	-	-	3.60	-	-	73.0	-	-	190	J-	MSD
YVD-12	YVD-12-150617	06/17/2015	N	59010961	2	U	-	0.35	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.60	J+	MSD	83.0	J+	MSD	180	-	-
YVD-12	YVD-12-150924	09/24/2015	N	59020391	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	73.0	-	-	210	J-	MSD
YVD-12	YVD-12-151216	12/16/2015	N	59025501	2	U	-	0.58	J-	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	3.10	-	-	74.0	-	-	180	-	-
YVD-12	YVD-12-160309	03/09/2016	N	59029941	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.60	-	-	73.0	-	-	170	J	DUP
YVD-12	YVD-D3-160309	03/09/2016	FD	59029941	0.2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.50	-	-	72.0	-	-	180	J	DUP
YVD-12	YVD-12-160622	6/22/2016	N	59037271	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	2.90	-	-	72.0	-	-	180	-	-
YVD-12	YVD-12-160929	9/29/2016	N	K1611704	0.10	U	-	0.5	U	-	-	-	-	0.026	-	-	-	-	-	-	-	-	2.28	-	-	67.7	-	-	158	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-12	YVD-12-161213	12/13/2016	N	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.018	-	-	-	-	-	-	-	-	2.29	-	-	67.9	-	-	150	-	-
YVD-12	YVD-030917-20	3/9/2017	N	K1702404	0.10	U	-	0.5	UJ	MSD	-	-	-	0.008	J	-	-	-	-	-	-	-	2.27	-	-	67.4	-	-	227	-	-
YVD-12	YVD-060617-25	6/6/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	2.24	-	-	66.5	-	-	155	-	-
YVD-12	YVD-092517-15	9/25/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	2.27	-	-	64.4	-	-	177	-	-
YVD-12	YVD-120417-03	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.013	U	MBK	-	-	-	-	-	-	2.06	-	-	70.8	-	-	169	-	-
YVD-12	YVD-031918-13	3/19/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.30	-	-	70.5	-	-	167	-	-
YVD-12	YVD-060318-11	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.58	-	-	68.0	-	-	171	-	-
YVD-12	YVD-090918-16	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.52	-	-	67.0	-	-	180	-	-
YVD-12	YVD-121018-13	12/10/2018	N	884857	0.050	U	-	10	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	2.52	-	-	69.5	-	-	170	-	-
YVD-12	YVD-031719-07	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.46	-	-	70.5	-	-	188	-	-
YVD-12	YVD-060319-27	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.40	-	-	66.5	-	-	188	-	-
YVD-12	YVD-090919-16	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.48	-	-	60.5	-	-	172	-	-
YVD-12	YVD-120919-12	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	2.48	-	-	67.0	J	MSD	176	-	-
YVD-12	YVD-033020-11	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.44	-	-	63.0	-	-	170	-	-
YVD-12	YVD-060920-22	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.50	--	--	71.5	--	--	179	--	--
YVD-12	YVD-092120-18	9/21/2020	N	013896	0.050	U	--	2.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	2.38	--	--	60.5	--	--	168	--	--
YVD-12	YVD-120820-19	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	2.59	--	--	62.0	--	--	174	--	--
YVD-12	YVD-030221-19	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.44	--	--	59.5	--	--	168	--	--
YVD-12	YVD-060821-25	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	2.41	--	--	60.0	--	--	176	--	--
YVD-13	YVD-13-130919	09/19/2013	N	SWI0138	2	U	-	-	R	FBK	-	-	-	-	-	-	-	R	FBK	-	-	-	4.30	-	-	114	-	-	365	-	-
YVD-13	YVD-13-131211	12/11/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.11	-	-	4.16	-	-	110	-	-	278	-	-
YVD-13	YVD-13-140318	03/18/2014	N	SXC0095	2	U	-	0.613	-	-	0.17	-	-	-	-	-	-	-	-	-	-	-	4.27	-	-	106	-	-	312	J-	MSD
YVD-13	YVD-13-140603	06/03/2014	N	SXF0017	0.8	U	-	0.727	-	-	0.078	J+	FBK	-	-	-	-	-	-	-	-	-	3.70	-	-	113	-	-	151	J-	MSD
YVD-13	YVD-13-140923	09/23/2014	N	SXI0173	2	U	-	9.13	J+	MSD	0.05	U	-	-	-	-	-	-	-	-	-	-	4.40	-	-	118	-	-	328	-	-
YVD-13	YVD-13-141217	12/17/2014	N	SXL0121	2	U	-	0.25	UJ	MSD	0.1	U	-	-	-	-	-	-	-	-	-	-	4.74	-	-	119	-	-	355	-	-
YVD-13	YVD-13-150317	03/17/2015	N	5904541	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.00	-	-	120	-	-	290	J-	MSD
YVD-13	YVD-13-150617	06/17/2015	N	59010961	2	U	-	0.68	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.40	J+	MSD	120	J+	MSD	310	-	-
YVD-13	YVD-13-150924	09/24/2015	N	59020391	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.10	-	-	110	-	-	330	J-	MSD
YVD-13	YVD-13-151216	12/16/2015	N	59025501	2	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	4.30	-	-	120	-	-	310	-	-
YVD-13	YVD-13-160309	03/09/2016	N	59029941	2	U	-	0.25	UJ	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.20	-	-	120	-	-	390	J	DUP
YVD-13	YVD-13-160622	6/22/2016	N	59037271	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.20	-	-	120	-	-	390	-	-
YVD-13	YVD-13-160928	9/28/2016	N	K1611698	0.10	U	-	-	R	MSD	-	-	-	0.014	-	-	-	-	-	-	-	-	3.91	-	-	113	-	-	321	-	-
YVD-13	YVD-13-161214	12/13/2016	N	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.047	-	-	-	-	-	-	-	-	4.02	-	-	111	-	-	313	-	-
YVD-13	YVD-030717-08	3/7/2017	N	K1702324	0.05	J	HTQ	0.5	U	-	-	-	-	0.010	J	-	-	-	-	-	-	-	3.63	-	-	105	-	-	277	-	-
YVD-13	YVD-030717-10	3/7/2017	FD	K1702324	0.04	J	HTQ	0.5	U	-	-	-	-	0.009	J	-	-	-	-	-	-	-	3.71	-	-	107	-	-	280	-	-
YVD-13	YVD-060717-33	6/7/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.014	-	-	-	-	-	-	-	-	3.83	-	-	114	-	-	282	-	-
YVD-13	YVD-092617-25	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	3.66	-	-	105	-	-	298	-	-
YVD-13	YVD-120417-07	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.015	U	MBK	-	-	-	-	-	-	3.41	-	-	102	-	-	271	-	-
YVD-13	YVD-031918-19	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.82	-	-	102	-	-	249	-	-
YVD-13	YVD-060318-09	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.01	-	-	108	-	-	235	-	-
YVD-13	YVD-090918-14	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.90	-	-	104	-	-	222	-	-
YVD-13	YVD-121018-11	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.95	-	-	104	-	-	225	-	-
YVD-13	YVD-031819-15	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.04	-	-	105	-	-	223	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-13	YVD-060319-25	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.87	-	-	103	-	-	201	-	-
YVD-13	YVD-090919-10	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.95	-	-	95.0	-	-	197	-	-
YVD-13	YVD-120919-10	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.90	-	-	102	J	MSD	191	-	-
YVD-13	YVD-033020-09	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.92	-	-	100	-	-	200	-	-
YVD-13	YVD-060920-21	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.97	--	--	106	--	--	176	--	--
YVD-13	YVD-092120-13	9/21/2020	N	013896	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.04	--	--	103	--	--	198	--	--
YVD-13	YVD-120820-17	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.16	--	--	102	--	--	166	--	--
YVD-13	YVD-030221-15	3/2/2021	N	120034	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.96	--	--	101	--	--	195	--	--
YVD-13	YVD-060821-32	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.96	--	--	100	--	--	196	--	--
YVD-14	YVD-14-130918	09/18/2013	N	SWI0123	2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	3.45	-	-	110	-	-	213	-	-
YVD-14	YVD-14-131212	12/12/2013	N	SWL0078	2	U	-	0.7957	U	ERL	-	-	-	-	-	-	-	-	-	0.06	U	-	3.29	-	-	108	-	-	186	-	-
YVD-14	YVD-14-140319	03/19/2014	N	SXC0107	2	U	-	0.562	J-	MSD	0.05	U	-	-	-	-	-	-	-	-	-	-	3.37	-	-	102	-	-	190	-	-
YVD-14	YVD-14-140604	06/04/2014	N	SXF0025	2	U	-	0.25	UJ	MSD	0.078	-	-	-	-	-	-	-	-	-	-	-	3.46	-	-	112	-	-	191	-	-
YVD-14	YVD-14-140924	09/24/2014	N	SXI0173	2	U	-	0.25	U	-	0.087	J+	FBK	-	-	-	-	-	-	-	-	-	4.10	-	-	124	-	-	178	-	-
YVD-14	YVD-14-141217	12/17/2014	N	SXL0121	2	U	-	0.25	UJ	MSD	0.1	U	-	-	-	-	-	-	-	-	-	-	3.83	-	-	113	-	-	185	-	-
YVD-14	YVD-14-150318	03/18/2015	N	5904651	2	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.60	J-	MSD	130	-	-	180	-	-
YVD-14R	YVD-14R-151216	12/16/2015	N	59025501	2	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	4.40	-	-	120	-	-	160	-	-
YVD-14R	YVD-14R-160309	03/09/2016	N	59029941	2	U	-	0.25	UJ	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.40	-	-	130	-	-	180	J	DUP
YVD-14R	YVD-14R-160622	6/22/2016	N	59037271	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.30	-	-	130	-	-	150	-	-
YVD-14R	YVD-14R-160928	9/28/2016	N	K1611698	0.10	U	-	-	R	MSD	-	-	-	0.015	-	-	-	-	-	-	-	-	4.05	-	-	126	-	-	140	-	-
YVD-14R	YVD-14R-161212	12/12/2016	N	K1615029	0.10	UJ	HTQ	0.5	U	-	-	-	-	0.058	-	-	-	-	-	-	-	-	4.09	-	-	119	-	-	158	-	-
YVD-14R	YVD-D1-161212	12/12/2016	FD	K1615029	0.10	UJ	HTQ	0.5	U	-	-	-	-	0.092	-	-	-	-	-	-	-	-	4.17	-	-	121	-	-	155	-	-
YVD-14R	YVD-030917-19	3/9/2017	N	K1702404	0.10	U	-	0.5	U	-	-	-	-	0.020	-	-	-	-	-	-	-	-	3.80	-	-	117	-	-	147	-	-
YVD-14R	YVD-030917-21	3/9/2017	FD	K1702404	0.10	U	-	0.5	U	-	-	-	-	0.019	-	-	-	-	-	-	-	-	3.75	-	-	115	-	-	151	-	-
YVD-14R	YVD-060517-06	6/5/2017	N	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.038	-	-	-	-	-	-	-	-	3.53	-	-	110	-	-	142	-	-
YVD-14R	YVD-092517-14	9/25/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.018	-	-	-	-	-	-	-	-	3.85	-	-	121	-	-	138	-	-
YVD-14R	YVD-120417-12	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.024	-	-	-	-	-	-	-	-	3.54	-	-	116	-	-	124	-	-
YVD-14R	YVD-031818-11	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.96	-	-	127	-	-	128	-	-
YVD-14R	YVD-060318-04	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.18	-	-	130	-	-	123	-	-
YVD-14R	YVD-090918-09	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.09	-	-	130	-	-	125	-	-
YVD-14R	YVD-121018-02	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.39	-	-	131	-	-	139	-	-
YVD-14R	YVD-121018-04	12/10/2018	FD	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.36	-	-	131	-	-	136	-	-
YVD-14R	YVD-031819-12	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.56	-	-	136	-	-	147	-	-
YVD-14R	YVD-031819-14	3/18/2019	FD	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.57	-	-	136	-	-	145	-	-
YVD-14R	YVD-060319-22	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.42	-	-	136	-	-	145	-	-
YVD-14R	YVD-060319-24	6/3/2019	FD	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.38	-	-	132	-	-	131	-	-
YVD-14R	YVD-090919-13	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.48	-	-	129	-	-	133	-	-
YVD-14R	YVD-121019-15	12/10/2019	N	902321	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.71	-	-	128	-	-	123	-	-
YVD-14R	YVD-121019-17	12/10/2019	FD	902321	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.75	-	-	128	-	-	124	-	-
YVD-14R	YVD-033020-02	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.20	-	-	134	-	-	125	-	-
YVD-14R	YVD-033020-04	3/30/2020	FD	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.34	-	-	134	-	-	123	-	-
YVD-14R	YVD-060920-20	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.44	--	--	152	--	--	132	--	--
YVD-14R	YVD-092120-14	9/21/2020	N	013896	0.050	U	--	2.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.31	--	--	144	--	--	124	--	--
YVD-14R	YVD-120820-20	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.60	--	--	144	--	--	129	--	--
YVD-14R	YVD-030121-08	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.59	--	--	147	--	--	122	--	--
YVD-14R	YVD-060621-09	6/6/2021	N	124053	0.050	U	--	5.0	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.71	--	--	146	--	--	114	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-15	YVD-15-130917	09/17/2013	N	SWI0123	2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	2.73	-	-	127	-	-	51.5	-	-
YVD-15	YVD-15-131212	12/12/2013	N	SWL0078	2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.238	-	-	4.48	-	-	114	-	-	114	-	-
YVD-15	YVD-15-140319	03/19/2014	N	SXC0107	2	U	-	0.553	J-	MSD	0.22	-	-	-	-	-	-	-	-	-	-	-	5.23	-	-	93.5	-	-	44.7	-	-
YVD-15	YVD-15-140603	06/03/2014	N	SXF0025	2	U	-	0.475	J-	MSD	0.31	-	-	-	-	-	-	-	-	-	-	-	5.20	-	-	110	-	-	39	-	-
YVD-15	YVD-15-140924	09/24/2014	N	SXI0173	2	U	-	1.19	J+	MSD	0.072	J+	FBK	-	-	-	-	-	-	-	-	-	3.11	-	-	135	-	-	50.7	-	-
YVD-15	YVD-15-141217	12/17/2014	N	SXL0121	2	U	-	0.414	J-	MSD	0.17	-	-	-	-	-	-	-	-	-	-	-	3.67	-	-	60.3	-	-	53.4	-	-
YVD-15	YVD-15-150317	03/17/2015	N	5904651	2	U	-	0.25	UJ	MSD	0.27	-	-	-	-	-	-	-	-	-	-	-	8.40	J-	MSD	160	-	-	53	-	-
YVD-15	YVD-15-150617	06/17/2015	N	59011021	0.2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.60	J	RPD	110	J	RPD	59	-	-
YVD-15	YVD-15-150925	09/25/2015	N	59020431	2	U	-	2.5	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	3.90	-	-	80.0	-	-	47	-	-
YVD-15	YVD-15-151215	12/15/2015	N	59025431	2	U	-	-	R	MSD	0.25	UJ	FDP	-	-	-	-	-	-	-	-	-	4.10	-	-	80.0	-	-	40	-	-
YVD-15	YVD-15-160309	03/09/2016	N	59029711	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.20	-	-	75.0	-	-	65	J+	MSD
YVD-15	YVD-15-160621	6/21/2016	N	59037271	2	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	74.0	-	-	86	-	-
YVD-15	YVD-15-160928	9/28/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.023	-	-	-	-	-	-	-	-	3.15	-	-	66.2	-	-	108	-	-
YVD-15	YVD-15-161215	12/15/2016	N	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.095	-	-	-	-	-	-	-	-	3.40	-	-	59.1	-	-	108	-	-
YVD-15	YVD-030917-23	3/9/2017	N	K1702404	0.10	U	-	0.5	U	-	-	-	-	0.011	-	-	-	-	-	-	-	-	2.95	-	-	55.3	-	-	125	-	-
YVD-15	YVD-060617-20	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.017	-	-	-	-	-	-	-	-	2.98	-	-	62.9	-	-	143	-	-
YVD-15	YVD-092517-10	9/25/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	3.21	-	-	74.5	-	-	167	-	-
YVD-15	YVD-120517-28	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.013	-	-	-	-	-	-	-	-	2.89	-	-	78.6	-	-	145	-	-
YVD-15	YVD-031818-09	3/18/2018	N	870610	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.25	-	-	94.5	-	-	129	-	-
YVD-15	YVD-060318-08	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.36	-	-	97.5	-	-	118	-	-
YVD-15	YVD-090918-11	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.18	-	-	99.0	-	-	110	-	-
YVD-15	YVD-121018-06	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.25	-	-	97.5	-	-	111	-	-
YVD-15	YVD-031719-10	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.22	-	-	96.0	-	-	110	-	-
YVD-15	YVD-060419-29	6/4/2019	N	992242	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.18	-	-	100	-	-	114	-	-
YVD-15	YVD-090919-11	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	3.14	-	-	92.0	-	-	103	-	-
YVD-15	YVD-121019-19	12/10/2019	N	902321	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.40	-	-	91.5	-	-	96.9	-	-
YVD-15	YVD-033020-06	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	3.12	-	-	90.0	-	-	90.9	-	-
YVD-15	YVD-060920-16	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.08	--	--	96.0	--	--	87.7	--	--
YVD-15	YVD-092020-09	9/20/2020	N	013864	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.12	--	--	89.5	--	--	90.0	--	--
YVD-15	YVD-120720-14	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.35	--	--	89.0	--	--	89.0	--	--
YVD-15	YVD-030121-14	3/1/2021	N	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.15	--	--	85.5	--	--	86.9	--	--
YVD-15	YVD-060621-08	6/6/2021	N	124053	0.050	U	--	5.0	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	3.32	--	--	86.5	--	--	72.0	--	--
YVD-16	YVD-16-130923	09/23/2013	N	SWI0178	-	-	-	0.375	-	-	-	-	-	-	-	-	0.1	U	-	-	-	-	6.16	-	-	81.7	-	-	-	-	-
YVD-16	YVD-16-130926	09/26/2013	N	SWI0190	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	-	-	
YVD-16	YVD-16-131212	12/12/2013	N	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.06	U	-	5.25	-	-	79.8	-	-	163	-	-
YVD-16	YVD-16-140318	03/18/2014	N	SXC0107	2	U	-	1.01	J-	MSD	1.4	-	-	-	-	-	-	-	-	-	-	-	15.00	-	-	75.5	-	-	130	-	-
YVD-16	YVD-16-140603	06/03/2014	N	SXF0017	0.8	U	-	0.741	-	-	0.83	-	-	-	-	-	-	-	-	-	-	-	8.47	-	-	78.4	-	-	131	J-	MSD
YVD-16	YVD-16-140923	09/23/2014	N	SXI0173	1	U	-	0.747	J+	MSD	0.22	-	-	-	-	-	-	-	-	-	-	-	7.48	-	-	94.1	-	-	114	-	-
YVD-16	YVD-16-141217	12/17/2014	N	SXL0121	1	U	-	0.25	UJ	MSD	0.25	J	FDP	-	-	-	-	-	-	-	-	-	6.77	-	-	83.7	-	-	118	-	-
YVD-16	YVD-D3-141217	12/17/2014	FD	SXL0121	0.2	U	-	0.29	J-	MSD	0.1	J	FDP	-	-	-	-	-	-	-	-	-	6.27	-	-	81.7	-	-	130	-	-
YVD-16	YVD-16-150317	03/17/2015	N	5904651	1	U	-	0.29	J-	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.10	J-	MSD	87.0	-	-	120	-	-
YVD-16	YVD-16-150616	06/16/2015	N	59010961	1	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.20	J+	MSD	91.0	J+	MSD	120	-	-
YVD-16	YVD-16-150923	09/23/2015	N	59020281	1	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	6.50	-	-	85.0	-	-	130	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-16	YVD-16-151215	12/15/2015	N	59025431	1	U	-	-	R	MSD	0.25	UJ	FDP	-	-	-	-	-	-	-	-	-	5.70	-	-	85.0	-	-	120	-	-
YVD-16	YVD-16-160309	03/09/2016	N	59029711	1	U	-	-	R	MSD	0.27	-	-	-	-	-	-	-	-	-	-	-	7.40	-	-	86.0	-	-	130	J+	MSD
YVD-16	YVD-16-160621	6/21/2016	N	59037151	1	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	5.90	-	-	86.0	-	-	120	-	-
YVD-16	YVD-D2-160621	6/21/2016	FD	59037151	0.2	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	6.00	-	-	88.0	-	-	120	-	-
YVD-16	YVD-16-160928	9/28/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.016	-	-	-	-	-	-	-	-	5.69	-	-	90.2	-	-	110	-	-
YVD-16	YVD-16-161215	12/15/2016	N	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.068	-	-	-	-	-	-	-	-	5.59	-	-	82.5	-	-	112	-	-
YVD-16	YVD-030917-22	3/9/2017	N	K1702404	0.10	U	-	0.5	U	-	-	-	-	0.045	-	-	-	-	-	-	-	-	5.16	-	-	79.8	-	-	113	-	-
YVD-16	YVD-060517-12	6/5/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.021	-	-	-	-	-	-	-	-	5.08	-	-	83.0	-	-	117	-	-
YVD-16	YVD-092617-28	9/26/2017	N	K1710381	0.10	U	-	0.5	U	-	-	-	-	0.016	-	-	-	-	-	-	-	-	5.44	-	-	84.1	-	-	115	-	-
YVD-16	YVD-120517-22	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.048	-	-	-	-	-	-	-	-	5.17	-	-	80.1	-	-	110	-	-
YVD-16	YVD-031918-16	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	5.25	-	-	79.0	-	-	106	-	-
YVD-16	YVD-060318-10	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	5.55	-	-	88.0	-	-	104	-	-
YVD-16	YVD-090918-07	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.20	-	-	83.5	-	-	107	-	-
YVD-16	YVD-121118-20	12/11/2018	N	884939	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	5.85	-	-	84.0	-	-	106	-	-
YVD-16	YVD-031719-08	3/17/2019	N	988239	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.45	-	-	82.0	-	-	109	-	-
YVD-16	YVD-060219-06	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.45	-	-	80.5	-	-	106	-	-
YVD-16	YVD-090919-07	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.30	-	-	77.0	-	-	107	-	-
YVD-16	YVD-120919-11	12/9/2019	N	902276	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	5.35	-	-	79.5	J	MSD	106	-	-
YVD-16	YVD-033120-16	3/31/2020	N	006260	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.35	-	-	82.0	-	-	107	-	-
YVD-16	YVD-061020-30	6/10/2020	N	009361	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.20	--	--	79.0	--	--	106	--	--
YVD-16	YVD-092020-06	9/20/2020	N	013864	0.050	U	--	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	5.45	--	--	81.0	--	--	112	--	--
YVD-16	YVD-120720-08	12/7/2020	N	017035	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	5.95	--	--	84.0	--	--	112	--	--
YVD-16	YVD-030121-02	3/1/2021	N	119931	0.050	U	--	2.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.25	--	--	78.0	--	--	113	--	--
YVD-16	YVD-030121-04	3/1/2021	FD	119931	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	5.50	--	--	79.5	--	--	115	--	--
YVD-16	YVD-060621-03	6/6/2021	N	124053	0.050	U	--	5.0	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	5.03	--	--	77.5	--	--	111	--	--
YVD-17	YVD-17-130919	09/19/2013	N	SWI0142	-	-	-	2.5	U	-	-	-	-	-	-	-	3.64	-	-	-	-	-	8.32	-	-	12.2	-	-	6.48	-	-
YVD-17	YVD-17-130924	09/24/2013	N	SWI0175	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YVD-17	YVD-17-131210	12/10/2013	N	SWL0055	0.2	U	-	-	R	FBK, MSD	-	-	-	-	-	-	-	-	-	1.61	-	-	5.25	-	-	7.9	-	-	6.64	-	-
YVD-17	YVD-17-140316	03/16/2014	N	SXC0081	0.2	U	-	0.25	U	-	0.3	-	-	-	-	-	-	-	-	-	-	-	1.73	-	-	6.1	-	-	6.42	-	-
YVD-17	YVD-17-140601	06/01/2014	N	SXF0008	0.2	U	-	0.287	-	-	0.52	-	-	-	-	-	-	-	-	-	-	-	2.22	-	-	8.7	-	-	5.74	-	-
YVD-17	YVD-17-140922	09/22/2014	N	SXI0148	0.2	U	-	0.293	-	-	0.36	-	-	-	-	-	-	-	-	-	-	-	2.91	-	-	9.9	-	-	5.08	-	-
YVD-17	YVD-17-141215	12/15/2014	N	SXL0103	0.2	U	-	0.25	U	-	0.19	-	-	-	-	-	-	-	-	-	-	-	1.84	-	-	9.2	-	-	6.01	J+	MSD, DUP
YVD-17	YVD-17-150316	03/16/2015	N	5904471	0.2	U	-	0.25	UJ	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	1.40	-	-	6.3	-	-	5.7	-	-
YVD-17	YVD-D1-150316	03/16/2015	FD	5904471	0.2	U	-	0.25	UJ	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	1.50	-	-	6.2	-	-	5.7	-	-
YVD-17	YVD-17-150617	06/17/2015	N	59010961	0.2	U	-	0.25	UJ	MSD	0.25	-	-	-	-	-	-	-	-	-	-	-	1.80	J+	MSD	8.7	J+	MSD	5.4	-	-
YVD-17	YVD-17-150924	09/24/2015	N	59020391	1.2	-	-	0.25	UJ	MSD	0.26	-	-	-	-	-	-	-	-	-	-	-	2.00	-	-	9.0	-	-	5.6	J-	MSD
YVD-17	YVD-17-151216	12/16/2015	N	59025501	0.2	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	1.40	-	-	8.0	-	-	5.4	-	-
YVD-17	YVD-17-160310	03/10/2016	N	59029941	0.2	U	-	0.25	UJ	FDP	0.25	U	-	-	-	-	-	-	-	-	-	-	1.20	-	-	6.4	-	-	4.8	J	DUP
YVD-17	YVD-17-160623	6/23/2016	N	59037371	0.2	U	-	0.25	U	-	0.25	U	-	-	-	-	-	-	-	-	-	-	1.60	-	-	8.3	-	-	5.3	-	-
YVD-17	YVD-17-160926	9/26/2016	N	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.095	-	-	-	-	-	-	-	-	1.59	-	-	8.3	-	-	7.9	-	-
YVD-17	YVD-17-161215	12/15/2016	N	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.103	-	-	-	-	-	-	-	-	1.46	-	-	7.4	-	-	6.0	-	-
YVD-17	YVD-031017-29	3/10/2017	N	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.038	-	-	-	-	-	-	-	-	0.26	-	-	5.4	-	-	6.26	-	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-17	YVD-060617-24	6/6/2017	N	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.055	-	-	-	-	-	-	-	-	1.16	-	-	7.81	-	-	6.02	-	-
YVD-17	YVD-092517-08	9/25/2017	N	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.046	-	-	-	-	-	-	-	-	1.73	-	-	9.5	-	-	7.17	-	-
YVD-17	YVD-120517-26	12/5/2017	N	K1713091	0.10	U	-	0.5	UJ	MSD	-	-	-	0.036	-	-	-	-	-	-	-	-	1.55	-	-	9.87	-	-	7.53	-	-
YVD-17	YVD-060418-20	6/4/2018	N	874662	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	0.78	-	-	7.20	-	-	6.54	-	-
YVD-17	YVD-060219-12	6/2/2019	N	991939	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	0.62	U	-	5.95	-	-	3.50	-	-
YVD-17	YVD-060820-10	6/8/2020	N	009144	0.050	U	--	0.5	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	0.62	U	--	6.20	--	--	6.06	--	--
YVD-17	YVD-060621-04	6/6/2021	N	124053	0.050	U	--	0.50	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	0.62	U	--	5.75	--	--	5.44	--	--
YVD-17	YVD-060621-05	6/6/2021	FD	124053	0.050	U	--	0.50	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	0.62	U	--	5.75	--	--	5.31	--	--
YVD-18	YVD-18-130919	09/19/2013	N	SWI0142	-	-	-	-	R	FBK	-	-	-	-	-	-	0.1	U	-	-	-	-	3.22	-	-	78.3	-	-	122	-	-
YVD-18	YVD-18-130925	09/25/2013	N	SWI0175	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YVD-18	YVD-18-131211	12/11/2013	N	SWL0073	2	U	-	1.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.06	U	-	3.02	-	-	71.3	-	-	116	-	-
YVD-18	YVD-D2-131211	12/11/2013	FD	SWL0073	2	U	-	0.2	UJ	MSD	-	-	-	-	-	-	-	-	-	0.06	U	-	3.06	-	-	70.9	-	-	129	-	-
YVD-18	YVD-18-140318	03/18/2014	N	SXC0095	2	U	-	0.358	-	-	0.068	-	-	-	-	-	-	-	-	-	-	-	3.30	-	-	77.5	-	-	147	J-	MSD
YVD-18	YVD-D2-140318	03/18/2014	FD	SXC0095	2	U	-	0.342	-	-	0.082	-	-	-	-	-	-	-	-	-	-	-	3.26	-	-	78.0	-	-	140	J-	MSD
YVD-18	YVD-18-140603	06/03/2014	N	SXF0017	0.8	U	-	0.796	-	-	0.071	J+	FBK	-	-	-	-	-	-	-	-	-	3.24	-	-	77.7	-	-	135	J-	MSD
YVD-18	YVD-18-140923	09/23/2014	N	SXI0173	1	U	-	0.335	J+	MSD	0.086	-	-	-	-	-	-	-	-	-	-	-	3.80	-	-	81.6	-	-	111	-	-
YVD-18	YVD-18-141216	12/16/2014	N	SXL0121	1	U	-	0.25	UJ	MSD	0.1	U	-	-	-	-	-	-	-	-	-	-	3.63	-	-	81.8	-	-	131	-	-
YVD-18	YVD-18-150317	03/17/2015	N	5904541	1	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	87.0	-	-	140	J-	MSD
YVD-18	YVD-18-150617	06/17/2015	N	59010961	1	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	4.10	J+	MSD	86.0	J+	MSD	120	-	-
YVD-18	YVD-18-150924	09/24/2015	N	59020391	1	U	-	0.25	UJ	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.50	-	-	77.0	-	-	140	J-	MSD
YVD-18	YVD-18-151216	12/16/2015	N	59025501	1	U	-	-	R	MSD	0.25	UJ	MSD	-	-	-	-	-	-	-	-	-	4.00	-	-	91.0	-	-	150	-	-
YVD-18	YVD-18-160309	03/09/2016	N	59029941	1	U	-	0.25	UJ	FDP, MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.80	-	-	89.0	-	-	150	J	DUP
YVD-18	YVD-18-160622	6/22/2016	N	59037271	1	U	-	-	R	MSD	0.25	U	-	-	-	-	-	-	-	-	-	-	3.70	-	-	86.0	-	-	140	-	-
YVD-18	YVD-18-160928	9/28/2016	N	K1611629	0.10	U	-	0.5	U	-	-	-	-	0.013	-	-	-	-	-	-	-	-	3.75	-	-	83.8	-	-	135	-	-
YVD-18	YVD-18-161214	12/14/2016	N	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.043	-	-	-	-	-	-	-	-	3.69	-	-	82.5	-	-	139	-	-
YVD-18	YVD-D3-161214	12/14/2016	FD	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.019	-	-	-	-	-	-	-	-	3.82	-	-	84.0	-	-	142	-	-
YVD-18	YVD-030617-05	3/6/2017	N	K1702324	0.04	J	HTQ	0.5	U	-	-	-	-	0.024	-	-	-	-	-	-	-	-	3.39	-	-	78.8	-	-	140	-	-
YVD-18	YVD-060717-31	6/7/2017	N	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.018	-	-	-	-	-	-	-	-	3.82	-	-	81.8	-	-	135	-	-
YVD-18	YVD-092617-27	9/26/2017	N	K1710333	0.10	U	-	0.5	U	-	-	-	-	0.018	-	-	-	-	-	-	-	-	3.64	-	-	77.0	-	-	137	-	-
YVD-18	YVD-120417-05	12/4/2017	N	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.017	U	MBK	-	-	-	-	-	-	3.62	-	-	81.6	-	-	144	-	-
YVD-18	YVD-031918-17	3/19/2018	N	870634	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	3.78	-	-	83.0	-	-	161	-	-
YVD-18	YVD-060318-07	6/3/2018	N	874568	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.18	-	-	88.5	-	-	147	-	-
YVD-18	YVD-090918-12	9/9/2018	N	880601	0.050	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.20	-	-	78.0	-	-	127	-	-
YVD-18	YVD-121018-09	12/10/2018	N	884857	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.10	-	-	87.0	-	-	145	-	-
YVD-18	YVD-031819-13	3/18/2019	N	988273	0.050	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	4.22	-	-	88.0	-	-	171	-	-
YVD-18	YVD-060319-23	6/3/2019	N	992053	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.09	-	-	86.0	-	-	161	-	-
YVD-18	YVD-090919-06	9/9/2019	N	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.08	-	-	76.5	-	-	130	-	-
YVD-18	YVD-090919-08	9/9/2019	FD	998357	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	-	4.09	-	-	77.0	-	-	130	-	-
YVD-18	YVD-120919-08	12/9/2019	N	902276	0.050	U		0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U		4.18			86.0	J	MSD	157		
YVD-18	YVD-033020-07	3/30/2020	N	006241	0.050	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.04	-	-	87.5	-	-	170	-	-
YVD-18	YVD-060920-19	6/9/2020	N	009269	0.050	U	--	5.0	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	3.98	--	--	89.0	--	--	155	--	--
YVD-18	YVD-092120-15	9/21/2020	N	013896	0.050	U	--	0.50	UJ	MSD	-	-	-	-	-	-	-	-	-	0.070	U	--	4.03	--	--	83.0	--	--	145	--	--
YVD-18	YVD-092120-17	9/21/2020	FD	013896	0.050	U	--	2.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.07	--	--	4.00	--	--	83.0	--	--	144	--	--

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
YVD-18	YVD-120820-15	12/8/2020	N	017137	0.050	U	--	0.5	U	--	-	-	-	-	-	-	-	-	-	0.070	U	--	4.11	--	--	88.0	--	--	164	--	--
YVD-18	YVD-030221-17	3/2/2021	N	120034	0.050	U	--	5.0	U	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.02	--	--	87.0	--	--	169	--	--
YVD-18	YVD-060821-30	6/8/2021	N	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	--	4.02	--	--	85.5	--	--	161	--	--
Equipment Blank	YVD-EB-130918	09/18/2013	EB	SWI0123	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-130925	09/25/2013	EB	SWI0175	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-131212	12/12/2013	EB	SWL0078	0.2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.06	U	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-140317	03/17/2014	EB	SXC0081	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-140318	03/18/2014	EB	SXC0095	0.2	U	-	0.25	U	-	-	-	-	0.05	-	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-140319	03/19/2014	EB	SXC0107	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-140604	06/04/2014	EB	SXF0025	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	1.24	-	-
Equipment Blank	YVD-EB-140924	09/24/2014	EB	SXI0173	0.2	U	-	1.2	-	-	-	-	-	0.062	-	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-141217	12/17/2014	EB	SXL0144	0.2	U	-	0.25	U	-	-	-	-	0.1	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-150617	06/17/2015	EB	59011021	0.2	U	-	0.37	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-150925	09/25/2015	EB	59020431	0.2	U	-	0.38	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-151216	12/16/2015	EB	59025501	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-160310	03/10/2016	EB	59029941	0.2	U	-	1.9	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	1.1	-	-	0.5	U	-
Equipment Blank	YVD-EB-160623	6/23/2016	EB	59037371	0.2	U	-	0.43	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Equipment Blank	YVD-EB-160926	9/26/2016	EB	K1611506	0.10	U	-	-	R	MSD	-	-	-	0.01	U	-	-	-	-	-	-	-	0.1	J	-	0.13	J	-	0.2	U	-
Equipment Blank	YVD-EB-160927	9/27/2016	EB	K1611629	0.05	UJ	HTQ	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.2	U	-	0.04	J	-	0.08	J	-
Equipment Blank	YVD-EB-160928	9/28/2016	EB	K1611629	0.05	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.2	U	-	0.04	J	-	0.51	-	-
Equipment Blank	YVD-EB1-161214	12/14/2016	EB	K1615083	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.2	U	-
Equipment Blank	YVD-EB2-161215	12/15/2016	EB	K1615126	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	MBK	0.2	U	-
Equipment Blank	YVD-EB3-161216	12/16/2016	EB	K1615174	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	MBK	0.4	-	-
Field Blank	YVD-F1-130916	09/16/2013	FB	SWI0113	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.53	-	-
Field Blank	YVD-F2-130917	09/17/2013	FB	SWI0113	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.51	-	-
Field Blank	YVD-F3-130918	09/18/2013	FB	SWI0123	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-130918	09/18/2013	FB	SWI0138	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F5-130919	09/19/2013	FB	SWI0142	-	-	-	0.373	-	-	-	-	-	-	-	-	0.243	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F6-130923	09/23/2013	FB	SWI0178	-	-	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	-	-	-
Field Blank	YVD-F7-130924	09/24/2013	FB	SWI0175	0.2	U	-	0.25	U	-	-	-	-	-	-	-	0.1	U	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F7-130926	09/26/2013	FB	SWI0190	0.2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	U	-
Field Blank	YVD-F1-131209	12/09/2013	FB	SWL0055	0.2	U	-	0.33	-	-	-	-	-	-	-	-	-	-	-	0.06	U	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-131210	12/10/2013	FB	SWL0063	0.2	U	-	3.7	-	-	-	-	-	-	-	-	-	-	-	0.06	U	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-131211	12/11/2013	FB	SWL0073	0.2	U	-	0.43	-	-	-	-	-	-	-	-	-	-	-	0.06	U	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-131212	12/12/2013	FB	SWL0078	0.2	U	-	0.2	U	-	-	-	-	-	-	-	-	-	-	0.06	U	-	1	U	-	0.5	U	-	0.5	U	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Field Blank	YVD-F1-140316	03/16/2014	FB	SXC0081	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-140317	03/17/2014	FB	SXC0095	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-140318	03/18/2014	FB	SXC0107	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-140319	03/19/2014	FB	SXC0107	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-140601	06/01/2014	FB	SXF0008	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-140602	06/02/2014	FB	SXF0017	0.2	U	-	0.25	U	-	-	-	-	0.061	-	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-140603	06/03/2014	FB	SXF0025	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-140921	09/21/2014	FB	SXI0148	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-140922	09/22/2014	FB	SXI0148	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-140923	09/23/2014	FB	SXI0158	0.2	U	-	0.25	U	-	-	-	-	0.05	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-140924	09/24/2014	FB	SXI0173	0.2	U	-	0.25	U	-	-	-	-	0.054	-	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-141215	12/15/2014	FB	SXL0103	0.2	U	-	0.25	U	-	-	-	-	0.1	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	UJ	DUP
Field Blank	YVD-F2-141215	12/15/2014	FB	SXL0108	0.2	U	-	0.25	U	-	-	-	-	0.1	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-141216	12/16/2014	FB	SXL0121	0.2	U	-	0.25	U	-	-	-	-	0.1	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-141217	12/17/2014	FB	SXL0144	-	R	HTQ	0.25	U	-	-	-	-	0.1	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-150315	03/15/2015	FB	5904471	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-150316	03/16/2015	FB	5904541	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-150317	03/17/2015	FB	5904651	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-150615	06/15/2015	FB	59010751	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-150616	06/16/2015	FB	59010961	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-150617	06/17/2015	FB	59011021	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-150922	09/22/2015	FB	59020141	0.2	U	-	0.26	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-150923	09/23/2015	FB	59020281	0.2	U	-	0.25	U	-	-	-	-	0.26	-	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-150923	09/23/2015	FB	59020391	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-150924	09/24/2015	FB	59020391	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F5-150925	09/25/2015	FB	59020431	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-151213	12/13/2015	FB	59025351	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-151214	12/14/2015	FB	59025431	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-151215	12/15/2015	FB	59025501	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-151216	12/16/2015	FB	59025501	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-160307	03/07/2016	FB	59029521	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-160308	03/08/2016	FB	59029711	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-160309	03/09/2016	FB	59029941	0.2	U	-	0.3	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-160310	03/10/2016	FB	59029941	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F1-160620	6/20/2016	FB	59037101	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F2-160621	6/21/2016	FB	59037151	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F3-160622	6/22/2016	FB	59037271	0.2	U	-	0.36	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-F4-160623	6/23/2016	FB	59037371	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Field Blank	YVD-FB-160926	9/26/2016	FB	K1611506	0.10	U	-	-	R	MSD	-	-	-	0.01	U	-	-	-	-	-	-	-	0.08	J	-	0.03	J	-	0.2	U	-
Field Blank	YVD-FB-160927	9/27/2016	FB	K1611565	0.10	U	-	-	R	MSD	-	-	-	0.01	U	-	-	-	-	-	-	-	0.2	U	-	0.2	U	-	0.2	U	-
Field Blank	YVD-FB-160928	9/28/2016	FB	K1611629	0.05	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.2	U	-	0.05	J	-	3.61	-	-
Field Blank	YVD-FB-160929	9/29/2016	FB	K1611698	0.10	U	-</																								

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Field Blank	YVD-030817-11	3/8/2017	FB	K1702324	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.03	J	-
Field Blank	YVD-030917-17	3/9/2017	FB	K1702404	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.2	U	-
Field Blank	YVD-031017-26	3/10/2017	FB	K1702448	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.26	-	-
Field Blank	YVD-031317-30	3/13/2017	FB	K1702489	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.2	U	-
Field Blank	YVD-060417-01	6/4/2017	FB	K1705702	21	U	-	0.7	-	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.021	U	-	0.11	J	-	5.3	U	-
Field Blank	YVD-060517-07	6/5/2017	FB	K1705702	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.06	J	-	0.11	J	-	0.25	-	-
Field Blank	YVD-060617-17	6/6/2017	FB	K1705754	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.2	U	-
Field Blank	YVD-060717-28	6/7/2017	FB	K1705833	0.10	U	-	0.5	U	-	-	-	-	0.01	U	-	-	-	-	-	-	-	0.21	U	-	0.02	J	-	0.2	U	-
Field Blank	YVD-092517-01	9/25/2017	FB	K1710274	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	0.21	U	MBK	0.21	U	MBK	0.20	U	-
Field Blank	YVD-092617-16	9/26/2017	FB	K17110333	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	0.09	J	-	0.21	U	MBK	0.86	-	-
Field Blank	YVD-120417-01	12/4/2017	FB	K1713026	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	-	0.20	U	-
Field Blank	YVD-120517-32	12/5/2017	FB	K1713091	0.10	UJ	HTQ	0.5	UJ	MSD	-	-	-	0.010	U	-	-	-	-	-	-	-	0.21	U	-	0.07	J	-	0.71	-	-
Field Blank	YVD-120617-25	12/6/2017	FB	K1713157	0.10	U	-	0.5	U	-	-	-	-	0.010	U	-	-	-	-	-	-	-	0.21	U	-	0.21	U	MBK	0.20	U	-
Field Blank	YVD-031818-01	3/18/2018	FB	870610	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-031918-10	3/19/2018	FB	870634	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-060318-01	6/3/2018	FB	874568	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-060418-12	6/4/2018	FB	874568	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-060518-26	6/5/2018	FB	874860	0.05	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-061218-33	6/12/2018	FB	875438	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-090918-01	9/9/2018	FB	880601	0.05	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-121018-01	12/10/2018	FB	884857	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-121118-12	12/11/2018	FB	884939	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-031719-01	3/17/2019	FB	988239	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-031819-11	3/18/2019	FB	988273	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-032019-20	3/20/2019	FB	988477	0.05	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-060219-01	6/2/2019	FB	991939	0.05	U	-	-	R	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.46	-	-
Field Blank	YVD-060319-13	6/3/2019	FB	992053	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.34	-	-
Field Blank	YVD-060419-26	6/4/2019	FB	992242	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.13	-	-
Field Blank	YVD-090919-01	9/9/2019	FB	998357	0.05	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-090919-03	9/9/2019	FB	998357	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-091019-15	9/10/2019	FB	998438	0.05	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-091019-17	9/10/2019	FB	998438	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-120919-01	12/9/2019	FB	902276	0.05	U	-	0.5	UJ	MSD	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-120919-09	12/9/2019	FB	902276	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-121019-16	12/10/2019	FB	902321	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-121019-18	12/10/2019	FB	902321	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-033020-01	3/30/2020	FB	006241	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-033020-03	3/30/2020	FB	006241	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-033120-13	3/31/2020	FB	006260	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-033120-15	3/31/2020	FB	006260	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-060820-01	6/8/2020	FB	009144	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-060820-02	6/8/2020	FB	009144	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-060920-11	6/9/2020	FB	009269	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-060920-13	6/9/2020	FB	009269	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-061020-29	6/10/2020	FB	009361	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-061020-28	6/10/2020	FB	009361	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-092020-01	9/20/2020	FB	013864	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-092020-02	9/20/2020	FB	013864	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-092120-10	9/21/2020	FB	013896	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-

Table 8
Historical Groundwater Analytical Results

Analyte					Nitrite (as N)			Total Kjeldahl Nitrogen			Phosphorus			Phosphorus			Phosphorus			Phosphorus			Potassium			Sodium			Sulfate		
Analytical Method					EPA 300.0			EPA 351.2			EPA 365.1			EPA 365.3			EPA 365.4			SM 4500 P-E			EPA 200.7			EPA 200.7			EPA 300.0		
Well ID	Sample Name	Sample Date	Sample Type	Sample Group	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code	Result (mg/L)	Qualifier	Validation Code
Field Blank	YVD-092120-12	9/21/2020	FB	013896	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-120720-01	12/7/2020	FB	017035	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-120720-03	12/7/2020	FB	017035	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-120820-16	12/8/2020	FB	017137	0.05	U	-	0.5	U	-	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-120820-18	12/8/2020	FB	017137	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-030121-01	3/1/2021	FB	119931	0.05	U	-	1.1	J	MS	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-030121-03	3/1/2021	FB	119931	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-030221-11	3/2/2021	FB	120034	0.05	U	-	0.8	J	MS	-	-	-	-	-	-	-	-	-	0.07	U	-	0.62	U	-	0.7	U	-	0.1	U	-
Field Blank	YVD-030221-13	3/2/2021	FB	120034	NS	-	-	NS	-	-	-	-	-	-	-	-	-	-	-	NS	-	-	NS	-	-	NS	-	-	NS	-	-
Field Blank	YVD-060621-01	6/6/2021	FB	124053	0.050	U	-	0.50	U	-	-	-	-	-	-	-	-	-	-	0.070	U	-	0.62	U	-	0.70	U	-	0.10	U	-
Field Blank	YVD-060621-02	6/6/2021	FB	124053	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Blank	YVD-060721-11	6/7/2021	FB	124105	0.050	U	--	0.8	J	MS,RPD	-	-	-	-	-	-	-	-	-	0.070	U	-	0.62	U	-	0.70	U	-	0.10	U	-
Field Blank	YVD-060721-12	6/7/2021	FB	124105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Field Blank	YVD-060821-20	6/8/2021	FB	124212	0.050	U	--	0.50	UJ	MS	-	-	-	-	-	-	-	-	-	0.070	U	-	0.62	U	-	0.70	U	-	0.10	U	-
Field Blank	YVD-060821-21	6/8/2021	FB	124212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blank Check	WW-1	4/25/2016	BC	59032861	40	U	-	1.4	-	-	-	-	-	0.25	U	-	-	-	-	-	-	-	190	-	-	400	-	-	100	U	-
Blank Check	DW-1	4/25/2016	BC	59032861	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-
Blank Check	DI-1	4/25/2016	BC	59032861	0.2	U	-	0.25	U	-	-	-	-	0.25	U	-	-	-	-	-	-	-	1	U	-	0.5	U	-	0.5	U	-

Table 8
Historical Groundwater Analytical Results

Notes:

Bold: detected result

- : not applicable

(as N): reported as nitrogen

(as CaCO3): reported as calcium carbonate

BC: blank check

DUP: Laboratory duplicate relative percent difference was outside acceptance limits.

EB: equipment blank

EPA: U.S. Environmental Protection Agency

ERL: elevated reporting limit

FB: field blank

FBK: field blank contamination

FD: field duplicate

FDP: Field duplicate relative percent difference exceeded acceptance limits.

HTQ: holding time violation

J: The compound was positively identified; however, the associated numerical value is an estimated concentration.

J-: The result is an estimated quantity, but the result may be biased low.

J+: The result is an estimated quantity, but the result may be biased high.

MBK: method blank contamination

mg/L: milligrams per liter

MSD: The matrix spike/matrix spike duplicate percent recoveries were outside acceptance limits.

N: normal sample

NR: Sample did not meet collection criteria; not a representative sample.

NS: Not sampled

PRS: Incorrect sample preservation.

R: The sample results are rejected as unusable. The compound may or may not be present in the sample.

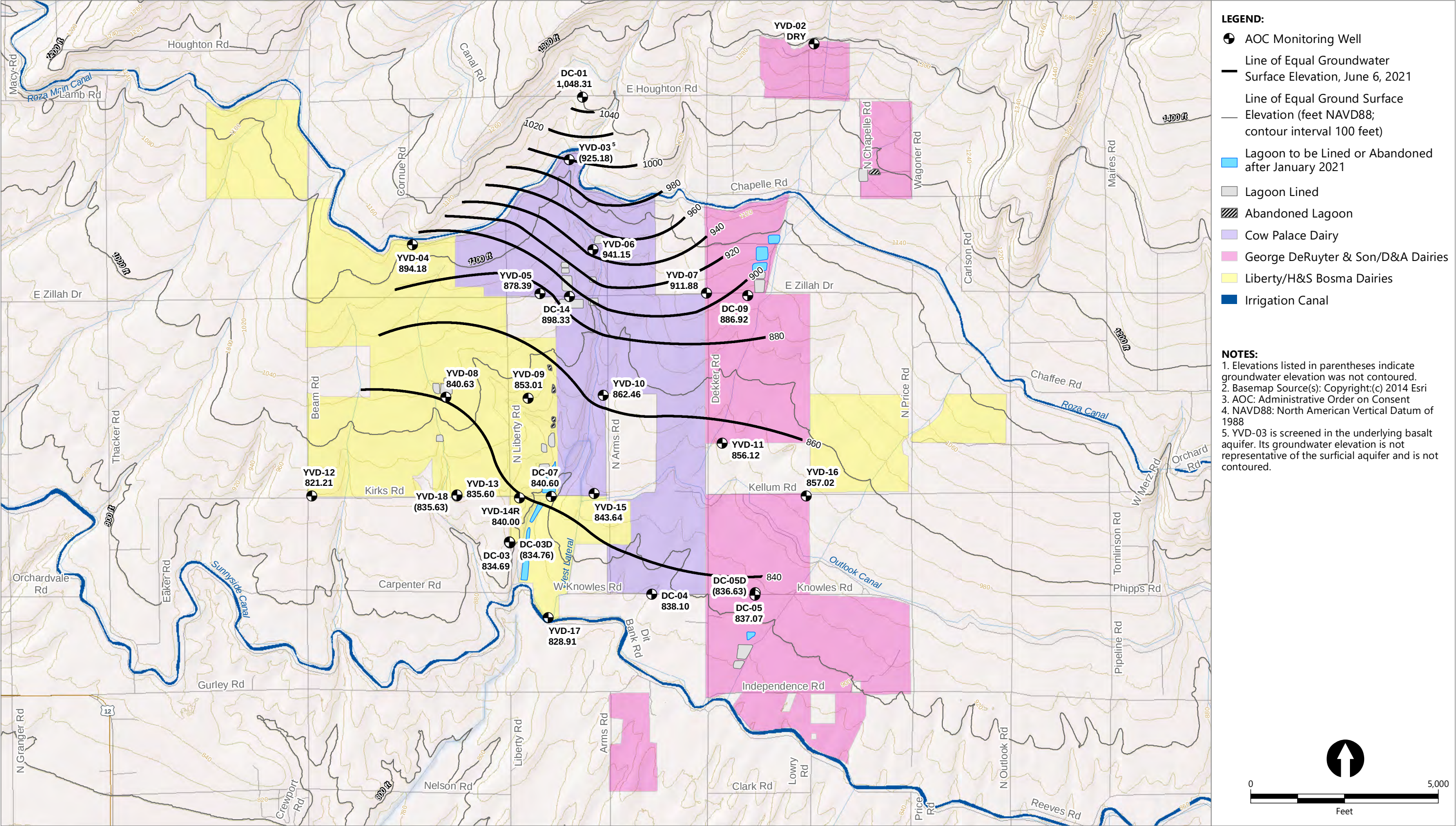
RPD: Relative percent difference was outside acceptance limits.

SM: Standard Method

U: The compound was analyzed for but not detected. The associated value is the compound reporting limit, or the compound is considered non-detect at the listed value due to associated blank contamination.

UJ: The compound was not detected above the reported sample reporting limit; however, the reporting limit is approximate and may or may not represent the actual limit of quantitation.

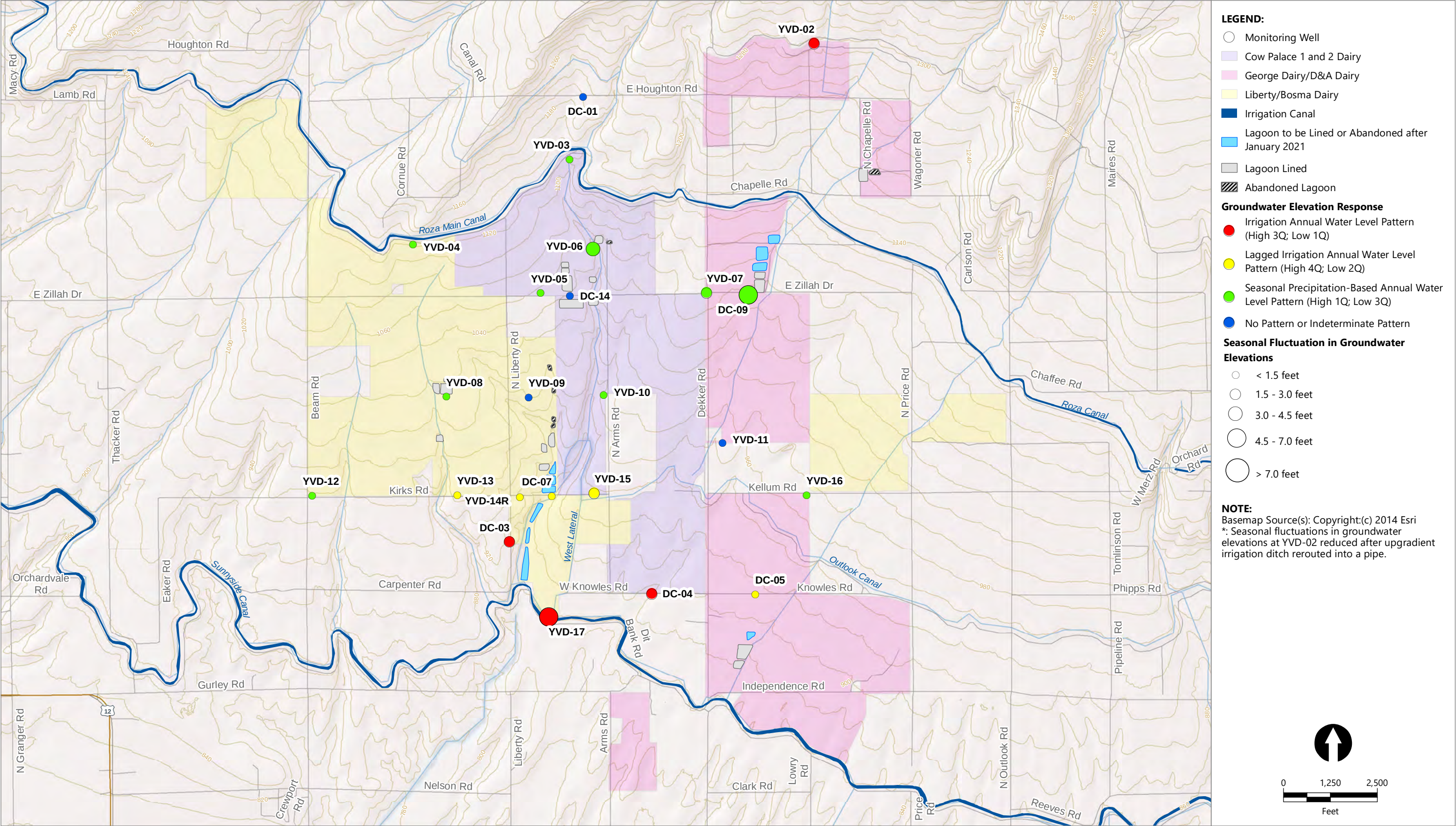
Figures



Publish Date: 2021/08/04, 3:39 PM | User: joliver
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2021\Q2\AQ_YVD_Fig01_Surficial_Aquifer_GW_Contours_2Q2021.mxd



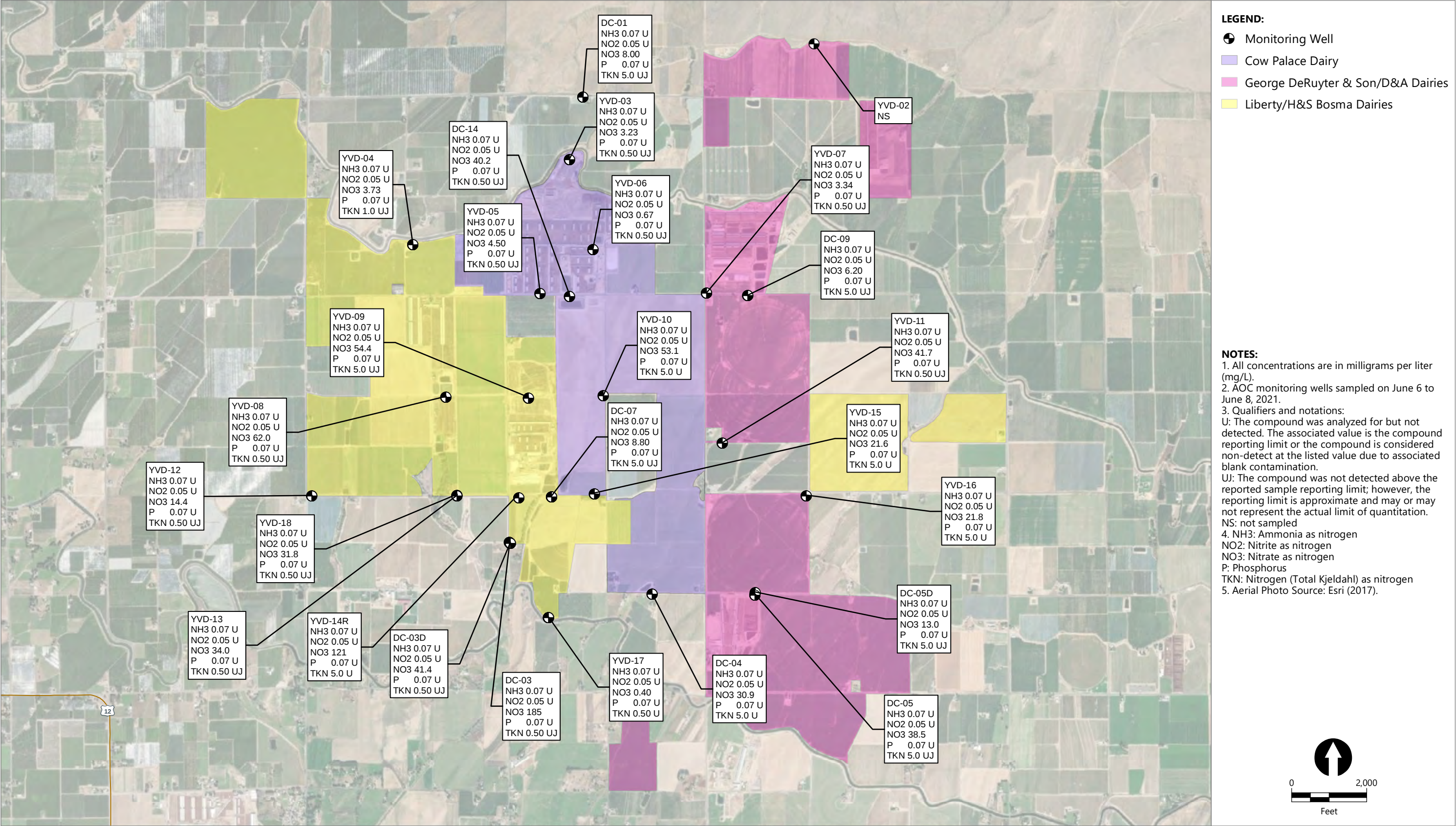
Figure 1
Surficial Aquifer Groundwater Elevation Contour Map Second Quarter 2021
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/08/02, 4:47 PM | User: alesueur
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig02_Seasonal_GW_ElevPatterns_2Q2021.mxd



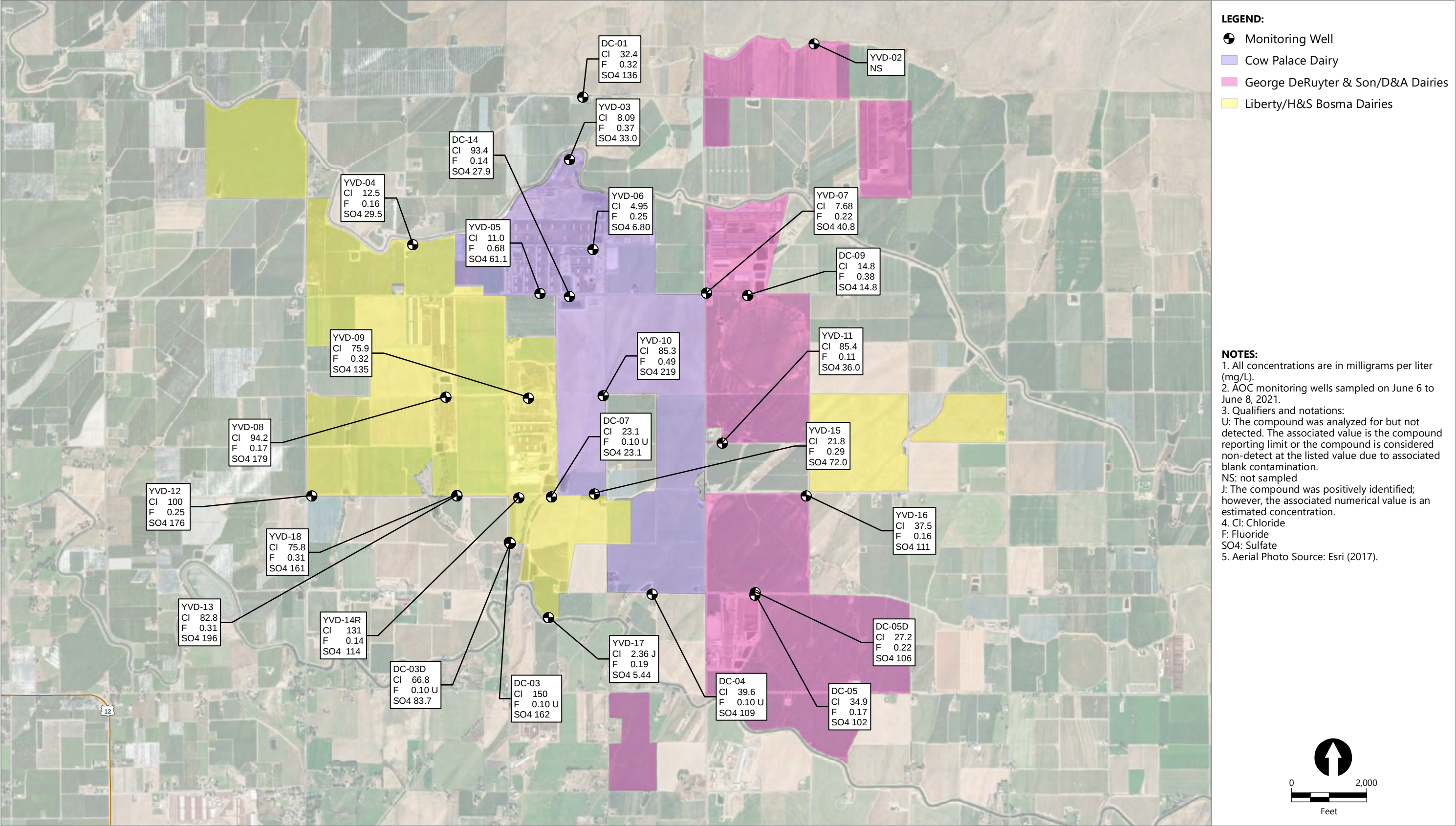
Figure 2
Seasonal Groundwater Elevation Patterns
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/07/15, 9:56 AM | User: alesueur
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig03_NutrientConc_2Q2021.mxd



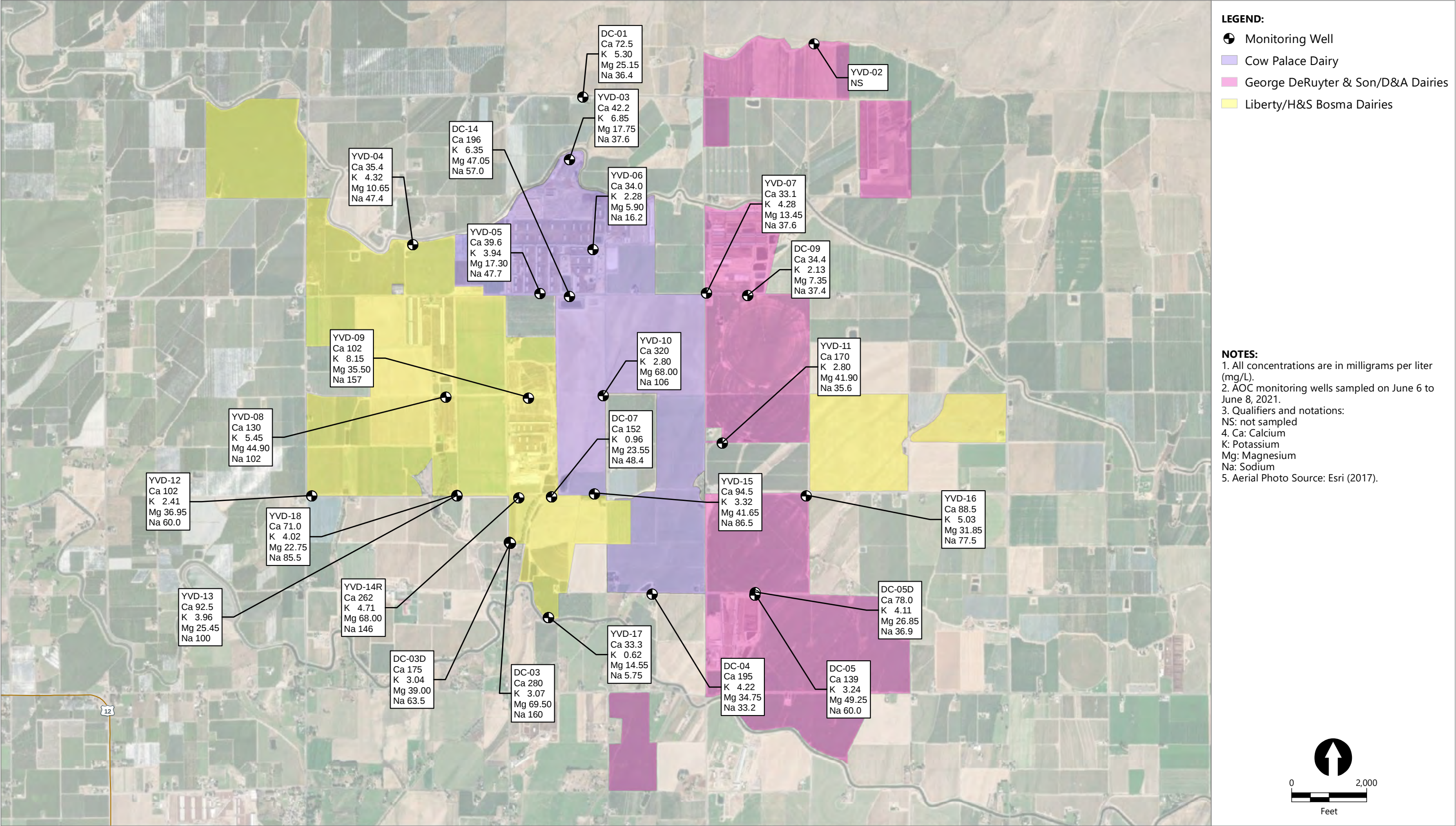
Figure 3
Nutrient Concentrations in Groundwater Second Quarter 2021
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/07/15, 9:58 AM | User: alesueur
Filepath: \\orcac\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig04_AnionConc_2Q2021.mxd



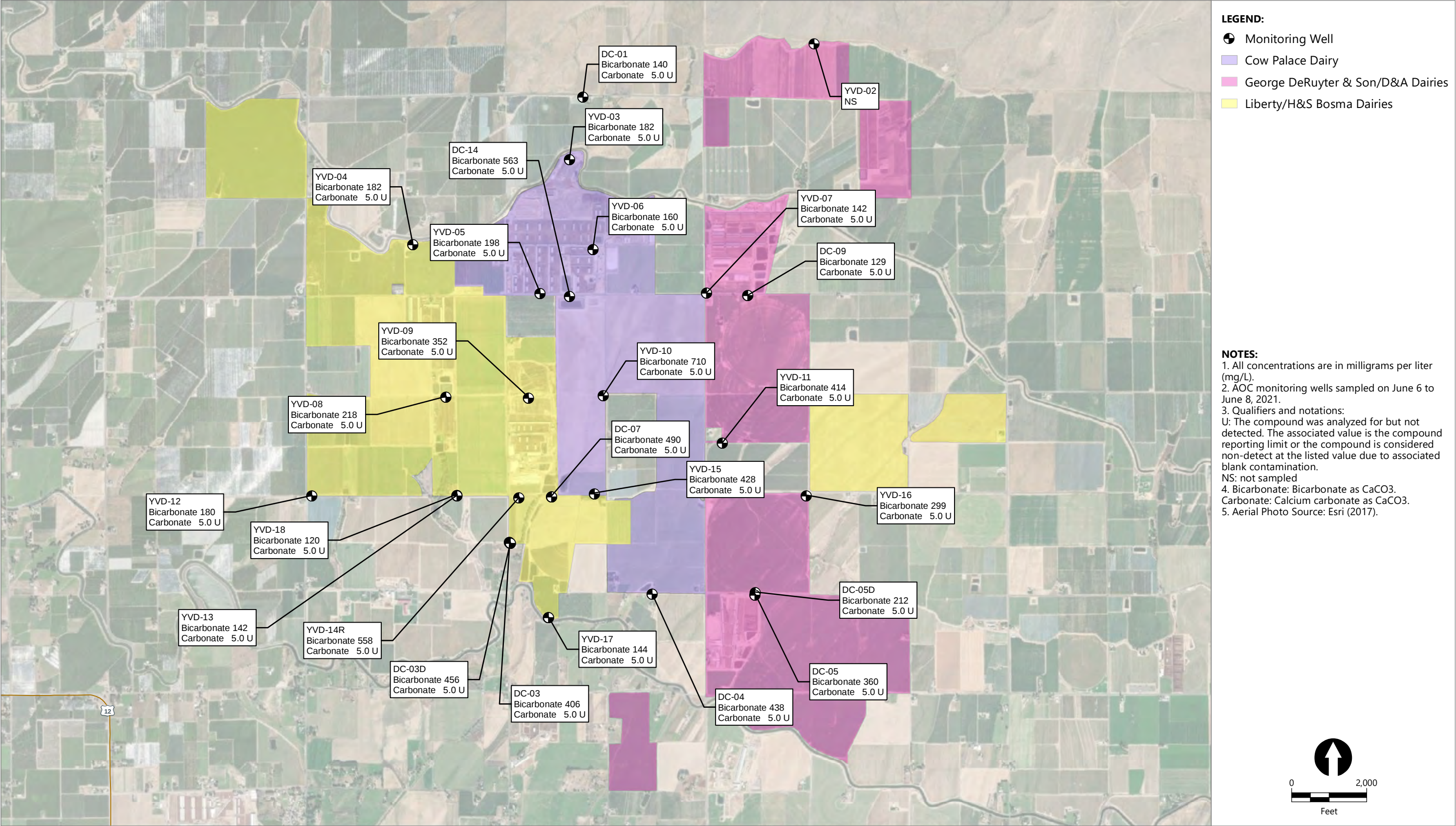
Figure 4
Anion Concentrations in Groundwater Second Quarter 2021
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/07/15, 10:01 AM | User: alesueur
Filepath: \\orcac\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig05_MetalsConc_2Q2021.mxd



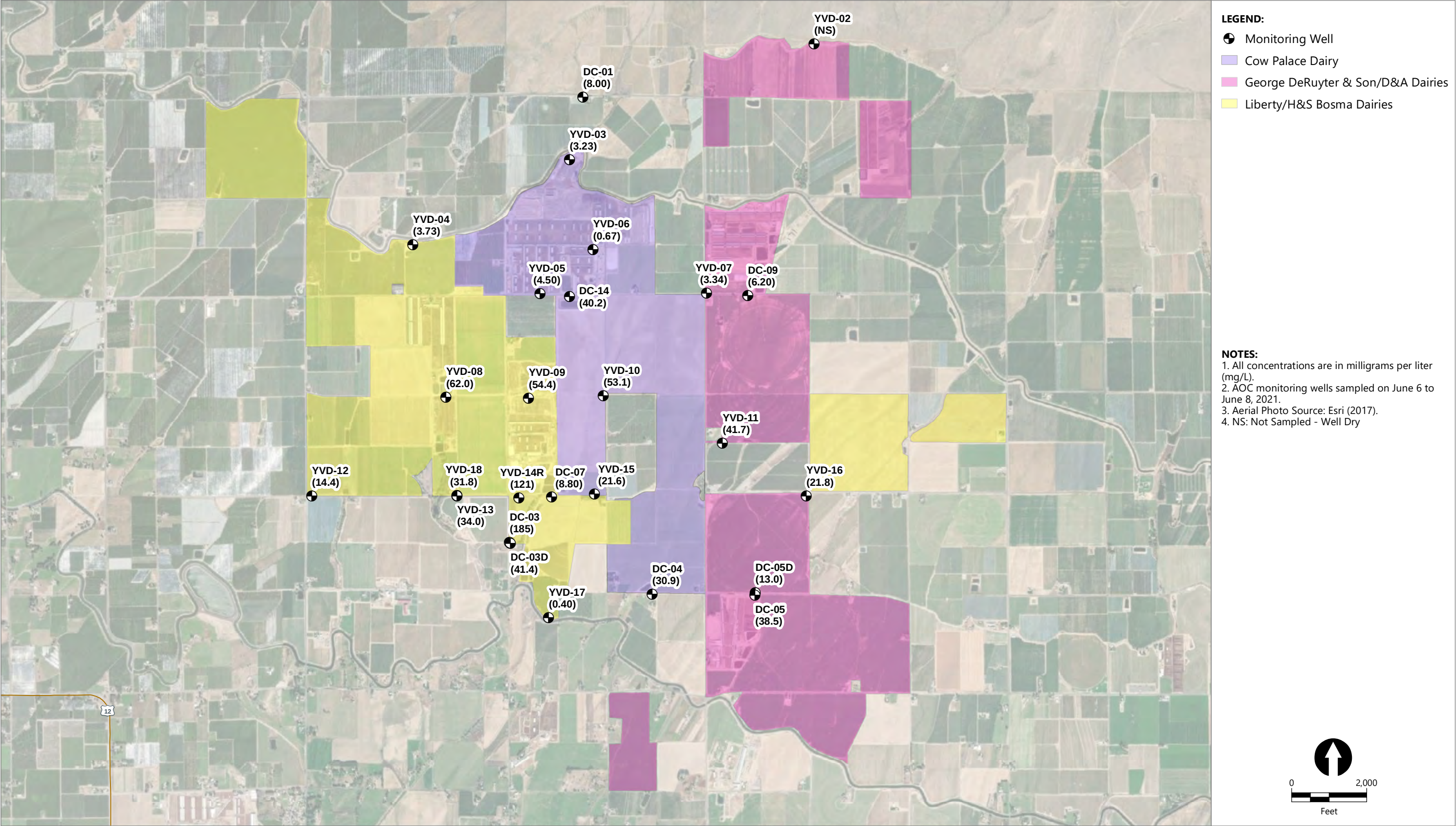
Figure 5
Metals Concentrations in Groundwater Second Quarter 2021
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/07/15, 10:06 AM | User: alesueur
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig06_AlkalinityConc_2Q2021.mxd



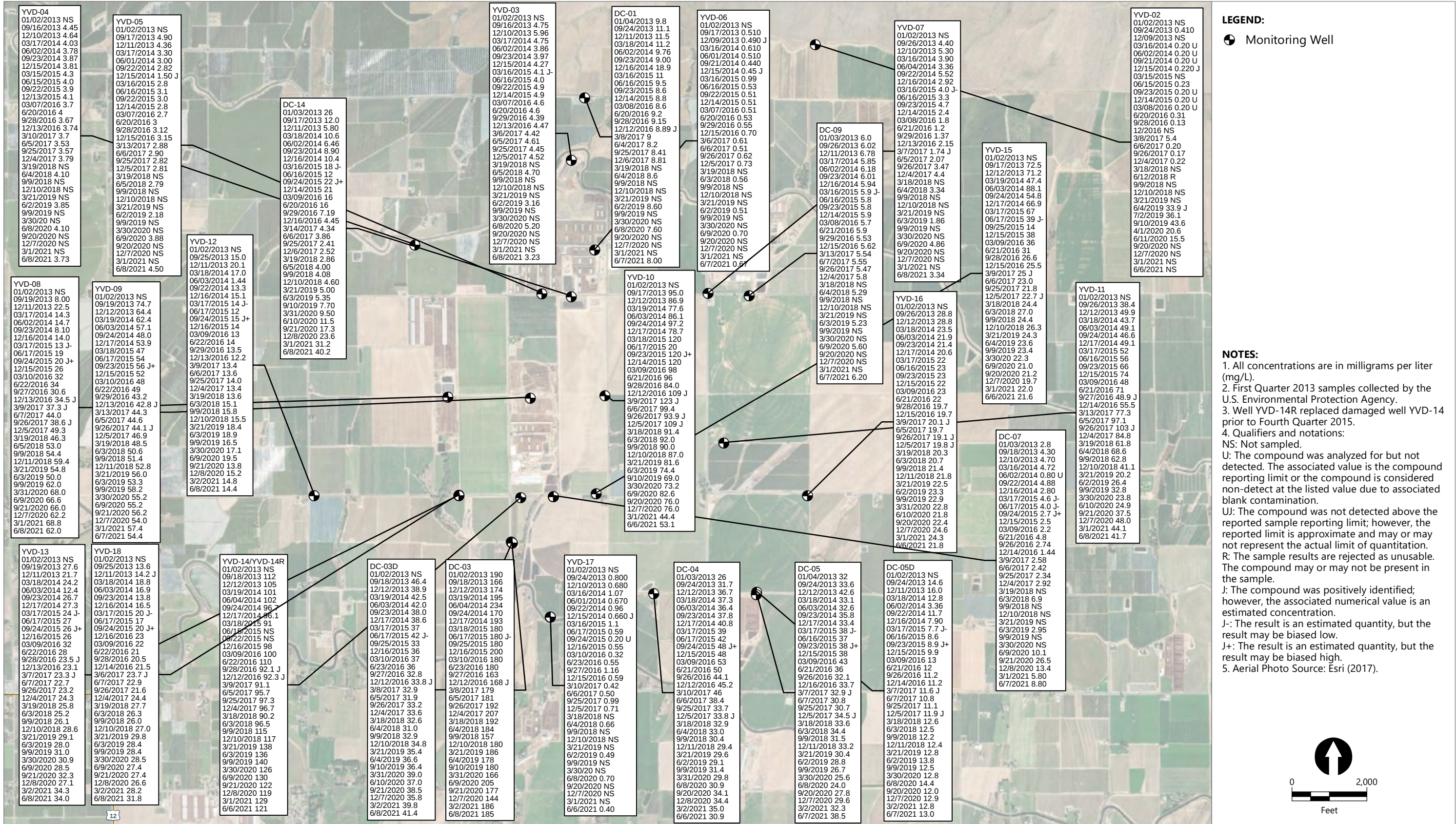
Figure 6
Alkalinity Concentrations in Groundwater Second Quarter 2021
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/07/21, 4:09 PM | User: alesueur
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig07A_Nitrate_2Q2021.mxd



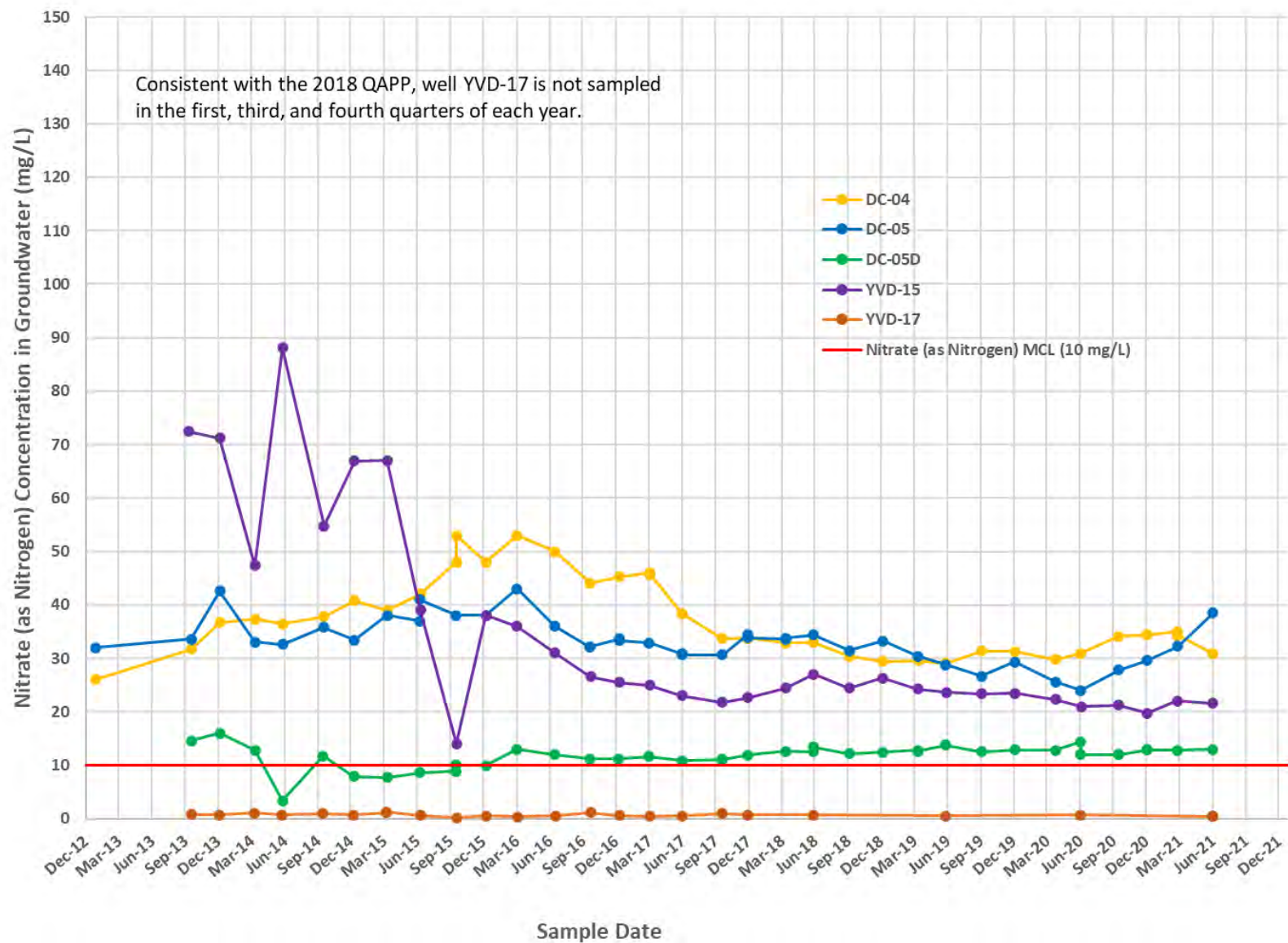
Figure 7A
Nitrate Concentrations in Groundwater Second Quarter 2021
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Publish Date: 2021/07/15, 10:19 AM | User: alesueur
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig07B_HistoricalNitrate_2Q2021.mxd



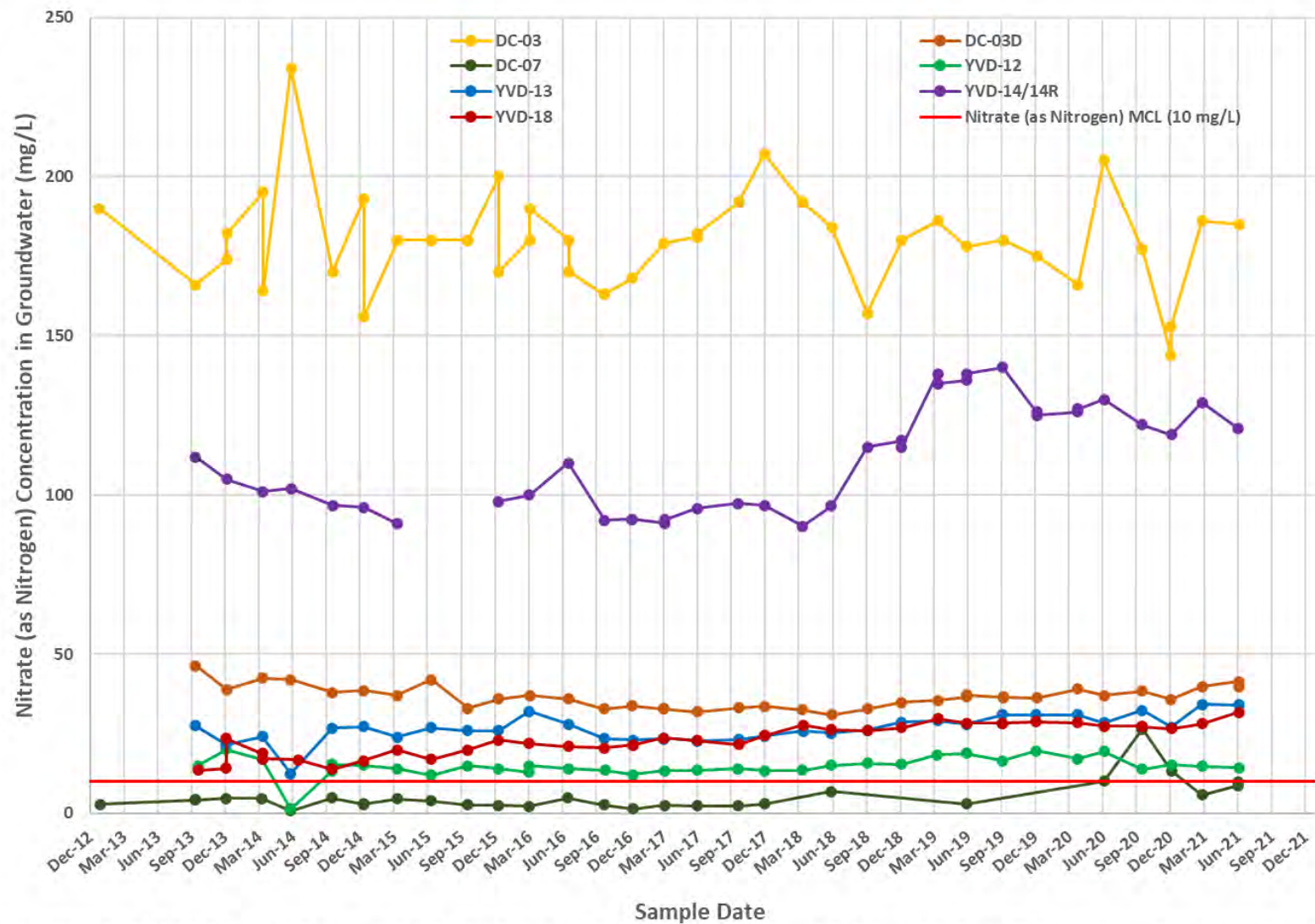
Figure 7B
Historical Nitrate Concentrations in Groundwater
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



Filepath: \\fuj\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 8.docx



Figure 8
Nitrate Concentrations – East Downgradient Wells
 Groundwater Monitoring Data Report – Second Quarter 2021
 Yakima Valley Dairies

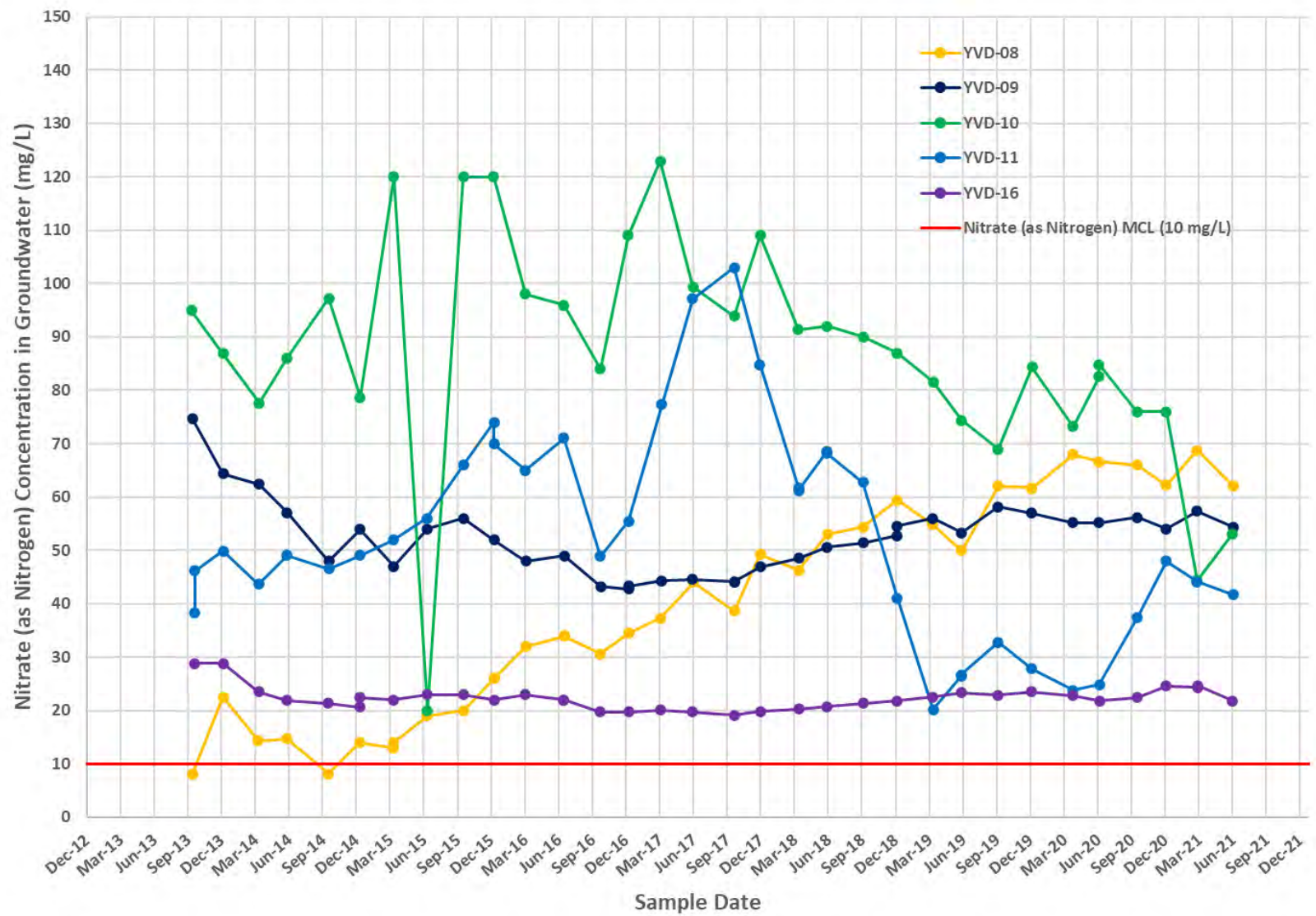


Note: In December 2015, YVD-14R was installed approximately 20 feet to the west of YVD-14, which was decommissioned. Beginning in Third Quarter 2020, quarterly sampling was resumed at well DC-07 due to elevated nitrate concentrations detected in Second Quarter 2020.

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 9.docx



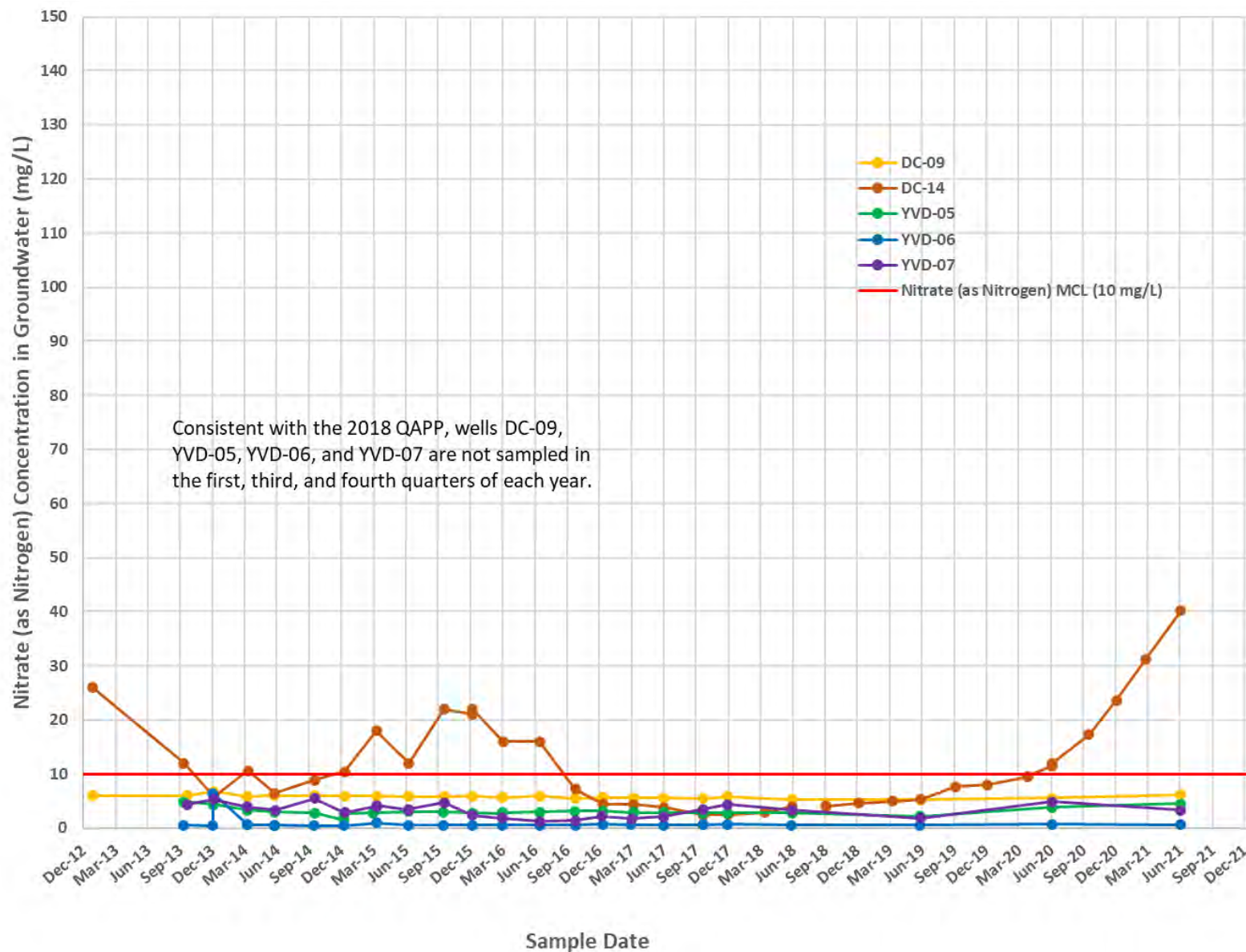
Figure 9
Nitrate Concentrations – West Downgradient Wells
 Groundwater Monitoring Data Report – Second Quarter 2021
 Yakima Valley Dairies



Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 10.docx



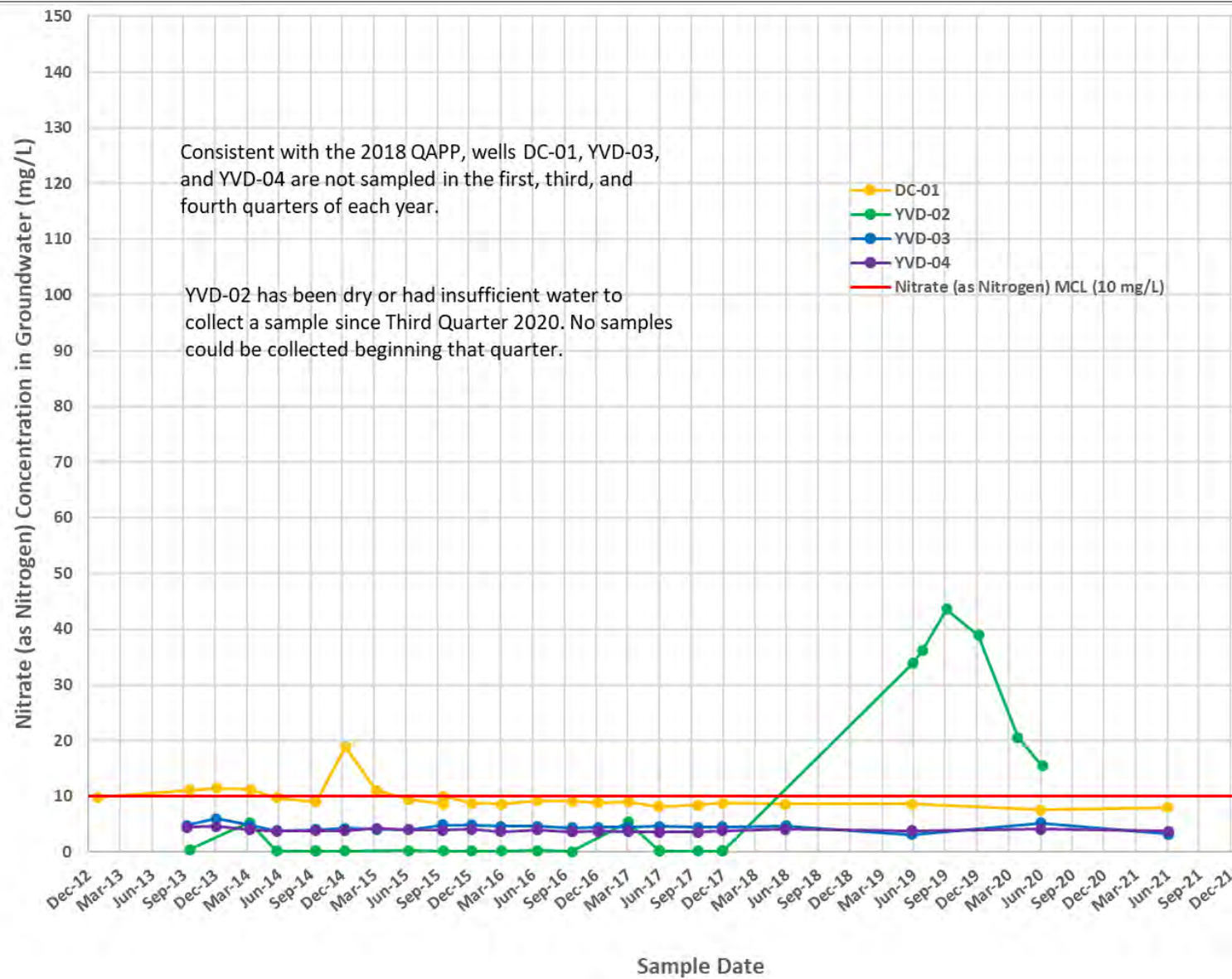
Figure 10
Nitrate Concentrations – Central Downgradient Wells
 Groundwater Monitoring Data Report – Second Quarter 2021
 Yakima Valley Dairies



Filepath: \\fuj\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 11.docx



Figure 11
Nitrate Concentrations – Northern Downgradient Wells
 Groundwater Monitoring Data Report – Second Quarter 2021
 Yakima Valley Dairies

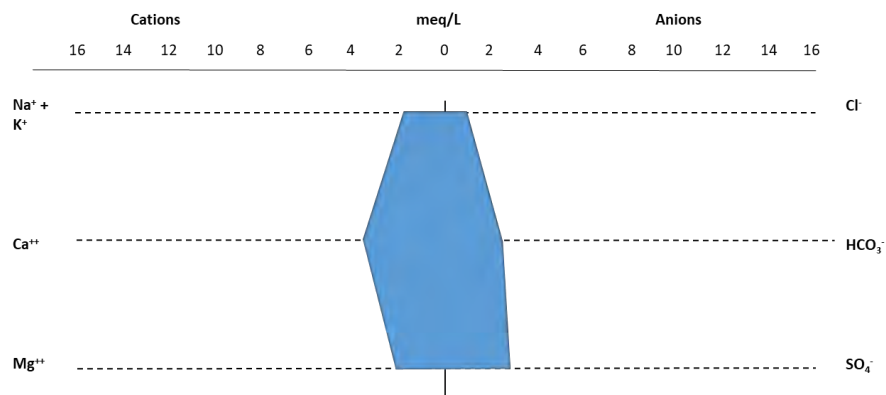


Filepath: \\fuj\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 12.docx

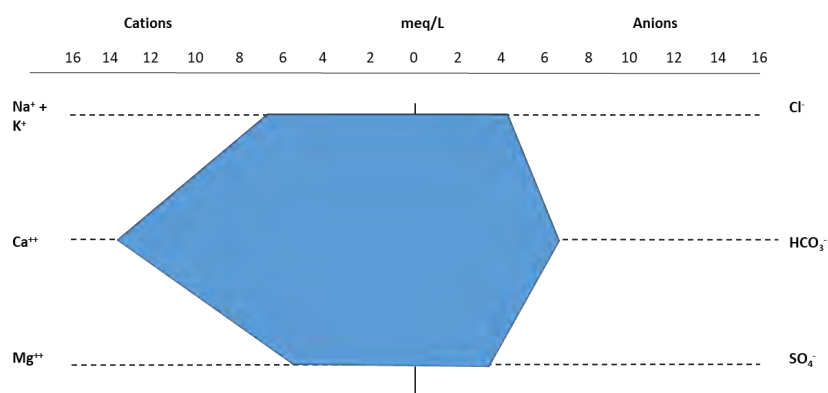


Figure 12
Nitrate Concentrations – Upgradient Wells
 Groundwater Monitoring Data Report – Second Quarter 2021
 Yakima Valley Dairies

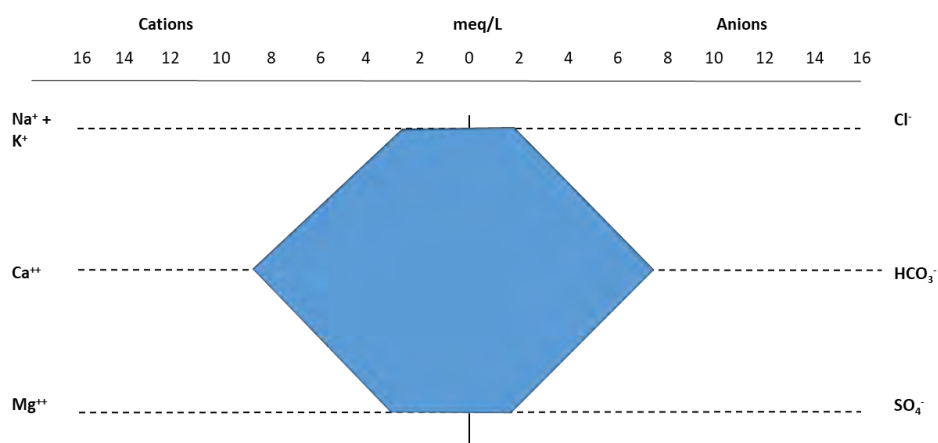
DC-01



DC-03



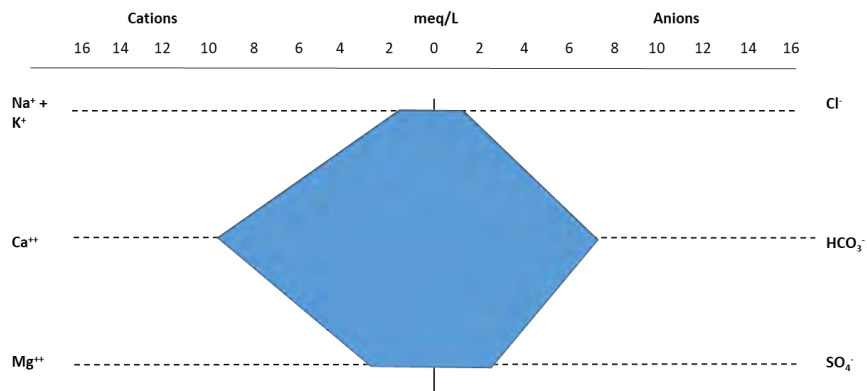
DC-03D



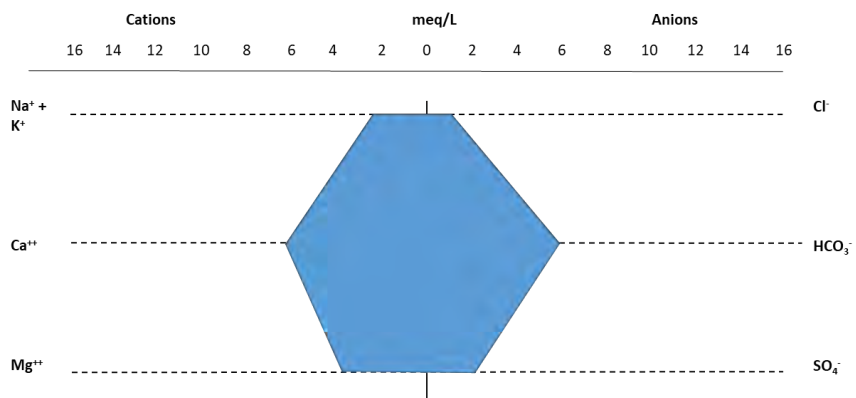
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13A.docx

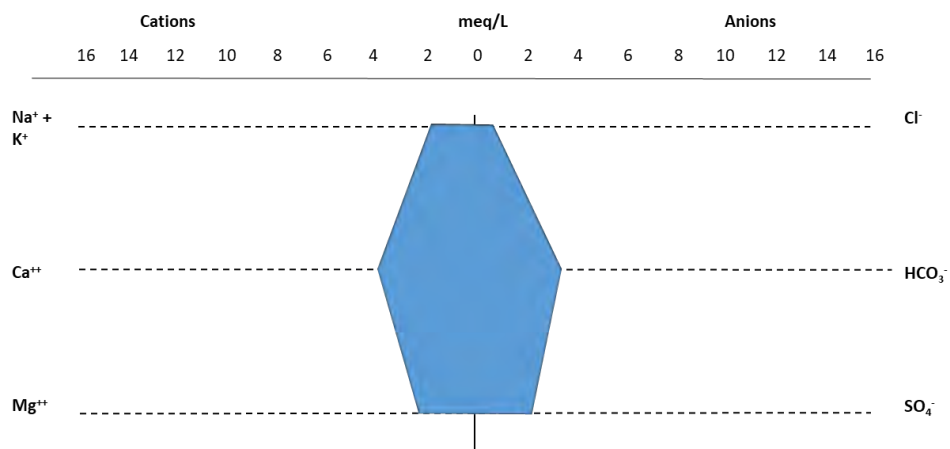
DC-04



DC-05



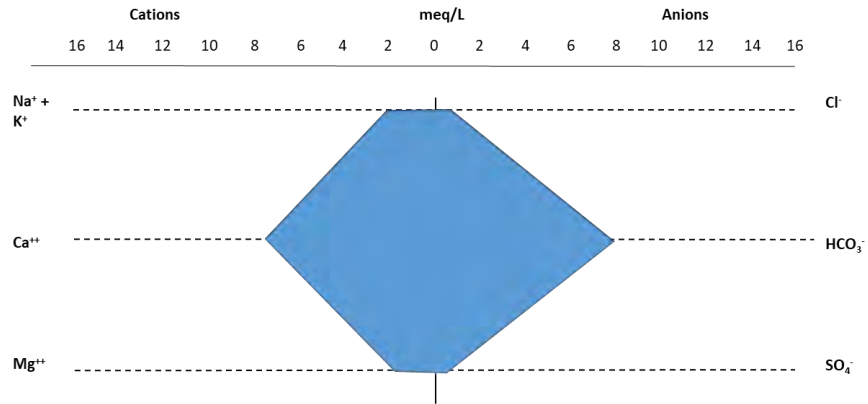
DC-5D



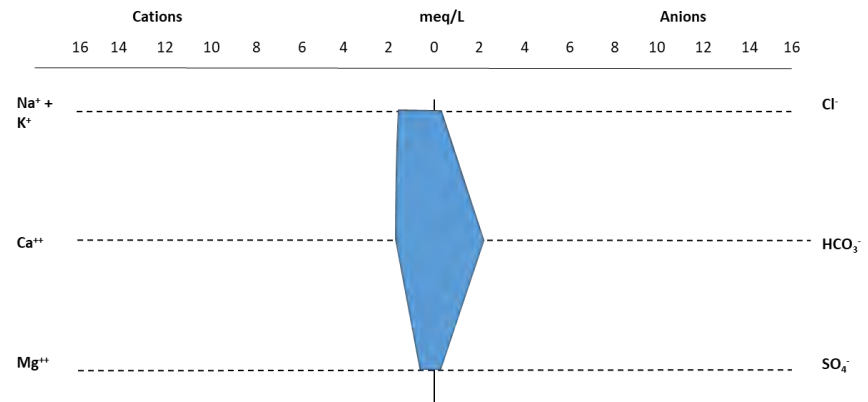
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13B.docx

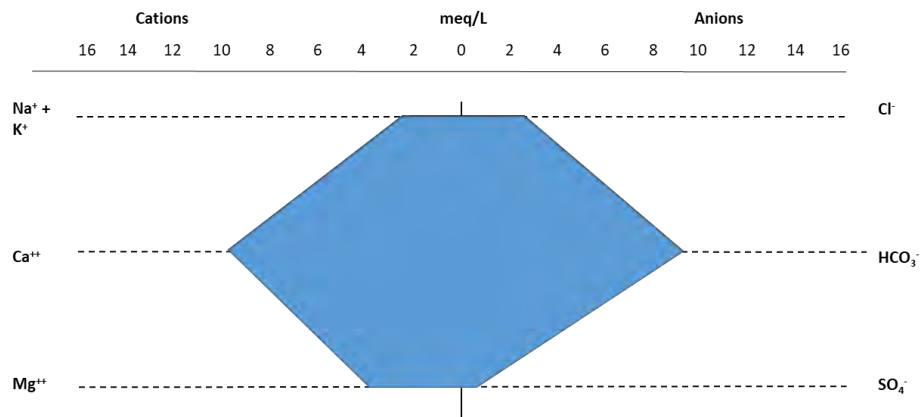
DC-07



DC-09



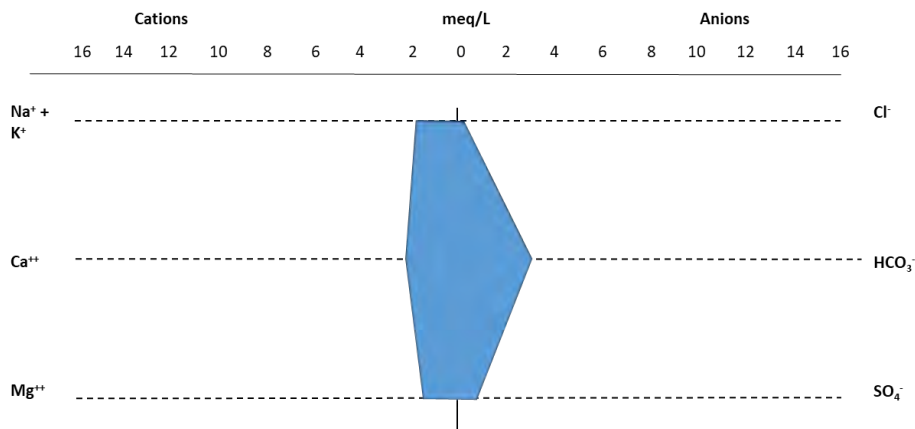
DC-14



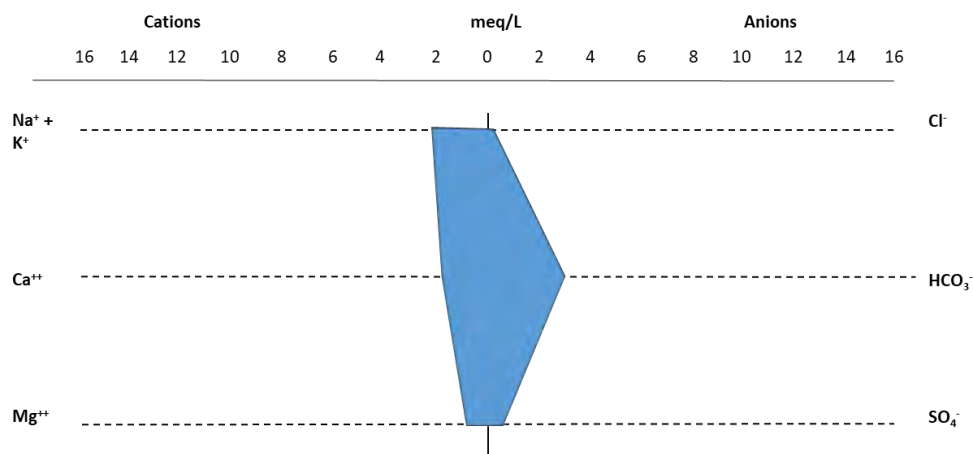
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13C.docx

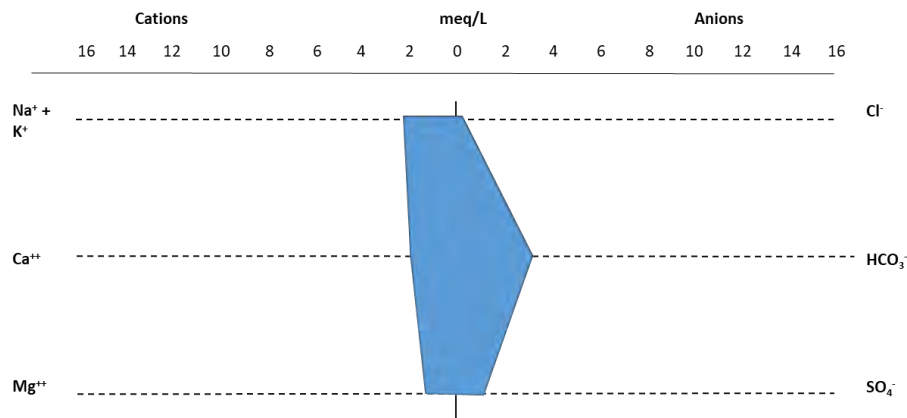
YVD-03



YVD-04



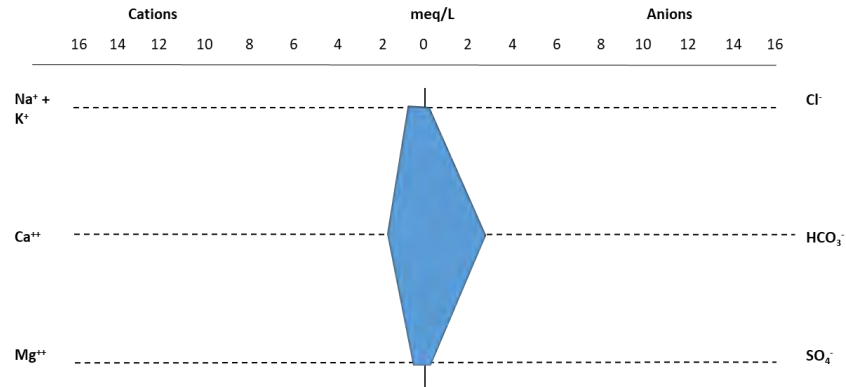
YVD-05



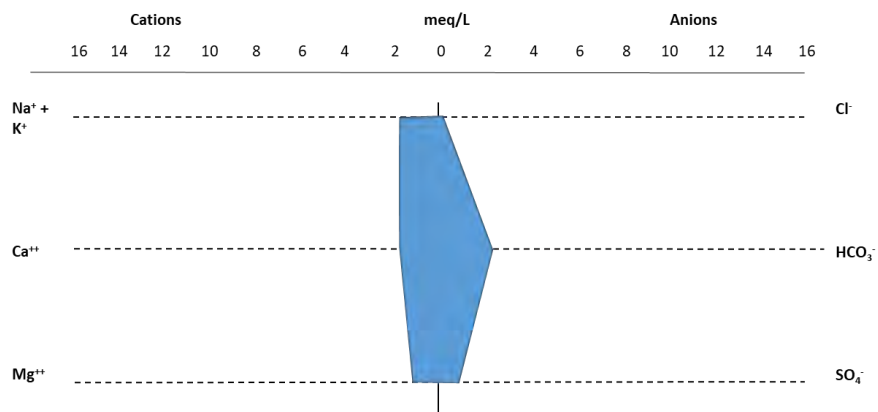
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13D.docx

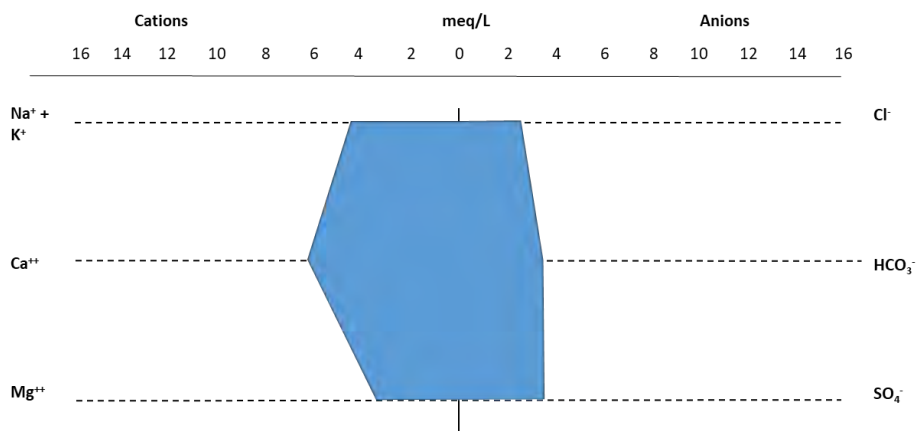
YVD-06



YVD-07



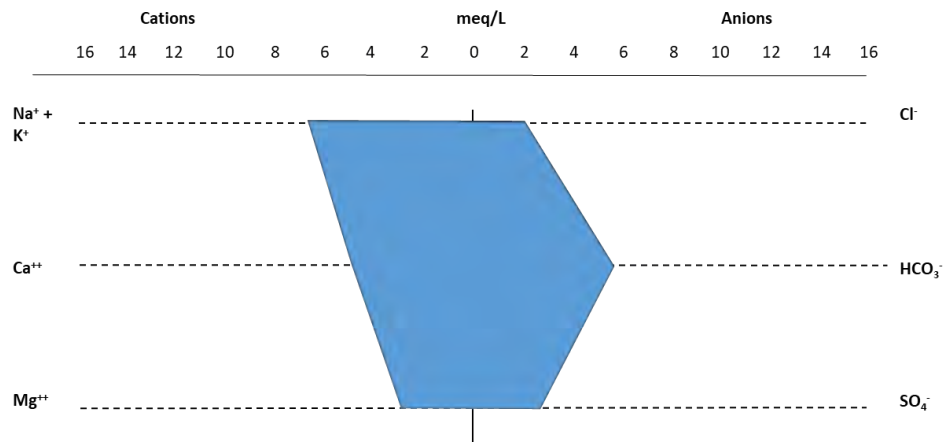
YVD-08



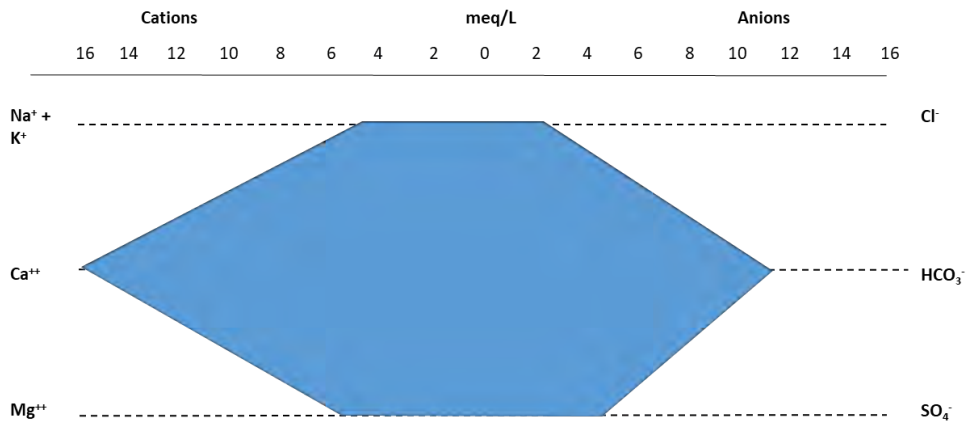
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13E.docx

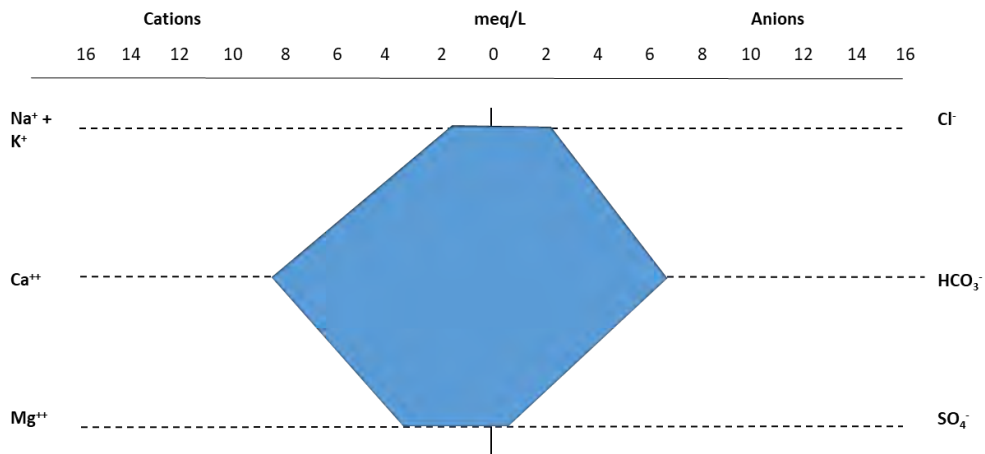
YVD-09



YVD-10



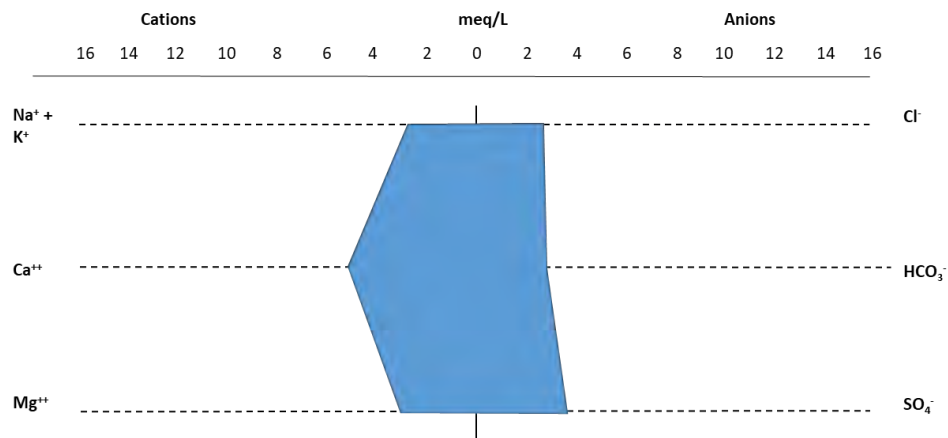
YVD-11



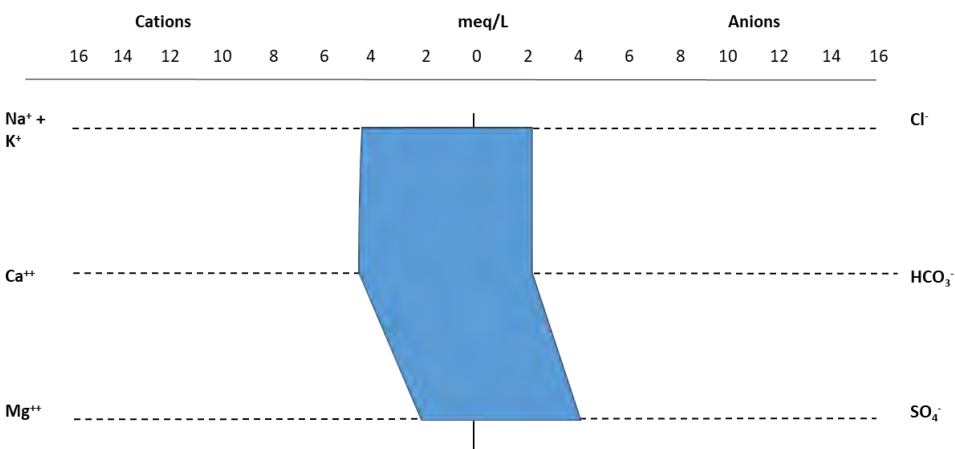
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13F.docx

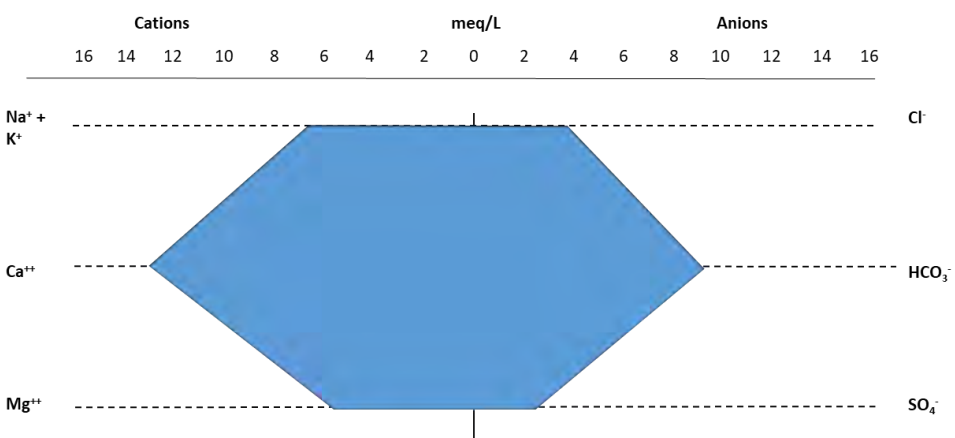
YVD-12



YVD-13



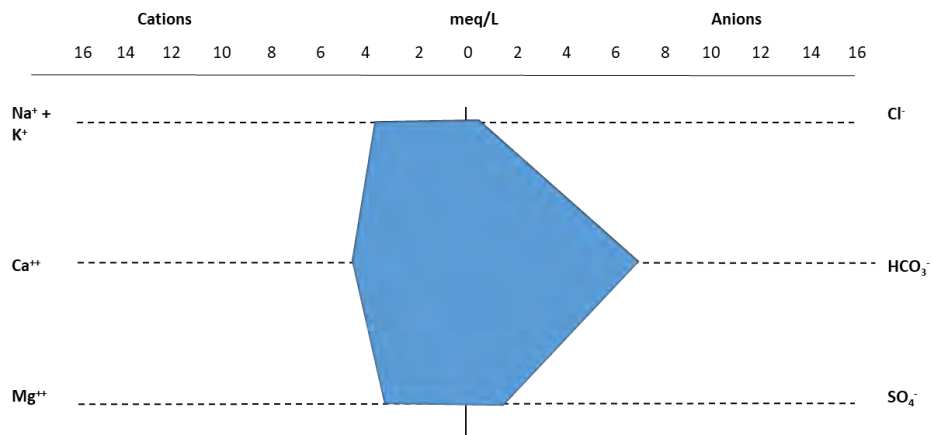
YVD-14R



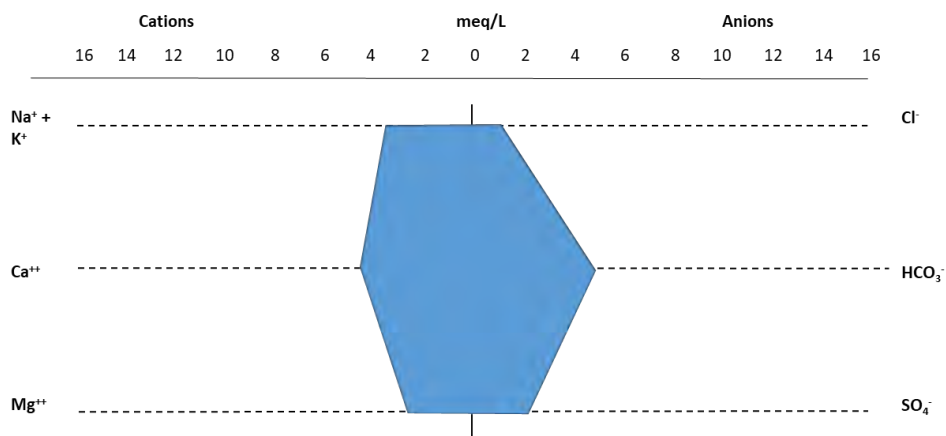
NOTE: meq/l: milliequivalents per liter

Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13G.docx

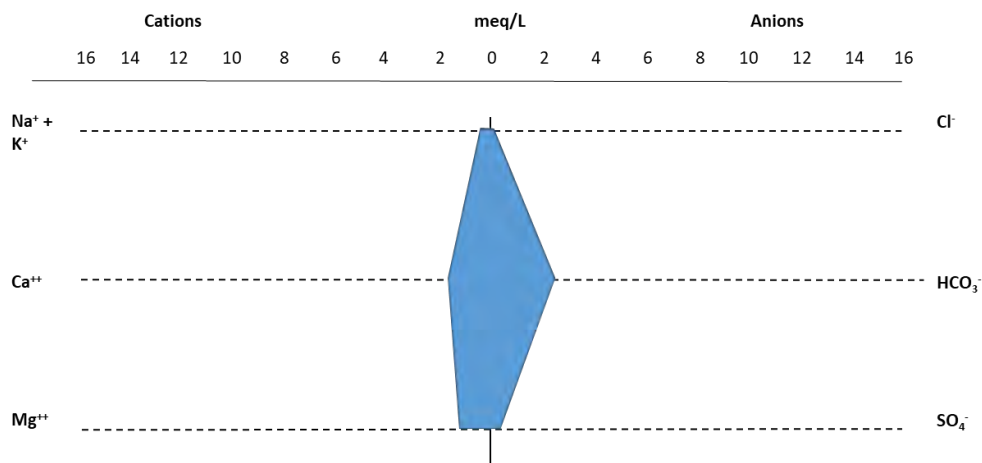
YVD-15



YVD-16



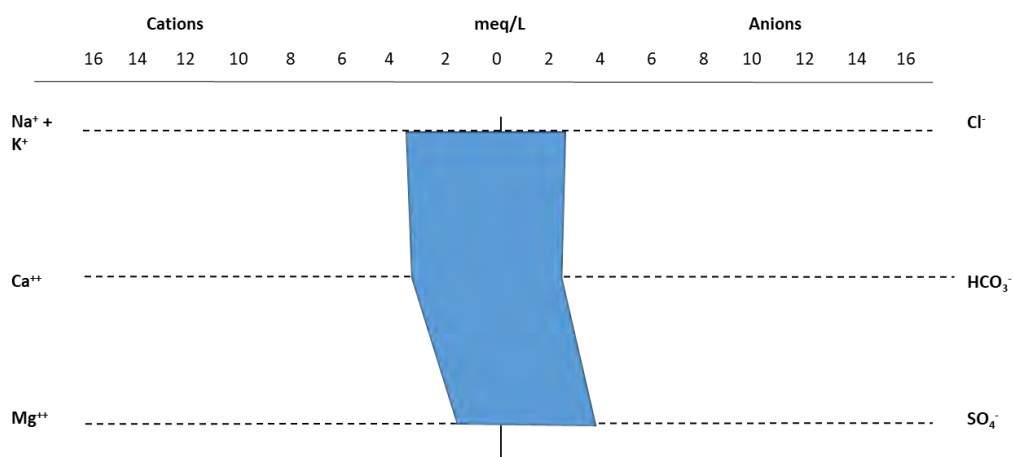
YVD-17



NOTE: meq/l: milliequivalents per liter

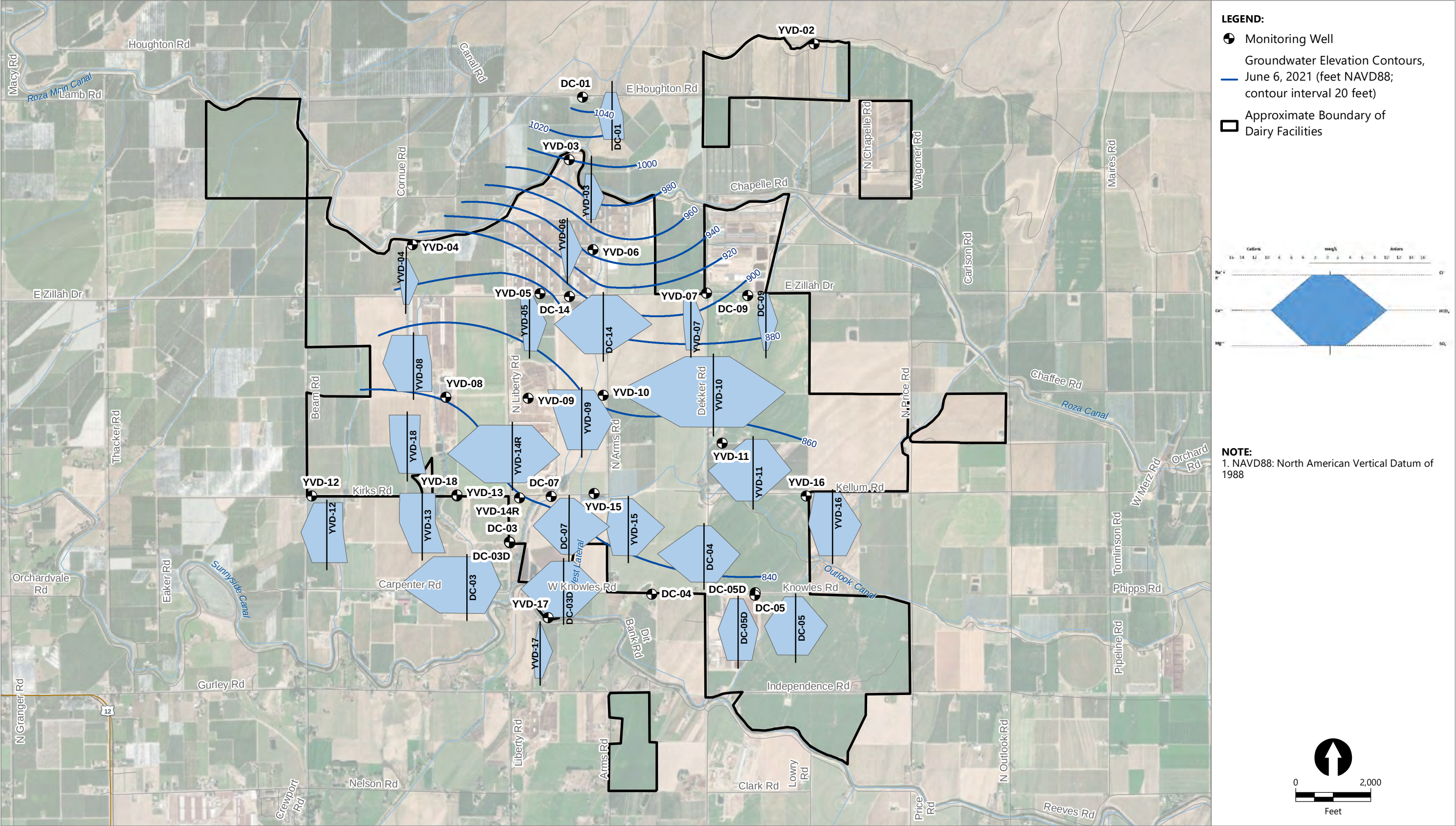
Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13H.docx

YVD-18



NOTE: meq/l: milliequivalents per liter

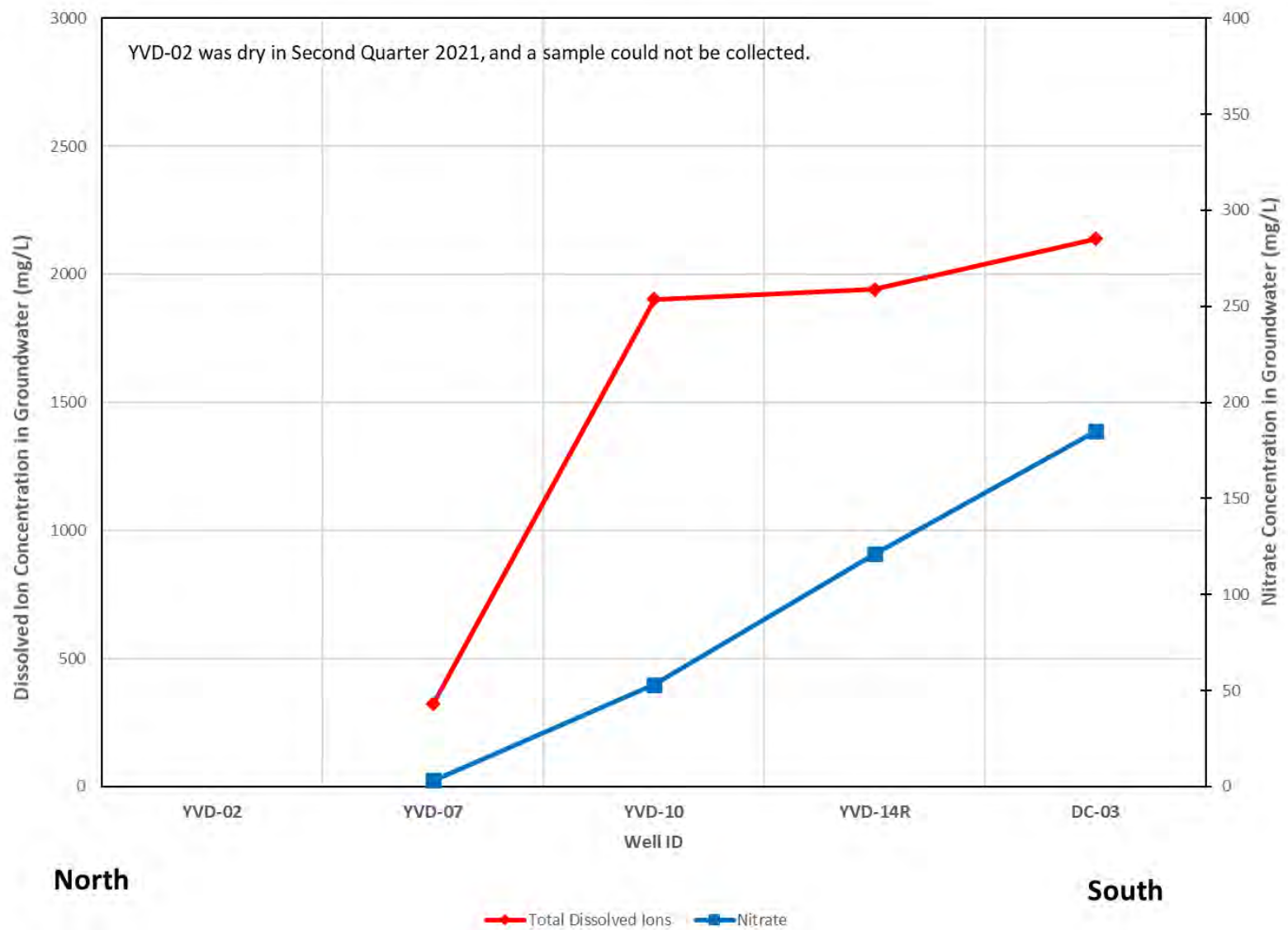
Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 13I.docx



Publish Date: 2021/07/15, 5:06 PM | User: alesueur
Filepath: \\orcas\gis\Jobs\PerkinsCoie_0996\YakimaDairies\Maps\GW_Monitoring\2Q_2021\AQ_YVD_Fig14_Stiff_Diagrams_2Q2021.mxd



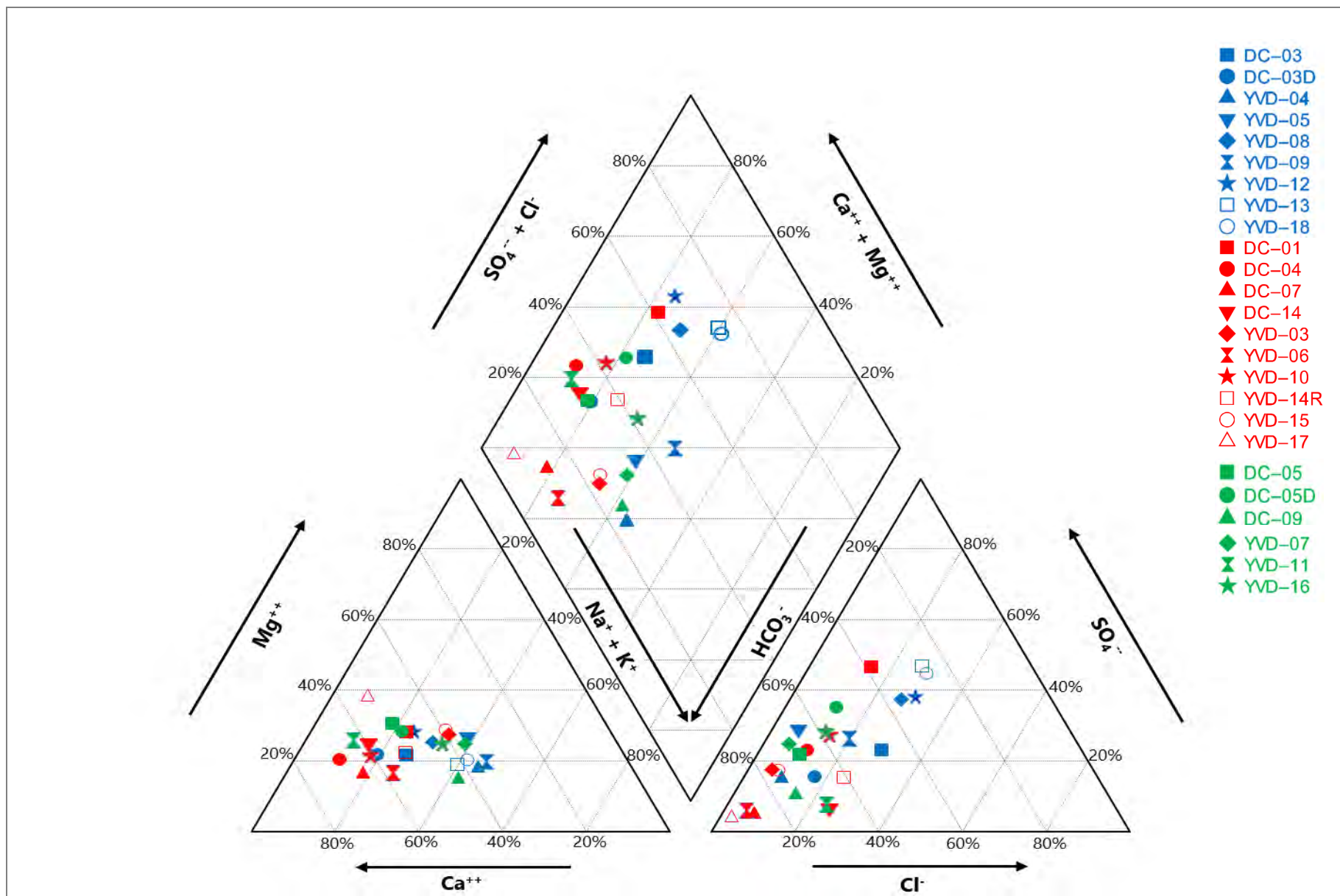
Figure 14
Stiff Diagrams and Groundwater Elevation Contour Map
Groundwater Monitoring Data Report – Second Quarter 2021
Yakima Valley Dairies



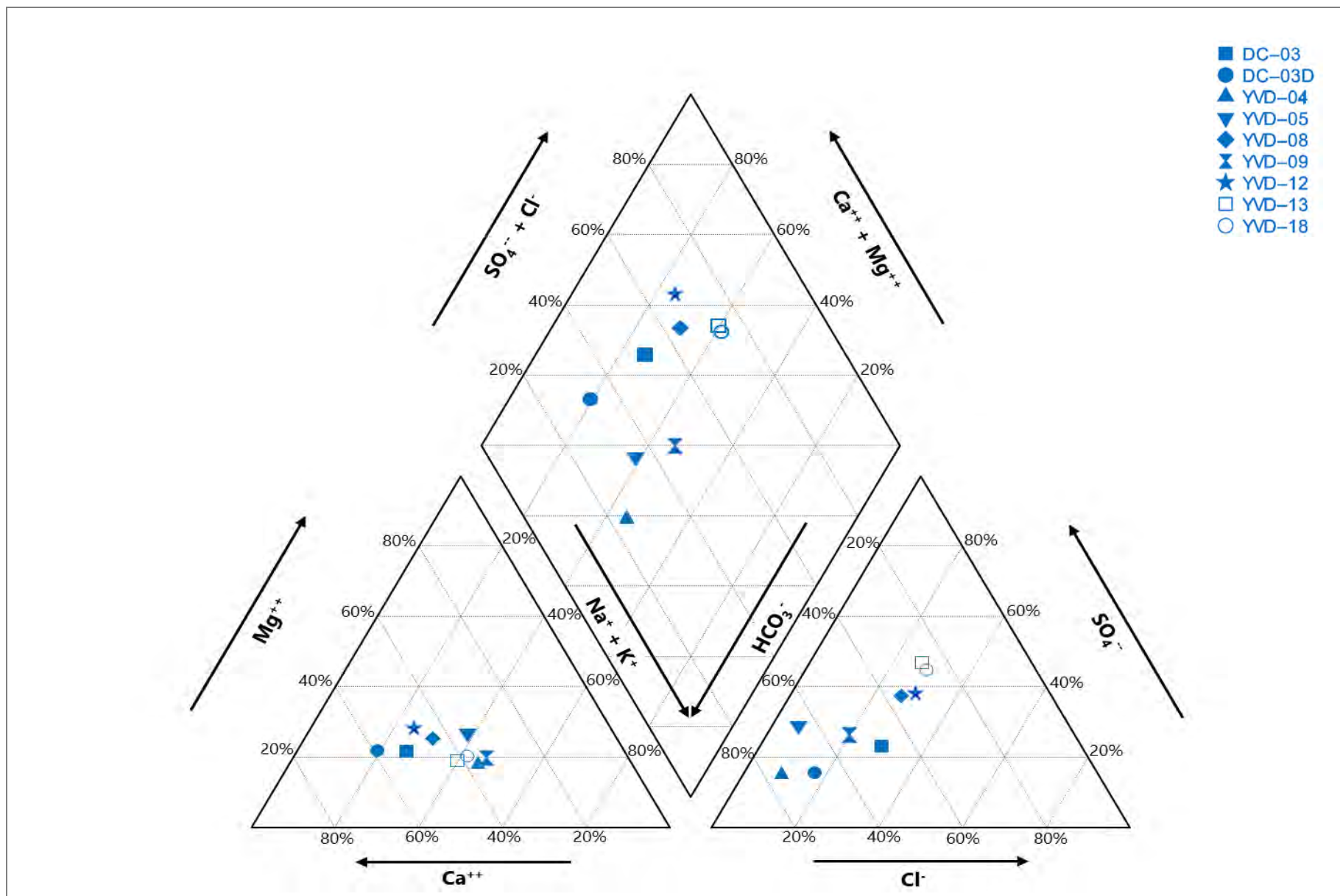
Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 15.docx



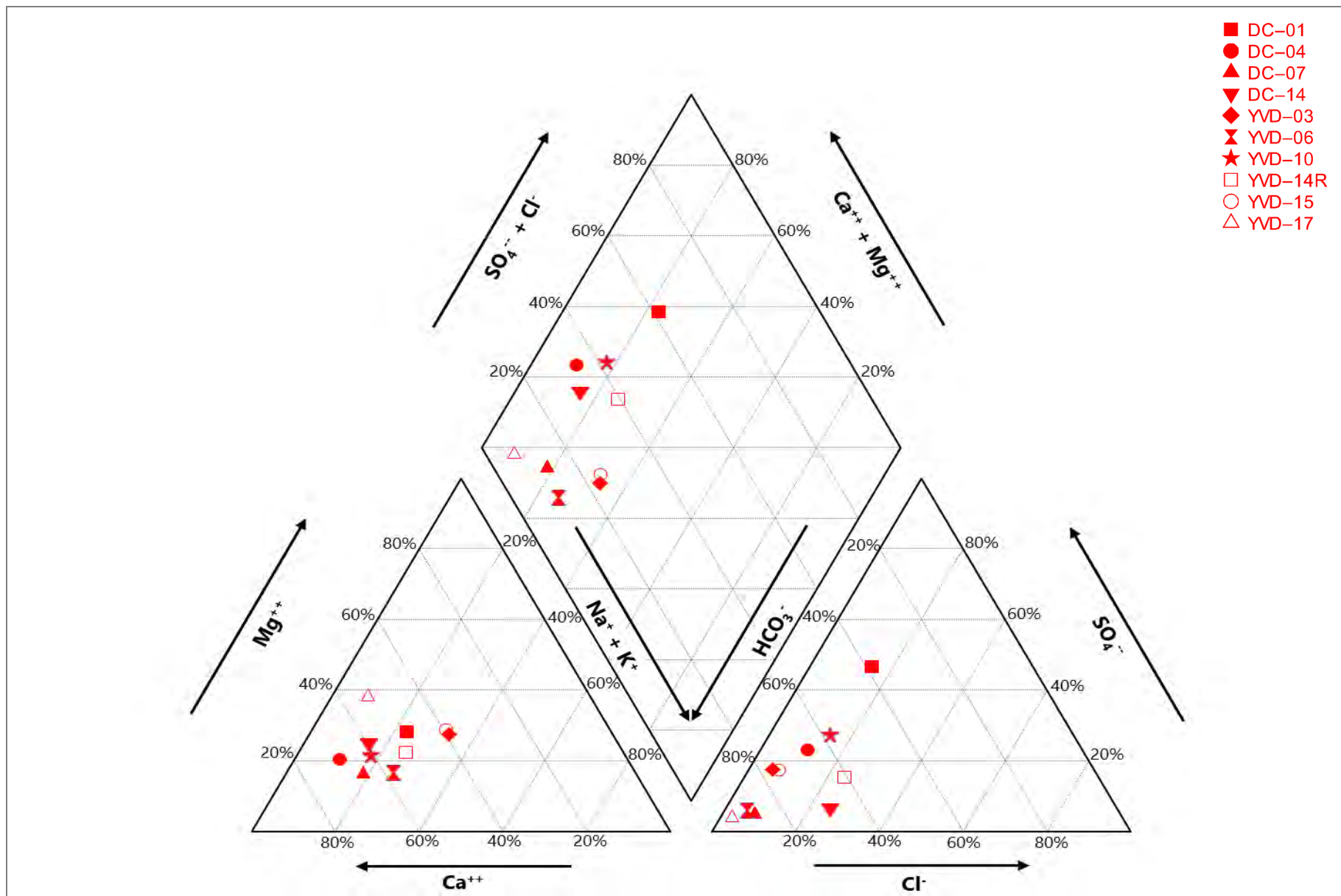
Figure 15
Nitrate and Total Dissolved Ion Concentration Along North-South Transect
 Groundwater Monitoring Data Report – Second Quarter 2021
 Yakima Valley Dairies



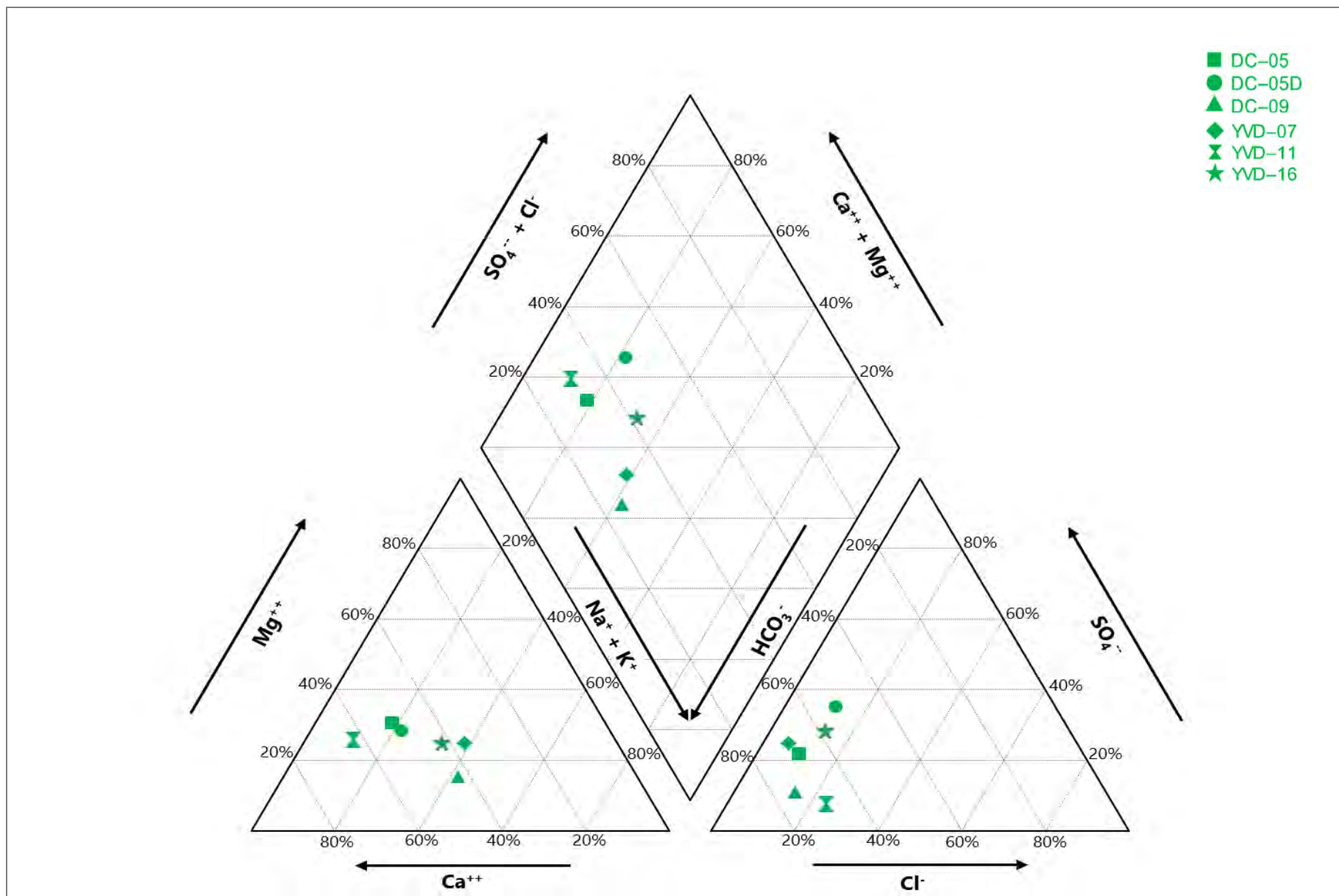
Filepath: \\fujil\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 16.docx



Filepath: \\fuj\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 17.docx



Filepath: \\fujil\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 18.docx



Filepath: \\fuji\anchor\Projects\Yakima Dairies\SDWA AOC\Deliverables\07 - Groundwater\Quarterly Data Summary Reports\2021\Q2\Figures\Word Doc\Figure 19.docx

Appendix B

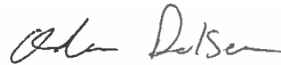
Owner Certifications

Cow Palace 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.

Cow Palace, LLC

Signature



Name

Adam Dolsen

Title

Member

Date

8/12/2021

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

Signature



Name

Dan DeRuyter

Title

Member

Date

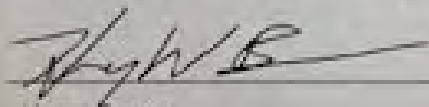
8/11/2021

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



Name

Henry Bosma

Title

Partner

Date

8-10-21