

Groundwater Data Gap Investigation Technical Memorandum – Transducer Monitoring (November 2017 to August 2019)

NERT Remedial Investigation – Downgradient Study Area Nevada Environmental Response Trust Site Henderson, Nevada

Final



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Groundwater Data Gap Investigation Technical Memorandum – Transducer Monitoring (November 2017 to August 2019), Revision 0 Nevada Environmental Response Trust Remedial Investigation – Downgradient Study Area, Henderson, Nevada

Responsible Certified Environmental Manager (CEM) for this project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

Sally W. Bilodeau, CEM

Date

11-4-2019

NERT RI, Downgradient Study Area Project Manager Certified Environmental Manager

AECOM

CEM Certificate Number: 1953

CEM Expiration Date: September 30, 2021

Sally W. Bilodean

The following individuals provided input to this document:

Carmen Caceres-Schnell, PG, CEM Harry Vandenberg, PE, CEM Adam Yoerg

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List of Abbreviations

CSM Conceptual Site Model

cfs cubic feet per second

Downgradient Study

Area NERT RI Downgradient Study Area

DGIP Data Gap Investigation Plan

ECS Erosion Control Structure

°F degrees Fahrenheit

kPa kilopascal

LVW Las Vegas Wash

memo Technical Memorandum

NERT Nevada Environmental Response Trust

OU-3 Operable Unit 3

Reclamation United States Bureau of Reclamation

RI Remedial Investigation

SNWA Southern Nevada Water Authority

Study transducer study

SWF Seep Well Field

USGS U.S. Geological Survey

1.0 Introduction

This technical memorandum (memo) presents the results of the transducer study (Study) conducted between November 2017 and August 2019 as part of the Data Gap Investigation for the Nevada Environmental Response Trust (NERT) Remedial Investigation (RI) - Downgradient Study Area, which is in Operable Unit 3 (OU-3) of the NERT RI Study Area in Henderson, Nevada (**Figure 1**). This memo has been prepared as an interim deliverable in advance of the forthcoming NERT OU-3 RI Report. Except as noted in this memo, the work was conducted per the procedures and methods described in the Data Gap Investigation Plan (DGIP) – Transducer Installation and Monitoring (AECOM 2016a) and DGIP – Phase I Groundwater Monitoring Well Installation (AECOM 2017a) approved by the Nevada Division of Environmental Protection on December 27, 2016, and June 1, 2017, respectively. This memo includes and builds on the data and findings presented in the Groundwater Data Gap Investigation Technical Memorandum – Transducer Installation and Monitoring (AECOM 2018). Consistent with previous Technical Memoranda, **Appendix A** was reserved for the responses to stakeholder comments, however, no comments were received.

The overall objective of the Downgradient Study Area investigation is to identify subsurface pathways within the Downgradient Study Area, which is downgradient and cross-gradient of the NERT Site and Eastside Sub-Area, through which perchlorate-impacted groundwater is entering the Las Vegas Wash (LVW). The objective of the Study is to provide detailed data on water level changes in existing wells near the LVW to address data gaps identified in the historic and the 2016 to 2019 groundwater monitoring data.

The objectives, methods and procedures, and monitoring plan for the Study are described in the DGIP (AECOM 2016a), which was designed to answer the following study questions:

- How do groundwater levels change near the LVW?
- What is the daily and seasonal variation along the LVW?
- · Where and when does the LVW influence local groundwater levels?
- What are the statistical groundwater elevation trends?
- How do the data refine the Conceptual Site Model (CSM)?

The initial set of 19 transducer locations was established based on the results of the April-May 2016 groundwater sampling event, during which 61 groundwater samples were collected from wells throughout the Downgradient Study Area. In September 2018, a second set of transducers was installed in nine Phase I wells along the LVW. During July and August 2019, a third set of transducers was installed in the 14 Phase II wells along the LVW. Surface water gages (i.e., transducers) were installed in the LVW in January 2017 as part of the surface water sampling program. The data from the surface water and groundwater transducers has been incorporated into the Phase II Groundwater Assessment to evaluate where the groundwater potentiometric surface is higher than nearby surface water elevations in the LVW. The locations of the transducers and surface water gages as well as land ownership are shown on **Figure 2**. **Figure 3** shows the transducers and surface water gages on the geologic map of the area.

In November 2015, NERT installed transducers in ten monitoring wells (PC-62, PC-68, PC-108, PC-155A/155B, PC-156A/156B, PC-157A/157B, and WMW6.15S) northeast of the Bird Viewing Ponds in the vicinity of the Seep Well Field (SWF). Ramboll provides the transducer information from well WMW6.15S so that it can be included in this study. In August 2017, the transducers in monitoring wells PC-62, PC-68, and PC-108 were removed. One of these transducers was redeployed in monitoring well PC-56, located near the SWF. The former and current locations of these transducers are included on **Figures 2** and **3**. Well WMW5.58SI was destroyed in January 2018 and the transducer from this well was later placed in the replacement well, WMW5.58S. Each well has been equipped with a data logger (In-Situ Aqua TROLL 200) and a cellular network telemetry system (In-Situ Tube 300R). The data logger measures water temperature, electrical conductivity, absolute water pressure, and water level. In addition, the data logger calculates and reports specific conductivity, salinity, total dissolved solids, resistivity, and water density. The in-situ Tube 300R measures absolute barometric pressure and automatically applies a barometric pressure correction to the water level that is reported in the telemetrically

transmitted data. Measurements are taken at 15-minute intervals and tubes typically transmit recent logger and tube data telemetrically to the Ramboll FTP site every 12 hours. The data loggers continue to collect and store data and when the In-Situ Tube 300R fails to transmit, data can be manually downloaded if needed. In November 2017, the data loggers and telemetry tubes in monitoring wells PC-155A/155B, PC-156A/156B, PC-157A/157B, and WMW6.15S were exchanged for In-Situ Rugged TROLL 100s, which measure water temperature and water level (pressure). These wells are no longer equipped with telemetry and are visited quarterly by a NERT field technician.

2.0 Transducer Installation and Data Collection

Data from 44 transducers in groundwater monitoring wells located along the LVW were used in this Study. This includes the 42 transducers installed by AECOM, the data from well WMW5.58SI that was destroyed, and the data from the transducer in well WMW6.15S. The rationale and installation details for the transducers except for WMW6.15S, are provided in **Tables 1** through **3**.

The wells equipped with transducers are shown on **Figures 2** and **3.** Seven wells are located on United States Bureau of Reclamation (Reclamation) and Clark County Wetlands Park properties, 34 wells are located on Clark County Wetlands Park property, and two wells are located on City of Henderson property (**Figure 2**). The wells with transducers extend from Duck Creek Confluence Weir to Rainbow Gardens Weir, spanning the length of the Downgradient Study Area. Groundwater level monitoring activities and data downloads were conducted approximately every other month between March 2018 and January 2019 with the latest download discussed in this memo occurring in August 2019. The transducers currently remain in the wells and continue to record data.

2.1 Pre-field Activities

A site-specific Health and Safety Plan as well as a Quality Assurance Project Plan were developed for the Downgradient Study Area, including the planned field work for the transducer installation and monitoring activities (AECOM 2016b and AECOM 2017b). Property owners were contacted to obtain permission for access to install and monitor the transducers. Access to properties was granted by Reclamation (U.S. Bureau of Reclamation 2016), the City of Henderson, Clark County, and Clark County Wetlands Park. In addition, the Southern Nevada Water Authority (SNWA) and Landwell provided access to their wells equipped with transducers, which are all located on Reclamation property. AECOM provided notification to landowners prior to each mobilization.

Transducers were programmed prior to deploying them in the field for installation. Each transducer was labeled with the well identification in which it was installed. The recording interval, date, time, and well identification were preprogrammed into each transducer using the manufacturer's software. The data recording interval was set for 15 minutes and therefore provided 96 groundwater level readings per instrument per day.

2.2 Rationale for Groundwater Transducer Locations

The well locations for the proposed installation of transducers were selected to provide groundwater level data on the north and south sides of the LVW to determine the relationship and response of groundwater levels to the different stages of the water levels in the LVW. In addition, wells present in areas where seeps or springs were observed were selected to determine the relationship, if any, of the potentiometric surface to the surface water features. The wells that were selected for initial transducer installation in 2017 are listed on **Table 1**, which includes the measured well depth, screened interval (if known), water-bearing zone and lithology. Only shallow water-bearing zone wells were selected because the deeper water-bearing zones would not be expected to be influenced significantly by surface water level changes. **Table 1** presents the rationale for selecting the existing wells to have a transducer installed and **Table 2** presents the rationale for the Phase I and Phase II well locations.

2.3 Groundwater Transducer Installation

Transducers were installed in the nine Phase I groundwater wells in September 2018. Installation details for these transducers are provided in the Data Gap Investigation Technical Memorandum – Phase I Groundwater Quality Assessment (AECOM 2019). Transducers were installed in 10 of the 14 Phase II wells in June 2019. Transducers were installed in the remaining four Phase II wells (NERT3.58S1, NERT3.60S1, NERT4.64S1, and NERT4.71S1) in August 2019. A summary of the installation details for the transducers is provided on **Table 3**. The

Phase I and Phase II well locations and well casing elevations were surveyed by a licensed surveyor in June 2018 and May 2019.

2.4 Groundwater Transducer Data Collection

Transducers in 19 wells have been recording data since April 2017 to present. Data from the transducer in well WMW6.15S is provided by Ramboll. Transducers in the Phase I wells have been recording data since September 2018 to present. Transducers in 10 of the Phase II wells have been recording since June 2019. Transducers in the other four Phase II wells have been recording since mid-August 2019. Between April 2017 and March 2018, manual groundwater levels were recorded monthly with data downloads occurring quarterly. Starting in March 2018, manual groundwater level measurements and data downloads were collected on a bimonthly (every 2 months) basis through January 2019. After January 2019 the frequency of manual groundwater level measurements was reduced, and measurements were obtained in July and August 2019.

The transducers were set to record changes in pressure (groundwater levels) every 15 minutes (96 times per day). Similarly, a barometer installed in well WMW4.9S recorded barometric pressures at the same frequency as the transducer measurements. Manual water levels were recorded to provide comparison data in case the transducer instrument started to drift. **Table 4** provides the field depth to water measurements obtained from the wells from April 2017 through August 2019.

During data collection, the transducers were brought up to the surface for direct data download. The manufacturer's handheld data reader and software were used to download the data. After data were downloaded, the memory was cleared, the data recording was restarted, and the transducer was reinstalled in the well at its prescribed depth.

Scheduled downloading of data from these wells was completed in August 2019. The transducers remain in the wells and continue to collect and record data. Each transducer has the capacity to collect 120,000 data points. At the set frequency of data point recordings (every 15 minutes), the transducers can record for up to 3 years and 3 months before data is overridden. In addition, per the manufacturer's specifications, the battery life of the transducers is approximately 10 years based on a 1-minute sampling rate. The battery life of each transducer was observed at 100 percent during the January 2019 monitoring event. The most recent data download occurred in August 2019. Future data collection will be performed as needed under the NERT OU-3 RI.

2.4.1 Quality Control

Each time a transducer was brought to the surface, the cable and transducer were inspected for signs of damage. No sign of damage was noted on any of the cables during any of the monitoring events. No issues with data recording were noted in the transducers that were checked.

In addition, the time of data recording was checked for deviations. In general, time deviations between -87 to +111 seconds were noted in some transducers. Fluctuations in surface water levels are expected to cause level fluctuations in groundwater that is in communication with the surface water. The time required for these fluctuations to propagate through the aquifer depends upon distance of the monitoring point from the surface water body, aquifer transmissivity, and porosity, as well as other factors. Although a direct estimate is not feasible, it is expected that this timeframe would be significantly longer than the time deviations encountered in some of the transducers and this deviation is therefore considered acceptable.

The transducer in well WMW5.58SI was removed on January 25, 2018, prior to destruction of the well. A replacement well (WMW5.58S) was installed by SNWA. On September 6, 2018, the transducer that was

¹ Coordinate system: State Plane Coordinate System; Elevations are referenced to the North American Vertical Datum (NAVD) 83 Nevada East Zone (2701) with vertical datum based on NAVD 88 referenced to the City of Henderson Benchmark network.

removed from WMW5.58SI was installed in replacement well WMW5.58S and set to record at the same frequency (every 15 minutes) as the other transducers in the groundwater monitoring program.

2.5 USGS Gaging Station at Pabco Road

Surface water elevation data were reviewed from the United States Geological Survey (USGS) gaging station at Pabco Road Erosion Control Structure (ECS)(USGS 2019). The elevation, based on stage heights from this station versus time, are presented on **Figure 4**. The elevations depicted on **Figure 4** are based on the Pabco Road ECS elevation surveyed on June 29, 2017. The average daily variation of surface water stage is 0.4 foot (4.8 inches). In response to rain storms that occurred from April 2017 through August 2019, the water level in LVW increased up to 2.2 feet. Based on USGS data, flow rates from these storms ranged from about 1,000 to 6,600 cubic feet per second (cfs). The largest flow rate of 6,600 cfs was recorded on January 9, 2018.

2.6 Surface Water Transducers

In January 2017, AECOM installed eight surface water gaging stations (identified as Staff Gaging Locations) along the south shore of LVW as part of the surface water investigation (**Table 5, Figures 2** and **3**). Staff gage and transducer assemblies were similar in design to those used by USGS but modified as appropriate given the temporary nature of the installations. Specific installation points were identified to be reachable from the shore-side access road but generally away from areas frequented by foot traffic. Each assembly consists of a recording pressure transducer mounted inside an L-shaped length of PVC pipe. The transducer head was mounted inside a perforated PVC protective casing. The transducer cable ran back to shore through the PVC pipe into a short standpipe. The standpipe had a secure, lockable cap to allow access to the data retrieval port.

The staff gage assembly was anchored to the southern bank of the LVW using fence posts. The standpipe was located at the water's edge or near shore, depending on the condition of the LVW bottom. The transducer head extended into the channel approximately 10 feet north and was secured with fence posts. Where conditions permitted, the horizontal pipes were laid in a shallow trench to both protect and secure the pipe, and to minimize their profile in the LVW. The staff gages, marked in 0.01-foot increments, were secured to the posts at the channel-end of the pipe assemblies. The gages were located near enough to shore to allow accurate readings from the stream banks and deep enough to cover the range of streamflow variation.

At the time the gages were installed, onshore barometers were placed at three locations to provide reference atmospheric pressure data. By April 2018, two of the barometers (Baro 1 and Baro 3) had been washed away due to stormwater surges. A third barometer (Baro 2) recorded data through September 6, 2018. Between September 6, 2018 and November 5, 2018, Baro 2 disappeared. A comparison of previous barometer data from the LVW and the barometer installed in well WMW4.9S was conducted to evaluate if data from well WMW4.9S could be used to compensate the surface water gage data. The difference between the two datasets is about 0.03 kilopascal (kPa) on average. The margin of error due to the transducer technology is +/-0.05 kPa (Solinst Canada Ltd. 2016); therefore, the difference between the two datasets is acceptable and the barometer data from well WMW4.9S was used to compensate gage data from September 2018 through August 2019.

Beginning in May 2018, after completion of the surface water study, the surface water level recording interval on the gages was set to 15-minute increments (96 times per day) to match the recording interval of the groundwater transducers. The gages record the changes in water levels that correspond to increases and decreases in flow volume. All of the stations recorded the daily patterns of high and low water levels related to the release of wastewater from upstream wastewater treatment plants. The timing of the high and lows vary from station to station, arriving later in the day with distance downstream. Between the stations at Duck Creek and Rainbow Gardens weirs, the daily highs and lows are separated by approximately 3 hours.

Data was downloaded bimonthly (every 2 months) from the surface water transducers May 2018 through January 2019. Data was also downloaded in August 2019. The gages were surveyed for elevation on May 10, 2018.

3.0 Transducer Monitoring Results

Data collected from the transducers and the barometers were downloaded from August 2017 through August 2019 and the transducer data were compensated to remove the effects of barometric pressure. Barometric pressure was obtained from a barometer installed in well WMW4.9S. The data were also adjusted to correlate with manual water level data. The raw and compensated electronic data files were provided to NERT and are included in **Appendix B** of this memo. Four wells (NERT3.58S1, NERT3.60S1, NERT4.64S1and NERT4.71N1) did not have transducers installed until August 12-13, 2019. These transducers collected data over two weeks or less because these wells were being used for dye injection tests or were occupied by hornets preventing transducer installation. This report provides data analysis from the 40 transducers along LVW that had recorded more than two weeks of data. Graphs of the adjusted transducer water level and temperature data for the other 40 transducers are provided in **Appendix C**. Daily field reports are provided in **Appendix D**. **Table 6** summarizes the data observed on the graphs.

The transducers' records of water levels and temperatures were affected when transducers were removed from wells for groundwater sampling activities by the well owners or other third parties. Results discussed below eliminate data believed to be compromised due to these activities. These data are highlighted in red in **Appendix B** and have been filtered out of the data set using the filter applied to the "REV GW ELEV" column so that the compromised data is not shown in the hydrographs.

3.1 Groundwater Levels

The groundwater levels in all 40 wells exhibited daily fluctuations (**Table 6** and **Appendix C**). The daily variation of groundwater levels along the LVW is typically between 0.05 foot and 0.2 feet. All of the transducers detected increases in groundwater levels that corresponded to the increased flows in LVW due to seasonal rain storms. Groundwater in wells closer to the LVW generally showed larger water level changes than the groundwater in wells further from the LVW. The largest groundwater level change was 8.2 feet on January 9, 2018, in well WMW5.7N. This coincides with the start of weir construction dewatering activities and a 2.2-foot storm surge recorded on the same date at Pabco Road ECS.

Groundwater levels in 11 wells (AA-30, MW-13, PC-74, PC-77, WMW 4.9N, WMW4.9S, WMW5.5S, WMW5.7N, WMW6.15N, WMW6.55S, and WMW6.9S) exhibit distinct decreases in elevations from January to June 2018 that coincide with the dewatering activities associated with weir construction near Sunrise Mountain and Historical Lateral Expansion weirs (**Table 6** and **Appendix C**). In addition, wells PC-74, PC-77 and WMW6.9S exhibit changes in elevations that may be influenced by nearby extraction wells in the NERT SWF that are withdrawing water associated with remediation activities in the area (**Table 6** and **Appendix C**). Urban irrigation for golf courses and other landscaping may also influence groundwater elevations. **Appendix E** presents hydrographs of seven wells and the Historic Lateral or Sunrise Mountain dewatering pumping rate. Six of the wells (AA-30, MW-13, WMW5.5S, WMW5.7N, WMW6.15N, and WMW6.55S) exhibit lower water levels during dewatering activities and one well (COH-2B1) does not exhibit a change in average water levels.

3.2 Groundwater Temperature

Groundwater temperature in 27 wells was generally between 71- and 75-degrees Fahrenheit (°F) between April 2017 and August 2019 (**Table 6** and **Appendix C**). The variation in temperature in 29 wells was less than 2 °F. Groundwater in four wells exhibited temperatures of 80°F or higher (NERT3.80S1, NERT5.49S1, WMW5.58SI and WMW5.7N). Groundwater from one well (WMW6.9S) exhibited lower temperatures of 68.7 to 69.9°F.

Groundwater from seven wells (NERT3.80S1, NERT 5.49S1, WMW4.9S, WMW5.5S, WMW5.7N, WMW5.58SI, and WMW6.15S) exhibited 5 to 25.4°F changes in temperature between April 2017 and August 2019. Temperature changes in 26 wells exhibited seasonal variations from 1.1 to 25.4 °F For wells that exhibited seasonal variations in temperature, some of the high groundwater temperatures did not coincide with summer months (**Table 6** and **Appendix C**). Temperature changes of 5°F or greater observed in groundwater are attributed to surface water mixing with groundwater.

3.3 Trend Tests

Mann Kendall statistical trend analyses were performed on water level data collected between April 2017 and August 2019 using ProUCL statistical software (U.S. Environmental Protection Agency 2016). In many instances the changes in water levels were small. Statistical trend analyses were not run on the transducer data from well WMW6.15S because the transducer malfunctioned. Statistical trend analyses were not run in this Technical Memorandum on the transducer data from the original well designated as WMW5.58SI because this well was destroyed. Statistical trend results prior to well destruction were presented in the 2018 Transducer Technical Memorandum and are not presented here (AECOM 2018). Groundwater levels in the remaining 38 transducers showed statistically significant increases in 26 wells, statistically significant decreases in 11 wells, and no trend in one well (**Table 6 and Appendix F**).

3.4 Surface Water Levels

Surface water hydrographs and temperature graphs for April 2017 through August 2019 are included in **Appendix G**. The daily elevation change in surface water in the LVW is about 0.4 foot. High storm-related flows in the LVW during November 2018 to August 2019 were reflected in a 6.09-foot change in Station S3.75 on February 14, 2019.

Surface water elevations were compared to groundwater elevations to evaluate where groundwater was likely to be entering the LVW. The surveyed elevations of Pabco Road ECS, Calico Ridge Weir and Three Kids Weir, as well as transducer elevation data and data provided by SNWA were utilized to develop a cross section schematically depicting expected surface water elevations and groundwater elevations (**Figure 5**). Surface water and groundwater transducer data from July 9, 2019, 12:00 am were used for developing the cross section.

As shown on **Figure 5**, for the timeframe selected groundwater elevations appear to be equal to or higher than surface water elevations below Duck Creek Weir to below Sunrise Mountain Weir, below Bostic Weir to below Calico Ridge Weir, below Lower Narrows Weir, below Homestead Weir, and below Three Kids Weir. In the area from below Pabco Road ECS to above Bostic Weir the projected groundwater elevations are below the surface water elevations (**Figure 5**).

3.5 Surface Water Temperature

Surface water hydrographs and temperature graphs for April 2017 through August 2019 are included in **Appendix G**. The seasonal temperature change ranged from a high of 85°F to 90°F in July or August and a low of 55°F to 60°F in January.

4.0 Conclusions

This memo presents the results of the Study, which was performed in accordance with the methods, procedures and monitoring plan described in the DGIP. Following are the Study questions formulated in the DGIP and whether/how the transducer data collected to date addresses these questions:

How do groundwater levels change near the LVW?

Groundwater levels in all the wells monitored with transducers exhibit an increase and decrease each day. The magnitude of daily change varies between wells but is generally less than 0.2 foot per day. Groundwater in the following wells exhibits the highest daily change of about 0.25 feet: WMW3.5S, WMW6.15S, and WMW6.55S. In general, the further the well is from the LVW the lower the daily variations.

Groundwater levels in most wells show water level responses that correspond to higher stages in the LVW from rainstorms. In general, the further the well is from the LVW the lower the water level rise from the storm event. During the Sunrise Mountain and Historic Lateral Expansion Weir construction activities from January to June 2019, six wells in the area (AA-30, MW-13, WMW5.5S, WMW5.7N, WMW6.15N, and WMW6.55S) appeared to be affected by dewatering activities.

2. What are the daily and seasonal variations along the LVW?

The daily variation of groundwater elevation along the LVW is typically between 0.05 and 0.25 feet per day. The daily variation in stage in the surface water in the LVW is about 0.4 feet. High storm-related flows in the LVW during April 2017 to August 2019 were reflected in up to 8.2 feet rise in groundwater levels in well WMW5.7N, located between Pabco Road ECS and Historical Lateral Expansion Weir. This change occurred near the start of dewatering activities in that area and coincided with a 2.2-foot storm surge at Pabco Road ECS. Based on the USGS data, flows from storms ranged from approximately 1,000 to 6,600 cfs. Seasonal variations in groundwater and surface water levels were not observed.

The variation in groundwater temperature in 29 of 40 wells was generally less than 2°F from April 2017 to August 2019. Seven wells exhibited temperature variations that were higher than 5°F during the same timeframe. Four of these wells exhibited temperature changes greater than 9°F and maximum temperatures exceeding 80°F. This indicates that surface water may be infiltrating and mixing with the groundwater in the area between Pabco Road ECS and Historic Lateral Weir, between Bostic Weir and Calico Weir, and upstream of Three Kids Weir.

As expected, the surface water temperature exhibited obvious seasonal variations ranging from around 90°F in the summer and 55°F to 60°F in the winter. Temperature changes in 26 wells exhibited seasonal variations from 1.1 to 25.4°F. The change in groundwater temperature often does not coincide with the change in surface water temperature.

Stage increases in surface and groundwater from seasonal rains were observed following rain events in summer and winter. Seasonal variations were not observed in surface water or groundwater levels.

3. Where and when does the LVW influence local groundwater levels?

The LVW appears to influence local groundwater levels daily in each of the locations measured. In general, the closer the well is to the LVW the greater the response. Groundwater levels in three wells (PC-74, PC-77, and WMW6.9S) exhibited a different pattern over the observation period and appear to have been influenced by extraction well pumping from the NERT SWF. The schematic cross section provided as **Figure 5** shows areas where the projected groundwater elevations are higher than the surface water elevation and therefore groundwater could potentially be entering LVW (gaining conditions). Conversely where the projected groundwater elevation is lower than the surface water elevation, the surface water could infiltrate (losing conditions), which supports the above observation of seasonally higher temperatures in the groundwater between the Pabco Road ECS and Historical Lateral Weir.

4. What are the statistical groundwater elevation trends?

Between April 2016 and August 2019 groundwater levels exhibited statistically significant increasing trends in 26 wells, statistically significant decreasing trends in 11 wells, and no trend on one well. Trend tests were not run on transducer data from two wells due to transducer malfunction on one well and because the other well was destroyed.

5. How do the data refine the CSM?

Figure 5 depicts the refinement of the CSM by identifying the specific reaches along LVW that are in potential losing conditions and other reaches that are in potential gaining conditions. When compared to the 2018 cross section it is notable that groundwater elevations appear slightly higher and that the areas below Bostic Weir and Lower Narrows Weir are exhibiting gaining conditions.

The data also indicate that there is an area of groundwater and surface water mixing that is evident by the warmer groundwater detected in four wells (NERT3.80S1, NERT5.49S1, WMW5.58SI, and WMW5.7N) along the banks of the LVW. As the Downgradient Study Area is one part of the NERT OU-3 RI, AECOM is responsible for providing data and interpretations that refine the CSM specifically along the LVW while NERT will develop the overall CSM interpretation for OU-3.

5.0 Recommendations

The dynamic relationship between surface water and groundwater along the LVW is complex. Evaluating the data obtained from the transducers sheds light on this relationship; however, additional data are needed to make more effective use of the information. Continuing to collect transducer data can provide additional information on seasonal trends. For these reasons it is recommended the transducers be left in place because they are gathering data close to the LVW which support interpretation of groundwater/surface water interactions. If additional wells are installed in close proximity to the LVW, consideration should be given to adding transducers into a selection of those wells. It is recommended that the transducers are left in place for two additional years so that at least two complete years of data are available for interpretation.

The transducer surface water data and the groundwater transducer data should continue to be collected. Manual water level measurements should be collected when the transducers are downloaded so that adjustments can be made if transducers are not replaced at exactly the same depth each time they are taken out of the wells.

6.0 References

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Tables

Table 1 Rationale for the Selection of the Initial 19 Wells for Installation of Transducers NERT RI - Downgradient Study Area Henderson, Nevada

Well ID	Well Owner	Property Owner	Depth to Groundwater (feet) (1)	Measured Well Depth (feet) (1)	Water Column (feet)	Screen Interval (feet, bgs) (2)	Water- Bearing Zone (3)	Lithology ⁽⁴⁾	Rationale for Selection
AA-30	LandWell Company	USBR	20.44	34.05	13.61	11.7 - 31.7	Shallow	Qal	To evaluate water level changes west of C- 1 drainage channel and between the Chimera Golf Course and well WMW 5.5S.
COH-2B1	City of Henderson	USBR	16.98	67	50.02	Unknown	Shallow	Qal	To evaluate water level changes near the Seep Well Field.
LNDMW1	SNWA	CCPCS	36.99	61.56	24.57	Unknown	Shallow	Qal	To evaluate water level changes on the
LNDMW2	SNWA	CCPCS	34.39	55.05	20.66	Unknown	Shallow	Qal	north and south side of LVW between Lower Narrows and Homestead weirs.
MW-13	City of Henderson	City of Henderson	35.58	49.4	13.82	38 - 48	Shallow	Qal	To evaluate water level changes at the northwest corner of Henderson Landfill and between Henderson Landfill and LVW.
MW-20	City of Henderson	City of Henderson	33.05	67.25	34.20	50 - 65	Shallow	Thumb Formation?	To evaluate water level changes at the northen part of Henderson Landfill and within the Thumb formation.
PC-74	NERT	CCPCS	11.59	48.25	36.66	39.5 - 49.5	Shallow	Qal	To evaluate water level changes along a tributary wash between PC-75 and LVW.
PC-77	NERT	CCPCS	7.19	38.87	31.68	29.5 - 39.5	Shallow	Qal	To evaluate water level changes along a tributary wash and upgradient of PC-74.
WMW3.5N	SNWA	CCPCS	35.64	56.6	20.96	Unknown	Shallow	Qal	To evaluate water level changes on the
WMW3.5S	SNWA	CCPCS	43.60	59.80	16.20		Shallow	Qal	north and south side of LVW and where a seep was observed.
WMW4.9N	SNWA	CCPCS	31.91	53.00	21.09	Unknown	Shallow	Qal	To evaluate water level changes on the
WMW4.9S	SNWA	CCPCS	26.58	46.75	20.17	Unknown	Shallow	Qal	north and south side of LVW between Bostick and Calico Ridge weirs.
WMW5.58S ⁵	SNWA	USBR	10.48	40.95	30.47	Unknown	Shallow	Qal	To evaluate water level changes in a well located within a meander of the LVW that exhibits lower perchlorate concentrations (510 µg/L) than nearby wells potentially due to mixing of lower concentration surface water with groundwater.
WMW5.5S	SNWA	USBR	15.51	38.3	22.79	Unknown	Shallow	Qal	To evaluate water level chages in a well that exhibits high perchlorate concentrations (3,200 µg/L) and that is along the C-1 Drainage Channel. In addition, this well is between AA-30 and LVW.
WMW5.7N	SNWA	USBR	9.47	21	11.53	Unknown	Shallow	Qal	To evaluate water level changes on the north side of LVW.
WMW6.15N	SNWA	CCPCS	23.3	38.4	15.10	Unknown	Shallow	Qal	To evaluate water level data from a well located on the north side of LVW paired with WMW6.15S. WMW6.15S already has a NERT transducer installed.
WMW6.55S	SNWA	CCPCS	16.03	40.67	24.64	Unknown	Shallow	Qal	To evaluate water level changes in a well with high perchlorate concentrations (1,800 µg/L) on the south side of LVW near the Seep Well Field.
WMW6.9N	SNWA	CCPCS	18.42	48.55	30.13		Shallow	Qal	To evaluate water level changes on the
WMW6.9S	SNWA	CCPCS	11.43	51.55	40.12	-	Shallow	Qal	north and south sides of LVW near Duck Creek Confluence weir.

Notes:
bgs = below ground surface
LVW = Las Vegas Wash
Qal = Alluvium
µg/L = micrograms per liter
SNWA = Southern Nevada Water Authority
USBR = United States Bureau of Reclamation
NEPT = Nevada Environmental Personses Tus

NERT = Nevada Environmental Response Trust CCPCS = Clark County Parks and Community Services

- (1) Depth to groundwater and total well depth were measured in April 2016 by AECOM.

 (2) Screened interval was obtained from the NERT All Wells Database.

 (3) Water-bearing zone was obtained from the NERT All Wells Database and from the assumption that the shallow water-bearing zone may be present from 0 to 90 feet bgs.

 (4) Lithology was obtained from the NERT All Wells Database, from geotechnical investigations conducted for the weirs, and from the 1980 Bell and Smith Geologic map of the Henderson Quadrangle.

 (5) WMW5.58S replaced well WMW5.58SI after WMW5.58SI was destroyed. The transducer in WMW5.58S was installed on 9/6/2018. The transducer record in WMW5.58SI ends January 25, 2018.

Table 2 Rational for Phase I and Phase II Groundwater Monitoring Wells NERT RI - Downgradient Study Area Henderson, Nevada

Well ID	Borehole depth ⁽¹⁾	Well Depth in feet bgs	Well Diameter in inches	Well Screen	Rationale Based on Perchlorate Concentrations Detected in Groundwater and Surface Water Samples ⁽²⁾
Phase I Monitoring	Wells	1			
NERT5.91S1	70	50	4	40 - 50	Determine perchlorate concentrations between COH2B1 (total well depth of 67 feet bgs and 5,600 μ g/L) and WMW5.5S (total well depth of 38.3 feet bgs and 3,200 μ g/L) to further characterize this area of perchlorate impact east of the Seep Well Field. Surface water concentrations are 15 to 17 μ g/L.
NERT5.49S1	60	40	4	30 - 40	Determine concentrations between WMW5.58S1 (total well depth of 40.95 feet bgs and 510 μ g/L) and WMW5.5S (total well depth of 38.3 feet bgs and 3,200 μ g/L). There is a significant drop off of concentration. This is an area identified as a paleochannel and there is a layer of coarse-grained sediment, wash gravels, present. Placing a well in this area will help evaluate the significance of the wash gravels and further characterize perchlorate impacts. Surface water concentrations are 19 to 23 μ g/L.
NERT5.11S1	60	45	4	35 - 45	Determine concentrations between proposed wells NERT5.49S1 and NERT4.93S1. Surface water concentrations are 19 to 23 µg/L.
NERT4.93S1	60	50	4	40-50	Determine concentrations between MW-13 (total well depth of 49.4 feet bgs at 3,800 µg/L) and WMW4.9S (total well depth of 46.75 feet bgs at 270 µg/L) to obtain additional data on the paleochannel and perchlorate impacts in the area. Surface water concentrations are 15 to 23 µg/L.
NERT4.71S1	60	50	4	40-50	Determine concentrations between WMW4.9S (total well depth of 46.75 feet bgs at 270 μ g/L) and proposed well NERT4.9-51S1 to obtain additional data on the paleochannel and perchlorate impacts in the area. Surface water concentrations are 15 to 44 μ g/L.
NERT4.51S1	60	50	4	40-50	Determine concentrations between proposed well NERT4.71S1 and LNDMW1 (total well depth of 61 feet bgs at 1,900 µg/L) to obtain additional data on the paleochannel and perchlorate impacts in the area. Surface water concentrations increase from 15 to 44 µg/L in this area.
NERT4.38N1	60	55	4	45-55	Determine concentrations west of LNDMW2 (total well depth of 55.05 feet bgs at 1,500 μg/L) to further characterize perchorate concentrations on the north side of LVW. Surface water concentrations increase from 15 to 44 μg/L in this area.
NERT4.21N1	60	55	4	45-55	Determine concentrations southeast of LNDMW2 (total well depth of 55.05 feet bgs at 1,500 μ g/L) to further characterize perchlorate impacts on the north side of LVW. Surface water concentrations increase from 15 to 44 μ g/L in this area.
NERT3.80S1	60	60	4	50-60	Determine concentrations between LNDMW1 (total well depth of 61 feet bgs at 1,900 µg/L) and WMW3.5S (total well depth of 59.8 feet bgs at 1,400 µg/L) on the south side of LVW to further characterize perchlorate impacts in the area. This well may also provide additional data regarding faulting in the area. Surface water concentrations are 35 to 50 µg/L.
Phase II Monitorin	g Wells				
NERT3.35S1	57	55.5	4	35 - 55	Determine concentrations about 280 feet east northeast of Phase II Well NERT3.40S1 on the south side of LVW to further characterize perchlorate impacts in groundwater between Three Kids weir and Rainbow Gardens Weir. This well may also provide additional information on faulting in the area. Surface water concentrations are 89 to 96 µg/L.
NERT3.40S1	65	55.5	4	35 - 55	Determine concentrations south of the warm anomaly that was identified 180 feet east northeast of transect T3.5. Surface water concentrations are 90 µg/L in this area.
NERT3.58N1	62	60.5	4	40 - 60	Determine concentrations about 200 feet northeast of Phase II Well NERT3.60N1 on the north side of LVW. Surface water concentrations are 200 µg/L.
NERT3.58S1	70	55.5	4	35 - 55	Determine concentrations upgradient and on the south side of Three Kids Weir, west-southwest of WMW3.5S (total well depth of 59.8 feet bgs at 1,500 $\mu g/L$) on the south side of LVW to further characterize perchlorate impacts in groundwater near the former K67 seep. To also evaluate groundwater/surface water interactions in this area. This well may also provide additional data regarding faulting in the area. Surface water concentrations are 53 and 980 $\mu g/L$. The concentration in the channel near the former seep is 1600 ug/L.
NERT3.60N1	90	52.5	4	32 - 52	Determine concentrations on the south side of Homestead Weir to obtain additional data on perchlorate impacts between wells LVWPS-MW216 (total depth 20.6 feet bgs and 1,200 μg/L) and NERT3.80S1 (total well depth 20 feet bgs and 1,100 μg/L). Surface water concentrations are 44 μg/L.
NERT3.60S1	90	55.5	4	35 - 55	Determine concentrations upgradient and on the south side of Three Kids Weir. south-southwest of WMW3.5S (total well depth of 59.8 feet bgs at 1,500 μg/L) on the south side of LVW to further characterize perchlorate impacts in groundwater. This well may also provide additional data regarding faulting in the area. Surface water concentrations are 32 and 36 μg/L.

Table 2 Rational for Phase I and Phase II Groundwater Monitoring Wells

NERT RI - Downgradient Study Area Henderson, Nevada

Well ID	Borehole depth ⁽¹⁾	Well Depth in feet bgs	Well Diameter in inches	Well Screen in feet bgs	Rationale Based on Perchlorate Concentrations Detected in Groundwater and Surface Water Samples ⁽²⁾
NERT3.63S1	60	35.5	4	15 - 35	Determine concentrations east-northeast of well WMW3.5N (56 feet bgs at 320 µg/L) on the north side of LVW adjacent to Three Kids weir. Surface water concentrations are 200 µg/L.
NERT3.98S1	55	35.5	4	15 - 35	Determine concentrations on the north side of Calico Ridge Weir to obtain additional data on perchlorate impacts in the area. Surface water concentrations are 93 μg/L.
NERT4.64N1	90	45.5	4	25 - 45	Determine concentrations on the north side of Calico Ridge Weir between WMW4.9N (total well depth of 53 feet bgs at 680 μg/L) and well NERT4.38.N1 (total well depth 40.9 bgs and 1,400 μg/L) to obtain additional data on perchlorate impacts in the area. Surface water concentrations are 31 μg/L.
NERT4.64S1	56	55.5	4	35 - 55	Determine concentrations on the north side and upgradient of Calico Ridge Weir to obtain additional data on perchlorate impacts in the area.
NERT4.65N1	90	45.5	4	25 - 45	Determine perchlorate concentrations north of LVW and about 450 feet west and upgradient of Calico Ridge weir and south of well WMW4.9N (total well depth of 53 feet bgs and 680 µg/L).
NERT4.70N1	82	45.5	4	25 - 45	Determine concentrations southeast of Phase II Well NERT3.60S1 on the south side of LVW to further characterize perchlorate impacts. This well may also provide additional information on faulting in the area. Surface water concentrations are 53 and 980 μg/L. The concentration in the channel by the former seep is 1600 μg/L.
NERT4.71N1	90	45.5	4		Determine perchlorate concentrations between LVWPS-MW210A (total well depth of 55 feet bgs and 4,400 µg/L) and LVWPS-MM219 to further characterize this area of perchlorate impact south of Calico Ridge Weir. To evaluate surface water/groundwater interactions in this area. Surface water concentrations are 1,500 to 3,100 µg/L.
NERT4.71S2	55	55	4	34.5 - 54.5	Determine perchlorate concentrations between LVWPS-205B (total well depth of 84 feet and 2,800 µg/L) and LVWPS-MW210A (total well depth of 55 feet bgs and 4,400 µg/L) to further characterize this area of perchlorate impact south and about 400 feet upstream of Calico Ridge Weir. To evaluate groundwater concentrations in this area.

Notes:

µg/L = micrograms per liter

LVW = Las Vegas Wash

bgs = below ground surface

(1) Borehole depth was to intercept UMCf or other bedrock and was adjusted based on field conditions
(2) Expressions are from May 2018 and groundwater concentrations for Phase I wells (2) Surface water concentrations are from May 2018 and groundwater concentrations for Phase I wells are from April and May 2016, groundwater concentrations for Phase II wells are from July 2018.

Table 3 Transducer Installation Information NERT RI - Downgradient Study Area Henderson, Nevada

Well ID	Easting ⁽¹⁾	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Transducer Serial Number	Date Installed	Time Installed	Depth to Water Pre-Install (feet, TOC)	Depth to Water Post-Install (feet, TOC)	Groundwater Elevation (feet amsl)	Measured Depth of Well (feet, TOC)	Total Depth of Well ⁽²⁾ (feet, TOC)	Depth of Transducer (feet, TOC)	Elevation of Transducer (feet amsl)	Depth of Transducer Below Groundwater (feet)
AA-30	836125.80	26733691.92	1532.35	0042069913	4/29/2017	9:30	19.64	19.64	1512.71	34.10	34.37	32.15	1500.20	12.51
COH-2B1	832598.59	26733593.69	1546.95	0042069892	4/29/2017	16:18	16.37	16.37	1530.58	66.37	66.64	36.46	1510.49	20.09
LNDMW1	841145.67	26736145.45	1511.19	0042069896	4/30/2017	16:00	36.99	36.99	1474.2	61.62	61.89	56.94	1454.25	19.95
LNDMW2	840864.28	26737125.16	1501.98	0042069894	5/1/2017	12:54	34.46	34.46	1467.52	55.13	55.40	52.85	1449.13	18.39
MW-13	838306.91	26734740.22	1529.84	0042069903	5/1/2017	8:58	35.31	35.31	1494.53	49.55	49.82	47.64	1482.20	12.33
MW-20	840590.41	26735460.67	1512.54	0042069901	4/28/2017	11:20	32.99	33.00	1479.54	67.95	68.22	52.83	1459.71	19.82
NERT3.35S1 (3)	845391.59	26738372.78	1470.44	SN2103389	6/10/2019	12:30	16.81	16.16	1454.28	55.18	55.50	36.50	1433.94	20.34
NEK 13.3331	040001.00	20100012.10	1470.44	0142100000	8/12/2019	7:50	15.60	15.60	1454.84	55.18	55.50	36.50	1433.94	20.90
NEDT2 4004 ⁽³⁾	845198.15	26738206.49	1474.58	SN2103397	6/10/2019	13:00	38.23	38.23	1436.35	55.50	55.50	52.10	1422.48	13.87
NERT3.40S1 (3)	043190.13	20730200.49	1474.58	3112 103397	8/12/2019	8:50	38.12	38.12	1436.46	54.32	55.50	52.10	1422.48	13.98
NEDTO CONA (3)	844188.45	26738048.58	1474.38	SN2099333		14:35	39.60	39.6	1436.89	60.44	60.50	49.75	1426.74	10.15
NERT3.58N1 (3)	044100.43	207 30040.30		311/2099333	6/10/2019									
NEDTO 5004	044005.00	00707500 50	1476.49	CN10040400074	7/2/2019	8:05	39.51	39.51	1436.98	60.46	60.50	55.00	1421.49	15.49
NERT3.58S1	844695.30	26737583.50	1474.30	SN0042103374	8/12/2019	8:45	31.85	38.58	1435.72	55.3	55.50	50	1424.30	11.42
NERT3.60N1 (3)	844016.02	26737827.79	1483.08	SN2103394	6/10/2019	14:00	38.10	38.09	1444.99	51.31	52.50	48.62	1434.46	10.53
			1483.08	01/00/00/00	7/2/2019	9:50	38.09	38.58	1444.50	51.37	52.50	45.00	1438.08	6.42
NERT3.60S1	844579.55	26737409.27	1478.23	SN0042103390	8/12/2019	8:45	34.85	34.85	1443.38	55.30	55.50	50.00	1428.23	15.15
NERT3.63S1 (3)	844152.61	26737071.55	1461.78	SN2103383	6/10/2019	13:20	18.71	18.71	1443.07	34.72	35.50	33.62	1428.16	14.91
			1461.78		6/27/2019	10:50	18.68	18.68	1443.10	34.83	35.50	30.00	1431.78	11.32
NERT3.80S1	843700.76	26736780.10	1460.54	0042081484	9/7/2018	9:55	10.62	10.62	1449.916	19.40	19.67	17.50	1443.04	6.88
NERT3.98S1 (3)	842522.48	26736678.95	1466.27	SN2103375	6/10/2019	14:05	10.63	10.61	1455.66	34.93	35.50	30.65	1435.62	20.04
			1466.27		6/29/2019	13:05	10.66	10.66	1455.61	34.93	35.50	30.00	1436.27	19.34
NERT4.21N1	841309.13	26736954.70	1502.07	0042081156	9/7/2018	8:10	35.54	35.54	1466.53	54.61	54.88	53.00	1449.07	17.46
NERT4.38N1	840337.59	26737140.64	1505.04	0042087052	9/7/2018	7:15	32.85	32.87	1472.17	39.51	39.78	37.50	1467.54	4.63
NERT4.51S1	840138.03	26735857.15	1506.24	0042081153	9/7/2018	10:25	26.31	26.31	1479.93	50.00	50.27	46.00	1460.24	19.69
NERT4.64N1 ⁽³⁾	839271.62	26736269.47	1511.58	SN0042103377	6/10/2019	15:00	23.19	23.18	1488.40	45.17	45.50	43.05	1468.53	19.87
			1511.58		7/2/2019	13:50	23.20	23.20	1488.38	45.25	45.50	40.00	1471.58	16.80
NERT4.64S1 ⁽³⁾	839508.39	26735740.74	1513.00	SN2099355	8/12/2019	12:45	27.06	27.06	1485.94	55.20	55.50	50.00	1463.00	22.94
NERT4.65N1 (3)	839107.82	26736244.72	1513.01	SN2103021	6/10/2019	15:30	24.18	24.17	1488.84	45.51	45.50	44.13	1468.88	19.96
			1513.01		7/8/2019	12:40	24.19	24.19	1488.82	45.5	45.50	40.00	1473.01	15.81
NERT4.70N1 (3)	838871.67	26736143.64	1514.91	SN2012672	6/10/2019	15:50	25.06	25.05	1489.86	45.03	45.50	42.96	1471.95	17.91
			1514.91		7/9/2019	12:00	25.08	25.08	1489.83	45.03	45.50	40.00	1474.91	14.92
NERT4.71N1	838600.29	26736123.87	1518.72	SN2103382	8/13/2019	14:10	27.80	27.80	1490.92	45.30	45.50	45.00	1473.72	17.20
NERT4.71S1	838991.63	26735349.66	1519.29	0042086019	9/7/2018	11:10	28.87	28.86	1490.43	46.73	45.50	44.75	1474.54	15.89
NERT4.71S2 ⁽³⁾	838770.32	26735408.27	1518.22	SN2102696	6/10/2019	13:40	27.31	27.31	1490.91	54.35	55.00	47.46	1470.76	20.15
NEITH-1102	333.13.02	20.00.00.2.	1518.22	5.12.102000	7/1/2019	9:30	27.30	27.30	1490.92	54.40	55.00	50.00	1468.22	22.70
NERT4.93S1	837979.18	26734990.31	1523.33	0042087067	9/7/2018	11:50	27.57	27.57	1495.762	54.05	54.32	47.00	1476.33	19.43
NERT5.11S1	837144.38	26734881.04	1522.88	0042086183	9/7/2018	12:15	20.80	20.80	1502.075	44.75	45.02	40.00	1482.88	19.20
NERT5.49S1	835451.85	26734325.76	1543.37	0042086023	9/6/2018	15:15	26.90	26.90	1516.469	39.75	40.02	37.75	1505.62	10.85
NERT5.91S1	833571.59	26733845.83	1536.76	0042080023	9/6/2018	14:15	12.87	12.85	1523.908	49.70	49.97	33.00	1503.76	20.15
PC-74	829203.19	26734003.83	1565.32	0042067239	4/30/2017	11:15	11.33	11.34	1553.98	48.44	48.71	31.52	1533.80	20.18
PC-74 PC-77	829031.31	26733568.45	1566.86	0042067239	4/30/2017	12:15	6.73	6.73	1560.13	38.90	39.17	27.00	1539.86	20.16
WMW3.5N	843836.97	26737791.35	1482.54	0042063359	5/1/2017	11:00	35.62	35.62	1446.92	55.90	56.17	53.78	1428.76	18.16
WMW3.5S	844697.76	26737275.90	1483.54	0042065098	5/2/2017	8:49	43.66	43.68	1439.86	59.99	60.26	57.69	1425.85	14.01
WMW4.9N	838408.40	26736756.98	1523.37	0042069885	5/1/2017	12:00	31.79	31.81	1491.56	53.02	53.29	50.88	1472.50	19.07
WMW4.9S	838411.85	26735290.15	1518.84	0042069899	4/30/2017	14:36	26.48	26.45	1492.39	46.81	47.08	44.25	1474.59	17.80
WMW4.9S (Barologger)	838411.85	26735290.15	1518.84	0012069737	4/30/2017	14:36	26.48	26.45	1492.39	46.81	47.08	5.17	1513.67	21.28 (above GW)
WMW5.58S	834576.71	26733888.85	1537.34	0042069897	9/6/2018	13:45	17.04	17.01	1520.33	47.83	48.10	37.00	1500.34	19.99
WMW5.58SI	835070.11	26734647.03	1526.08	0042069897	4/29/2017	11:45	9.37	9.38	1516.7	41.08	41.35	29.77	1496.31	20.39
WMW5.5S	835768.11	26733971.74	1528.22	0042069900	4/29/2017	10:30	14.69	14.69	1513.53	38.29	38.56	34.75	1493.47	20.06
WMW5.7N	834471.76	26734425.52	1528.50	0042069904	5/1/2017	14:22	8.31	8.29	1520.21	21.01	21.28	18.83	1509.67	10.54
WMW6.15N	832493.06	26735359.77	1552.55	0042069891	5/1/2017	15:12	22.35	22.35	1530.2	38.79	39.06	36.38	1516.18	14.03
WMW6.55S	830218.73	26734351.02	1559.25	0042069889	4/30/2017	9:13	15.99	16.00	1543.25	40.69	40.96	36.00	1523.25	20.00
WMW6.9N	828913.10	26735560.65	1573.16	0042068798	5/1/2017	15:50	18.18	18.21	1554.95	48.59	48.86	37.94	1535.22	19.73
		i .	i .	1		i	i .	i .	i .	i .	1			1

Table 3

Transducer Installation Information

NERT RI - Downgradient Study Area Henderson, Nevada

Well ID	Easting ⁽¹⁾	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Transducer Serial Number	Date Installed	Time Installed	Depth to Water Pre-Install (feet, TOC)	Depth to Water Post-Install (feet, TOC)	Groundwater Elevation (feet amsl)	Measured Depth of Well (feet, TOC)	Well ⁽²⁾	Depth of Transducer (feet, TOC)	Elevation of Transducer (feet amsl)	Depth of Transducer Below Groundwater (feet)
							(leet, 100)	(leet, 100)	(leet allisi)	(leet, loc)	(feet, TOC)	100)	(leet allisi)	(leet)
WMW6.9S	828430.55	26734539.19	1570.60	0042067219	4/30/2017	9:55	11.04	11.04	1559.56	51.36	51.63	31.03	1539.57	19.99

Notes:

- (1) Well coordinates and elevations surveyed by licensed surveyor (Stanley) April 4 through 8, 2016. Coordinate system: State Plane Coordinate System; Elevations are referenced to the North American Datum (NAD) 83 Nevada East Zone (2701) with vertical datum based on NAVD 88 referenced to the City of Henderson Benchmark network.
- (2) Total well depth accounts for an additional 0.27 feet from the tip of the sounder to the end of the probe. amsl = above mean sea level
- (3) Transducer initially installed with nylon rope. Second installation readings taken after nylon rope was replaced by Kevlar rope.

TOC = top of casing (measurements were obtained from the reference mark on the casing or from the north side of the casing if a mark was not present)

Well ID	Easting (1)	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Date Gauged	Time Gauged	Depth to Water (feet, TOC) (2)	Groundwater Elevation (feet amsl)
AA-30	836125.80	26733691.92	1532.35	4/29/2017	9:30	19.64	1512.71
AA-30	836125.80	26733691.92	1532.35	6/1/2017	10:01	19.68	1512.67
AA-30	836125.80	26733691.92	1532.35	7/11/2017	12:04	19.71	1512.64
AA-30	836125.80	26733691.92	1532.35	8/2/2017	11:08	19.49	1512.86
AA-30	836125.80	26733691.92	1532.35	9/6/2017	11:10	19.50	1512.85
AA-30	836125.80	26733691.92	1532.35	10/3/2017	11:55	19.33	1513.02
AA-30	836125.80	26733691.92	1532.35	11/1/2017	13:08	19.41	1512.94
AA-30	836125.80	26733691.92	1532.35	3/20/2018	13:17	20.58	1511.77
AA-30	836125.80	26733691.92	1532.35	5/9/2018	15:25	21.02	1511.33
AA-30	836125.80	26733691.92	1532.35	7/13/2018	8:32	18.55	1513.80
AA-30 AA-30	836125.80 836125.80	26733691.92 26733691.92	1532.35 1532.35	9/5/2018 11/9/2018	13:58 9:43	19.19 19.06	1513.16 1513.29
AA-30	836125.80	26733691.92	1532.35	1/9/2019	11:42	19.39	1512.96
AA-30	836125.80	26733691.92	1532.35	7/8/2019	9:55	19.08	1513.27
AA-30	836125.80	26733691.92	1532.35	8/13/2019	10:35	19.01	1513.34
COH-2B1	832598.59	26733593.69	1546.95	4/29/2017	16:18	16.37	1530.58
COH-2B1	832598.59	26733593.69	1546.95	6/2/2017	8:32	16.52	1530.43
COH-2B1	832598.59	26733593.69	1546.95	7/11/2017	15:01	16.56	1530.39
COH-2B1	832598.59	26733593.69	1546.95	8/2/2017	11:55	16.57	1530.38
COH-2B1	832598.59	26733593.69	1546.95	9/6/2017	12:16	16.71	1530.24
COH-2B1	832598.59	26733593.69	1546.95	10/3/2017	12:36	16.66	1530.29
COH-2B1	832598.59	26733593.69	1546.95	11/1/2017	13:23	16.72	1530.23
COH-2B1	832598.59	26733593.69	1546.95	3/20/2018	13:53	16.15	1530.80
COH-2B1	832598.59	26733593.69	1546.95	5/9/2018	15:10	16.32	1530.63
COH-2B1	832598.59	26733593.69	1546.95	7/13/2018	6:51	16.21	1530.74
COH-2B1	832598.59	26733593.69	1546.95	9/5/2018	12:36	16.34	1530.61
COH-2B1	832598.59	26733593.69	1546.95	11/7/2018	10:06	16.36	1530.59
COH-2B1	832598.59	26733593.69	1546.95	1/10/2019	13:16	16.59	1530.36
COH-2B1	832598.59	26733593.69	1546.95	7/3/2019	45.00	16.73	1530.22
COH-2B1	832598.59	26733593.69	1546.95	8/12/2019	15:00	16.74	1530.21
LNDMW1 LNDMW1	841145.67 841145.67	26736145.45 26736145.45	1511.19	4/30/2017 6/1/2017	16:00 9:02	36.99 37.00	1474.20
LNDMW1	841145.67	26736145.45	1511.19 1511.19	7/11/2017	10:46	37.00	1474.19 1474.18
LNDMW1	841145.67	26736145.45	1511.19	8/2/2017	10:12	36.98	1474.10
LNDMW1	841145.67	26736145.45	1511.19	9/6/2017	9:50	37.00	1474.19
LNDMW1	841145.67	26736145.45	1511.19	10/3/2017	9:49	37.03	1474.16
LNDMW1	841145.67	26736145.45	1511.19	11/1/2017	11:41	37.03	1474.16
LNDMW1	841145.67	26736145.45	1511.19	3/20/2018	11:57	36.89	1474.30
LNDMW1	841145.67	26736145.45	1511.19	5/10/2018	12:26	36.92	1474.27
LNDMW1	841145.67	26736145.45	1511.19	7/11/2018	9:46	36.68	1474.51
LNDMW1	841145.67	26736145.45	1511.19	9/5/2018	14:38	36.94	1474.25
LNDMW1	841145.67	26736145.45	1511.19	11/6/2018	14:39	36.89	1474.30
LNDMW1	841145.67	26736145.45	1511.19	1/9/2019	13:04	36.79	1474.40
LNDMW1	841145.67	26736145.45	1511.19	6/28/2019		36.81	1474.38
LNDMW1	841145.67	26736145.45	1511.19	8/12/2019	10:20	36.73	1474.46
LNDMW2	840864.28	26737125.16	1501.98	5/1/2017	12:54	34.46	1467.52
LNDMW2	840864.28	26737125.16	1501.98	6/1/2017	11:46	34.44	1467.54
LNDMW2	840864.28	26737125.16	1501.98	7/12/2017	9:49	34.39	1467.59
LNDMW2 LNDMW2	840864.28 840864.28	26737125.16 26737125.16	1501.98 1501.98	8/3/2017 9/7/2017	9:16 9:16	34.39 34.43	1467.59 1467.55
LNDMW2	840864.28	26737125.16	1501.98	10/4/2017	9:32	34.49	1467.49
LNDMW2	840864.28	26737125.16	1501.98	11/2/2017	9:36	34.52	1467.46
LNDMW2	840864.28	26737125.16	1501.98	3/21/2018	Well Locked	J4.J2 	
LNDMW2	840864.28	26737125.16	1501.98	5/9/2018	7:18	34.43	1467.55
LNDMW2	840864.28	26737125.16	1501.98	7/17/2018	10:16	34.22	1467.76
LNDMW2	840864.28	26737125.16	1501.98	9/5/2018	7:50	34.41	1467.57
LNDMW2	840864.28	26737125.16	1501.98	11/6/2018	9:34	34.43	1467.55
LNDMW2	840864.28	26737125.16	1501.98	1/10/2019	8:57	34.41	1467.57
LNDMW2	840864.28	26737125.16	1501.98	7/5/2019		34.31	1467.67
LNDMW2	840864.28	26737125.16	1501.98	8/13/2019	13:05	34.19	1467.79
MW-13	838306.91	26734740.22	1529.84	5/1/2017	8:58	35.31	1494.53
MW-13	838306.91	26734740.22	1529.84	6/1/2017	8:17	35.29	1494.55
MW-13	838306.91	26734740.22	1529.84	7/11/2017	9:31	35.26	1494.58
MW-13	838306.91	26734740.22	1529.84	8/2/2017	8:37	35.17	1494.67
MW-13	838306.91	26734740.22	1529.84	9/6/2017	8:40	35.13	1494.71
MW-13	838306.91	26734740.22	1529.84	10/3/2017	8:40	35.13	1494.71
MW-13 MW-13	838306.91	26734740.22	1529.84 1529.84	11/1/2017	10:01	35.16 	1494.68
MW-13	838306.91 838306.91	26734740.22 26734740.22	1529.84	3/21/2018 5/10/2018	No Access 7:40	35.87	1493.97
MW-13	838306.91	26734740.22	1529.84	7/12/2018	7:40 8:01	35.87	1493.97
MW-13	838306.91	26734740.22	1529.84	9/6/2018	11:18	35.19	1494.65
MW-13	838306.91	26734740.22	1529.84	11/9/2018	11:50	35.20	1494.64
MW-13	838306.91	26734740.22	1529.84	1/9/2019	13:46	35.24	1494.60
MW-13	838306.91	26734740.22	1529.84	6/28/2019	10.70	35.24	1494.60
MW-13	838306.91	26734740.22	1529.84	8/13/2019	11:15	35.10	1494.74
MW-20	840590.41	26735460.67	1512.54	4/28/2017	11:20	33.00	1479.54
MW-20	840590.41	26735460.67	1512.54	6/1/2017	8:39	32.99	1479.55
MW-20	840590.41	26735460.67	1512.54	7/11/2017	10:05	33.05	1479.49

Well ID	Easting (1)	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Date Gauged	Time Gauged	Depth to Water (feet, TOC) (2)	Groundwater Elevation (feet amsl)
MW-20	840590.41	26735460.67	1512.54	8/2/2017	9:35	32.95	1479.59
MW-20	840590.41	26735460.67	1512.54	9/6/2017	9:20	32.39	1480.15
MW-20	840590.41	26735460.67	1512.54	10/3/2017	9:16	32.88	1479.66
MW-20	840590.41	26735460.67	1512.54	11/1/2017	9:16	32.94	1479.60
MW-20	840590.41	26735460.67	1512.54	3/21/2018	No Access		
MW-20	840590.41	26735460.67	1512.54	5/10/2018	8:05	32.81	1479.73
MW-20	840590.41	26735460.67	1512.54	7/12/2018	14:03	32.70	1479.84
MW-20	840590.41	26735460.67	1512.54	9/6/2018	11:44	32.85	1479.69
MW-20	840590.41	26735460.67	1512.54	11/9/2018	11:36	32.85	1479.69
MW-20	840590.41	26735460.67	1512.54	1/9/2019	13:27	32.68	1479.86
MW-20 MW-20	840590.41 840590.41	26735460.67 26735460.67	1512.54 1512.54	6/28/2019 8/13/2019	10:55	32.64 32.66	1479.90 1479.88
NERT3.35S1	845391.59	26738372.78	1470.44	6/10/2019	12:30	16.16	1454.28
NERT3.35S1	845391.59	26738372.78	1470.44	8/12/2019	7:50	15.60	1454.84
NERT3.40S1	845198.15	26738206.49	1474.58	6/10/2019	13:00	38.23	1436.35
NERT3.40S1	845198.15	26738206.49	1474.58	6/26/2019		38.25	1436.33
NERT3.40S1	845198.15	26738206.49	1474.58	8/12/2019	8:05	38.12	1436.46
NERT3.58N1	844188.45	26738048.58	1476.50	6/10/2019	14:35	39.60	1436.90
NERT3.58N1	844188.45	26738048.58	1476.50	7/2/2019	8:50	39.51	1436.99
NERT3.58N1	844188.45	26738048.58	1476.50	8/13/2019	11:55	39.89	1436.61
NERT3.58S1	844695.30	26737583.50	1474.30	8/12/2019	8:45	38.58	1435.72
NERT3.58S1	844695.30	26737583.50	1474.30	8/15/2019	9:05	34.88	1439.42
NERT3.60N1	844016.02	26737827.79	1483.08	6/10/2019	14:00	38.09	1444.99
NERT3.60N1	844016.02	26737827.79	1483.08	7/2/2019	9:50	38.58	1444.50
NERT3.60N1	844016.02	26737827.79	1483.08	8/13/2019	12:05	38.04	1445.04
NERT3.60S1	844579.55	26737409.27	1478.23	8/15/2019	9:00	38.58	1439.65
NERT3.63S1	844152.61 844152.61	26737071.55 26737071.55	1461.78	6/10/2019 6/27/2019	13:20	18.71	1443.07
NERT3.63S1 NERT3.63S1	844152.61 844152.61	26737071.55	1461.78 1461.78	8/12/2019	10:50 9:35	18.68 18.59	1443.10 1443.19
NERT3.80S1	843700.76	26736780.10	1460.54	9/7/2018	9:55	10.62	1449.92
NERT3.80S1	843700.76	26736780.10	1460.54	11/6/2018	14:21	10.61	1449.93
NERT3.80S1	843700.76	26736780.10	1460.54	1/9/2019	14:50	10.31	1450.23
NERT3.80S1	843700.76	26736780.10	1460.54	6/27/2019	14.00	10.48	1450.06
NERT3.80S1	843700.76	26736780.10	1460.54	8/12/2019	9:50	10.41	1450.13
NERT3.98S1	842522.48	26736678.95	1466.27	6/10/2019	14:05	10.61	1455.66
NERT3.98S1	842522.48	26736678.95	1466.27	6/27/2019		10.67	1455.60
NERT3.98S1	842522.48	26736678.95	1466.27	6/29/2019	13:05	10.66	1455.61
NERT3.98S1	842522.48	26736678.95	1466.27	8/12/2019	10:00	10.58	1455.69
NERT4.21N1	841309.13	26736954.70	1502.07	9/7/2018	8:10	35.54	1466.53
NERT4.21N1	841309.13	26736954.70	1502.07	11/6/2018	9:08	35.54	1466.53
NERT4.21N1	841309.13	26736954.70	1502.07	1/9/2019	8:16	35.53	1466.54
NERT4.21N1	841309.13	26736954.70	1502.07	7/2/2019		35.38	1466.69
NERT4.21N1	841309.13	26736954.70	1502.07	8/13/2019	12:25	35.30	1466.77
NERT4.38N1	840337.59 840337.59	26737140.64	1505.04	9/7/2018	7:15	32.85	1472.19
NERT4.38N1 NERT4.38N1	840337.59	26737140.64 26737140.64	1505.04 1505.04	11/7/2018 1/9/2019	7:09 8:41	32.82 32.72	1472.22 1472.32
NERT4.38N1	840337.59	26737140.64	1505.04	7/2/2019	0.41	32.61	1472.43
NERT4.38N1	840337.59	26737140.64	1505.04	8/13/2019	12:45	32.55	1472.49
NERT4.51S1	840138.03	26735857.15	1506.24	9/7/2018	10:25	26.31	1479.93
NERT4.51S1	840138.03	26735857.15	1506.24	11/9/2018	10:57	26.30	1479.94
NERT4.51S1	840138.03	26735857.15	1506.24	1/9/2019	12:50	26.18	1480.06
NERT4.51S1	840138.03	26735857.15	1506.24	6/27/2019		26.17	1480.07
NERT4.51S1	840138.03	26735857.15	1506.24	8/12/2019	12:25	26.12	1480.12
NERT4.64N1	839271.62	26736269.47	1511.58	6/10/2019	15:00	23.18	1488.40
NERT4.64N1	839271.62	26736269.47	1511.58	7/2/2019	13:50	23.20	1488.38
NERT4.64N1	839271.62	26736269.47	1511.58	8/13/2019	13:25	23.09	1488.49
NERT4.64S1	839508.39	26735740.74	1513.00	8/12/2019	12:45	27.06	1485.94
NERT4.64S1	839508.39	26735740.74	1513.00	8/15/2019	8:45	27.08	1485.92
NERT4.65N1	839107.82 839107.82	26736244.72 26736244.72	1513.01	6/10/2019	15:30	24.17	1488.84
NERT4.65N1 NERT4.65N1	839107.82	26736244.72	1513.01 1513.01	7/8/2019 8/13/2019	12:40 13:35	24.19 24.11	1488.82 1488.90
NERT4.65N1	838871.67	26736143.64	1514.91	8/13/2019	13:45	24.11	1488.90
NERT4.70N1	838600.29	26736123.87	1514.91	8/13/2019	13:55	27.80	1490.92
NERT4.7181	838991.63	26735349.66	1519.29	9/7/2018	11:10	28.86	1490.43
NERT4.71S1	838991.63	26735349.66	1519.29	11/9/2018	10:45	28.86	1490.43
NERT4.71S1	838991.63	26735349.66	1519.29	1/9/2019	12:37	28.81	1490.48
NERT4.71S1	838991.63	26735349.66	1519.29	7/1/2019		28.83	1490.46
NERT4.71S1	838991.63	26735349.66	1519.29	8/12/2019	13:00	28.72	1490.57
NERT4.71S2	838770.32	26735408.27	1518.22	8/12/2019	13:10	27.20	1491.02
NERT4.93S1	837979.18	26734990.31	1523.33	9/7/2018	11:50	27.57	1495.76
NERT4.93S1	837979.18	26734990.31	1523.33	11/9/2018	10:21	28.59	1494.74
NERT4.93S1	837979.18	26734990.31	1523.33	1/9/2019	12:25	27.66	1495.67
NERT4.93S1	837979.18	26734990.31	1523.33	7/1/2019		27.60	1495.73
NERT4.93S1	837979.18	26734990.31	1523.33	8/12/2019	13:25	27.46	1495.87
NERT5.11S1	837144.38	26734881.04	1522.88	9/7/2018	12:15	20.80	1502.08
NERT5.11S1	837144.38	26734881.04	1522.88	11/9/2018	10:06	20.92	1501.96
NERT5.11S1	837144.38	26734881.04	1522.88	1/9/2019	12:10	21.04	1501.84
NERT5.11S1	837144.38	26734881.04	1522.88	7/1/2019	1	20.81	1502.07

Well ID	Easting (1)	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Date Gauged	Time Gauged	Depth to Water (feet, TOC) ⁽²⁾	Groundwater Elevation (feet amsl)
NERT5.11S1	837144.38	26734881.04	1522.88	8/12/2019	13:50	20.73	1502.15
NERT5.49S1	835451.85	26734325.76	1543.37	9/6/2018	15:15	26.90	1516.47
NERT5.49S1	835451.85	26734325.76	1543.37	11/9/2018	9:31	27.19	1516.18
NERT5.49S1	835451.85	26734325.76	1543.37	1/9/2019	11:16	27.44	1515.93
NERT5.49S1	835451.85	26734325.76	1543.37	7/8/2019		26.71	1516.66
NERT5.49S1	835451.85	26734325.76	1543.37	8/12/2019	14:05	26.77	1516.60
NERT5.91S1	833571.59	26733845.83	1536.76	9/6/2018	14:15	12.85	1523.91
NERT5.91S1	833571.59	26733845.83	1536.76	11/7/2018	10:22	13.02	1523.74
NERT5.91S1	833571.59	26733845.83	1536.76	1/9/2019	11:01	13.98	1522.78
NERT5.91S1	833571.59	26733845.83	1536.76	7/1/2019		13.32	1523.44
NERT5.91S1	833571.59	26733845.83	1536.76	8/12/2019	14:45	13.29	1523.47
PC-74	829203.19	26734003.83	1565.32	4/30/2017	11:15	11.34	1553.98
PC-74	829203.19	26734003.83	1565.32	6/2/2017	10:26	11.57	1553.75
PC-74	829203.19	26734003.83	1565.32	7/11/2017	16:16	11.81	1553.51
PC-74	829203.19	26734003.83	1565.32	8/2/2017	13:46	11.49	1553.83
PC-74	829203.19	26734003.83	1565.32 1565.32	9/6/2017	13:47 13:49	11.54	1553.78
PC-74	829203.19	26734003.83		10/3/2017		11.35	1553.97
PC-74	829203.19	26734003.83	1565.32 1565.32	11/1/2017	14:06	11.30	1554.02
PC-74	829203.19	26734003.83		3/20/2018	14:50	10.77	1554.55
PC-74 PC-74	829203.19	26734003.83 26734003.83	1565.32	5/9/2018	14:32 13:07	11.35 11.61	1553.97
PC-74 PC-74	829203.19 829203.19	26734003.83	1565.32 1565.32	7/18/2018 9/5/2018	13:13	11.20	1553.71 1554.12
PC-74 PC-74	829203.19	26734003.83	1565.32	11/7/2018	8:34	10.95	1554.37
PC-74 PC-74	829203.19	26734003.83	1565.32	1/9/2019	10:17	10.95	1554.40
PC-74 PC-74	829203.19	26734003.83	1565.32	8/13/2019	9:45	11.37	1553.95
PC-77	829031.31	26733568.45	1566.86	4/30/2017	12:15	6.73	1560.13
PC-77	829031.31	26733568.45	1566.86	6/2/2017	9:01	7.10	1559.76
PC-77	829031.31	26733568.45	1566.86	7/12/2017	7:02	7.66	1559.20
PC-77	829031.31	26733568.45	1566.86	8/2/2017	14:20	7.10	1559.76
PC-77	829031.31	26733568.45	1566.86	9/6/2017	15:06	7.10	1559.76
PC-77	829031.31	26733568.45	1566.86	10/3/2017	14:57	6.84	1560.02
PC-77	829031.31	26733568.45	1566.86	11/1/2017	14:35	6.78	1560.08
PC-77	829031.31	26733568.45	1566.86	3/20/2018	15:28	5.58	1561.28
PC-77	829031.31	26733568.45	1566.86	5/9/2018	14:02	6.54	1560.32
PC-77	829031.31	26733568.45	1566.86	7/18/2018	12:38	6.93	1559.93
PC-77	829031.31	26733568.45	1566.86	9/5/2018	13:40	6.39	1560.47
PC-77	829031.31	26733568.45	1566.86	11/7/2018	8:51	5.96	1560.90
PC-77	829031.31	26733568.45	1566.86	1/9/2019	10:01	5.95	1560.91
PC-77	829031.31	26733568.45	1566.86	5/6/2019	7:42	6.39	1560.47
PC-77	829031.31	26733568.45	1566.86	5/7/2019	10:00	6.82	1560.04
PC-77	829031.31	26733568.45	1566.86	8/13/2019	9:25	6.64	1560.22
WMW3.5N	843836.97	26737791.35	1482.54	5/1/2017	11:00	35.62	1446.92
WMW3.5N	843836.97	26737791.35	1482.54	6/2/2017	12:08	35.65	1446.89
WMW3.5N	843836.97	26737791.35	1482.54	7/12/2017	9:10	35.65	1446.89
WMW3.5N	843836.97	26737791.35	1482.54	8/3/2017	8:31	35.61	1446.93
WMW3.5N	843836.97	26737791.35	1482.54	9/7/2017	8:10	35.49	1447.05
WMW3.5N	843836.97	26737791.35	1482.54	10/4/2017	Well Locked		
WMW3.5N	843836.97	26737791.35	1482.54	11/2/2017	8:56	35.38	1447.16
WMW3.5N	843836.97	26737791.35	1482.54	3/21/2018	Well Locked		-
WMW3.5N	843836.97	26737791.35	1482.54	5/9/2018	Well Locked		
WMW3.5N	843836.97	26737791.35	1482.54	7/17/2018	7:38	35.17	1447.37
WMW3.5N	843836.97	26737791.35	1482.54	9/5/2018	7:31	35.32	1447.22
WMW3.5N WMW3.5N	843836.97 843836.97	26737791.35 26737791.35	1482.54 1482.54	11/5/2018 1/10/2019	8:44 8:33	35.24 35.15	1447.30 1447.39
WMW3.5N	843836.97	26737791.35	1482.54	2/26/2019	0.33	35.15 34.97	1447.57
WMW3.5N	843836.97	26737791.35	1482.54	5/29/2019		35.21	1447.33
WMW3.5N	843836.97	26737791.35	1482.54	7/5/2019		35.21	1447.23
WMW3.5N	843836.97	26737791.35	1482.54	8/13/2019	12:15	35.17	1447.23
WMW3.5S	844697.76	26737275.90	1483.54	5/2/2017	8:49	43.68	1439.86
WMW3.5S	844697.76	26737275.90	1483.54	6/1/2017	7:52	43.62	1439.92
WMW3.5S	844697.76	26737275.90	1483.54	7/11/2017	8:46	43.62	1439.92
WMW3.5S	844697.76	26737275.90	1483.54	8/2/2017	9:09	43.64	1439.90
WMW3.5S	844697.76	26737275.90	1483.54	9/6/2017	8:05	43.58	1439.96
WMW3.5S	844697.76	26737275.90	1483.54	10/3/2017	8:03	43.69	1439.85
WMW3.5S	844697.76	26737275.90	1483.54	11/1/2017	8:37	43.69	1439.85
WMW3.5S	844697.76	26737275.90	1483.54	3/20/2018	10:38	43.57	1439.97
WMW3.5S	844697.76	26737275.90	1483.54	5/10/2018	8:43	43.55	1439.99
WMW3.5S	844697.76	26737275.90	1483.54	7/16/2018	7:20	43.31	1440.23
WMW3.5S	844697.76	26737275.90	1483.54	9/6/2018	10:49	43.62	1439.92
WMW3.5S	844697.76	26737275.90	1483.54	11/6/2018	13:05	43.64	1439.90
WMW3.5S	844697.76	26737275.90	1483.54	1/9/2019	14:03	43.49	1440.05
WMW3.5S	844697.76	26737275.90	1483.54	6/28/2019		43.58	1439.96
WMW3.5S	844697.76	26737275.90	1483.54	8/13/2019	11:35	43.55	1439.99
WMW4.9N	838408.40	26736756.98	1523.37	5/1/2017	12:00	31.81	1491.56
WMW4.9N	838408.40	26736756.98	1523.37	6/1/2017	12:10	31.79	1491.58
WMW4.9N	838408.40	26736756.98	1523.37	7/12/2017	10:18	31.74	1491.63
WMW4.9N	838408.40	26736756.98	1523.37	8/3/2017	9:47	31.71	1491.66
	838408.40	26736756.98	1523.37	9/7/2017	10:40	31.71	1491.66

MANAYAN 838406-40 2077676-68 1923-37 10402017 10.16 31.74 1491-62 MANAYAN 838406-40 2077676-68 1523-37 3212018 9.28 31.56 1491-41 1491-62 MANAYAN 838406-40 2077676-68 1523-37 3212018 9.28 31.56 1491-41 1491-62 MANAYAN 838406-40 2077676-68 1523-37 3212018 9.28 31.56 1491-41 1491-62 14	Well ID	Easting (1)	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Date Gauged	Time Gauged	Depth to Water (feet, TOC) ⁽²⁾	Groundwater Elevation (feet amsl)
WMMVA N. 888064-00 2677676-98 1523-37 5070018 7.46 32.10 101141 WMMVA N. 888064-00 2677676-98 1523-37 5070018 7.46 32.10 101141 WMMVA N. 888064-00 2677676-98 1523-37 77775018 11377 31.59 1461.79 1	WMW4.9N	838408.40	26736756.98	1523.37	10/4/2017	10:16	31.74	
WMMVA N. 888064-00 2677676-98 1523-37 5070018 7.46 32.10 101141 WMMVA N. 888064-00 2677676-98 1523-37 5070018 7.46 32.10 101141 WMMVA N. 888064-00 2677676-98 1523-37 77775018 11377 31.59 1461.79 1								
WAMMAN BSB408-80 26758756-88 1523.37 77172018 11.37 31.58 1491.79 1491.01 14								
WAMMAN 838408.04 26736756.08 1523.37 16702016 8.26 31.70 1491.61 WAMMAN 838408.04 26736756.08 1523.37 17022019 9.16 31.76 1491.61 WAMMAN 838408.04 26736756.08 1523.37 17022019 9.16 31.62 1491.61 WAMMAN 838408.04 26736756.08 1523.37 27222019 31.62 1491.61 WAMMAN 838408.04 26736756.08 1523.37 27222019 31.62 1491.61 WAMMAN 838408.04 26736756.08 1523.37 27222019 31.62 WAMMAN 838408.04 26736756.08 1523.37 27222019 31.00 1491.67 WAMMAN 838408.04 26736756.08 1523.37 27722019 31.00 1491.67 WAMMAN 838408.04 26736756.08 1523.37 27722019 14.15 26.24 1492.29 WAMMAN 838408.04 26736756.08 1523.37 87322019 14.15 26.24 1492.29 WAMMAN 838408.04 26736200.15 1518.04 40202017 14.36 26.45 1492.29 WAMMAN 838408.04 26736200.15 1518.04 40202017 14.36 26.45 1492.29 WAMMAN 838408.04 26736200.15 1518.04 40202017 12.12 26.59 1492.24 WAMMAN 838408.04 26736200.15 1518.04 40202017 12.12 26.59 1492.24 WAMMAN 838408.04 26736200.15 1518.04 40202017 12.12 26.59 1492.24 WAMMAN 838408.04 26736200.15 1518.04 16022017 12.12 26.59 1492.24 WAMMAN 838408.04 26736200.15 1518.04 16022017 12.12 26.59 1492.24 WAMMAN 838408.04 26736200.15 1518.04 16022017 10.23 26.35 1492.24 WAMMAN 838408.04 26736200.15 1518.04 16022017 10.23 26.24 1492.24 WAMMAN 838408.04 26736200.15 1518.04 16	WMW4.9N	838408.40	26736756.98	1523.37	5/9/2018	7:46	32.10	1491.27
MAMPA N	WMW4.9N	838408.40	26736756.98	1523.37	7/17/2018	11:37	31.58	1491.79
WAMMAN N. 838408.40 267787558.88 1523.37 1/10/2019 9:18 31.76 1491.51	WMW4.9N	838408.40	26736756.98	1523.37	9/5/2018	8:26	31.76	1491.61
MANNAM SN 838408.40 26758756.98 1523.37 22782019 31.62 1491.75 1491.50				1523.37		10:13		1491.62
WAMWA 9N 838004.04 26736756.08 1523.37 502002019 31.08 1491.09 1491.67 1491.65 1491.07 1491.65 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.07 1491.05 1491.05 1491.07 1491.05						9:18		
WAMWA SI								
WAMWA 98								
WMWW 95 838411.85 26735290.15 1518.84 4/302017 143.8 28.45 1492.20 WMW 95 838411.85 26735290.15 1518.84 06.22017 8.01 28.42 1492.42 WMW 95 838411.85 26735290.15 1518.84 97.11/2017 11.16 28.41 1492.43 WMW 95 838411.85 26735290.15 1518.84 98.20017 12.12 28.36 141.82 48 WMW 95 838411.85 26735290.15 1518.84 98.20017 10.16 28.45 1492.43 WMW 95 838411.85 26735290.15 1518.84 98.20017 10.16 28.35 1492.44 WMW 95 838411.85 26735290.15 1518.84 98.20017 10.16 28.35 1492.44 WMW 95 838411.85 26735290.15 1518.84 98.20017 10.16 28.35 1492.44 WMW 95 838411.85 26735290.15 1518.84 97.20018 12.25 26.81 1492.42 WMW 95 838411.85 26735290.15 1518.84 97.20018 12.25 26.81 1492.24 WMW 95 838411.85 26735290.15 1518.84 97.20018 12.25 26.81 1492.24 WMW 95 838411.85 26735290.15 1518.84 97.20018 12.25 26.81 1492.24 WMW 95 838411.85 26735290.15 1518.84 17.120018 12.31 28.20 1492.44 WMW 95 838411.85 26735290.15 1518.84 17.120018 12.31 28.20 1492.44 WMW 95 838411.85 26735290.15 1518.84 17.120018 12.31 28.20 1492.44 WMW 95 838411.85 26735290.15 1518.84 17.120018 10.33 26.42 1402.42 1402.42 WMW 95 838411.85 26735290.15 1518.84 17.120018 10.33 26.42 1402.42 1402.42 1402.42 1402.42 1402.43 1402.44 1402.43 1402.43 1402.43 1402.44 1402.43 140								
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WMW.5.5S	WMW5.58SI	834576.71	26733888.85	1537.34	1/25/2018	Well WMW5.585	SI destroyed, replaced	by WMW5.58S
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WMW5.7N 834471.76 26734425.52 1528.50 5/29/2019 8.23 1520.27 WMW5.7N 834471.76 26734425.52 1528.50 7/9/2019 8.42 1520.08 WMW5.7N 834471.76 26734425.52 1528.50 8/13/2019 14:45 8.41 1520.09 WMW6.15N 832493.06 26735359.77 1552.55 5/1/2017 15:12 22.35 1530.20	WMW5.5S WMW5.7N	835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 83471.76 834471.76 834471.76 834471.76 834471.76 834471.76	26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733972.74 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52	1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.50	6/1/2017 7/11/2017 8/2/2017 9/6/2017 9/6/2017 10/3/2017 11/1/2017 3/20/2018 5/9/2018 7/13/2018 9/5/2018 11/9/2018 11/9/2019 2/25/2019 6/28/2019 8/12/2017 6/2/2017 7/12/2017 8/3/2017 9/7/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2018 5/9/2018	12:55 11:31 10:35 11:22 12:31 13:01 15:38 9:46 14:07 9:55 11:31 14:20 14:22 11:46 11:16 10:16 11:21 Well Locked 10:22 10:05 8:05 13:10 8:50 10:56	14.71 14.64 14.71 14.67 14.78 15.91 16.56 13.55 14.16 14.20 14.45 13.86 13.89 13.96 8.29 8.36 8.22 8.32 8.46 8.61 9.07 9.51 8.36 5.58 8.69	1513.51 1513.58 1513.58 1513.51 1513.55 1513.44 1512.31 1511.66 1514.07 1514.06 1514.02 1513.77 1514.36 1514.33 1514.26 1520.21 1520.14 1520.28 1520.18 1520.18 1520.19 1519.89 1519.43 1519.89 1519.43 1519.89 1520.14 1522.92 1519.81
WMW5.7N 834471.76 26734425.52 1528.50 7/9/2019 8.42 1520.08 WMW5.7N 834471.76 26734425.52 1528.50 8/13/2019 14:45 8.41 1520.09 WMW6.15N 832493.06 26735359.77 1552.55 5/1/2017 15:12 22.35 1530.20	WMW5.5S WMW5.7N	835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 83471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76	26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52	1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.50	6/1/2017 7/11/2017 8/2/2017 9/6/2017 10/3/2017 11/1/2017 3/20/2018 5/9/2018 7/13/2018 11/9/2018 11/9/2018 11/9/2018 11/9/2019 2/25/2019 6/28/2019 8/12/2017 6/2/2017 6/2/2017 11/2/2017 10/4/2017 11/2/2017 10/4/2017 11/2/2017 3/21/2018 5/9/2018 7/17/2018 5/9/2018 7/17/2018 1/16/2018 1/16/2018 1/16/2019	12:55 11:31 10:35 11:22 12:31 13:01 15:38 9:46 14:07 9:55 11:31 14:20 14:22 11:46 11:16 10:16 11:21 Well Locked 10:22 10:05 8:05 13:10 8:50 10:56	14.71 14.64 14.71 14.67 14.78 15.91 16.56 13.55 14.16 14.20 14.45 13.86 13.89 13.96 8.29 8.36 8.22 8.32 8.46 8.61 9.07 9.51 8.36 5.58 8.69 8.74	1513.51 1513.58 1513.51 1513.55 1513.44 1512.31 1511.66 1514.67 1514.06 1514.02 1513.77 1514.36 1514.36 1514.36 1520.21 1520.14 1520.28 1520.14 1520.18 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1520.14 1519.89 1519.43 1519.89 1519.43 1519.99 1520.14 1522.92 1519.81
WMW5.7N 834471.76 26734425.52 1528.50 8/13/2019 14:45 8.41 1520.09 WMW6.15N 832493.06 26735359.77 1552.55 5/1/2017 15:12 22.35 1530.20	WMW5.5S WMW5.7N	835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 83471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76	26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52 26734425.52	1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.20 1528.50	6/1/2017 7/11/2017 8/2/2017 8/2/2017 9/6/2017 10/3/2017 11/1/2017 3/20/2018 5/9/2018 7/13/2018 9/5/2018 11/9/2018 11/9/2018 11/9/2019 2/25/2019 6/28/2019 8/12/2017 7/12/2017 8/3/2017 9/7/2017 10/4/2017 11/2/2017 3/21/2018 5/9/2018 7/17/2018 9/5/2018 1/10/2019 1/10/2019 1/10/2019 1/10/2019 1/10/2019 1/10/2019 1/10/2018 1/10/2018 1/10/2018 1/10/2018 1/10/2018	12:55 11:31 10:35 11:22 12:31 13:01 15:38 9:46 14:07 9:55 11:31 14:20 14:22 11:46 11:16 10:16 11:21 Well Locked 10:22 10:05 8:05 13:10 8:50 10:56	14.71 14.64 14.71 14.64 14.71 14.67 14.78 15.91 16.56 13.55 14.16 14.20 14.45 13.86 13.89 13.96 8.29 8.36 8.22 8.32 8.46 8.61 9.07 9.51 8.36 5.58 8.69 8.74 8.25	1513.51 1513.58 1513.51 1513.55 1513.44 1512.31 1511.66 1514.06 1514.02 1513.77 1514.36 1514.33 1514.26 1520.21 1520.24 1520.28 1520.14 1520.04 1519.89 1519.43 1518.99 1520.14 1522.92 1519.81 1519.76 1519.76
WMW6.15N 832493.06 26735359.77 1552.55 5/1/2017 15:12 22.35 1530.20	WMW5.5S WMW5.7N	835768.11 83471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76	26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.52 26734425.52	1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.20 1528.50	6/1/2017 7/11/2017 8/2/2017 9/6/2017 9/6/2017 10/3/2017 11/1/2017 3/20/2018 5/9/2018 7/13/2018 9/5/2018 11/9/2018 11/9/2018 11/9/2019 5/12/2019 6/28/2019 8/12/2017 7/12/2017 8/3/2017 9/7/2017 10/4/2017 11/2/2017 3/21/2018 5/9/2018 7/17/2018 5/9/2018 11/6/2018 1/16/2018 1/16/2018 1/16/2018 1/16/2018 1/16/2018 1/16/2019 5/29/2019	12:55 11:31 10:35 11:22 12:31 13:01 15:38 9:46 14:07 9:55 11:31 14:20 14:22 11:46 11:16 10:16 11:21 Well Locked 10:22 10:05 8:05 13:10 8:50 10:56	14.71 14.64 14.71 14.64 14.71 14.67 14.78 15.91 16.56 13.55 14.16 14.20 14.45 13.86 13.89 13.96 8.29 8.36 8.22 8.32 8.46 8.61 9.07 9.51 8.36 5.58 8.69 8.74 8.25 8.23	1513.51 1513.58 1513.58 1513.51 1513.55 1513.44 1512.31 1511.66 1514.07 1514.06 1514.02 1513.77 1514.36 1514.33 1514.26 1520.21 1520.14 1520.28 1520.18 1520.19 1519.89 1519.43 1519.89 1519.43 1519.89 1519.43 1519.99 1520.14 1520.92 1519.81 1520.92 1519.81 1520.92
	WMW5.5S WMW5.7N	835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 83471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76	26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.52 26734425.52	1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.50	6/1/2017 7/11/2017 8/2/2017 9/6/2017 10/3/2017 11/1/2017 3/20/2018 5/9/2018 7/13/2018 9/5/2018 11/9/2018 11/9/2018 11/9/2019 2/25/2019 6/28/2019 8/12/2017 7/12/2017 7/12/2017 10/4/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2017 11/2/2018 5/9/2018 1/10/2018 1/10/2019 2/26/2019 5/29/2019 7/9/2019	12:55 11:31 10:35 11:22 12:31 13:01 15:38 9:46 14:07 9:55 11:31 14:20 14:22 11:46 11:16 10:16 11:21 Well Locked 10:22 10:05 8:05 13:10 8:50 10:56 9:39	14.71 14.64 14.71 14.67 14.78 15.91 16.56 13.55 14.16 14.20 14.45 13.86 13.89 13.96 8.29 8.36 8.22 8.32 8.46 8.61 9.07 9.51 8.36 5.58 8.69 8.74 8.25 8.23 8.42	1513.51 1513.58 1513.58 1513.51 1513.55 1513.44 1512.31 1511.66 1514.07 1514.06 1514.02 1513.77 1514.36 1514.33 1514.26 1520.21 1520.14 1520.28 1520.18 1520.19 1519.43
302.00.00 £0100000.11 100£.00 0/1/£011 12.70 £2.07 13d0.01	WMW5.5S WMW5.7N	835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 835768.11 83471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76 834471.76	26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.74 26733971.52 26734425.52	1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.22 1528.20 1528.50	6/1/2017 7/11/2017 8/2/2017 9/6/2017 10/3/2017 11/1/2017 3/20/2018 5/9/2018 7/13/2018 11/9/2018 11/9/2018 11/9/2018 11/9/2019 6/28/2019 6/28/2019 6/28/2019 6/28/2017 7/12/2017 6/2/2017 10/4/2017 11/2/2017 11/2/2017 11/2/2018 5/9/2018 7/17/2018 5/9/2018 7/17/2018 1/16/2018 1/16/2018 1/16/2019 5/2019 5/2019 1/16/2019 5/29/2019 5/9/2019 5/9/2019	12:55 11:31 10:35 11:22 12:31 13:01 15:38 9:46 14:07 9:55 11:31 14:20 14:22 11:46 10:16 11:21 Well Locked 10:22 10:05 8:05 13:10 8:50 10:56 9:39	14.71 14.64 14.71 14.64 14.71 14.67 14.78 15.91 16.56 13.55 14.16 14.20 14.45 13.86 13.89 13.96 8.29 8.36 8.22 8.32 8.46 8.61 9.07 9.51 8.36 5.58 8.69 8.74 8.25 8.23 8.42 8.41	1513.51 1513.58 1513.58 1513.51 1513.55 1513.44 1512.31 1511.66 1514.06 1514.02 1513.77 1514.36 1514.36 1514.36 1520.21 1520.14 1520.28 1520.18 1520.19 1519.89 1519.43 1519.89 1519.43 1519.89 1519.43 1519.91 1520.14 1520.25 1520.14

Henderson, Nevada

Well ID	Easting (1)	Northing ⁽¹⁾	Elevation ⁽¹⁾ (feet amsl, TOC)	Date Gauged	Time Gauged	Depth to Water (feet, TOC) (2)	Groundwater Elevation (feet amsl)
WMW6.15N	832493.06	26735359.77	1552.55	7/12/2017	11:55	22.52	1530.03
WMW6.15N	832493.06	26735359.77	1552.55	8/3/2017	10:46	22.37	1530.18
WMW6.15N	832493.06	26735359.77	1552.55	9/7/2017	12:01	22.61	1529.94
WMW6.15N	832493.06	26735359.77	1552.55	10/4/2017	Well Locked	-	-
WMW6.15N	832493.06	26735359.77	1552.55	11/2/2017	10:46	22.72	1529.83
WMW6.15N	832493.06	26735359.77	1552.55	3/21/2018	10:40	22.77	1529.78
WMW6.15N	832493.06	26735359.77	1552.55	5/9/2018	8:22	23.08	1529.47
WMW6.15N	832493.06	26735359.77	1552.55	7/18/2018	7:32	22.62	1529.93
WMW6.15N	832493.06	26735359.77	1552.55	9/5/2018	9:07	22.39	1530.16
WMW6.15N	832493.06	26735359.77	1552.55	11/6/2018	11:24	22.53	1530.02
WMW6.15N	832493.06	26735359.77	1552.55	1/10/2019	9:58	22.95	1529.60
WMW6.15N	832493.06	26735359.77	1552.55	8/13/2019	15:35	22.85	1529.70
WMW6.15S	832119.74	26734098.93	1545.08	3/20/2018	14:22	7.90	1537.18
WMW6.15S	832119.74	26734098.93	1545.08	5/9/2018	15:05	8.99	1536.09
WMW6.15S	832119.74	26734098.93	1545.08	7/18/2018	14:05	9.03	1536.05
WMW6.15S	832119.74	26734098.93	1545.08	9/5/2018	12:50	9.19	1535.89
WMW6.15S	832119.74	26734098.93	1545.08	11/7/2018	9:25	10.11	1534.97
WMW6.15S	832119.74	26734098.93	1545.08	1/9/2019	10:39	9.63	1535.45
WMW6.55S	830218.73	26734351.02	1559.25	4/30/2017	9:13	16.00	1543.25
WMW6.55S	830218.73	26734351.02	1559.25	6/2/2017	10:38	16.09	1543.16
WMW6.55S	830218.73	26734351.02	1559.25	7/11/2017	15:46	16.08	1543.17
WMW6.55S	830218.73	26734351.02	1559.25	8/2/2017	13:28	16.00	1543.25
WMW6.55S	830218.73	26734351.02	1559.25	9/6/2017	13:05	16.09	1543.16 1543.31
WMW6.55S WMW6.55S	830218.73 830218.73	26734351.02 26734351.02	1559.25 1559.25	10/3/2017 11/1/2017	14:25 14:24	15.94 15.91	1543.34
WMW6.55S	830218.73	26734351.02	1559.25	3/20/2018	14:38	16.65	1543.34
WMW6.55S	830218.73	26734351.02	1559.25	5/9/2018	14:47	16.78	1542.47
WMW6.55S	830218.73	26734351.02	1559.25	7/18/2018	13:31	16.96	1542.47
WMW6.55S	830218.73	26734351.02	1559.25	9/5/2018	13:01	6.10	1553.15
WMW6.55S	830218.73	26734351.02	1559.25	11/7/2018	9:13	16.21	1543.04
WMW6.55S	830218.73	26734351.02	1559.25	1/10/2019	13:27	16.12	1543.13
WMW6.55S	830218.73	26734351.02	1559.25	2/25/2019	10.27	16.28	1542.97
WMW6.55S	830218.73	26734351.02	1559.25	5/28/2019		16.34	1542.91
WMW6.55S	830218.73	26734351.02	1559.25	8/13/2019	8:35	16.45	1542.80
WMW6.9N	828913.10	26735560.65	1573.16	5/1/2017	15:50	18.21	1554.95
WMW6.9N	828913.10	26735560.65	1573.16	6/2/2017	11:31	18.26	1554.90
WMW6.9N	828913.10	26735560.65	1573.16	7/12/2017	12:32	18.13	1555.03
WMW6.9N	828913.10	26735560.65	1573.16	8/3/2017	11:03	18.20	1554.96
WMW6.9N	828913.10	26735560.65	1573.16	9/7/2017	12:36	18.22	1554.94
WMW6.9N	828913.10	26735560.65	1573.16	10/4/2017	11:01	18.20	1554.96
WMW6.9N	828913.10	26735560.65	1573.16	11/2/2017	11:02	18.23	1554.93
WMW6.9N	828913.10	26735560.65	1573.16	3/21/2018	11:10	18.05	1555.11
WMW6.9N	828913.10	26735560.65	1573.16	5/9/2018	8:47	18.15	1555.01
WMW6.9N	828913.10	26735560.65	1573.16	7/18/2018	7:46	18.21	1554.95
WMW6.9N	828913.10	26735560.65	1573.16	9/5/2018	9:21	18.23	1554.93
WMW6.9N	828913.10	26735560.65	1573.16	11/6/2018	11:41	18.16	1555.00
WMW6.9N	828913.10	26735560.65	1573.16	1/10/2019	10:16	18.05	1555.11
WMW6.9N	828913.10	26735560.65	1573.16	2/26/2019		18.03	1555.13
WMW6.9N	828913.10	26735560.65	1573.16	5/29/2019	45.55	18.23	1554.93
WMW6.9N	828913.10	26735560.65	1573.16	8/13/2019	15:20	18.26	1554.90
WMW6.9S	828430.55	26734539.19	1570.60	4/30/2017	9:55	11.04	1559.56
WMW6.9S	828430.55	26734539.19	1570.60	6/1/2017	15:55	11.21	1559.39
WMW6.9S	828430.55	26734539.19	1570.60	7/12/2017	7:35	11.46	1559.14
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WMW6.9S	828430.55	26734539.19	1570.60	10/3/2017	13:09	10.85	1559.75
WMW6.9S WMW6.9S	828430.55 828430.55	26734539.19	1570.60	11/1/2017	13:50	10.88	1559.72
WMW6.9S	828430.55 828430.55	26734539.19 26734539.19	1570.60 1570.60	3/20/2018 5/9/2018	15:11 14:17	10.38 10.79	1560.22 1559.81
WMW6.9S	828430.55	26734539.19	1570.60	7/18/2018	12:52	10.79	1559.77
WMW6.9S	828430.55	26734539.19	1570.60	9/5/2018	13:26	10.58	1560.02
WMW6.9S	828430.55	26734539.19	1570.60	11/7/2018	8:17	10.57	1560.02
WMW6.9S	828430.55	26734539.19	1570.60	1/10/2019	13:46	10.42	1560.03
WMW6.9S	828430.55	26734539.19	1570.60	8/13/2019	9:05	10.81	1559.79
VVIVIVVO.93	020430.33	20134339.19	1370.00	0/13/2019	9.00	10.01	1009.18

Notes:

amsl = above mean sea level

TOC = top of casing

⁽¹⁾ Well coordinates and elevations surveyed by licensed surveyor (Stanley). Coordinate system: State Plane Coordinate System; Elevations are referenced to the North American Datum (NAD) 83 Nevada East Zone (2701) with vertical datum based on NAVD 88 referenced to the City of Henderson Benchmark network.

⁽²⁾ McGinley & Associates, Inc., conducted a groundwater sampling event from May 22 through 25, 2017, during which wells MW-13 and MW-20 were sampled. Hence, transducer data from this period may not accurately reflect static groundwater conditions.

⁽³⁾ A 2.8-foot elevation increase was measured on September 5, 2018. This change in elevation was not recorded by the transducer; therefore, the manual groundwater data may be erroneous.

^{-- =} Data not collected due to locked well or other access issue.

Table 5 Surface Water Transducer Installation Information

NERT RI - Downgradient Study Area Henderson, Nevada

Gage ID	Mark Surveyed	Elevation	Time on 5/10/2018	Gage Height on 5/10/2018	Surface Water Elevation on 5/10/2018	Compensated Transducer Reading on 5/10/2018	Estimated Transducer Elevation
	(ft)	(ft)		(ft)	(ft msl)	(ft)	(ft msl)
S 3.80	2	1454.54	9:20	1.20	1453.7	1.14	1452.6
S 3.75	2	1437.88	9:45	1.08	1437.0	1.04	1435.9
S 3.50	2	1437.71	10:05	0.78	1436.5	0.94	1435.5
S 4.60	2	1473.79	10:45	0.95	1472.7	0.87	1471.9
S 4.65	5	1486.43	11:00	4.22	1485.7	1.44	1484.2
S 4.75	5	1486.53	11:25	4.10	1485.6	0.69	1484.9
S 5.30	2	1511.00	11:50	1.40	1510.4	1.78	1508.6

Notes:

ft = feet

msl = mean sea level

Table 6 Summary of Groundwater Hydrograph and Temperature Graph Observations April 2017 to January 2019 NERT RI - Downgradient Study Area Henderson Nevada

Well ID	Groundwater Levels	Appearance of Groundwater Hydrograph	Decrease in Water Elevations January to June 2018	Statistical Trend in Groundwater Elevations (Nov. 2017-Aug. 2019)	Storm Peaks Visible	Temperature	Approx. Temperature Range (in degrees Fahrenheit)
AA-30	Storm surge detected with notable peaks; small daily fluctuations, groundwater fluctuates 3.4 feet over monitoring period.	Irregular	Yes	Increasing Trend	Yes - Large	General decrease of 1.1 degrees Fahrenheit since April 2017	73.0 - 74.1
COH-2B1	Storm surge detected with very notable peaks; small daily fluctuations; groundwater fluctuates 1.6 feet over monitoring period.	Irregular	Yes	Decreasing Trend	Yes - Large	Small seasonal variation Increase - August through December Decrease - January through July	71.4 - 74.0
LNDMW1	Storm surge detected with very notable peaks; small daily fluctuations; groundwater has a 0.5- foot increase over monitoring period.	Increase	No	Increasing Trend	Yes - Large	Slow gradual decrease since April 2017	74 - 74.5
LNDMW2	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period but increases at end.	Increase	No	Increasing Trend	Yes - Medium	Seasonal variation Increase - May through September Decrease - April through September	71.9-74.7
MW-13	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period except for a decrease in elevation January to June 2018 followed by a recovery.	Large fluctuations over longer time periods	Yes	Decreasing Trend	Yes - Large	Seasonal variation Increase - October through March Decrease - April through September	72.2 - 73.6
MW-20	Storm surge detected with notable peaks; small daily fluctuations; groundwater elevation increases 0.35 foot over monitoring period.	Increase	Yes	Increasing Trend	Yes - Medium	Relatively steady over monitoring period	74.5 - 74.8
NERT3.35S1	Small daily fluctuations with one major jump in early July 2019.	Stable, with one significant jump	NA	Increasing Trend (June 2019 - August 2019)	Yes	Relatively steady over monitoring period	78.5
NERT3.40S1	Small daily fluctuations but stable over monitoring period.	Stable	NA	Increasing Trend (June 2019 - August 2019)	No	Relatively steady over monitoring period	77.2
NERT3.58N1	Moderate daily fluctuations but stable over monitoring period.	Stable	NA	Decreasing Trend (June 2019 - August 2019)*	No	Relatively steady over monitoring period except for one jump	75.0-75.4
NERT3.60N1	Moderate daily fluctuations but stable over monitoring period.	Stable	NA	Decreasing Trend (June 2019 - August 2019)	No	Relatively steady over monitoring period	73.8-74.0
NERT3.63S1	Moderate daily fluctuations but stable over monitoring period.	Stable	NA	Increasing Trend (June 2019 - August 2019)	No	Relatively steady over monitoring period	72.5-72.8
NERT3.80S1	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period.	Stable	No	Decreasing Trend (September 2018 - August 2019)	Yes - Large	Seasonal (summer to winter) variation of approximately 14 degrees Fahrenheit.	66.2-80
NERT3.98S1	Small daily fluctuations, stable over monitoring period, no storm peaks visible.	Stable/slight increase	NA	Increasing Trend (June 2019 - August 2019)		Relatively steady over monitoring period	71.8-72.0
NERT4.21N1	Storm surge detected, peaks are small to large; small daily fluctuations; groundwater shows moderate increase in elevation over monitoring period.	Stable/moderate increase	NA	Increasing Trend (September 2018 - August 2019)	Yes	Seasonal 2 degree variation in temperature from summer to winter	73-75
NERT4.38N1	Storm surge detected, peaks are small to large; small daily fluctuations; groundwater shows moderate increase in elevation over monitoring period.	Stable/moderate increase	NA	Increasing Trend (September 2018 - August 2019)	Yes	Steady - slight seasonal variation	72.0 - 72.1
NERT4.51S1	Storm surge detected, peaks are small to large; small daily fluctuations; groundwater shows moderate increase in elevation over monitoring period.	Stable/moderate increase	NA	Increasing Trend (September 2018 - August 2019)	Yes	Steady - slight seasonal variation	73.6-73.8

Table 6 Summary of Groundwater Hydrograph and Temperature Graph Observations April 2017 to January 2019 NERT RI - Downgradient Study Area Henderson Nevada

Well ID	Groundwater Levels	Appearance of Groundwater Hydrograph	Decrease in Water Elevations January to June 2018	Statistical Trend in Groundwater Elevations (Nov. 2017-Aug. 2019)	Storm Peaks Visible	Temperature	Approx. Temperature Range (in degrees Fahrenheit)
NERT4.64N1	Small daily fluctuations, stable over monitoring period, no storm peaks visible.	Stable/slight increase	NA	Increasing Trend (June 2019 - August 2019)		Relatively steady over monitoring period	73
NERT4.65N1	Moderate daily fluctuations but stable over monitoring period, no storm peaks visible. Moderate increase in groundwater elevation over monitoring period.	Stable	NA	Increasing Trend (June 2019 - August 2019)	No	Relatively steady over monitoring period	73.2-73.3
NERT4.70N1	Moderate daily fluctuations but stable over monitoring period, no storm peaks visible. Moderate increase in groundwater elevation over monitoring period.	Stable/ Moderate increase	NA	Increasing Trend (June 2019 - August 2019)	No	Steady decrease over monitoring period	71.2 - 72.5
NERT4.71S1	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period.	Stable / Moderate increase in second half of monitoring period	NA	Increasing Trend (September 2018 - August 2019)	Yes - Medium	Steady - slight seasonal variation	72.9 - 73.3
NERT4.71S2	Moderate daily fluctuations but stable over monitoring period, no storm peaks visible. Moderate increase in groundwater elevation over monitoring period.	Stable/ Moderate increase	NA	Increasing Trend (June 2019 - August 2019)	No	Steady	73.9-74
NERT4.93S1	Storm surge detected, peaks are small to large; small daily fluctuations; groundwater relatively stable over monitoring period but displays gradual increasing trend.	Stable/ Moderate increase	NA	Decreasing Trend (September 2018 - August 2019)	Yes	Seasonal variation	71.9 - 74.5
NERT5.11S1	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period with a general increase during the second half of the monitoring period.	Stable	No	Increasing Trend (September 2018 - August 2019)	Yes - Large	Irregular increase and decrease offset from expected seasonal trends	72.9 - 74.5
NERT5.49S1	Storm surge detected, peaks are small to large; small daily fluctuations; gradual decreases in groundwater elevation followed by rapid increases.	Large fluctuations - steady decreases and abrupt increases	NA	Increasing Trend (September 2018 - August 2019)	Yes - Large	Large seasonal variation	63.5-85.5
NERT5.91S1	Storm surge detected with very notable peaks; small daily fluctuations, groundwater relatively stable over monitoring period with a gradual decrease.	Stable	No	Decreasing Trend	Yes - Large	Slight seasonal variation	72.7 - 73.3
PC-74	Storm surge detected; peaks are small; lots of gradual fluctuations over monitoring period; small daily fluctuations.	Gradual fluctuations	Yes	Increasing Trend	Yes - Medium	Seasonal variation Increase - October through January Decrease - February through September	71-72.1
PC-77	Storm surge peaks not obvious; Frequent fluctuations over monitoring period.	Frequent gradual to abrupt fluctuations, overall irregular	Yes	Increasing Trend	Yes - Small and somewhat obscured by other water level fluctuations	Seasonal variation Increase - August through December Decrease - January through July	73.0-74.8
WMW3.5N	Storm surge detected; peaks are small and show a slight delay (1-2 days) in response to storm; small daily fluctuations; gradual increase in groundwat.er elevations of 0.5 foot over monitoring period	Gradual increase	No	Increasing Trend	Yes - Small	Relatively steady over monitoring period	73.5 - 73.6
WMW3.5S	Storm surge detected with very notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period.	Stable	No	Increasing Trend	Yes - Large	Seasonal variation Increase - June through October Decrease - November through May	71.8 - 75.3
WMW4.9N	Storm surge detected with notable peaks; small daily fluctuations; groundwater elevation is overall stable except a decrease from January to June 2018.	Stable	Yes	Increasing Trend	Yes - Large	Seasonal variation Increase - November through May Decrease - May through November	72.8 -73.2

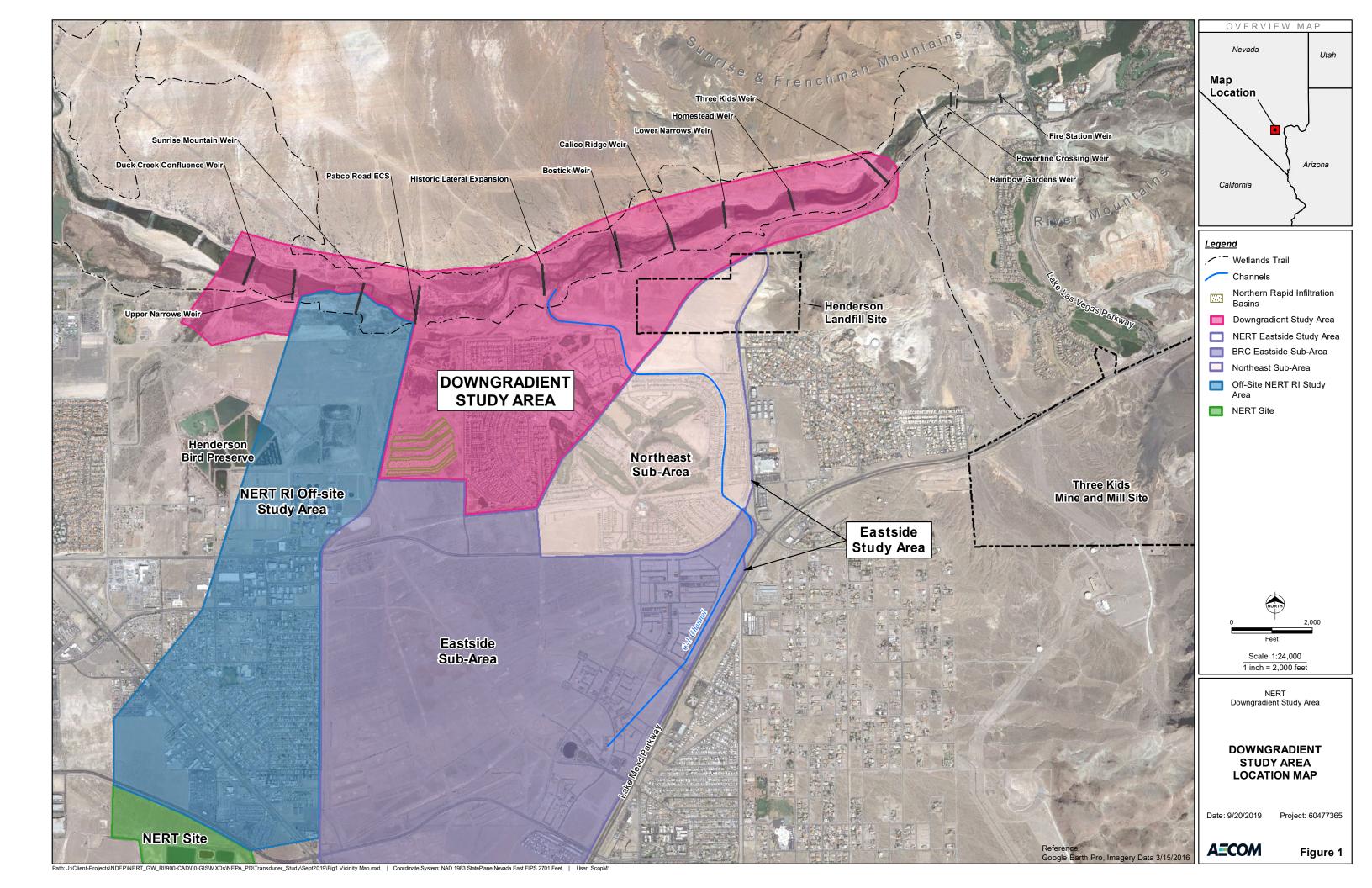
Table 6 Summary of Groundwater Hydrograph and Temperature Graph Observations April 2017 to January 2019 NERT RI - Downgradient Study Area Henderson Nevada

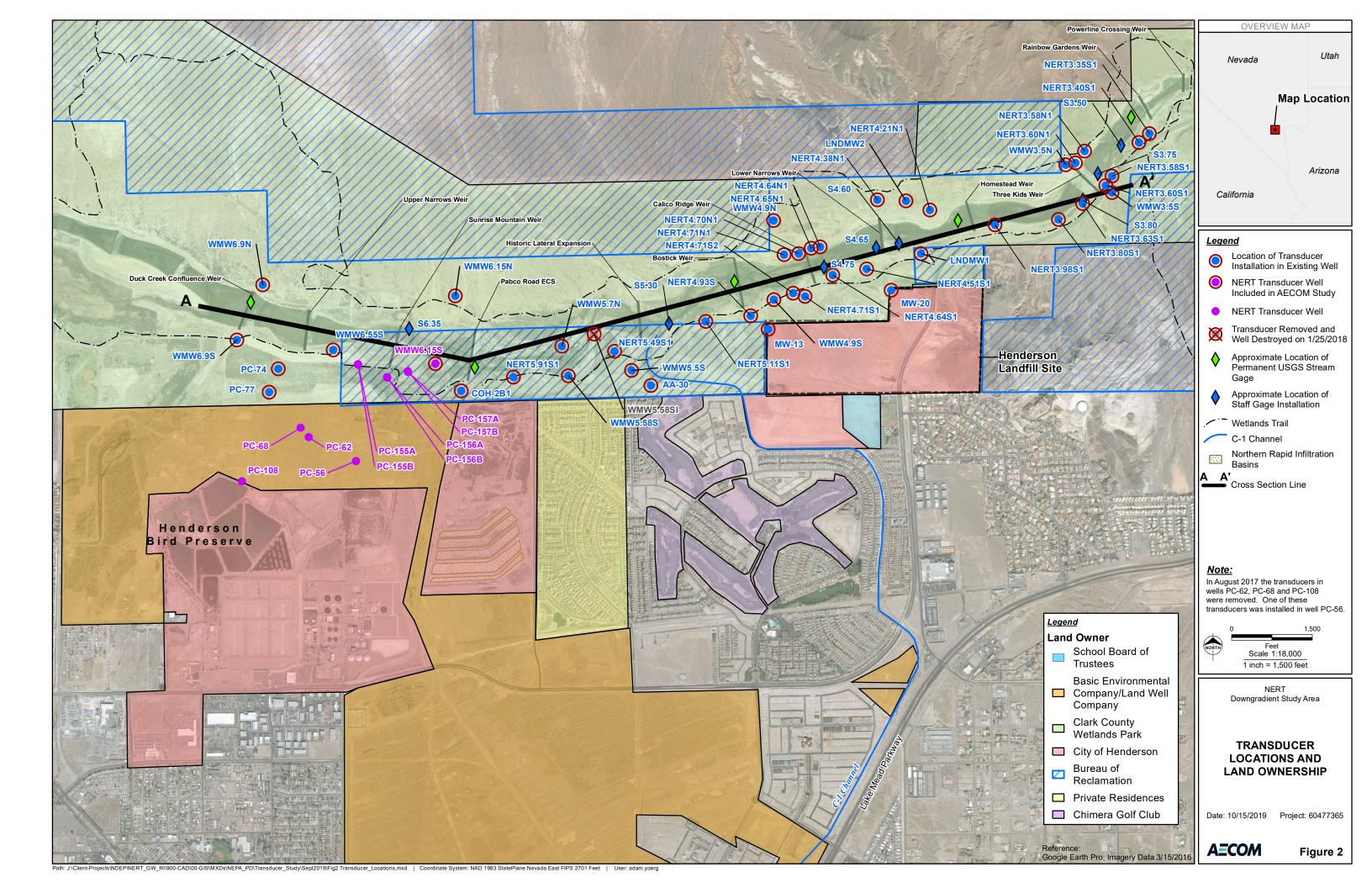
Well ID	Groundwater Levels	Appearance of Groundwater Hydrograph	Decrease in Water Elevations January to June 2018	Statistical Trend in Groundwater Elevations (Nov. 2017-Aug. 2019)	Storm Peaks Visible	Temperature	Approx. Temperature Range (in degrees Fahrenheit)
WMW4.9S	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period with a decrease and recovery in the middle of the monitoring period.	Stable	Yes	Decreasing Trend	Yes - Large	Seasonal variation Increase - July through December Decrease - January through June	71.0 -77.0
WMW5.5S	Storm surge detected with notable peaks; small daily fluctuations; groundwater shows gradual increase after a decreasing trend from January to June of 2018.	Stable	Yes	Increasing Trend	Yes - Large	Seasonal variation Increase - June through December Decrease - December through June	69.2 - 77.8
WMW5.58S	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period.	Stable	Transducer was not installed in this well until September 6, 2018	Increasing Trend	Yes - Small	Seasonal variation - Increase September 2018 to January 2019, Decrease January 2019 to August 2019	71.6 - 73.2
WMW5.58SI	Storm surge detected with notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period.	Stable	Well was destroyed in early 2019	Trend test was not run because the well was destroyed	Yes - Large	Seasonal variation - incrase April to August, decrease September to January	69 - 85
WMW5.7N	Storm surge detected with very notable peaks; small daily fluctuations; groundwater stable except a decrease from January to June 2018.	Stable	Yes	Insufficient evidence of statistically significant trend	Yes - Large	Seasonal variation Increase - February through August Decrease - September through January	60.6 - 86
WMW6.15N	Storm surge detected, peaks are small; lots of gradual fluctuations in groundwater levels; small daily fluctuations.	Significant but gradual fluctations that appear to follow seasonal trends	Yes	Decreasing Trend	Yes - Small	Subtle seasonal variations Increase - November through April Decrease - May through October	71.9 - 72.4
WMW6.15S	Storm surge detected with notable peaks; transducer did not record continuously; mosderate daily fluctuations. Transducer problems impact data quality throughout 2018 and 2019.	Stable	No	Transducer malfunctioned so data is not available Oct 2018 - 2019	Yes - Large	Seasonal variation Increase - November through April Decrease - May through October	65.5 - 74.1
WMW6.55S	Storm surge detected with very notable peaks; moderate daily fluctuations; groundwater relatively stable over monitoring period.	Stable	Yes	Decreasing Trend	Yes - Large	Seasonal variation Increase - October through March Decrease - April through September	71.8 - 72.7
WMW6.9N	Storm surge detected with very notable peaks; small daily fluctuations; groundwater relatively stable over monitoring period and exhibits moderate seasonal fluctuations.	Stable	Yes - Slight	Decreasing Trend	Yes - Large	Seasonal variation Increase - October through March Decrease - April through September	71.9 - 72.9
WMW6.9S	Storm surge detected with very notable peaks; small daily fluctuations; groundwater gradually increasing over monitoring period.	Small increase (0.4 foot) from start to end of monitoring period	Yes	Increasing Trend	Yes - Large	Seasonal variation Increase - October through March Decrease - April through September	68.7 - 69.9

Most wells show relatively stable groundwater elevations over the monitoring period with some wells showing sharp increases in elevation due to storm surges. Some wells show notable increases and decreases in groundwater levels between January 2018 and August 2018, while active dewatering for weir construction occurred. Wells with notable increases and decreases in groundwater levels between January 2018 and August 2018 are located upstream of Calico Ridge Weir. Wells with 9+ degrees Fahrenheit change in temperature are located between Pabco Road ECS and Historical Lateral Expansion and upgradient of Three Kids Weir.

* Trend may be biased by incompletely adjusted transducer record.

Figures





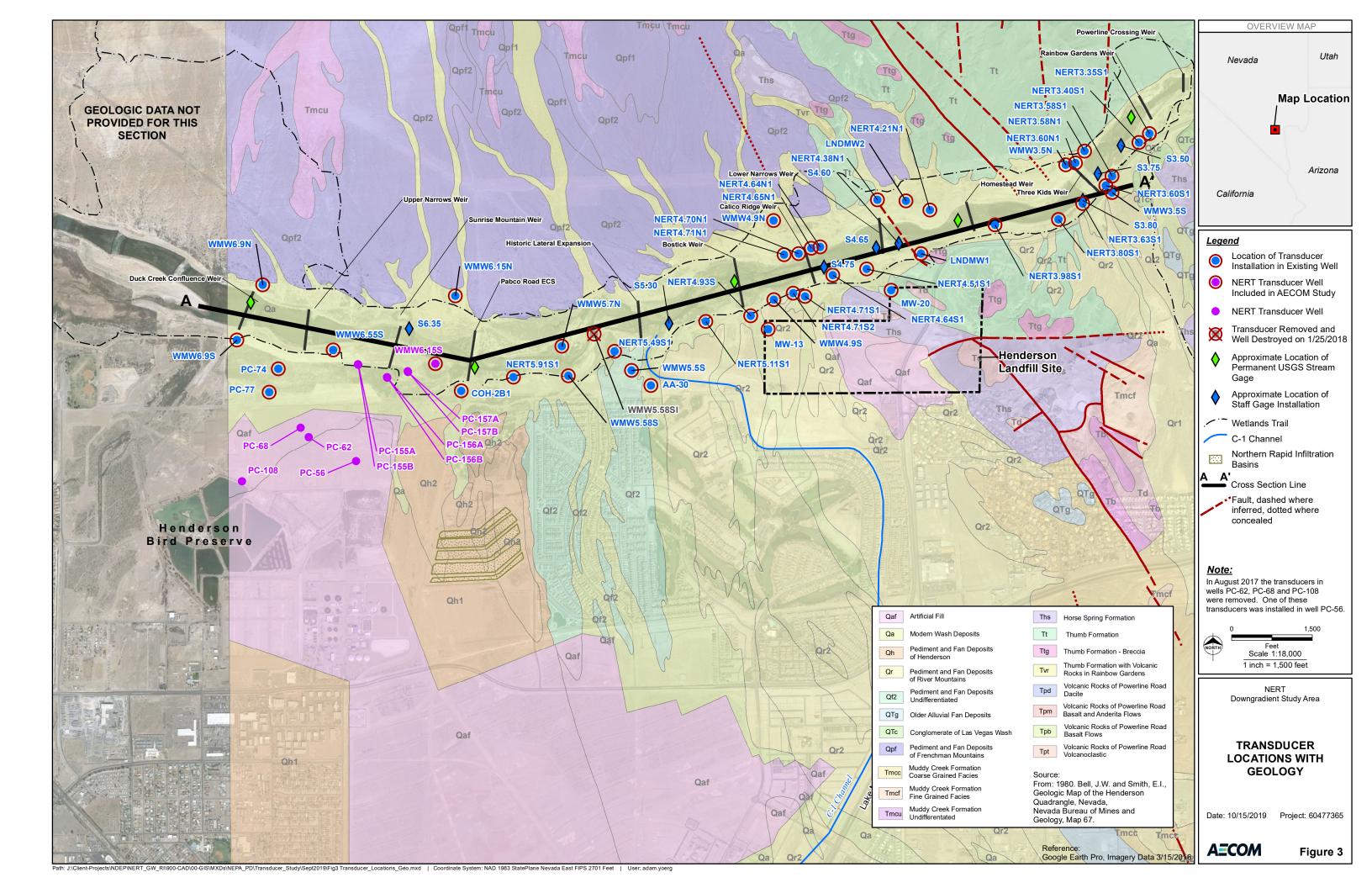
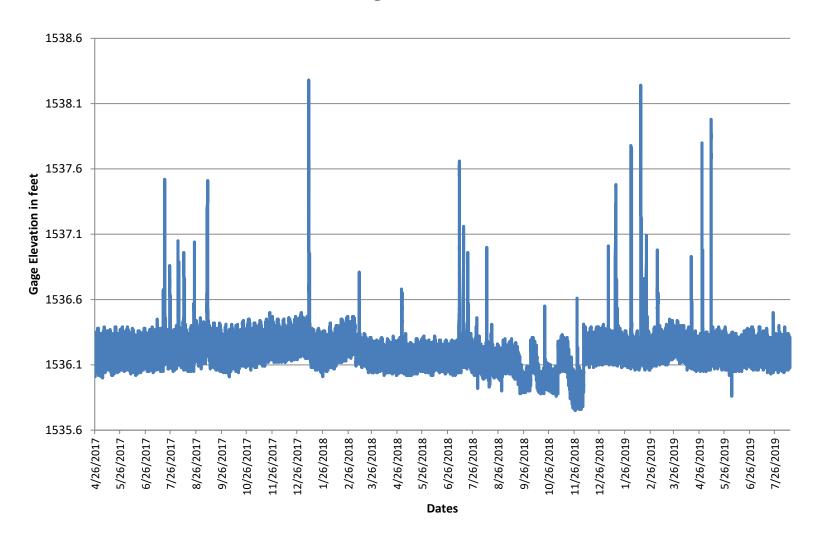
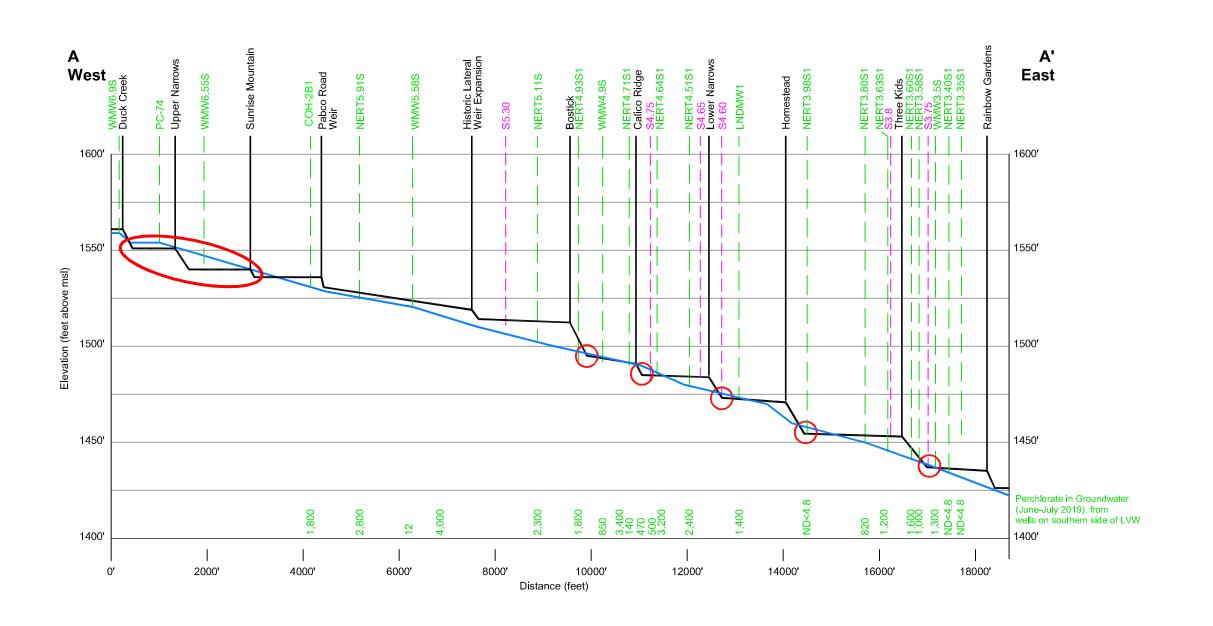


Figure 4
USGS Gage at Pabco Road







Groundwater Elevation: Based on transducer measurements on (July 9, 2019).

Location of Surface Water Gage

Location of Transducers in Monitoring Wells

Location of Weir

Area Where Groundwater Elevation is Higher Than Surface Water Elevation

NERT Downgradient Study Area

SCHEMATIC CROSS SECTION OF SURFACE WATER AND GROUNDWATER ELEVATIONS ALONG LAS VEGAS WASH 2019

Date: 9/11/2019 Project: 60477365

AECOM

Figure 5

25' -1000' 2000'

50' -

Appendix A

Response to Comments

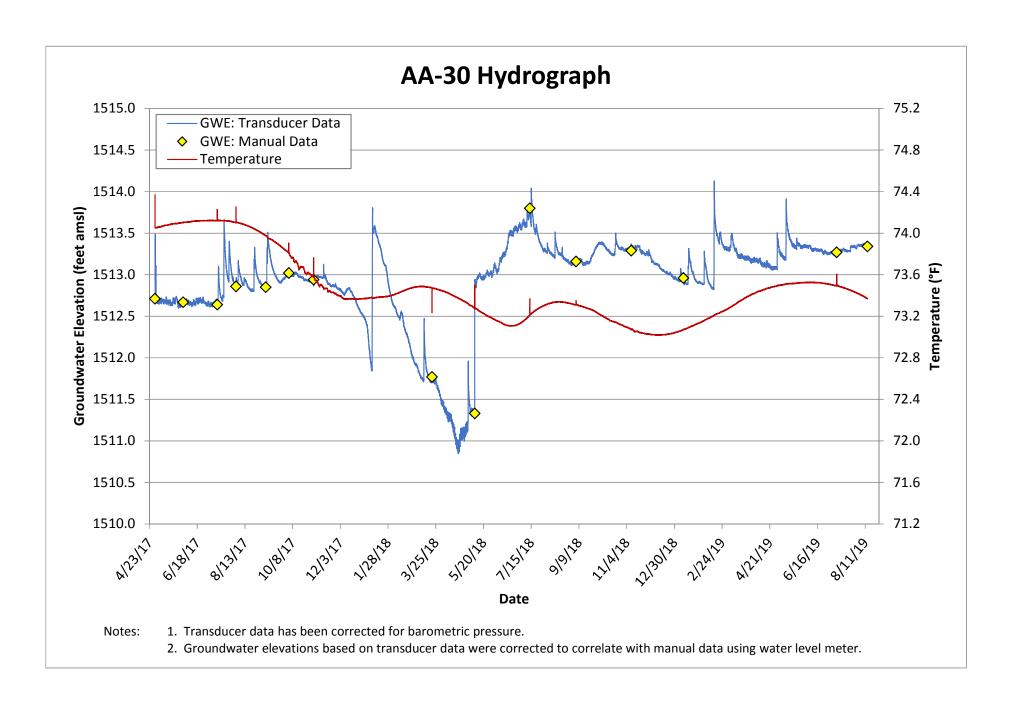
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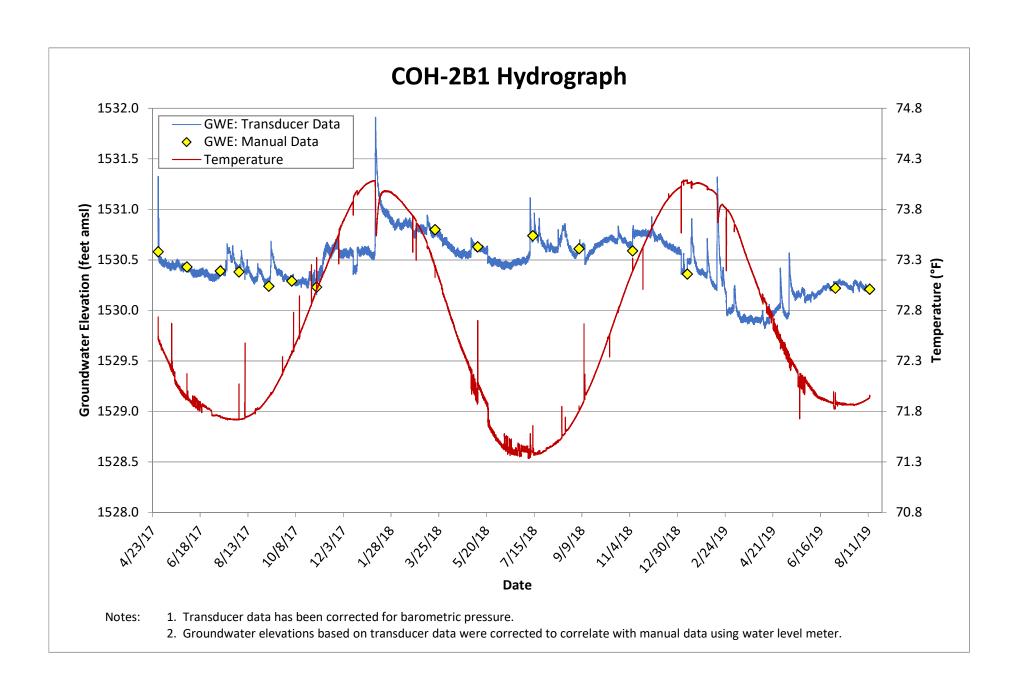
Appendix B

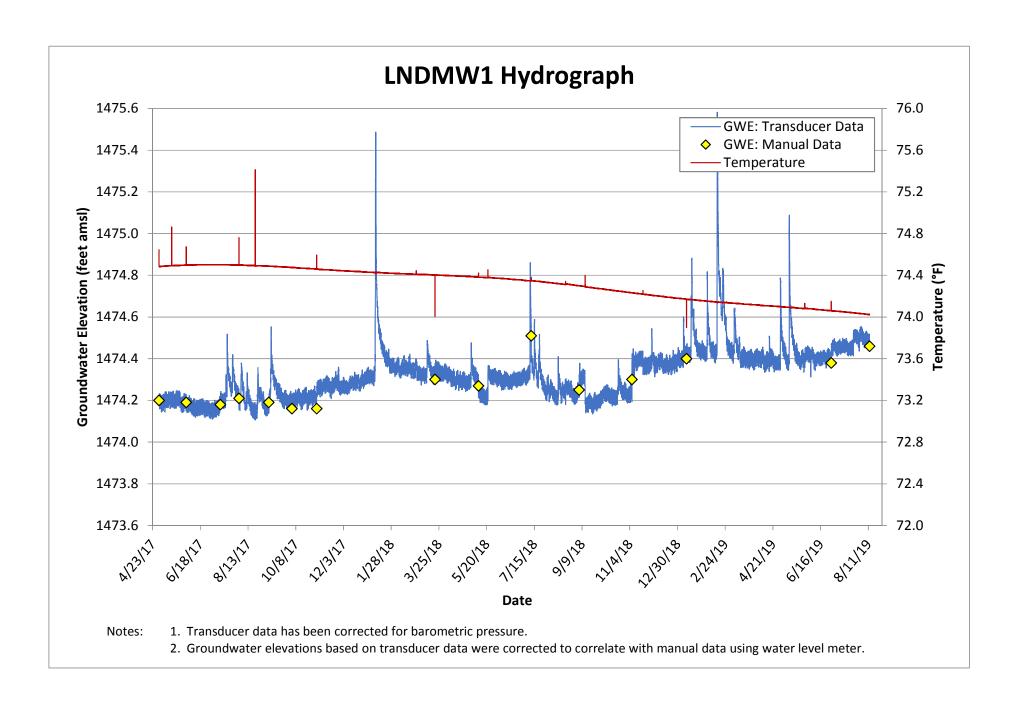
Transducer Data (electronic files)

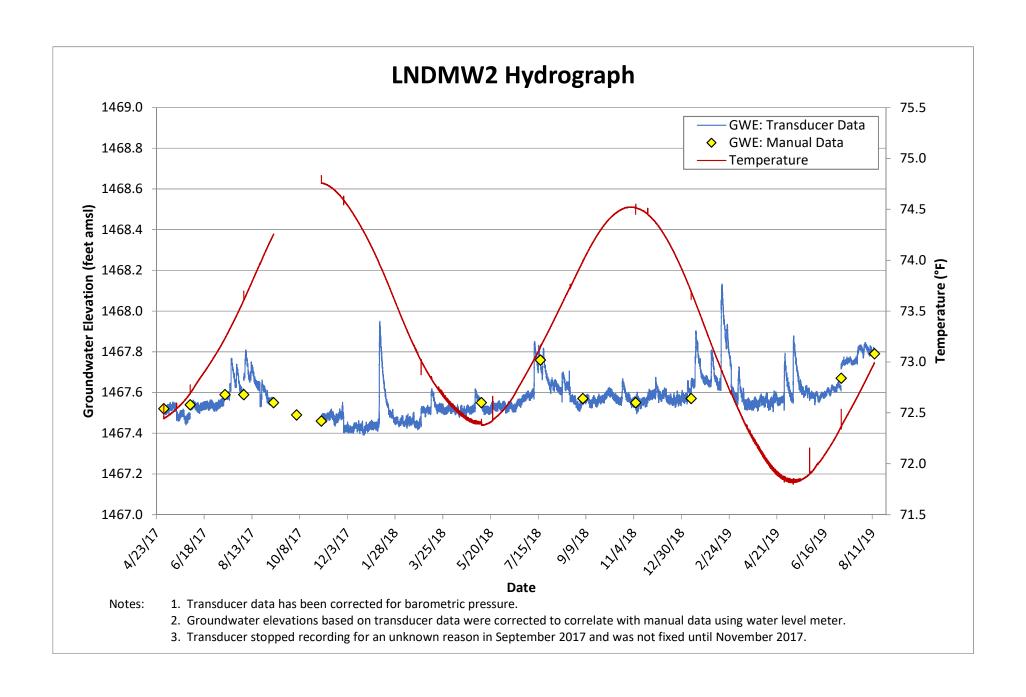
Appendix C

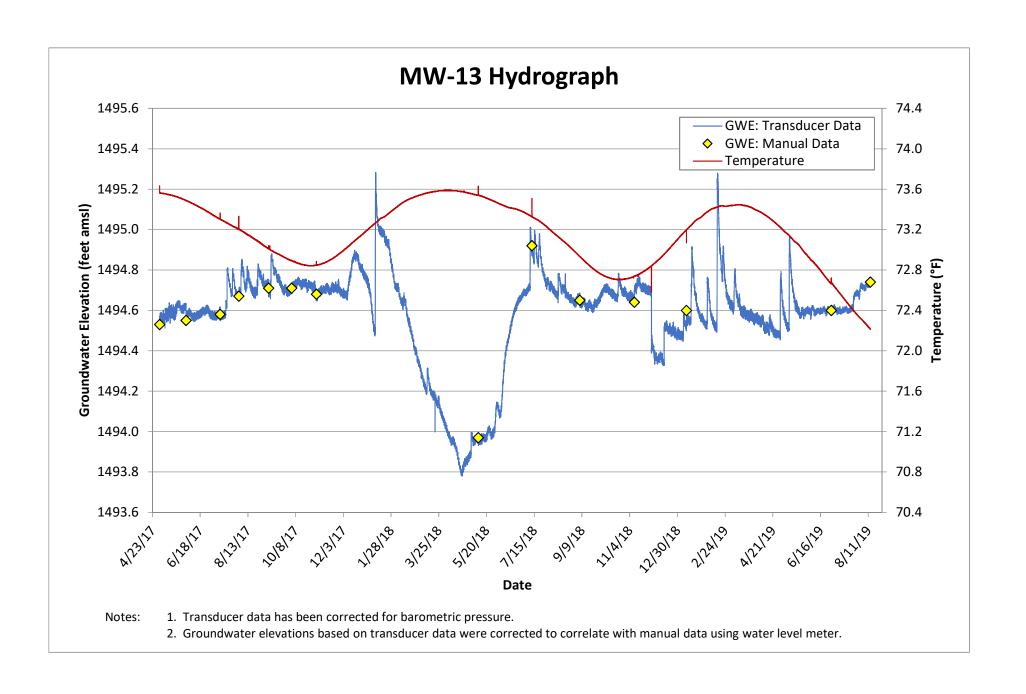
Groundwater Hydrographs and Temperature Graphs

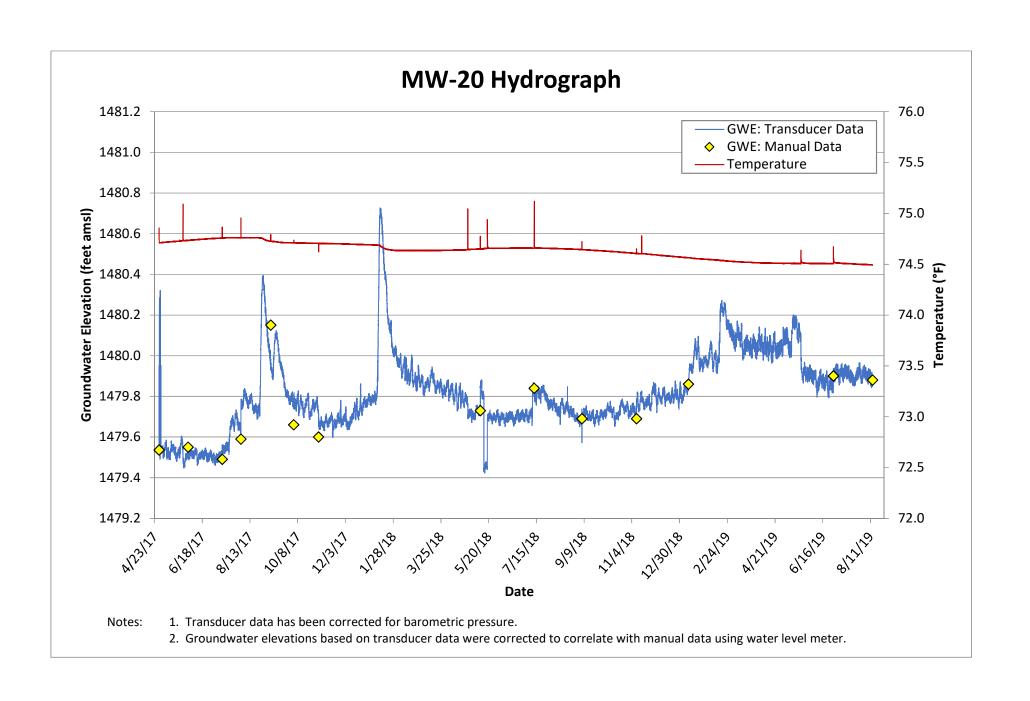


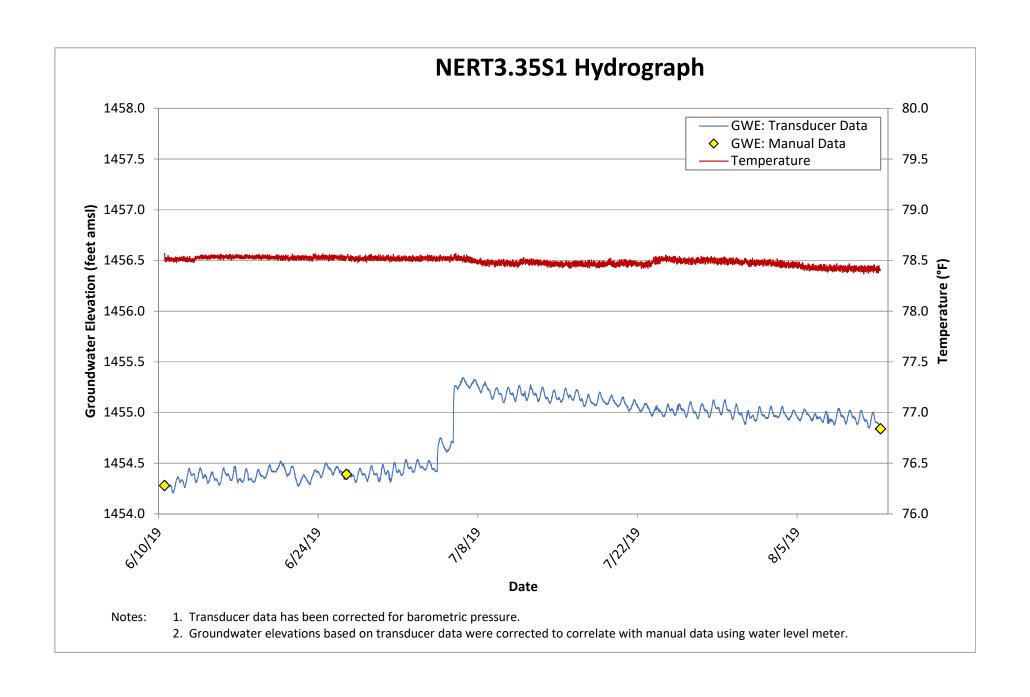


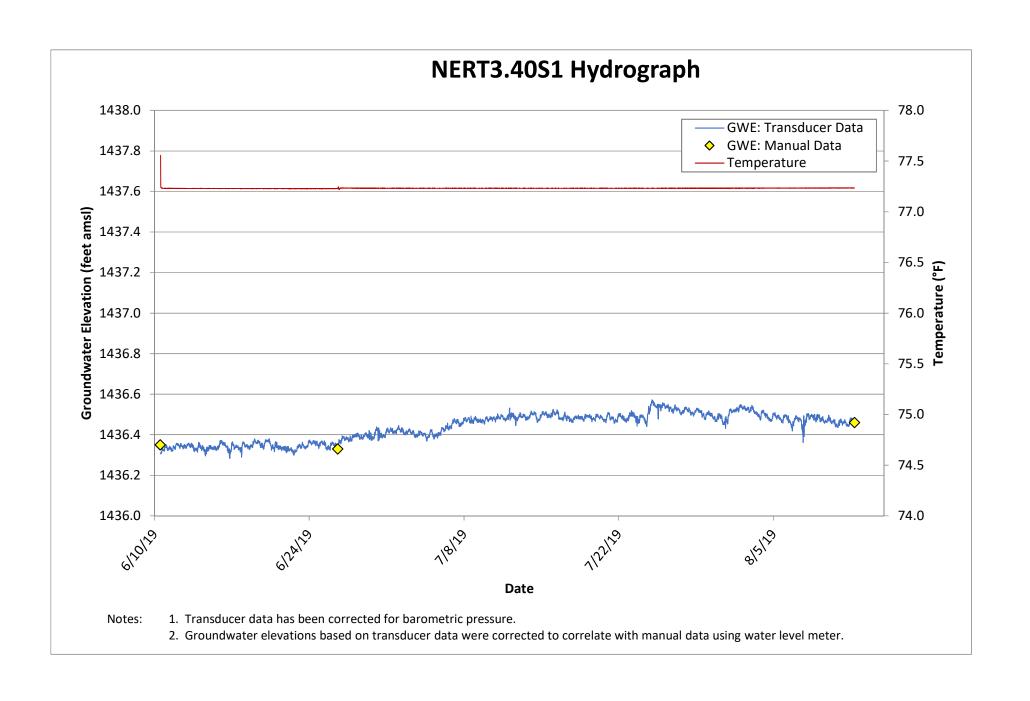


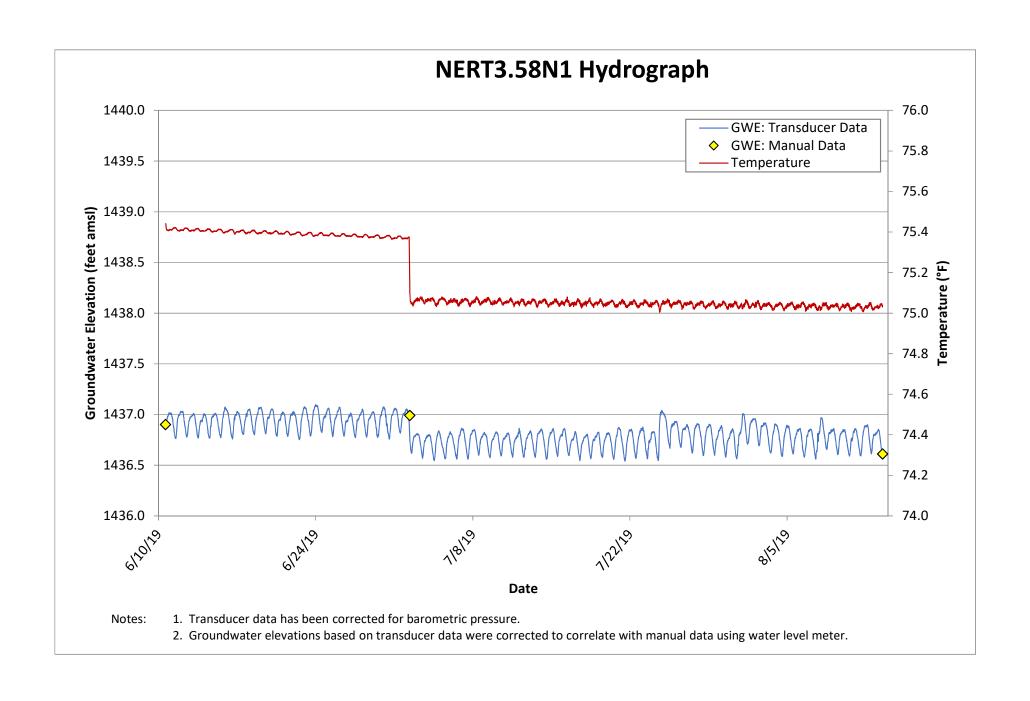


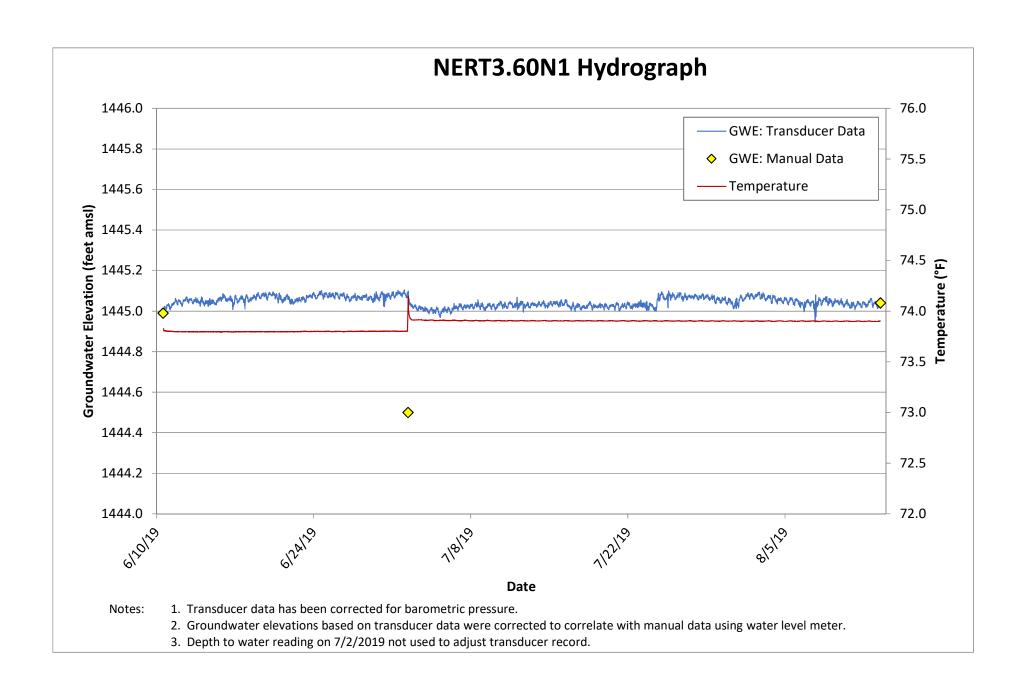


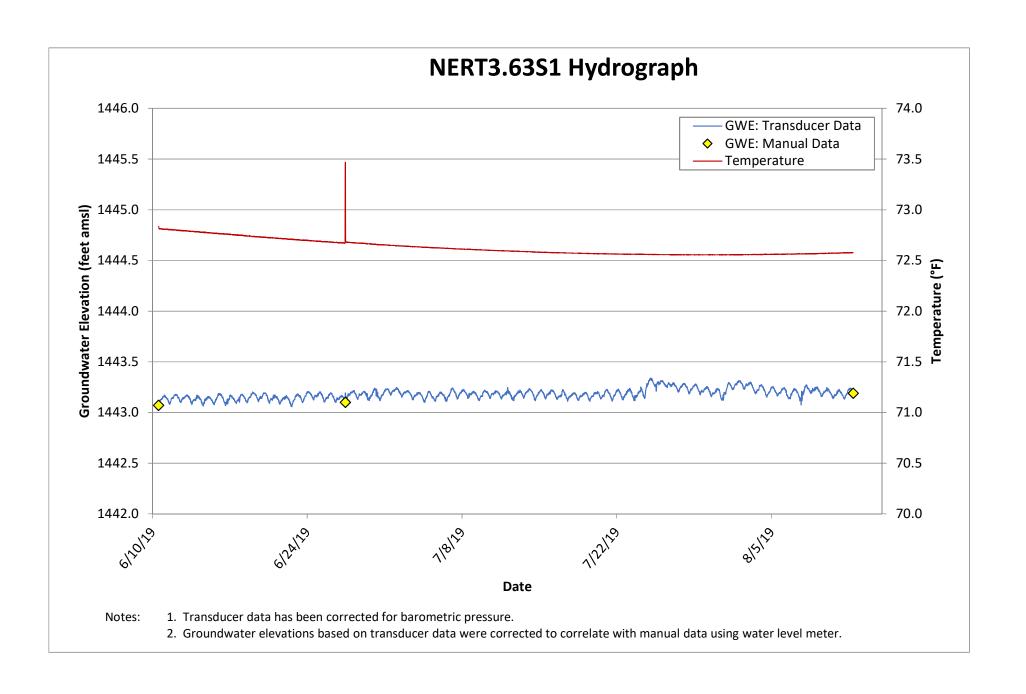


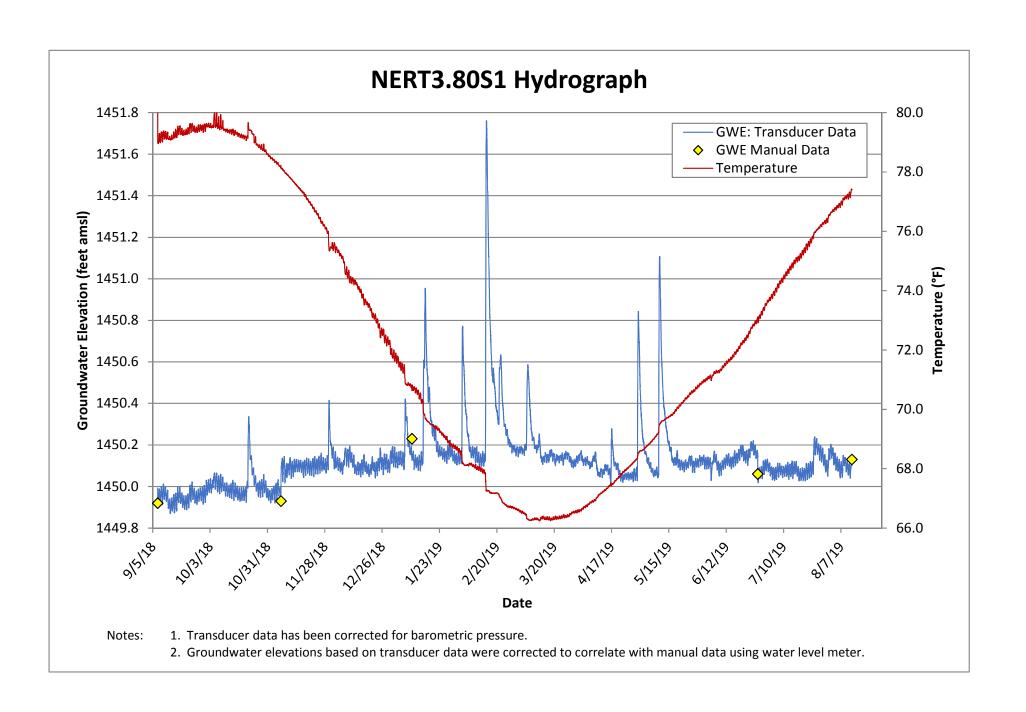


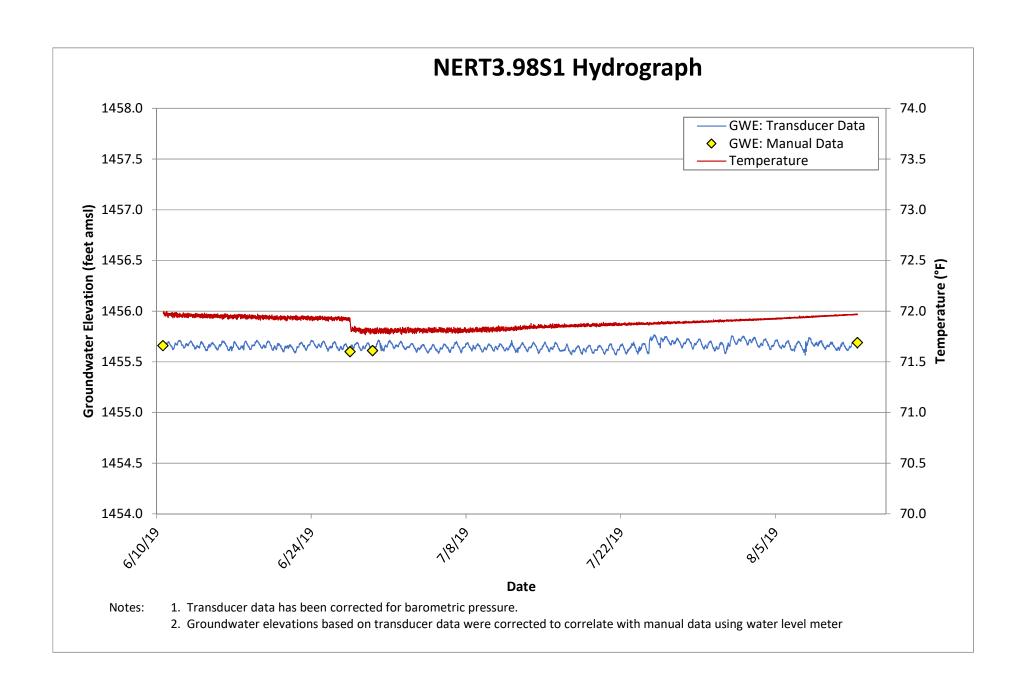


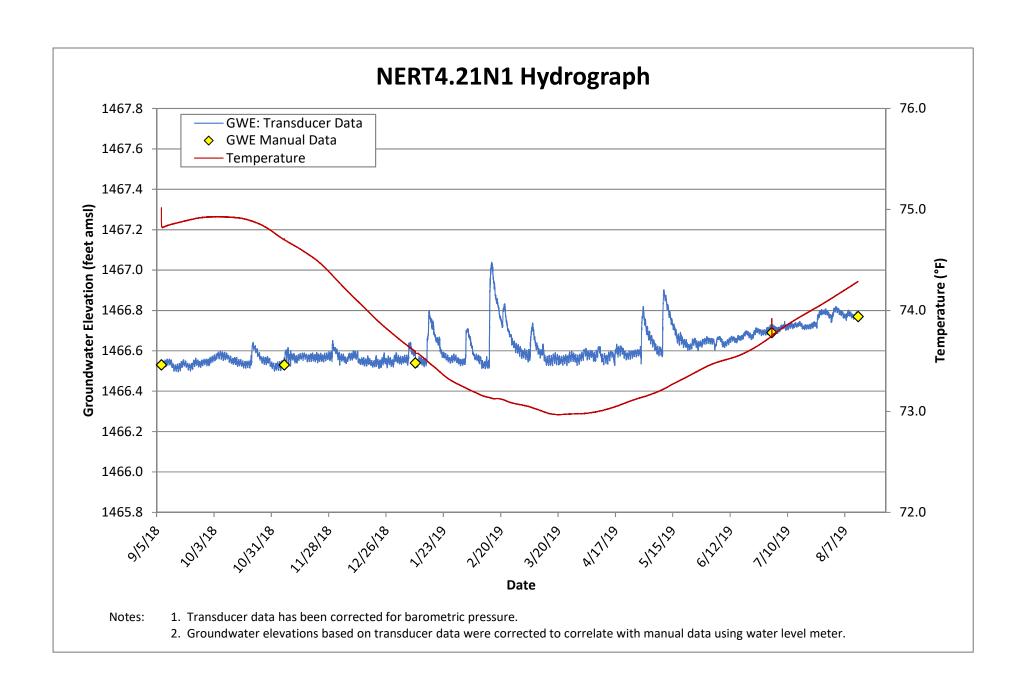


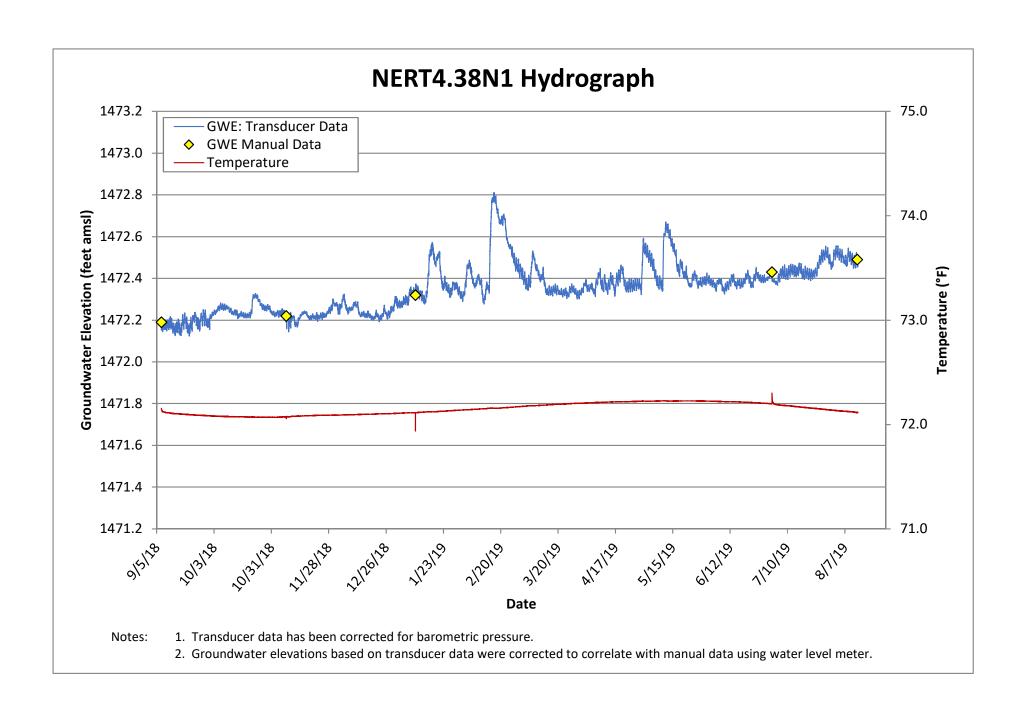


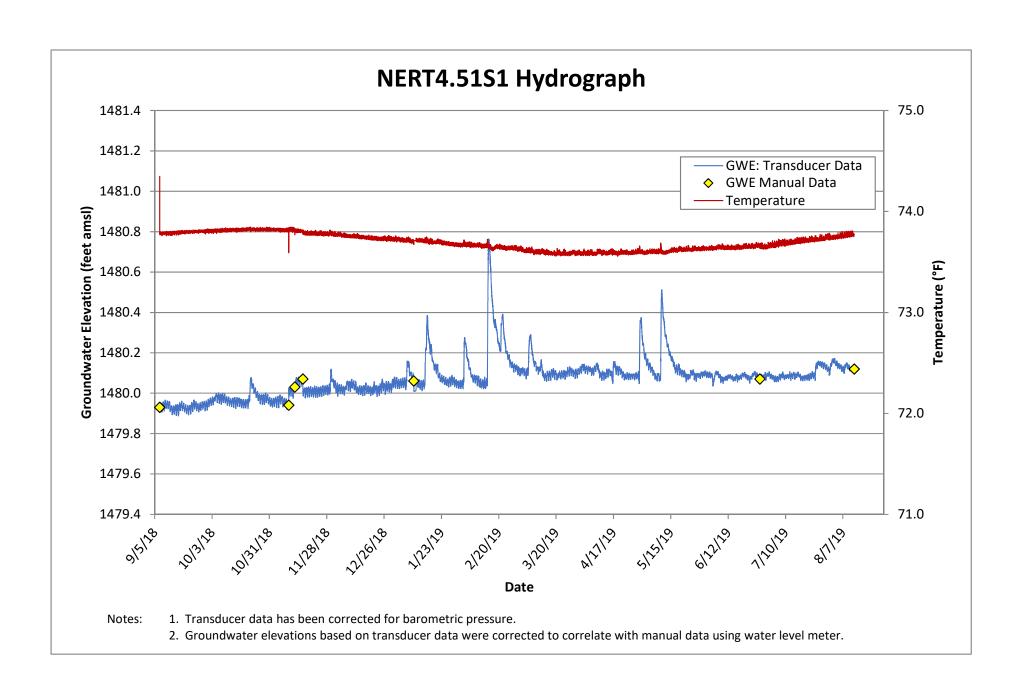


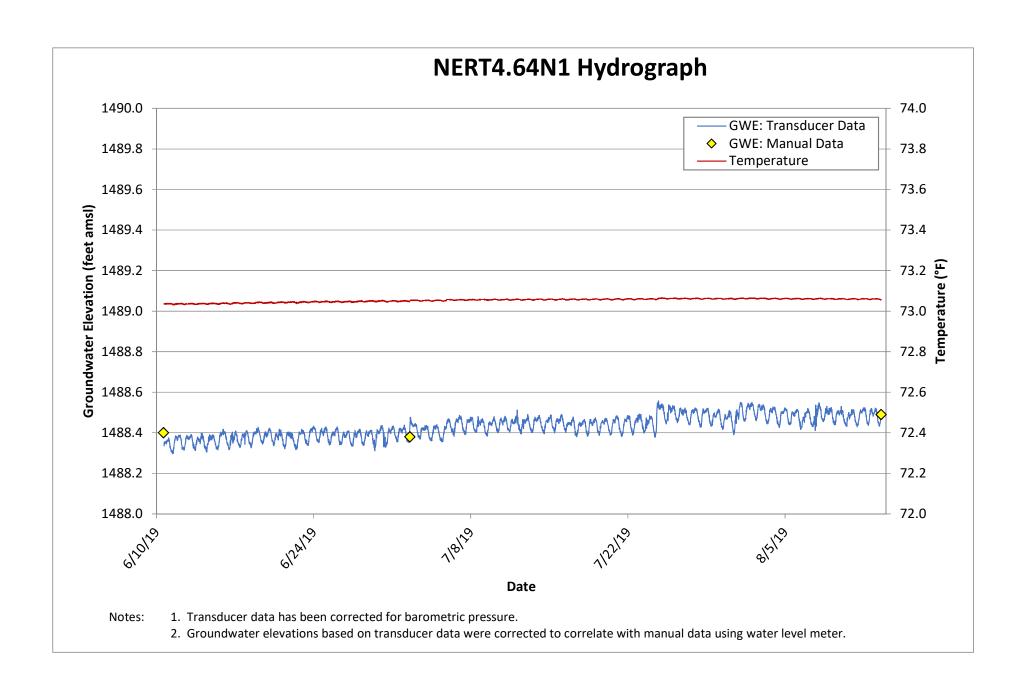


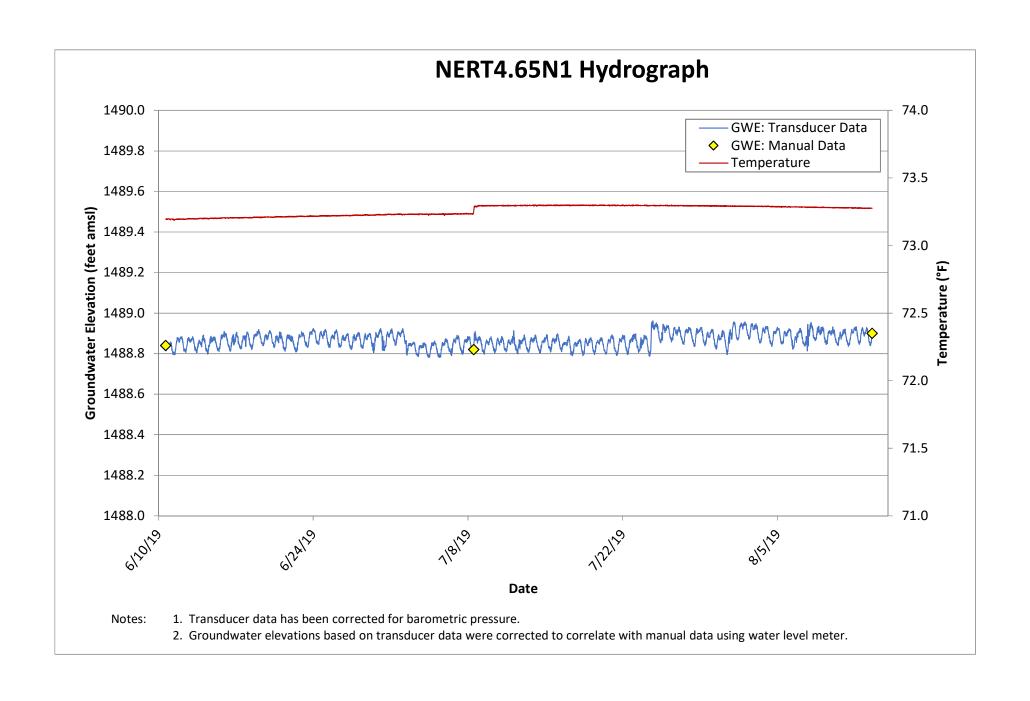


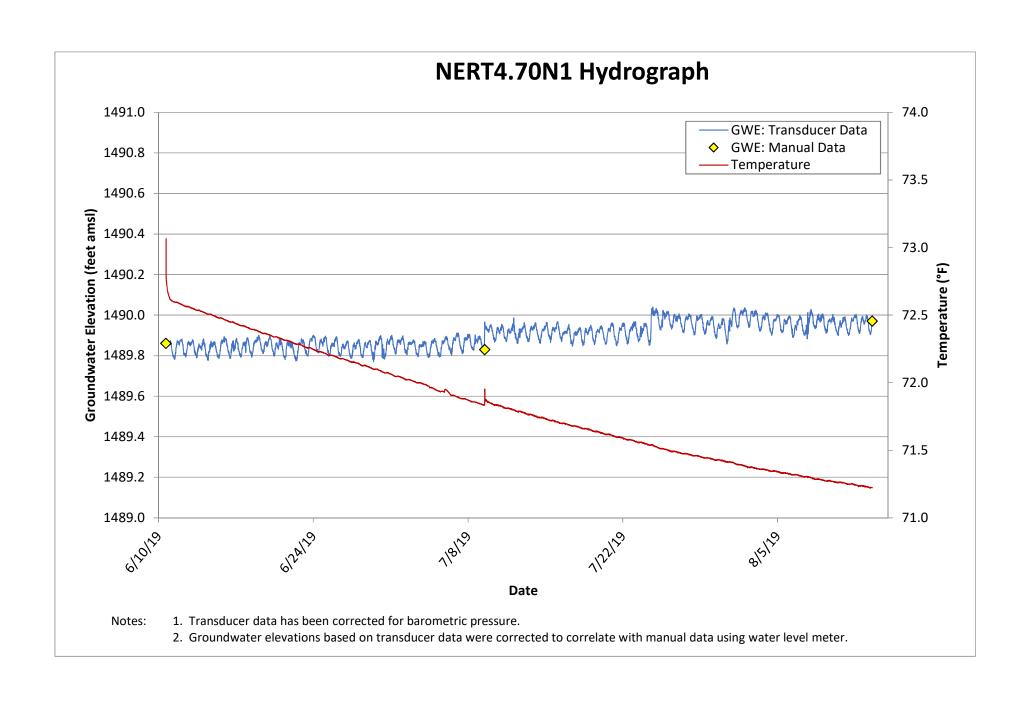


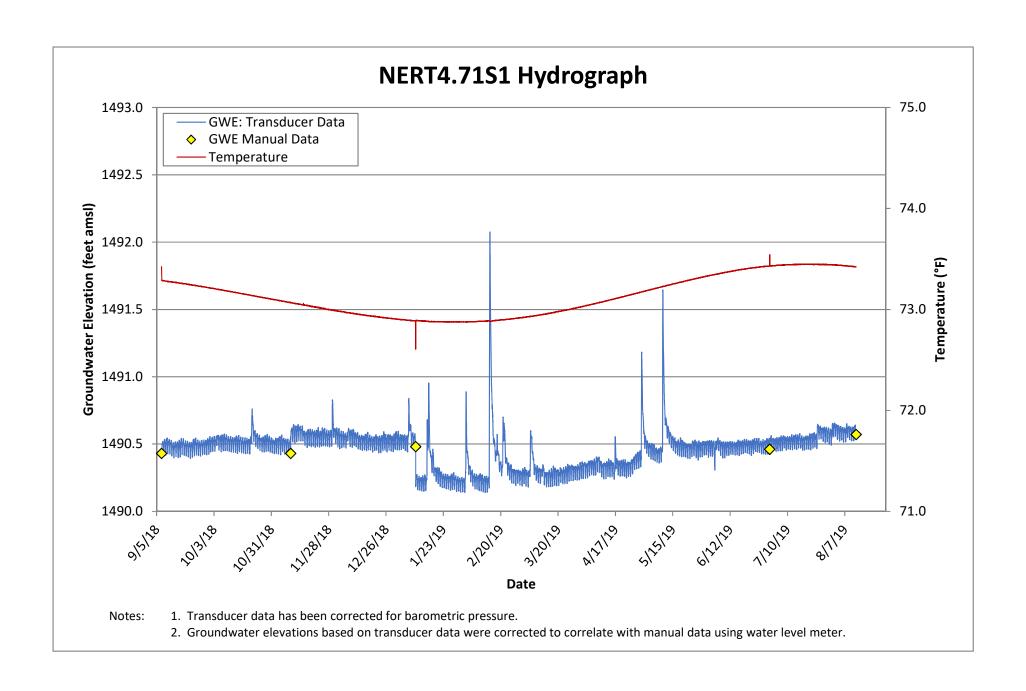


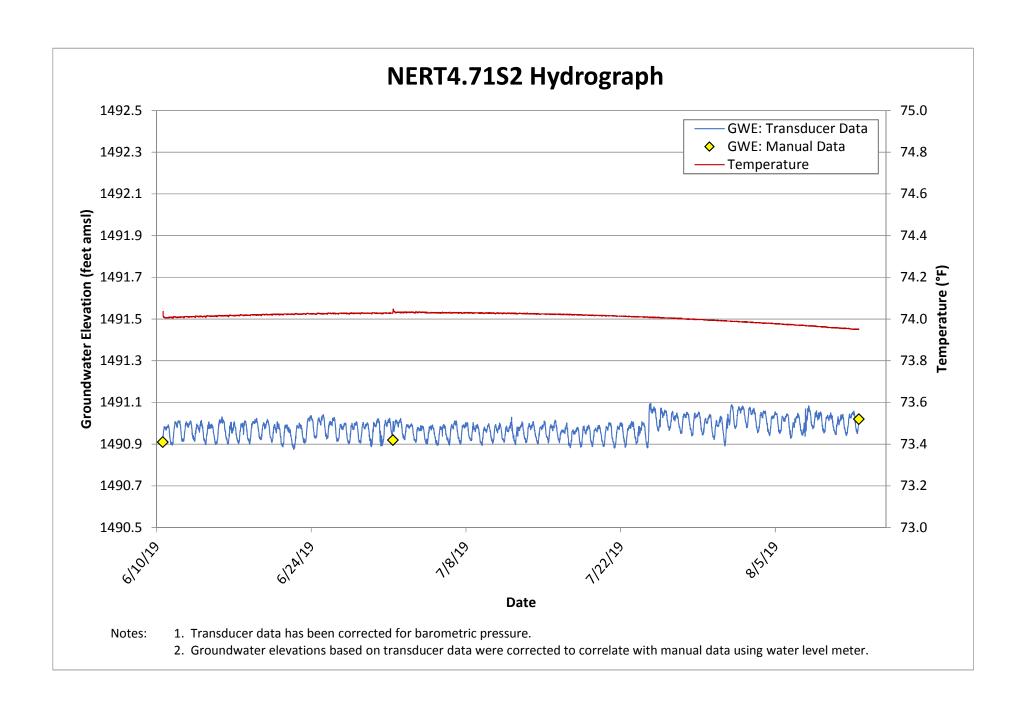


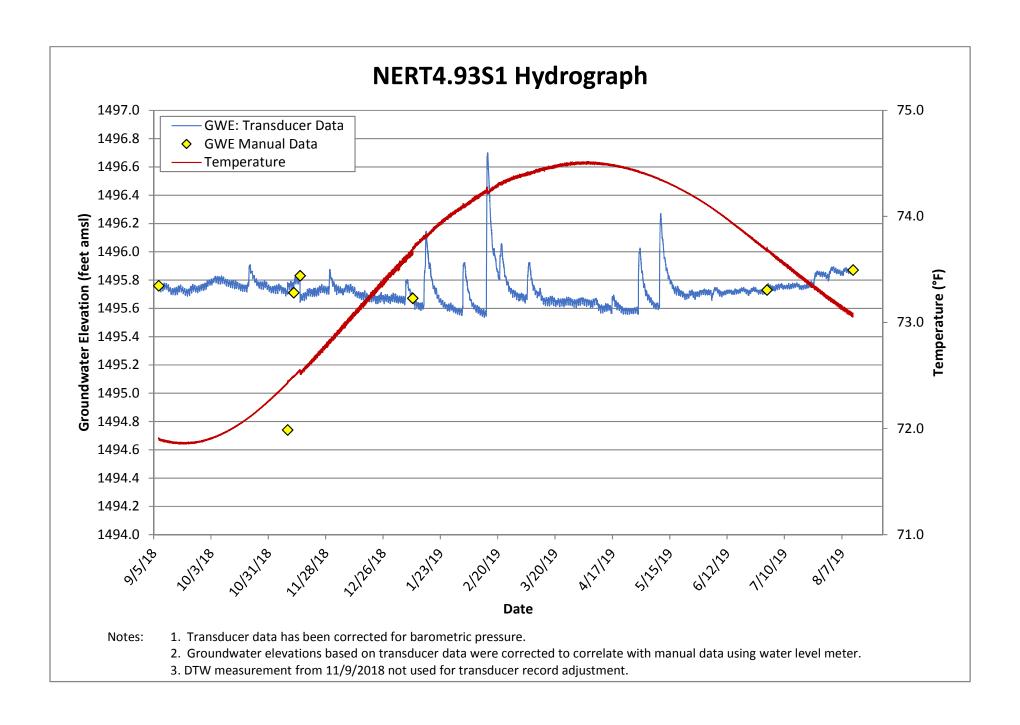


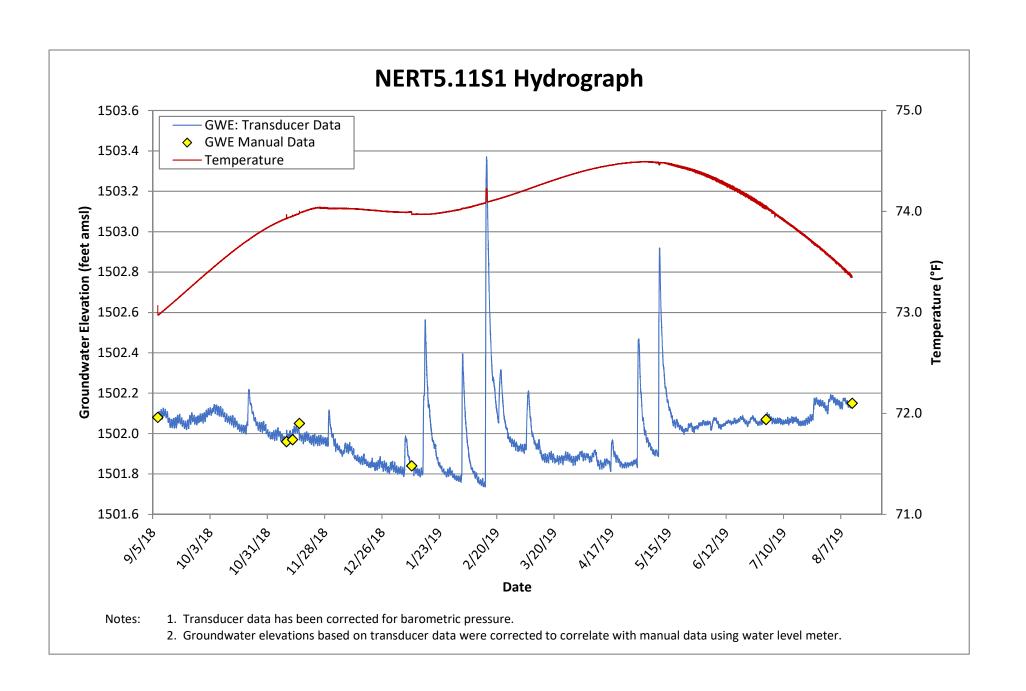


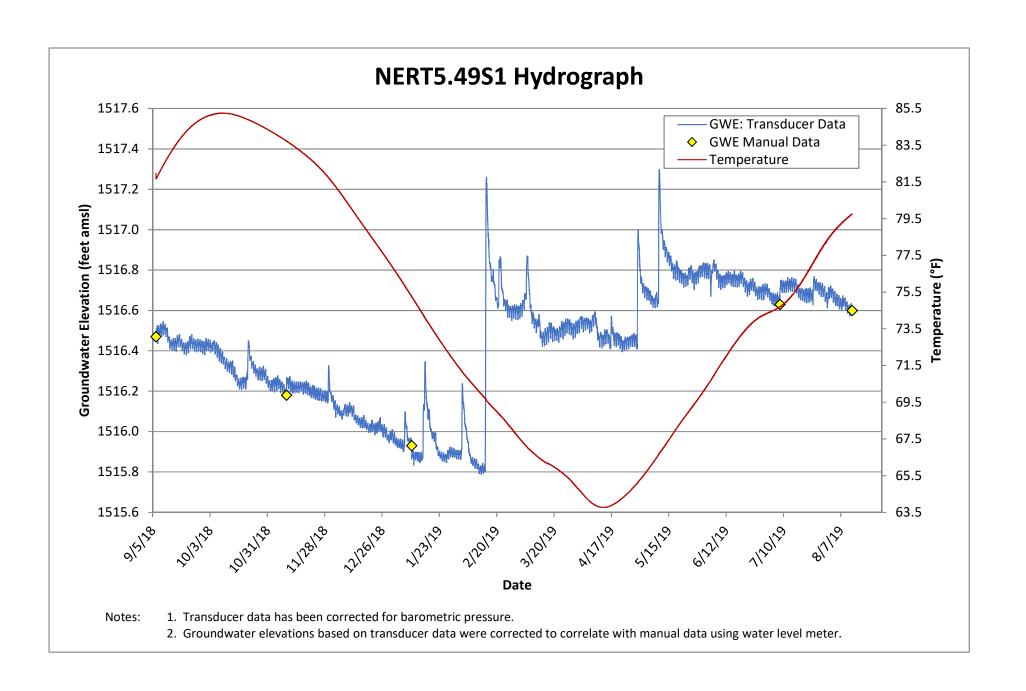


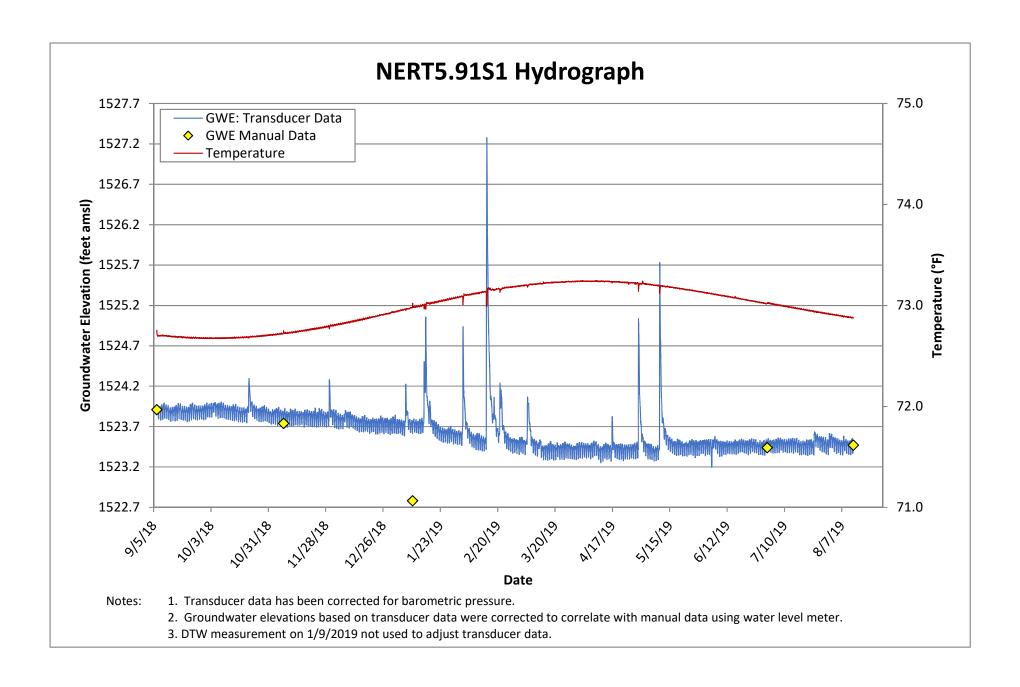


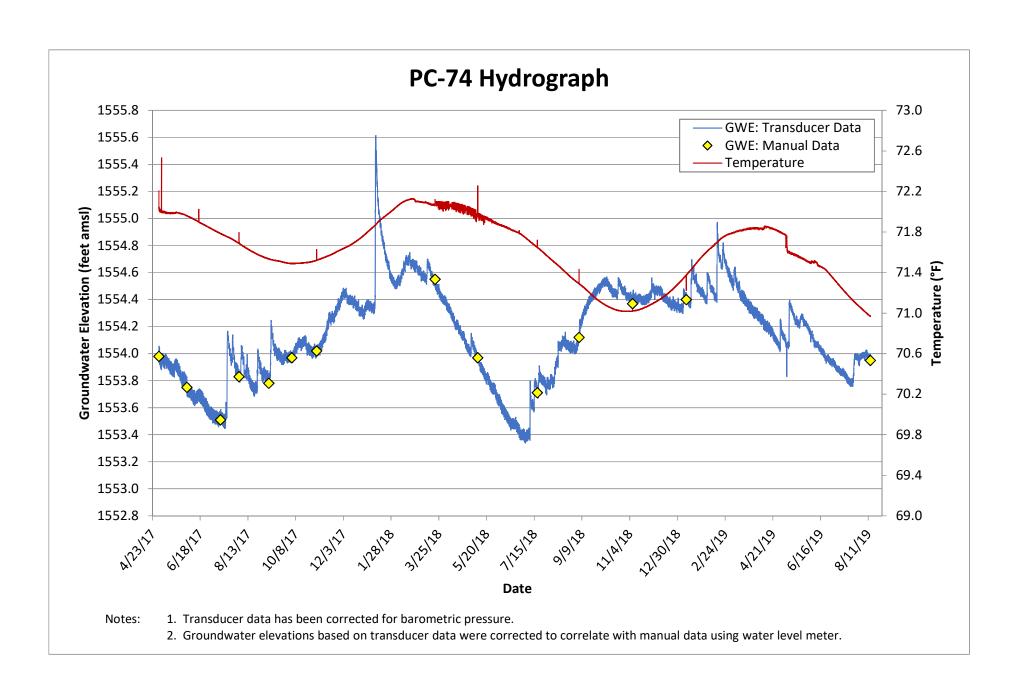


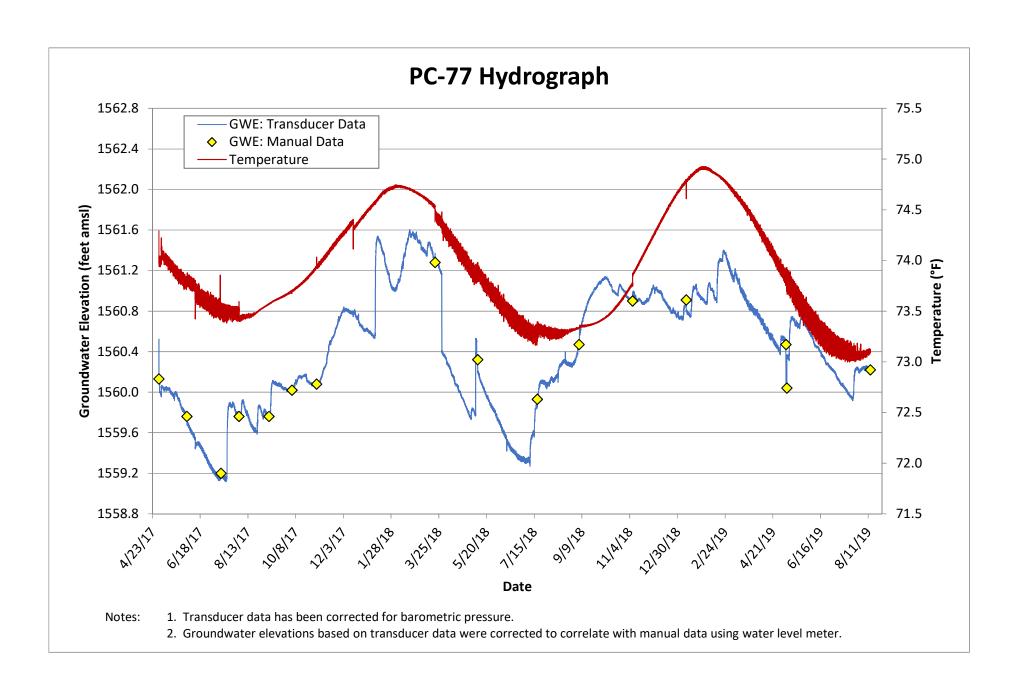


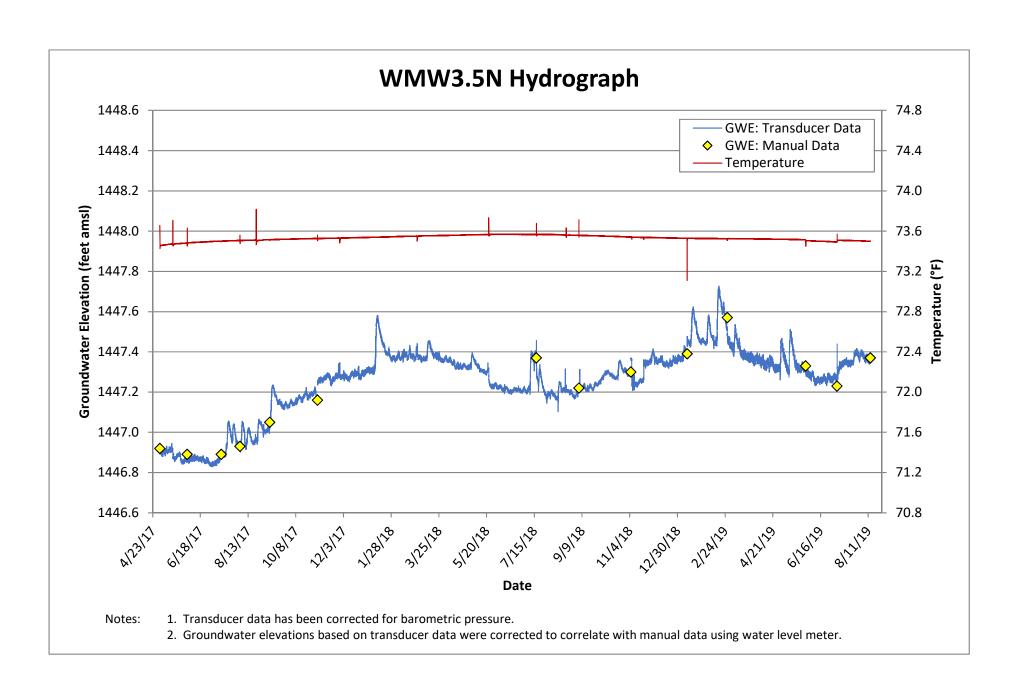


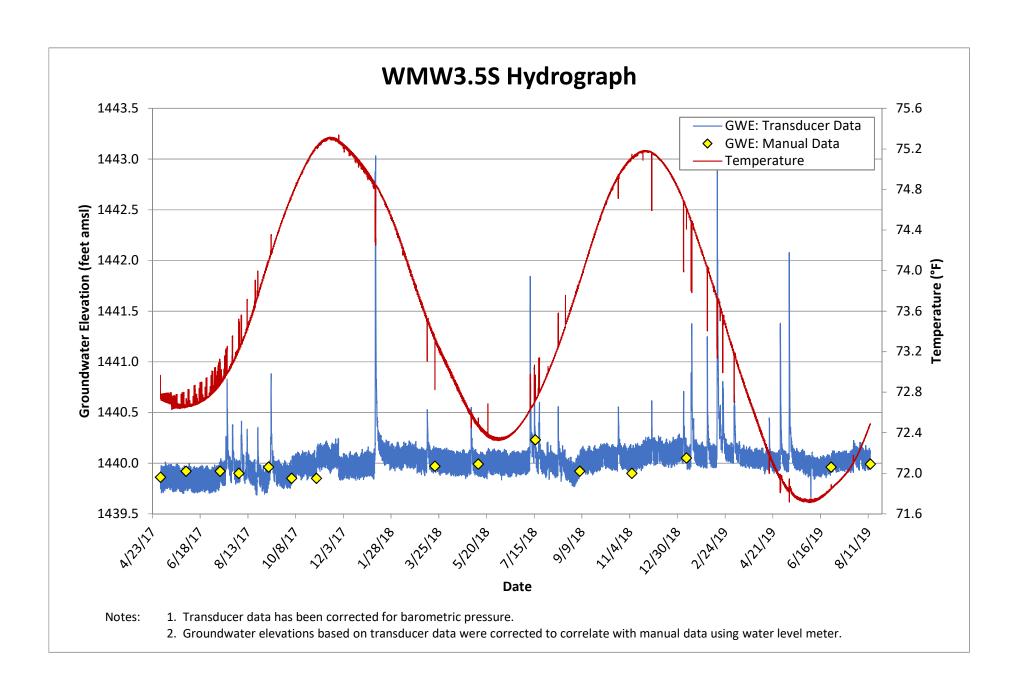


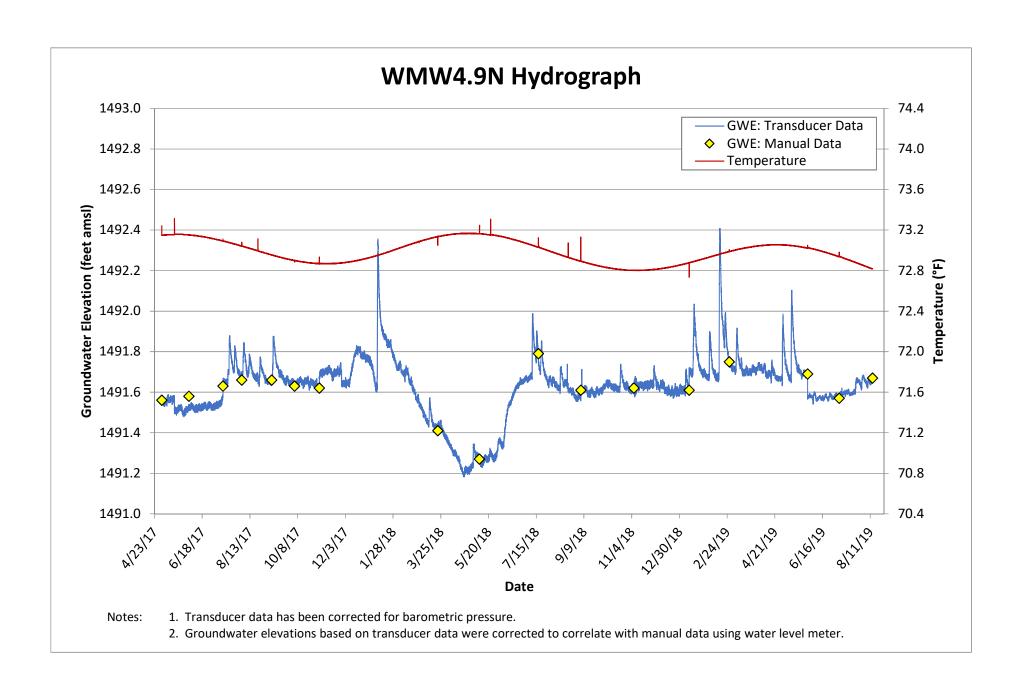


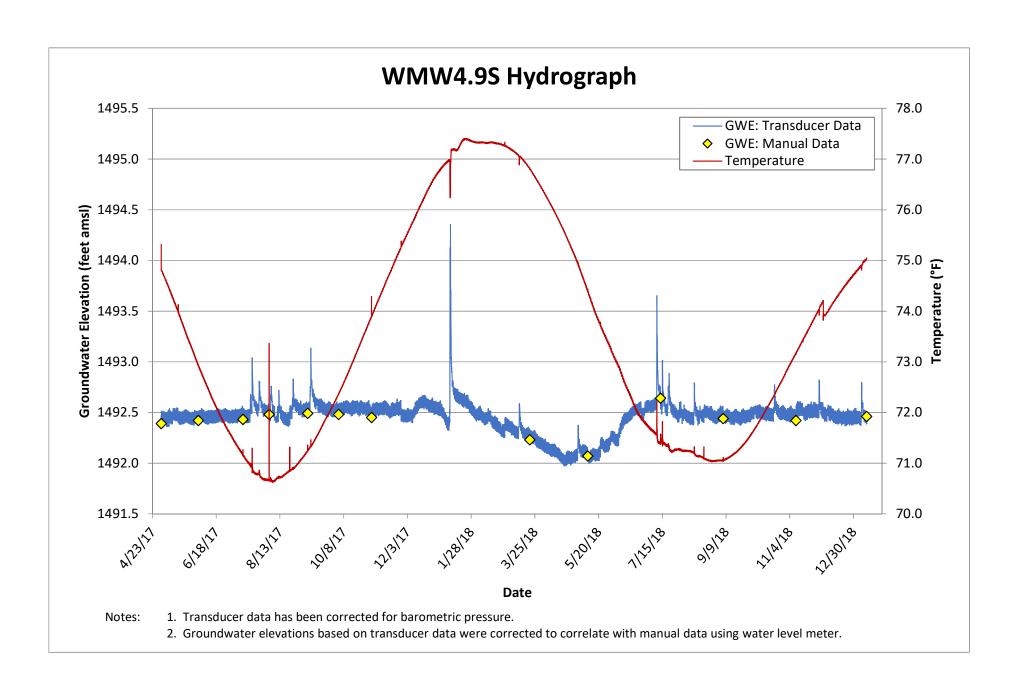


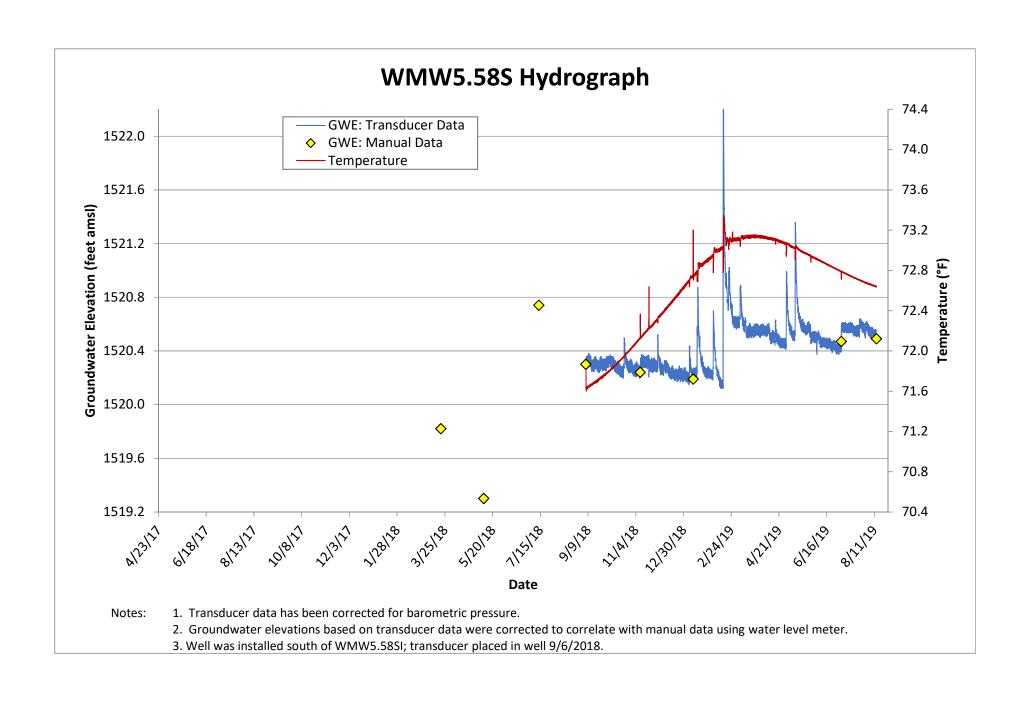


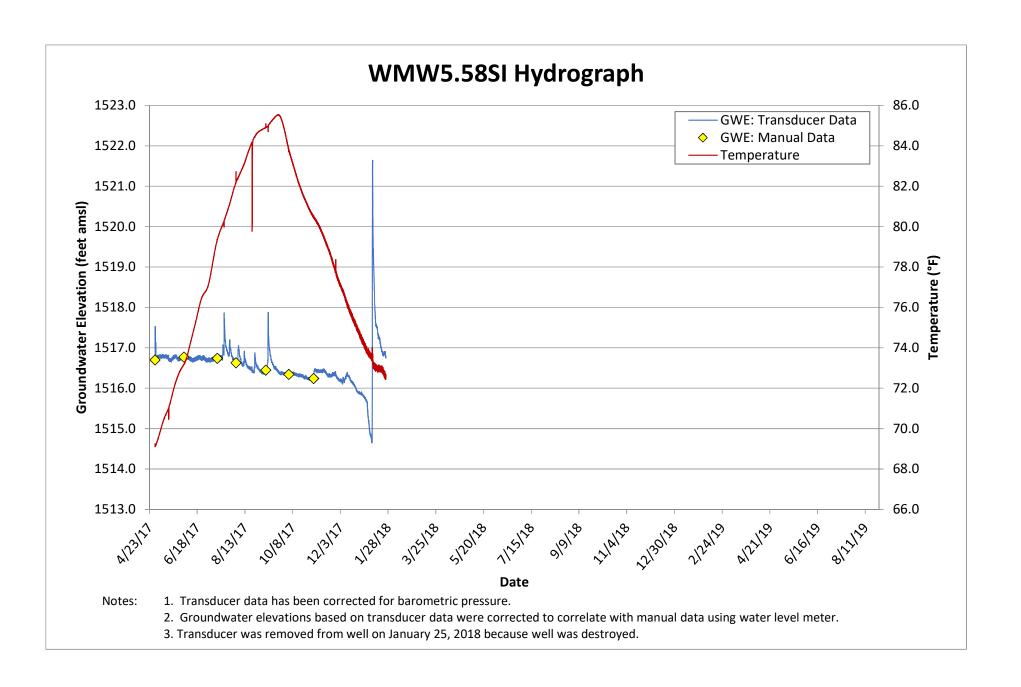


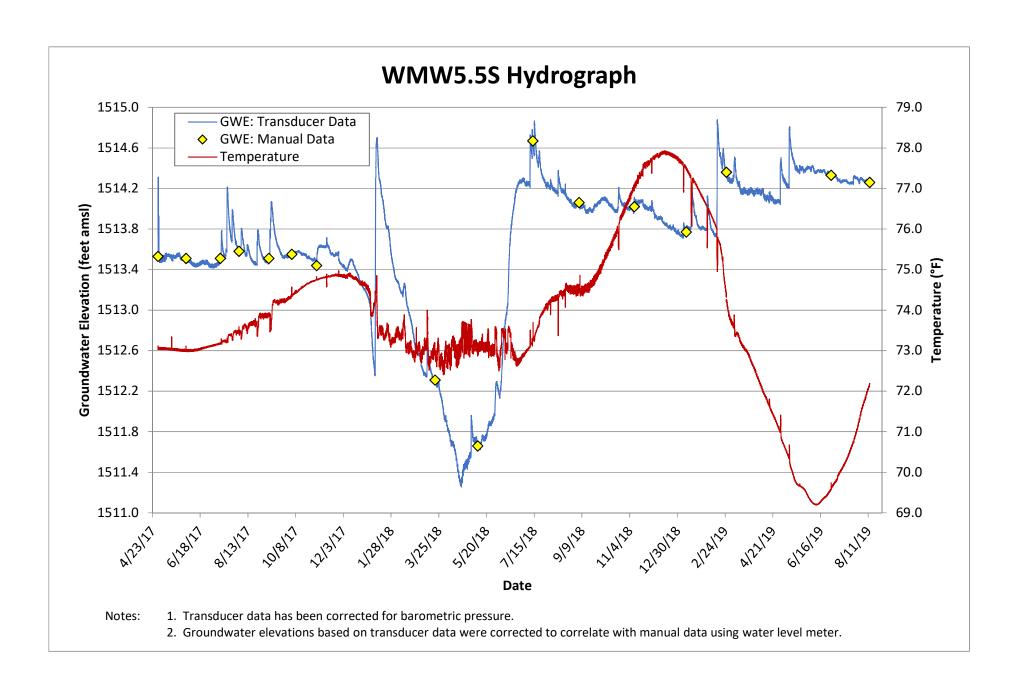


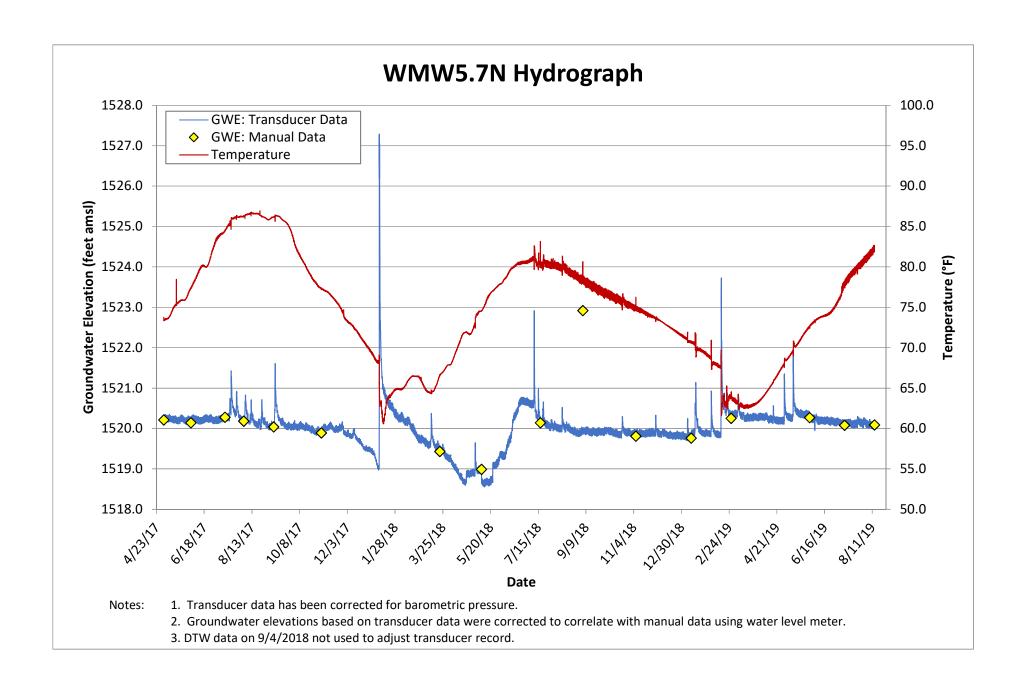


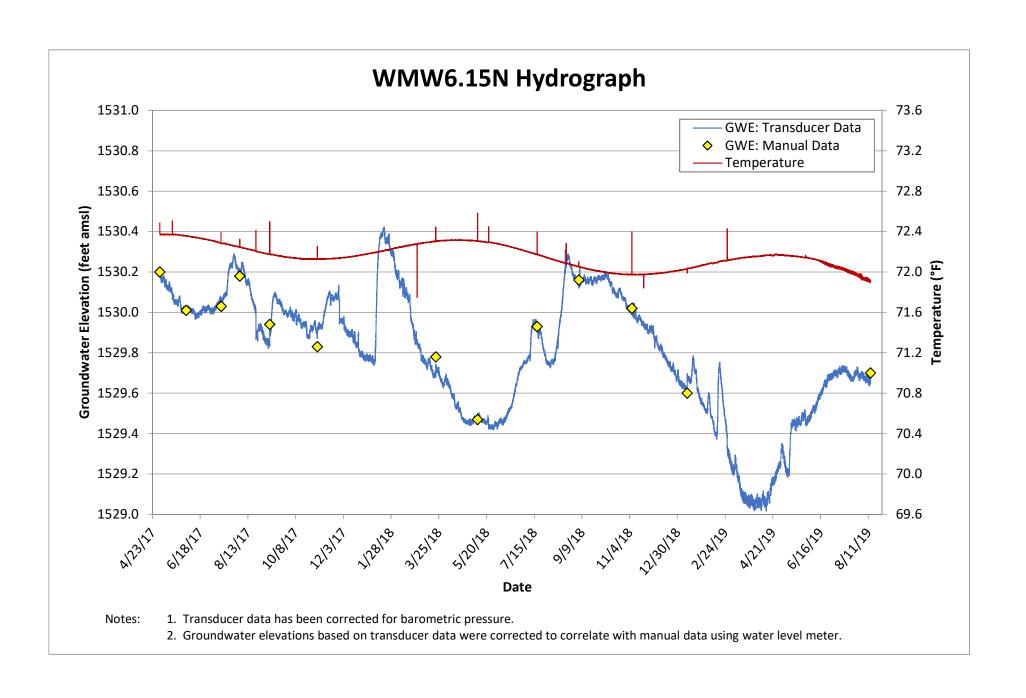


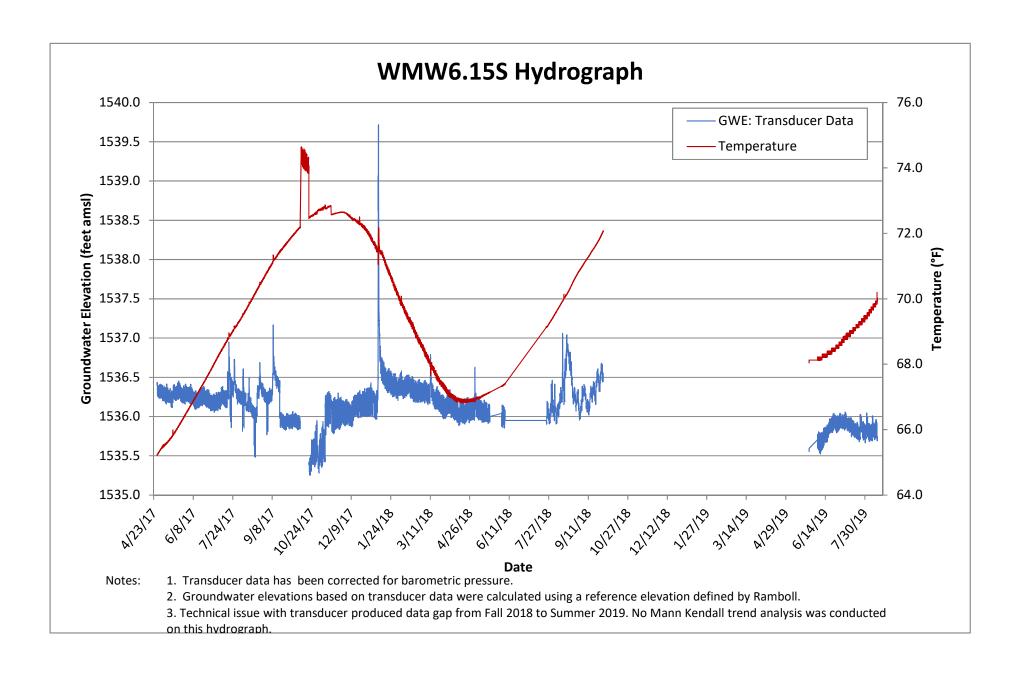


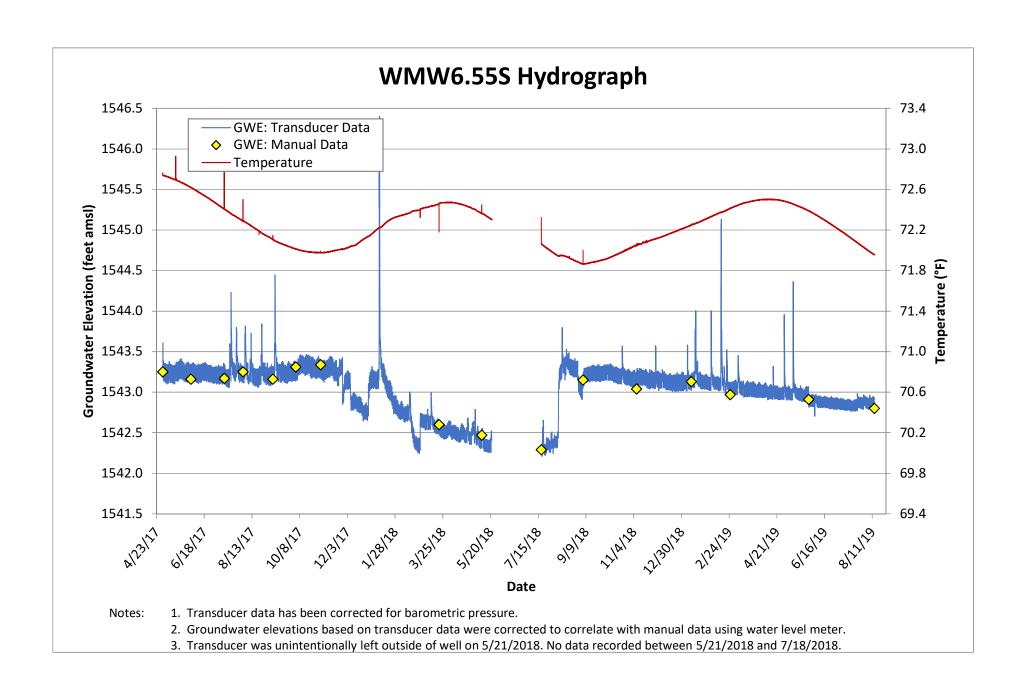


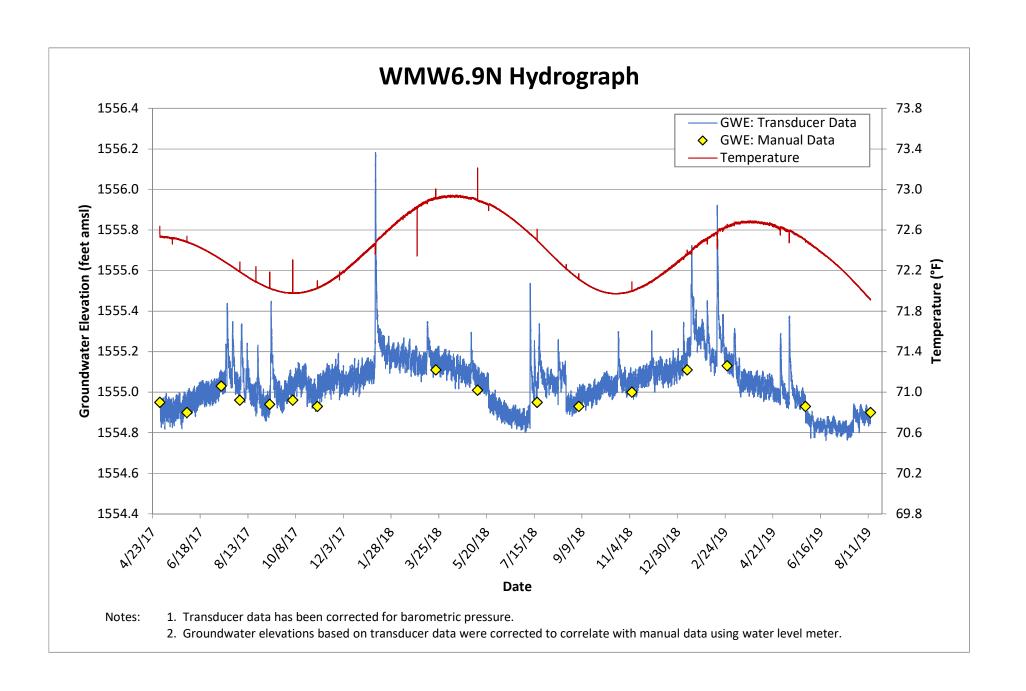


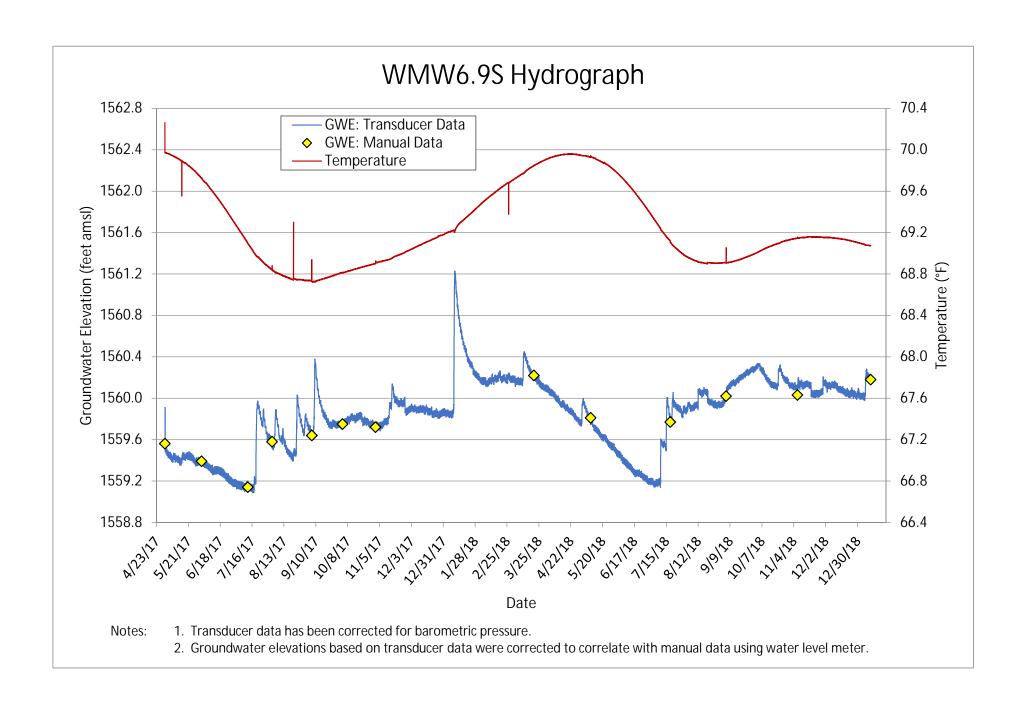












Appendix D

Daily Field Reports

		DA	ILY AC	IIVIIY	REPORT					
DATE:	11/117		Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Region Groundwater R	I –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilot		Temp °F:	degrees	850					
SITES / LOCATIONS:	NERT-S. SIC	le ot	Wind:	(till)	Moderate	High	Direction:			
	2 V wash		Humidity:	Dry	Moderate	Humid	Rain			
DEDCO	NNEL ON-SITE	e or shade	the approp		weather, win	d, and hu	midity	 		
				SES	oloyer	-	/ 1	Job '		
Eric R. Lang	· · · · · · · · · · · · · · · · · · ·	•	-	5E)			Staff	Gedo	gist_	

II .		·					-			
<u>17 - 44</u>										
VISITORS C	N-SITE		Employer	-	Pu	rpose of	Visit	Tim	e In	Time Out
Ĺ	· · · · · · · · · · · · · · · · · · ·						·			
WORK COMPLETED	D anslag as	us to a	extern i	he 40014	Maly a con	1,,,,,,,,,,,	4001/ 000		41	a lader
transducer down	Macidina for al	the we	115 location	el on the	south	side of	F the las	Vesus	Wash	arterly 1. The
Hendersen Landfil	I gate was in	ccessible	on the	Ballena	roadside.	due to	Someone	100km	the is	NULLA
locus tegether.	I had to h	he Fran	mw-20	to Mu	-13 to per	form in	باري الاساء	151 15 A 16 16 16 16 16 16 16 16 16 16 16 16 16	om log d	ling upen
per Erming the L	ounloading of 1	nex-13	the leve	(loader	troze up	7 h/h	ued back t	o me	truck	to retrieve
10 45 will be on	r for the leve	records	sino ti	no trav	AGNOG 40	us not	THE PROCES	1.41/1	AUE	ath site
wells mere gang	sed and trandu	cers dan	placedad	ans I	nas offer	to for 1	me office 6	1300).	221-13/86
						74.				
Reviewed Health Safety I					UCIED:					AFETY IREMENTS
1 Toviewed Health Balety I	rian and 111713, and of	ological awa	ichess docu	illelit.						BEEN MET
									Yes	No
								L		
Equipment at the Site (in			quipment):				Date Arri	ved	Date	e Removed
Solonist Le	uel loader ter louel me									
ir va	ter lovel me	ter								
Material/Supplies Receiv	ved at the Site:									
Field Activities and Rem		bove:								

Name: Eni R. Mauf

Date: /////7

		DAI	LY AC'	TIVITY	REPORT	•				
DATE:	11-2-17		Day:	S	M	Т	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI -	-	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilot T	l l	Temp °F:	degrees	82°				· ·	
SITES / LOCATIONS:	NERT - N. 51 d	- 1	Wind:	Still	Moderate	High	Direction:			
	2V wash		Humidity:	Dry	Moderate weather, win	Humid	Rain			
PERSO	NNEL ON-SITE	oi siiaue i	пе арргор		oloyer	a, and nu	many	Job 7		
Eric Wane				éEs	<i>510</i> , C1		Star	F Ga	-10-1-7	L
<u> </u>	4								riogisi	
VISITORS (ON-SITE		Employer		Du	rpose of	Vicit	Tim	o In	Time Out
VISITORS			Employer		ru	rpose of	VISIL	11111	ein	Time Out
nas continuous	condinator well not been slugged transducer of the transducer well contine to mell of the to	and not had not have to the second	ng and reeres record manth the off the M	during any to en t	y trunsdu + ope eadings s sure prop vesus was AD-30	vations, since , sev chea	may need	callbroad a	level things check his m his onde the G	loader Monitoring 2 month eset 911
The view red reduction surety	i idir did 111 is, did 0101	ogivar awa		milent.						BEEN MET No
Equipment at the Site (i	ncludes Subcontractor	supplied e	quipment):	}			Date Arri	ved	Date	Removed
261000	ruel loader	4			=======================================					
i h	eater revel me	ter								
Material/Supplies Recei	ved at the Site:				-			340		
Field Activities and Ren	narks Not Presented Ab	ove:								

Name: Gia a Mian

Date: 11/2/17

Well ID	Latitude	Longitude	Date of DTW Measurement	Time of DTW Measurement	Depth to Groundwater	Transducer pulled up & inspected?	Download Data?	Data Log #	Verified Data?	Record Time: Transducer / Reference /	Transducer Synchronized &	Comments / Condition of Transducer
			(mm/dd/yy)	(hh:mm)	(feet)	(Note time) (1) (2) (3)	(4)		(5)	Difference (hh:mm:ss) (6)	Reset? (7)	
AA-30	36.0865571	-114.9742534			-	yes		2069913		13/400	\	Excellent Con other
AA-30	30.0003371	-114.9742554	רו/י/וי	1308	19.41	1309	Yes	#37	yes	131906	yes	Restarted @ 1330
COH2B1	36.0863473	-114.9861928		1200	100	yes		2069892		-65ec 132900	yes	Excellent condition
00.125.			11/1/17	1323	16.72	1324	yes	# 38	<i>xes</i>	132847	e e	Rostantes @ 1345
LNDMW1	36.0932094	-114.9572109		1	·	yes		2069896	yes	114700		Excellent condition
3	,00.0002001		11/1/17	1/4100	37.03	1142	yes	#32	100	114636 +245ec	yes	Restarted & 2000
LNDMW2	36,0959057	-114.9581419	1 110	6 82 6	211 = 2	yes	*	2069894	4.0	094300	1106	Excellent conditions Restarted @ 094500
LINDINIVIL	00.000007	1141.0001410	11/2/17	0936	34.52	0937	NO'	2069879	NO	094236	yes	_
MW-13	36.0893990	-114.9668492				yes	yes	2069903	yes	1/0200		*NO Readings were records Excellent condition -
10100	00.000000	114.0000402	11/1/17	1001	35.16	1002	10	#31	ye)	110214 -1456	yes	Restarte 111500
MW-20	36.0913381	-114.9591051				Yes		2069901		092100		Excellent condition
	00.00 1000 1		11/1/17	0916	32.94	0918	Yes	#30	Yes	092029	Yes	Restarte 094500
PC-74	36.0875307	-114.9976758	, , ,		11 20	1/85		2067239		141200-	SISEC	Excellent condition
			411/17	1406	11.30	1407	yes	# 40	185	141251	y-es	Restarted @ 1480
PC-77	36.0863375	-114.9982664			_	yes		2063359			+171sec	Excellent Condition
			11/1/17	1435	6.78	1438	yes	# 42	YE	144409	yes	Restarted 1500
WMW3.5N	36.0976828	-114.9480654		04.76	35,38	yes		2069895	e e e	091500		Excellent aondition
			11/2/17	0856	35,38	0901	yes	# 43	yes	091530 - 30 secs	Yes	Restarted@093000
WMW3,5S	36.0962514	-114.9451632	11.110	0029	612 60	yes	yes	206 5098/	ves	084500	yes *	Excellent condition.
			11/1/17	0837	43.69	0839		#29	7-7	-32 sec	702	
WMW4.9N	36.0949374	-114.9664624	11/2/2	0055	2, ~	yes		2069885	yes	100400		Excellent Condition
			11/2/17	0955	31.25	0956	yes	# 44	100	100358 +2 sec	yes	Restarted @ 10150
WMW4.9S	36.0909079	-114.9664822	12/./.	120100	20.00	yes	Yes	2069899	yes	12/000	Ves	Excellent Condular
			11/1/17		26.39	1-7	(,)	#33		120915		Restarted to 121500

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Data Log #	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm;ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
WMW4.9S Barometer	36.0909079	-114.9664822	11/1/17	121100	w	yes 121100	yes	2069737 #34	y45	121300 121358	yes	Barometer in Exochors Constitutes Restarted @ 12300
WMW5.58S1	36.0891989	-114.9778061	11/1/17	124600	9.84	yes 12480	res	206 9897 #36	yes	125700	yes	Excellent condition Restarted @ 130000
WMW5.5S	36.0873319	-114.9754580	11/1/17	123100	14.78	yes 122200	Yes	2069900 #35	yes	123600	yes	Excellent condohan Restantos @124500
WMW5.7N	36.0886006	-114.9798359	11/2/17	1027	8.61	Y-es 102-3	yes	2069404 # 45	yes	102700	ssecs yes	Excellent Condition Restanded @ 104500
WMW6.15N	36.0912006	-114.9865133	11/2/17	1046	22.72	γes 1047	ye5	2069891 446	yes	105059	sect yes	Excellent condition Restauted @ 110000
WMW6.55S	36.0884676	-114.9942317	רו/ו/וו	1424	15.91	yes 1425	Yes	2069889 #41	ves	142900 t	27825 Ves	Excellent Condition Rosslavted @ 144500
WMW6.9N	36.0918121	-114.9986259	11/2/17	1102	18,23	γe5 1104	yes	2068798 #47	xes	/10700_8 /108>7	nsecs yes	Excellent Condition
WMW6.9S	36.0890141	-115.0002799	11/11	1350	10.88	yes 1351	yes	2067219	res	135700 - 135624		Excellent condition Restaved @ 140000
									-			
											~	
				A						, ,		-

Notes:

- 1. Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.
- 2. Note conditions of the rope and transducer; clean transducer if necessary.
- 3. When checking transducer, compare the transducer's time to the Leveloader time, and calibrate if needed.
- 4. Data to be downloaded quarterly (approx. beginning of August and November).
- 5. Verify that the serial number for the Log ID downloaded matches the serial number of the transducer, and that data appears complete (should have data starting in April/May, recording every 15 minutes.
- 6. Record transducer time, time of reference clock, and difference in time between the two.
- 7. Synchronize transducer to Leveloader, and restart the transducer (erase previous data) so that a future start time is set to a 15-minute interval (10:15:00, etc.).

DATE:										
DAIL.	3-20-18	,	Day:	S	M	(I)	W	Th	F	S
PROJECT NAME:	NERT Region Groundwater R	N-	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilo	, ,	Гетр °F:	degrees	69°		<u> </u>	I		
SITES / LOCATIONS:	s. s.de of Lv wa		Wind:	Still	Moderate	High	Direction:		· · · · · · · · · · · · · · · · · · ·	
			lumidity:	Dry	Moderate	Humid	Rain			
PEDSO	NNEL ON-SITE	le or shade th	e appropi			d, and hur	nidity			
	WELL ON-SITE				ployer			Job Ti		
Eric wang		Υ		GES_			Staff	Geologist		
VISITORS O	ANI CYTE									
VISITORS U	N-511E	<u>En</u>	nployer		Pul	rpose of V	⁷ isit	Time 1	n	Time Out
ORK COMPLETED	: Onsite @ 103	or to chara	<u> </u>							
obert Huening of new monitoring was at was inside that sells on the Saxt attside @ 1600	- SMUH in Fer nell was recom t mell. GES o h side of the For the office	med me thy installe also souged wash, with	finat in it. I add h the ex	wmns. s place sitional xcoption	5851 was near the mell who	ien Co	MACOLZA	mw-20(due t	e restrict
chart Huening of new monitoring was inside the south of south of the south offsite @ 1600. IST SAFETY ACTIONS	F SMUH IN EVENUELL WAS RECOMMENDED OF THE STAKEN TODAY/S	med me 'My installe ubo gange wash, with	fnat) tin rt l / add h / he of	withins. s place whom cophon s CONDU	5851 was near the mell who	ien Co	MACOLZA	mw-20(due t	e restricti construction the train
cobert Huening of Inew monitoring was inside the south of the south office of the Safe of IGOS	F SMUH IN EVENUELL WAS RECOMMENDED OF THE STAKEN TODAY/S	med me 'My installe ubo gange wash, with	fnat) tin rt l / add h / he of	withins. s place whom cophon s CONDU	5851 was near the mell who	ien Co	MACOLZA	donal Fox the gave tecom r complet	GES Eque	e restricti construction the train
cobort Huening of new monitoring was inside the saxt ells on the saxt ells on the Saxt ells of 1600. IST SAFETY ACTIONS eviewed Health Safety Plant	F SNWH IN EX- WELL WES PECON THE WELL GES OF THE OFFICE TO TAKEN TODAY/S. an and THAS, and biol	med me 'My installe albo gouge wash, with e. AFETY INSP. logical awarene	ECTIONS	withins. s place whom cophon s CONDU	5851 was near the mell who	ien Co	shed/Abam eath. Shu 55 per A	Hand For the save of the save	SAF QUIR VEBI	e restriction of the train of t
Henry Huening of her monitoring of her monitoring in the sast was the sast with the sast water met	STAKEN TODAY/S, an and THAS, and biol	med me 'My installe albo gouge wash, with e. AFETY INSP. logical awarene	ECTIONS	withins. s place whom cophon s CONDU	5851 was near the mell who	ien Co	MACOLZA	Hand For the save of the save	SAF QUIR VEBI	e restriction of the training of training of the training of the training of training
The monitoring of the monitoring of the monitoring in the sast was the sast with the sast with the safety Planting of the monitoring of th	STAKEN TODAY/S, an and THAS, and biol	med me 'My installe albo gouge wash, with e. AFETY INSP. logical awarene	ECTIONS	withins. s place whom cophon s CONDU	5851 was near the mell who	ien Co	shed/Abam eath. Shu 55 per A	Hand For the save of the save	SAF QUIR VEBI	e restrict. Construct The train St. AU ETY EMENTS EEN MET No
chert Huening of hew monitoring was inside the saxt wells on the saxt of saxt	F SIMH IN EXPLOYED WAS TECOM THE WAS TECOM TO A SECTION TO A SECTION	med me 'My installe albo gouge wash, with e. AFETY INSP. logical awarene	ECTIONS	withins. s place whom cophon s CONDU	5851 was near the mell who	ien Co	shed/Abam eath. Shu 55 per A	Hand For the save of the save	SAF QUIR VEBI	e restriction of the train of t
Henry Huening of her monitoring of her monitoring in the sast was the sast with the sast water met	For the officer STAKEN TODAY/S, an and THAS, and biol ludes Subcontractors A the Site:	AFETY INSP	ECTIONS	withins. s place whom cophon s condu	5851 was near the mell who	ien Co	shed/Abam eath. Shu 55 per A	Hand For the save of the save	SAF QUIR VEBI	e restriction of the train of t

Name: Gric R Many

Date: 3-20-18

	D	ALLI AC	TIATI	KEPUKI	L				
DATE:	3-21-18	Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilot Test	Temp °F:	degrees	70°					
SITES / LOCATIONS:	N. side of L.V. wash	Wind:	Still .	Moderate	High	Direction:			
		Humidity:	Dry	Moderate	Humid	Rain			
DEDCO	Circle or shad	le the approp			d, and hun	nidity			
	ININEL ON-SITE			oloyer			Job Tit	le	
Eric Wang			GES			Staff	Geologi	st	
VISITORS C	ON-SITE	Employer		Pur	pose of V	'isit	Time I	n	Time Out
Upon Completion Colf Candfill meds Key For AA-30 LIST SAFETY ACTION	on the cap was stirmen well at Ecom was unlocked today According to cauge, carmen instructed before refurning to the then back to the	e + Journal me to phe site (of fice to	out ta	these so	the 4 r	emaining until	wells on	Pas	side until Eproporti. Esstatut apany
Reviewed Health Safety Pl	an and THAs, and biological awa	areness docum	ent.			·	HA	QUIR	EMENTS EEN MET No
Equipment at the Site (inc	ludes Subcontractor supplied e	quipment):				Date Arrive	d E	ate R	emoved
Material/Supplies Received Field Activities and Reman									
		Date:					dell'entre de la company		

Name:

	Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
	AA-30	36.0865571	-114.9742534	3-2018	1317	20.58	yes 1318	yas	yes	132600 132601 11501, JURE	445 13 36 00	Trustum m Excellent condution
	COH2B1	36.0863473	-114.9861928	3-20-18	1353	16.15	Yes 1255	yas	yes	140196 140191 -1500 & CF	pes 141500	Transduarm Excellent Consi fra
	LNDMW1	36.0932094	-114.9572109	3-20-18	1157	36.89	yos 120100	Yes	yos	120800 120801 -1500 d.	yes 121500	Transductor in exactionst
	LNDMW2	36.0959057	-114.9581419	3-21-18								Locked Postponed per carmen
*	MW-13	36.0893990	-114.9668492									No Access
¥	MW-20	36.0913381	-114.9591051						·			no Access
	PC-74	36.0875307	-114.9976758	3-20-18	1450	10.77	yes 1452	yes	785	145900 145901 -1502 J.FR	151500	Transducer in Exactlant condition
	PC-77	36.0863375	-114.9982664	3-20-18	1528	5,58	Ye5 1531	yes	yes	15 3900 15 3801 -150 WF	yes 1545	Transducer in Ecoplant Consider
*	WMW3.5N	36.0976828	-114.9480654	3-21-18								Locked Postpened per Commen
	WMW3.5S	36.0962514	-114.9451632	3-20-18	1038	43.57	yes 1040	yes	Y15	105100 1051012 -15ec	4e \$ 110000	Transhiper in excellent
	WMW4.9N	36.0949374	-114.9664624	3-21-18	0928	31.96	yes 0931	yes	Yes	093205 093201 -1 sec 188	yes 094500	Transduce in excellent cardition
	WMW4.9S	36.0909079	-114.9664822	3-20-18	1225	26.61	yes 1231	Yes	yes	123800 b 3601 -1500	yes 130000	Transduca makouhent condition

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer	
WMW4.9S Barometer	36.0909079	-114.9664822	sone	qs	abone	yes 1231	yes	yes	12460G 124601 -15cc diff	Y-85 13000	Boranela in excellent conditions	
WMW5.58S1	36.0891989	-114.9778061	100m Ma 3-20-18	1337	17,52	Remard from ord world	yes	Yes	The same of the sa	NO	well demolshed, transducer retrieved by sound and given to GES. George new deal	well dala on 1/25/11 snotocress
WMW5.5S	36.0873319	-114.9754580	3-20-18	1301	15.91	Y95 1303	yes.	yes	13/00G 13/00A -1900 AFF	yes 131500	Transducer in excellent cardition	,
WMW5.7N	36.0886006	-114.9798359	3-21-18	1005	9.07	Yes 1007	res	Yes	101400	465 103000	Translugger in excellent	f
WMW6.15N	36.0912006	-114.9865133	3-21-18	1046	22.77	yes 1042	yes	yes	104700	Ye> 1100000	Transducer in excellent condition	
WMW6.15S	36.0877433	-114.9878030	3-20-18	1422	7.90						** Do no pull up transducer **	
WMW6.55S	36.0884676	-114.9942317	3-20-18	1438	16.65	405 1440	yes	yes	/41200 /442013 -15€ d.FF	Y-05 144500	Transluce in Epallons Cardition	Marry con
WMW6.9N	36.0918121	-114.9986259	3-21-18	1110	18,05	465 1116	Yes	yes	111800 111801 -1 sec d.R.	113000	Transduces in Excellent Condition	
WMW6.9S	36.0890141	-115.0002799	3-20-18	1511	10,38	yies 1513	yes	pes	151600 151601 -1580 JJP	yes	Transducerm exactant and condition.	

Note:

- 1. Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.
- 2. Note conditions of the rope and transducer; clean transducer if necessary.
- 3. When checking transducer, compare the transducer's time to the smart device time.
- 4. Data to be downloaded bimonthly
- 5. Verify that the serial number for the Log ID downloaded matches the serial number of the transducer, and that data appears complete.
- 6. Record transducer time, time of reference clock, and difference in time between the two.
- 7. Synchronize transducer to smart device, and restart the transducer (erase previous data) so that a future start time is set to a 15-minute interval (10:15:00, etc.).

Grou Geoph	T Regional dwater RI — ical Pilot Test ath side of Circle or shad TE	Weather: Temp °F: Wind: Humidity: le the appropr		Moderate Moderate I weather, wind, a ployer	High Humid and hum		Job Titl		S
PERSONNEL ON-	outh side of Circle or shad	Wind: Humidity:	Still Dry iate day, v Emp	Moderate Moderate Moderate Weather, wind, a	Iumid	Rain nidity			
PERSONNEL ON-	Circle or shad	Humidity:	Still Dry iate day, v Emp	Moderate Moderate I weather, wind, a	Iumid	Rain nidity			
PERSONNEL ON-	Circle or shad		iate day, v Emp	Moderate I weather, wind, a ployer	Iumid	Rain nidity			
Eric lung	Circle or shad	le the appropr	iate day, v Emp	weather, wind, a		nidity			
Eric lung	TE		Emp	ployer					
			GE.	3		G			
							-0,00	_	
VISITORS ON-SITE							<i>J</i>		
VISITORS ON-SITE									
VISITORS ON-SITE				•					
VISITORS ON-SITE				;					
		Employer		Purpo	ose of V	<u>'isit</u>	Time Ir	1 7	ime Out
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on the boxtn site of the not insert into the look from the boxtn site of the on the south site of the	ash @ 693	والتناب واسلمه والمراح الما) L//	W 0/1	11 1	- 1/6	Y 8 C		
exter messages which tomorrow offsite	idn't allow		day &	Matternys	5 Bcu	ea ons, to	2 @ /1/C	e) +9	offs start
error messages which temperrow offsite	DDAY/SAFETY	dam log de the offi	day &	Winusss Winusss II try to d	5 Bcu	ea ons, to	e @ /IC transdu trans	SAFE	oth offs start game mas er
error messages which tomorrow, offsite	DDAY/SAFETY	dam log de the offi	day &	Winusss Winusss II try to d	5 Bcu	ea ons, to	transius trans	SAFE QUIRE	oth offs start game mag er
LIST SAFETY ACTIONS TAKEN TReviewed Health Safety Plan and THA	DDAY/SAFETY I and biological aw	INSPECTIONS	day &	Winusss Winusss II try to d	5 Bcu	ch ch's; the hish the	REG HA	SAFE QUIRE VE BE	Start Game 14.0 CTY EMENTS EN MET No
LIST SAFETY ACTIONS TAKEN TO Reviewed Health Safety Plan and THA	DDAY/SAFETY I and biological aw	INSPECTIONS	day &	Winusss Winusss II try to d	5 Bcu	ea ons, to	REG HA	SAFE QUIRE VE BE	Start Start Governments EMENTS EN MET
LIST SAFETY ACTIONS TAKEN TO Reviewed Health Safety Plan and THA	DDAY/SAFETY I and biological aw	INSPECTIONS	day &	Winusss Winusss II try to d	5 Bcu	ch ch's; the hish the	REG HA	SAFE QUIRE VE BE	Start Game 14.0 CTY EMENTS EN MET No
LIST SAFETY ACTIONS TAKEN To Reviewed Health Safety Plan and THA Equipment at the Site (includes Subcompany Level loade 1904)	DDAY/SAFETY I and biological aw	INSPECTIONS	day &	Winusss Winusss II try to d	5 Bcu	ch ch's; the hish the	REG HA	SAFE QUIRE VE BE	Start Game 14.0 CTY EMENTS EN MET No
LIST SAFETY ACTIONS TAKEN TO Reviewed Health Safety Plan and THA Equipment at the Site (includes Subcompany level loads) 1701	DDAY/SAFETY I and biological aw	INSPECTIONS	day &	Winusss Winusss II try to d	5 Bcu	ch ch's; the hish the	REG HA	SAFE QUIRE VE BE	Start Game 14.0 CTY EMENTS EN MET No

Name: Eu & Mary

Date: 5-9-18

	D	AIL I AC	TIVITY	REPORT					
DATE:	5-10-18	Day:	S	M	T	W	(Th)	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		1 5
	Geophysical Pilot Test	Temp °F:	degrees	100					
SITES / LOCATIONS:	South site of wash	Wind:	Still	Moderate	High	Direction:			
		Humidity:	Dry	Moderate	Humid	Rain			
PERCO	Circle or shad	le the approp			d, and hur	nidity			
	NNEL ON-SITE			oloyer			Job Tit		
Enc wang			GES			Geo	dagist		
VISITORS O	N-SITE	Employer		Dur	rpose of V	7isit	Tim. I	- 75	
		Linployer		<u>1 u1</u>	pose of v	ISIL	Time I	n 11	ime Out
							<u> </u>		
WODY COMPLETED									
and fransduces	onsite e the col	t Landa	ll @ C	70e b	portor	n monet	my = ing	1 001	CHAT
Surface nator	transloadings me-	- w/ 57	tanky i	consultan	B, Br	the sur	Velling	of in	13, 3
(53.8, 53.75, 5	3.50, 54.6, 54.65	RYGT	CUDY E	of trund -553)	Finishi		and thos		1 7 1
transducors a	12001 and I contin	wed was		monitor				المصرا في	,
worked today &	v downloading & po	that Th	is wells	transduc	or was	restart	b 1315	trans	وسلسه و دورو
back into the ino		toving me	201 4/	mo yav	umose	- wmn	14.93	was c	Campled
@ 1300, 0 Fish	to the Landwell	office to	- Metry	N AA30	i key	e 1330	then be	ich to	6B5
LIST SAFETY ACTIONS	S TAKEN TODAY/SAFETY I	NSPECTION	S CONDU	CTED:				SAFET	rv :
Reviewed Health Safety Pla	an and THAs, and biological awa	areness docum	ent.				RE	QUIREN	
							HA	VE BEE	N MET
								Yes	No
Equipment at the Site (incl	ludes Subcontractor supplied of	auinment).							
Surveying equip		-	· · · · · · · · · · · · · · · · · · ·			Date Arrive	ed J	Date Ren	10ved
Salinst Lavello		1511 (town (55))							
,	r level meter				l				
Material/Supplies Received									
Field Activities and Remar		·							

Name: En & hug

Date: 5-10-18

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
AA-30	36.0865571	-114.9742534	5-9-18	1525	21,02	1531	yes	yes	Mone	xes 1545	Excellent condition
COH2B1	36.0863473	-114.9861928	5-9-18	1510	16.32	yes 1517	yes	, yeş	Vene	Yes 1515	Excellent Condition
LNDMW1	36.0932094	-114.9572109	5-10-18	1226	36.92	y-e5 1231	yes) YCS	None	yes 1245	Excellent condition
LNDMW2	36.0959057	-114.9581419	5-9-18	0718	34,43	xes 0720	yes	Xes	vone	yes 0745	Excellent condition
MW-13	36.0893990	-114.9668492	5-10-18	0740	35,87	425 0742	yes	yes	pone	V-05 0800	Excellent Condition
MW-20	36.0913381	-114.9591051	5-10-18	0805	32.81	ре5 0807	yes	yes	None	Kes 0830	Excellent Condition
PC-74	36.0875307	-114.9976758	5-9-18	1432	11.35	kes 1435	kes	yes	pone	xes 1445	Excellent Condition
PC-77	36.0863375	-114.9982664	5-9-18	1402	6.54	xes 1404	yes	y es	None	yes 1415	Excellent Con
WMW3.5N	36.0976828	-114.9480654	5918	NA	N/ A	X/A	MA	NIA	NA	N/A	Key did not open Lock
WMW3.5S	36.0962514	-114.9451632	5-10-18	0843	43,55	y ez 0846	Yez	yes	hone	fes 0900	Excellent Condition
WMW4.9N	36.0949374	-114.9664624	5-9-18	0746	3210	xes 0748	yes	yes	Mcn e	715 0800	Excellent Condition
WMW4.9S	36.0909079	-114.9664822	510-18	1246	26.77	Yes 1247	yes	yes	None	xes 1300	Excellent Condition

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
WMW4.9S Barometer	36.0909079	-114.9664822	5-10-18	NA	NH	yes 1253	y-85	yes	Non Q	y25 13∞	Excellent Condition
WMW5.58S1	36.0891989	-114.9778061	5-9-18	1520	18.04	NA	NIA	NA	N/A	NIA	moved well-No Translucer inside
WMW5.5S	36.0873319	-114.9754580	5-4-18	1538	16.56	yez 1540	yes	yes	Wane	X-65 1315 (5-10	Executent condition-
WMW5.7N	36.0886006	-114.9798359	5-9-18	0805	9.5(yes 0807	yes	yes	None	ye5 0815	and restart on 5-10-18 Excellent condition
WMW6.15N	36.0912006	-114.9865133	5-9-18	0827	23.08	yes 0831	yes	yes	None	Yes 0845	Excellent Condition
WMW6.15S	36.0877433	-114.9878030	5-9-18	1505	8,99					•	** Do no pull up transducer **
WMW6.55S	36.0884676	-114.9942317	5-9-18	1447	1678	ye5 1449	yes	Je e 5	Name	yen 1500	Excellent contina
WMW6.9N	36.0918121	-114.9986259	5-9-18	0847	18,15	yes 0849	Yes	Ye5	None	yes 0900	Excellent condition
WMW6.9S	36.0890141	-115.0002799	5-948	1417	10.79	4e5 1419	yes	Yes	None	yes 1430	Excellent Considerin

Notes

^{1.} Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.

^{2.} Note conditions of the rope and transducer; clean transducer if necessary.

^{3.} When checking transducer, compare the transducer's time to the smart device time.

^{4.} Data to be downloaded bimonthly

^{5.} Verify that the serial number for the Log ID downloaded matches the serial number of the transducer, and that data appears complete.

^{6.} Record transducer time, time of reference clock, and difference in time between the two.

^{7.} Synchronize transducer to smart device, and restart the transducer (erase previous data) so that a future start time is set to a 15-minute interval (10:15:00, etc.).

Well ID	Latitude	Longitude	Date of	Time of	Varified	December 1		
_		Longitude	İ		Verified	Record Time:	Transducer	Comments
			Download	Download	Data?	Transducer/reference/	Synchronized &	
		1	(mm/dd/yy)	(mm/dd/yy)		Difference	Reset	
	_					(hh:mm:ss)		Frank and Can lide
S3.5	1/1/10	1 . / .	= 1 = 10	, , , , ,	1.00	0905/1005		Transducer was syncel,
	N/A	NA	5-10-18	1005	Yes	-/hr Diff.	405	reset Fer 15 min intervals
S3.75				09 45	1.01	08 45/0945 -Ihr Diff	Y25	i real tot to with this hold
		+	1 1	07 43	Yes			
53.8				0920	Y25	0820/0920 -1hr DFF	<i>y-9</i> 5	
54.6						0945/1045	0930	
				1045	yes	- 1hr Piff	Jees	
64.65					1 -	1003/1103	3 - /26	
			1 1 1	1103	X25	- Ihr Diff	res	
34.65					- (- /	1110/1210	425	Tenall and Cond. In 2
				1210	Xe5	-Ihr BAF	7-7	George Condition, Barmetan was syncely with the Items
4.75				10-0		0950/1050	<i>></i> 25	Exection Condition Transit
				1050	X e 5	-Inr Dof		was synce condition Transtu Exettlem Condition Transtu Was synced, reset for 15
5.3		,		:10	Val	1030/100	yes	
		d		1130	ye5	The biff	,	1

		DAILY AC	IIVIIY	REPORT	L				
DATE:	7-11-18	Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilot Tes		degrees	98°					
SITES / LOCATIONS:	NERT - S. Sile of	Wind:	Still	Moderate		Direction:			
	wash	Humidity:	Dry	Moderate	Humid	Rain			
		r shade the appropr			d, and hur	nidity			
	NNEL ON-SITE	_		ployer				Title	
tric wang		GE				Staf	FG	eolog	75
Inc wang Joe Capatine	2	AE	com			11		<u> </u>	
VISITORS C	N-SITE	Employer		Pu	rpose of V	isit	Tim	e In	Time Out
WORK COMPLETEI with the "Low- was LNDmw. ground nater san	Onsite @ 0820 Flow's ground writer I. The transdu apling was compl	to pertorn sompling, T was pull lete. The tr	n the ne only ed a (transdu well was 1946, di er was	cer don th a curlicad restt c	mloading transduct al and 1145,	er we reset	conjuice sam	action upled toky w the
LIST SAFETY ACTION Reviewed Health Safety P				JCTED:				REQU	AFETY IREMENTS BEEN MET No
Equipment at the Site (in	cludes Subcontractor sup	oplied equipment):				Date Arriv	ved	Date	Removed
Solonist L	evel oader								
	vater level mete	~							
Material/Supplies Receive	ed at the Site:								
Field Activities and Rema		e:							

Name: Pin M Many

Date: 7-11-18

		DA	ALY AC	TIVITY	REPORT	Γ				
DATE:	7-12-18		Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Region Groundwater	RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pil		Temp °F:	degrees	96°					
SITES / LOCATIONS:	NERT- S. S.	de CT	Wind:	Still	Moderate	High	Direction:			
	wash	-1 1 - 1	Humidity:	Dry	Moderate	Humid	Rain			
DEDSO	NNEL ON-SITE	cle or shade	the approp		weather, win ployer	d, and hun	nidity	Job '	T:41 a	
			CE		pioyer					
Enchang Toe Capotri			(0 g	com			5+65	F Geo	log 18T	
3 OF CANOTINE	9		ne	COVY						
VISITORS C	ON-SITE	-	Employer		Pu	rpose of V	visit v	Tim	e In	Time Out
WORK COMPLETED with the ''le /and fill (mu- Sampling was CFS/W @ /e						ells loca L reset + e o	ates ins. after t 900, and	he sh		
Reviewed Health Safety P					JCTED:		2		REQU:	AFETY IREMENTS BEEN MET No
Equipment at the Site (in		r supplied ed	quipment):				Date Arriv	ed	Date	Removed
Solomst La	eveloada									
n h	rater level n	n efer								
Material/Supplies Receive	ed at the Site:				·					
Field Activities and Rema		Above:								

Name: Pix M Mary

Date: 7-12-18

	D	PAILY AC	TIVITY	REPORT	Γ					
DATE:	7-13-18	Day:	S	M	Т	W	Th		7	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		ノ 	
	Geophysical Pilot Test	Temp °F:	degrees	980	г	т		-		
SITES / LOCATIONS:	NERT -S. Side of	Wind:	Still	Moderate	High	Direction:				
	Circle or sho	Humidity:	Dry	Moderate	Humid	Rain				
PERSON	NNEL ON-SITE	de the approp		veatner, win oloyer	a, and nur	niaity	Job '	Fitle		
			- Em	noyei		Staff	~			
Enchang Joe Capotri	. 4	<i>I</i>	Heon			3 +047		0512 V	Γ	
1 de Caporn	. 0		" COM							
A HOLEOP CO	AL CYMP						1			
VISITORS O	ON-SITE	Employer		Pu	rpose of V	Visit	Tim	e In	Ti	me Out
										-

the hash where Trunsducers do	onsite e 0615 - Plou ground water - transducers me unloaded today me /400 for the of	to performante	# 1 00 1 ≠ 30 , c	te pulled oH281	vells h	ecated or hloaded (v4.95, a	n the and l	5.5. Esc mu	de E Silli	oF ≲.
· ·	S TAKEN TODAY/SAFETY lan and THAs, and biological av			CTED:				REQU	BEE	TY MENTS N MET No
	cludes Subcontractor supplied	equipment):				Date Arriv	ed	Dat	e Ren	ioved
Solomst Le	uploader afor level meter									
Material/Supplies Receive									-	
Field Activities and Rema	rks Not Presented Above:									

Name: Que N My

Date: 7-13-18

	D.	AILY AC	IIVIIY	REPORT	L						
DATE:	7-16-18	Day:	S	(N)	Т	W	Th	F	S		
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow				
	Geophysical Pilot Test	Temp °F:	degrees	106°							
SITES / LOCATIONS:	NERT-No & S. Sides	Wind:	Still	Moderate	High	Direction:					
	of LV wash	Humidity:	Dry	Moderate	Humid	Rain					
	Circle or shad	le the approp			d, and hur	nidity		771.41			
	NNEL ON-SITE			ployer				Title			
Enc wang Joe cape	, (GES	1		Staf		ologist			
Joe Cape	100		AEcan	1		į n					
VISITORS C	DN-SITE	Employer		Pu	rpose of V	Visit	Tim	e In	Time Out		
VISITORS	TO STILL	2									
			. 1- 4								
WORK COMPLETED onsite @ 0700 to perform transducer downloading in conjunction with the "Low Flow" ground water sampling. Only one (1) well was visited today with a transducer located inside, monitoring well whom 3.55 was the first well visited today.											
The transduce after sampling in	v was pulled downlas camplete. The	caded pr	ivas	round und	ler sam	flug and	& SYM	ced s	reset		
	,										
	NS TAKEN TODAY/SAFETY Plan and THAs, and biological av			UCTED:				REQU	AFETY IREMENTS REEN MET No		
Equipment at the Site (in	cludes Subcontractor supplied	equipment):				Date Arri	ved	Date	Removed		
Sclomst Le	veloador										
n ha	ter level meter						-				
Material/Supplies Receiv											
Field Activities and Rem	arks Not Presented Above:										
									-100-		

Name: But Mruy

Date: 7-16-18

		DAI	LYAC	TIVITY	REPORT	Γ				
DATE:	7-17-18		Day:	S	M	\bigcirc	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –		Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilot Tes	i i	Temp °F:	degrees	104					
SITES / LOCATIONS:	NERT- N. & S. S. d.	· ·	Wind:	Still	Moderate	High	Direction:			
	of Lv wash		Humidity:	Dry	Moderate	Jumid				
DEDCO		r shade t	he appropi		weather, win	d, and hur	nidity	T 1 7		
	NNEL ON-SITE		-		oloyer			Job T		
Frie Wang Joe Capo	1.			GES AECON			Stat	F 64	cologi	ستر الم
Joe capo	tno			necon	<u> </u>				Ic.	
VISITORS O)N-SITE	F	Employer		Pu	rpose of V	Visit	Time	In	Time Out
VISITORS	ATT STEE		mpioyer		<u></u>	i pose or	7 1510	11111	111	I IIIC Out
After the conto properly dis	O onsite @ 070 roundwater sample (wmw 350, L) or to ground water pletion of ground pase at the pury	Luafe 501 gv	SPECTION	NS CONDU	Joe &	T was	ample h The tro Flor samp at to the	ne of	ERT Fice.	Facility AFETY
Reviewed Health Safety P	Plan and THAs, and biologi	ical aware	ness docum	nent.						REMENTS BEEN MET No
Equipment at the Site (in		plied equ	uipment):				Date Arriv	ed	Date	Removed
Solonist	leveloader									
4	nater level m	etur								
Material/Supplies Receiv	ed at the Site:				·					
	arks Not Presented Above	e:								

Name: Euk Many

Date: 7-17-18

DAILY ACTIVITY DEDODT

DATE: PROJECT NAME: NERT Regional Groundwater RI - Geophysical Pilot Test Groundwater RI - Geophysical Pilot Test NERT Regional Groundwater RI - Geophysical Pilot Test Groundwater RI - Geophysical Pilot Test NERT - N. & S. S. Les OF LV WASK NERT - N. & S. S. Les OF LV WASK NERT - N. & S. S. Les OF LV WASK NERT - N. & S. S. Les OF LV WASK Norm - Geophysical Pilot Test Weather: Temp °F: Wind: Still Moderate High Direction: Dry Moderate Hig			v								
PROJECT NAME: NERT Regional Groundwater RI - Geophysical Pilot Test	DATE:	7-18-18	3	Day:	S	M	Т	(W)	Th	F	S
SITES/LOCATIONS: Geophysical Pilot Test NERT ~ N. 15.5.1es of LV WASh Humidity: Dry Moderate High Direction: Rain Circle or shade the appropriate day, weather, wind, and humidity PERSONNEL ON-SITE Employer PERSONNEL ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On WORK COMPLETED Onsite on the LV. Side of the wash @ 0700 to full & dawnload trans You wells Limit 6.15 N & wash 9 N. Then traveled to the south side of the wash trans You wells Limit 6.15 N & wash 9 N. Then traveled to the south side of the wash trans Have startly look and person while antering the wash areas. All the surface water transducers Busin old well admits also he located. After the surface water transducers, I continued on with the person of Sei, 65 & 55.3. These transducers and could not be located. After the surface water transducers, I continued on with the person of Sei, 65 & 55.3. These transducers and the Bassander well ambidity wells (PC-74, PC-77, World 6.15.8, want 6.9.8 wash 9.8.5.8) and the Bassander washe will 4.9.8, Plus, I squeed washed to suffer the surface water transducers in the set transducer in side of the Bassander washed that the set transducer in side of the Service water transducer in side. After the surface water transducer in side. After the sur	PROJECT NAME:			Weather:	Sunny	1 - 1	Cloudy	Rain	Snow		
SITES/LOCATIONS: NERT - N. S. S. Les of Ly Wash Humidity: Dry Moderate High Direction:				Temp °F:	degrees	1040	L				
Circle or shade the appropriate day, weather, wind, and humidity PERSONNEL ON-SITE Employer Staff Geologist Billy Maione CES Staff Geologist Tinspector VISITORS ON-SITE Employer Purpose of Visit Time In Time Out Time Out ORK COMPLETED Onsite on the N. Site of the wash @ 0700 to fiull & daunload trans on wells while sit N & lumber 9N. Then traveled to the south site of the wash to pai ne transducer downloading on the sulface water stand pupil Billy malone of CES wa next y safety look out person while antering the wash averal pupil the surface under transducers and could not be located. After the surface water transducers, I continued on with the rem side of wash transducer weils (PC-74, PC-77, Mark G.158, Wimie 1958 Wimie 5555) and the sometar in side with the surface water in side of wash averal the surface on with the rem side of wash transducer weils (PC-74, PC-77, Mark G.158, Wimie 1958 Wimie 5555) and the sometar in side with the surface water in side of wash averal the surface water in side. Safe Ty Exercised Health Safety Plan and THAs, and biological awareness document. SAFETY REQUIREMENTS HAVE BEEN ME	TES / LOCATIONS:	NERT- N. d.S	s. s. Jes	Wind:			High	Direction:			
PERSONNEL ON-SITE Employer Billy Malane GES Staff Geologist Tinspector VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time In Time On Time On VISITORS ON-SITE Employer Purpose of Visit Time In Time On Time On Time In Time On Time In Time On Time On Time In Time On Time On Time In Time In Time On Time In Time On Time In Time On Time In Time In Time On Time In Time In Time In Time In Time In T				•							
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VISITORS ON-SITE Employer Purpose of Visit Time In Time On WORK COMPLETED Onsite on the W. Site of the wash @ 0700 to find & download trans from wells who 6.15 N & which 9N. Then traveled to the south site of the wash to per the transducer downloading on the sufface water stand purps Billy Malgne of 6.75 was my safety look out person while entering the wash areas. All the surface water transducer by the person of 54,65 G 55.3. These two locations were ensuling the reeds and could not be located. After the surface water transducers, I continued on with the reasonable of wash transducer wells (Pc-74, Pc-77, Window 6.155, Window 6.158 with the set transducer inside. After the surface water transducers. I continued on with the reasonable while 4.95. Plus, I squeed while 6.155, wind 6.158 wind 6.158 wind 6.158 wind for the second of the following of the surface water transducer inside. After the surface water transducer inside.		ONNEL ON-SITE									
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WORK COMPLETED Onsite on the N. 5, to of the wash @ 6700 to find & damical trans. From mells who 6.15 N & who 6.9 N. Then traveled to the south site of the wash to pai the transducer downloading on the surface mater stand pipts Billy Mallone of GES was my safety look out person while antering the wash areas. All the surface mater transducer Busin ser well dambaded with exception of \$4,65 ft \$5.3. These two locations more ensult in reads and could not be located. After the surface mater transducers, I continued on with the ten 5. side of wash transducer wells (PC-74, PC-77, While G. 158, While G. 158 while \$5.5.5.*) and the Barometer inside while 4.95. Plus, I squeed while also with the set transducer inside. After a LIST SAFETY ACTIONS TAKEN TODAY/SAFETY INSPECTIONS CONDUCTED: Reviewed Health Safety Plan and THAS, and biological awareness document. SAFETY REQUIREMENTS HAVE BEEN MET	Billy Mi	alone			_GE	5		In	speck		
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	Fron wells wmw the transduce my safety lo Bucknown were d in reads and coul so side of was	6.15 N & WM 2- development person lambaded u/4 d not be locat u transdurer	nw6.91 on the while e the exc ed. After uneils	Internet to the surface of the sur (PC-74.PC	travel te water he was Sejon face multiples	ed to the stand in areas. 65 G S er transd	he sow pupte All th 5.3. T weeks, I women 6.	th site of Billy Mose two incomes two incomes two incomes the continuity of & with the continuity of & & & & & & & & & & & & & & & & & &	the elone of location ed on u	was F G ev from rs west with	h to pa essucer e enguls the ren
	Fron wells wmw Hare transduce my safety lo Buremoler weye d in reeds and coul S. Side of was Barometer inside LIST SAFETY ACTIO Reviewed Health Safety Equipment at the Site (i	GLS IV & WM Color of the local ing color of the local the range ducy WMW 4.95. NS TAKEN TODAY Plan and THAs, and b	nw6.91 on the while exc. ed. After wells Plus, I (/SAFETY biological av	Jo Then Sufface Attring to eption of PC-74, Po Sqused M INSPECTION vareness docum	travelose mater he was Sajo face mater c-77, but vmw6.13	ed to the stand in aveas. 65 G S er transd who 6.155, 55 with	he sow pupte All th 5.3. T weeks, I women 6.	th site of Billy Mose two incomes two incomes two incomes the continuity of & with the continuity of & & & & & & & & & & & & & & & & & &	of the	SAREQUE	h to pai SES was consulted the rem and the ESITE OF AFETY BEEN MET
	Fron mells which Hae transduce my safety lo Busomoler weye d in reeds and coul So side of was Baromeler inside LIST SAFETY ACTIO Reviewed Health Safety Equipment at the Site (i	Cols IV & WM Cols IV & WM Cols out person Contract Land be locat MMW 4.95. NS TAKEN TODAY Plan and THAS, and b Includes Subcontractor Coaler	mwG.9A while ever the ever ed. After Plus, I //SAFETY piological av or supplied	Jo Then Sufface Attring to eption of PC-74, Po Sqused M INSPECTION vareness docum	travelose mater he was Sajo face mater c-77, but vmw6.13	ed to the stand in aveas. 65 G S er transd who 6.155, 55 with	he sow pupte All th 5.3. T weeks, I women 6.	th site of Billy Mese sustensing for the second muse two for the second muse transduced transduced transduced transduced to the second muse transduced transduced to the second muse transduced transduced transduced transduced transduced transduced transduced transduced transdu	of the	SAREQUE	h to percent of the remains the second the s
Solonst Dueloader water level moter	From mells wmm Hae transduce my safety lo Buomoler weye d in reeds and coul So side of was Baromelar inside LIST SAFETY ACTIO Reviewed Health Safety Equipment at the Site (i	Cols IV & WM Cols IV & WM Cols out person Contract Land be locat MMW 4.95. NS TAKEN TODAY Plan and THAS, and b Includes Subcontractor Coaler	mwG.9A while ever the ever ed. After Plus, I //SAFETY piological av or supplied	Jo Then Sufface Attring to eption of PC-74, Po Sqused M INSPECTION vareness docum	travelose mater he was Sajo face mater c-77, but vmw6.13	ed to the stand in aveas. 65 G S er transd who 6.155, 55 with	he sow pupte All th 5.3. T weeks, I women 6.	th site of Billy Mese sustensing for the second muse two for the second muse transduced transduced transduced transduced to the second muse transduced transduced to the second muse transduced transduced transduced transduced transduced transduced transduced transduced transdu	of the	SAREQUE	h to pe Es was ansluced the remains the the remains the AFETY IREMENT BEEN ME No
Vaterial/Supplies Received at the Site:	From wells wmw Hare transduce my safety lo Buranoler well d reeds and coul S. Side of was Barometer inside LIST SAFETY ACTIO Reviewed Health Safety Equipment at the Site (i Solonst 1000	Cols IV & WAR CONTROLLING WANT PERSON IN TAKEN TODAY Plan and THAS, and be noted to the color of the color of the color when the color of the color were level motor wed at the Site:	mwG.91 while ever the ever ed. After Plus, I V/SAFETY piological av or supplied	Then Sufface Attention of Parting the sur PC-74, PC Sqused wareness docur equipment):	travelese males See males Face males C-77, but VM CONDU ment.	ed to the stand on aveas. 65 G S er transd who 6.155, 55 with	he sow pipts All th S.3. T ware. Wheset	th s, fe a Billy Ma Surfai Surfai Rese two Continue Lis & wm transdus Date Arriv	red	SAREQUIHAVE Yes Date	h to pe ES 100 ES 100 E ensul The rev AFETY IREMENT BEEN ME No Removed
Material/Supplies Received at the Site: Field Activities and Remarks Not Presented Above: * WMW 6.555: Upon arrival at this well location. I observed the transducer was pulled out of the well and left on a rock. The transducer would not	From mells wmm Hae transduce my safety lo Buran der wege d In reeds and coul So side of was Barometer inside LIST SAFETY ACTIO Reviewed Health Safety Equipment at the Site (i Solonst Jove) Material/Supplies Recei Field Activities and Ren Observed the tr	Cols IV & WAR CONTROLLING COLOR OF BURNERS TO DAY Plan and THAS, and be not be located with the substitution of the color	nw6 91 on the while exc the exc ed. After wells Plus, I (/SAFETY biological av or supplied	Jo Then Sufface Attended to the sur (Pc-74, Pc Sqused to INSPECTION vareness docur equipment): WMW 6- t of the	travel se water he was See wet c-77, who vmw6.13 NS CONDU ment.	ed to the stand in areas. 65 & Ster transdent 6.155, 55 with UCTED: Upon arr 1 left o	he sow pipts All th 5.3. T waves. Theset	th s, fe a Billy Ma Surfer Surfer Continue SS & Wm Fransduo Date Arriv at this Ock. The	red well transd	SAREQUIHAVE Yes Date	h to pa ES war e ensuli the ren and the ESITE OF AFETY IREMENT BEEN ME NO Removed
- water level moter	Fron wells wmw Hae transduce my safety lo Bournoler weyl d In reeds and caul So side of was Barometer inside LIST SAFETY ACTIO Reviewed Health Safety Equipment at the Site (i Solonst Jovel Material/Supplies Recei Field Activities and Ren Observed the tre Connect to the	Cols IV & WAR CONTROLLING COLOR OF BURNERS TO DAY Plan and THAS, and be not be located with the substitution of the color	nw6 91 on the while exc the exc ed. After wells Plus, I (/SAFETY biological av or supplied	Jo Then Sufface Attended to the sur (Pc-74, Pc Sqused to INSPECTION vareness docur equipment): WMW 6- t of the	travel se water he was See wet c-77, who vmw6.13 NS CONDU ment.	ed to the stand in areas. 65 & Ster transdent 6.155, 55 with UCTED: Upon arr 1 left o	he sow pipts All th 5.3. T waves. Theset	th s, fe a Billy Ma Surfer Surfer Continue SS & Wm Fransduo Date Arriv at this Ock. The	red well transd	SAREQUIHAVE Yes Date	h to pa ES war e ensuli the ren and the ESITE OF AFETY IREMENT BEEN ME NO Removed

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
AA-30	36.0865571	-114.9742534	7-13-18	0832	18.55	y-e5	yes	yes	083400/ 083402 -25ecs	yeş 0930	Excellent-Condition
COH2B1	36.0863473	-114.9861928	7-13-18	0651	16.21	yes 0652	yes	yes	065500/ 065502 -25ecs	9830	Excellent condition
LNDMW1	36.0932094	-114.9572109	7-11-18	0946	36.68	yes 0946	y <i>e</i> s	y-es	094800/ 094802 -2 secs	¥e\$ 1145	Excellent condition
LNDMW2	36.0959057	-114.9581419	7-17-18	1016	34.22	γes 1017	Y.25	yes	102100/ 102103 -3 secs	yes 1130	Excellent Condition
MW-13	36.0893990	-114.9668492	7-12-18	0801	34.92	Y-85 0801	yes	yes	080600/ 080602 -2secs	yes 0900	Excellent Condition
MW-20	36.0913381	-114.9591051	7-12-18	1403	32.70	yes 1404	yes	yes	1406001 140601 -1 SECE	Ye> 1530	Excellent Condition
PC-74	36.0875307	-114.9976758	7-18-18	1307	11.61	Yes 1309	res	yes	131100/ 131103 -3 secs	y-es 1315	Excellent condition
PC-77	36.0863375	-114.9982664	7-18-18	1238	6.93	xes 1239	res	res	124100 (124104 = 4505	yes 1245	Excellent condition *New well box
WMW3.5N	36.0976828	-114.9480654	7-17-18	0738	35.17	yes 0740	yes	yes	075000/ 075003 -35005	yes 1000	Excellent Condition
WMW3.5S	36.0962514	-114.9451632	7-16-18	0720	43.31	४९५ ७१२।	yes	yes	0772200/	yes 0845	Excellent Condition
WMW4.9N	36.0949374	-114.9664624	7-17-18	//37	3/.58	Y-e5 1138	yes	yes	124900/ 124903 -35ecs	γ45 1300	Excellent condition
WMW4.9S	36.0909079	-114.9664822	7-13-18	1231	2620	yes 1232	yes	yes	123300/ 123302 -2 secs	yes 1345	Excellent Condition *well-capuas open when open

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
WMW4.9S Barometer	36.0909079	-114.9664822	7/18/18	1250	~	yes 1520	yes	yes	152200/ 152204 - 45ecs	yes 1530	Excellent-Condition
WMW5.58S1	36.0891989	-114.9778061	7/13/18	10.50	16.60	_	1	-		_	Replacement well No Trans Lucer
WMW5.5S	36.0873319	-114.9754580	7/13/18	0946	13.55	yes 0946	yes	yes	095000/ 095002- ~2 secs	ye5 1045	Excellent Condition
WMW5.7N	36.0886006	-114.9798359	7/17/18	1310	8.36	y-e5 1311	yes	yes	131700/ 131703 ~35005	yes 1400	Excellent Condition
WMW6.15N	36.0912006	-114.9865133	7/18/18	0932	22,62	yes 0733	yes	pes	073500/ 073 504 -45665	yes 0745	Excellent Condition
WMW6.15S	36.0877433	-114.9878030	7/18/18	1405	9.03						** Do no pull up transducer **
WMW6.55S	36.0884676	-114.9942317	7/18/18	1331	16.96	*Pulled out on 5/21/18	tyes	* yes	o sec	for 1445	* Transducer was pulled out & left on a rock. Replaced w/ transducer # 42069886
WMW6.9N	36.0918121	-114.9986259	7/18/18	0746	18.21	y-e5 0747	yes	yes	07500/ 075004 - 4565	ye5 0800	Excellent Condition
WMW6.9S	36.0890141	-115.0002799	7/18/18	1252	10.83	xes 1254	res	yes	125700/ 125703 -3 secs	y-es 1300	Excellent condition

Notes:

- 1. Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.
- 2. Note conditions of the rope and transducer; clean transducer if necessary.
- 3. When checking transducer, compare the transducer's time to the smart device time.
- 4. Data to be downloaded bimonthly
- 5. Verify that the serial number for the Log ID downloaded matches the serial number of the transducer, and that data appears complete.
- 6. Record transducer time, time of reference clock, and difference in time between the two.
- 7. Synchronize transducer to smart device, and restart the transducer (erase previous data) so that a future start time is set to a 15-minute interval (10:15:00, etc.).

						T		
Well ID	Latitude	Longitude	Date of	Time of	Verified	Record Time:	Transducer	Comments
			Download	Download	Data?	Transducer/reference/	Synchronized &	
			(mm/dd/yy)			Difference	Reset	
						(hh:mm:ss)		
S3.5			, ,			082600/082604	yes	
			7/18/18	0825	Yes	→ 4 secs	<u>0830</u>	
S3.75						085200/085203	yes	
			7/18/18	0850	yes	- 3 secs	0915	
S3.8			2/10/5	26.47		084200/084203		
			7/18/18	0840	yes	-3 sec \$	yes 0845	
S4.6				60.40		695200/095203	yes	
			7/18/18	0949	yes	-3 secs	1000	
S4.65			*	*				Could not locate standpyon
			7/18/18	1005			~	in tall, overgrown reeds
B4.65			21.2/2			130500/130504	ye5	
			7/18/18	1304	yes	- 4 secs	1315	
S4.75			21.1	10.054		10 4000/104003	ye5	
			7/18/18	1038	yes	- 3 secs	1045	
S5.3			*7/18/18	*//30			_	in tall, overgroun reek
			1/18/10	1130				in tall, overgrown reeds

^{*} Date visited beation

DATE:	9-6-18		Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Region Groundwater I		Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow	T.	
	Geophysical Pilo		Temp °F:	degrees	95	-	L			
SITES / LOCATIONS:	NERT - S. S.	de of	Wind:	(Still)	Moderate	High	Direction:		-	
	2v wash		Humidity:	Dry	Moderate	Humid	Rain			
PEDCON	Circ	le or shade	the appropr		veather, wind	d, and hur	nidity			
	NNEL ON-SITE				oloyer			Job Tit		
Eric wang				GES			Statf	Geolog	154	
								<u> </u>		

						L				
VISITORS O	N-SITE		Employer		Pur	pose of V	isit .	Time I	n r	Time Out
								Time 1	<u>" </u>	Time Out
			· · · · · · · · · · · · · · · · · · ·							
WORK COMPLETED				~						-
onsite @ 1030 to	complete the	graund	water n	rell agu	aine and	+mn-1	un ac dan	-10-di		Ма
onsite @ 1030 to remaining four transducer install (wmws.sss, NERT; transducer, since to	monitoring well	s'and a	one sur	face w	ater ioca	tion. A	+ 1345	I head	on the	74C
CWMUSES NERT	orthon at the	new mo	contoring	100/ /0	cations or	the s	outh s.J.	e of tn	e na	5th.
translucer, since +	10 designates	tranedu	145, 1 re	placed -	he trouss	ucel in	ide Wmh	15.55 ×	mth a	rspare
offs. te @ 160	5	471,7 44		11947 00	TIPE ILANI LOAY	-es with	t the soi	04 ST 50	tyav	e ,
			····							
LIST SAFETY ACTIONS	TAKEN TODAY/S	AFETY IN	SPECTION	S CONDII	TFD.					7507.
Reviewed Health Safety Pla	n and THAs, and biol	ogical awar	eness docum	ent.	JID.			RE	SAFE OURF	ETY EMENTS
										EN MET
									Yes	No
Equipment at the Site (incl	udes Subcontractor	supplied ea	uinmant).		***					
Solonist 1		зарриса сц	urpment).				Date Arrived	i I	Date Re	moved
VI L	eater level v	رماه								
		1								
Material/Supplies Received										
Field Activities and Remarl	ks Not Presented Abo	ove:								

Name: En R Man

Date: 9-6-18

		DA	ILY AC'	TIVITY	REPORT	-				
DATE:	9-7-18		Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Region Groundwater R	ial LI —	Weather:		Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilo		Temp °F:	degrees	95°		To:		•	
SITES / LOCATIONS:	NERT - N. & Side of LV wa	-5.	Wind: Humidity:	(Still)	Moderate Moderate	High Humid	Direction:			
		-	•	Dry	weather, win		<u> </u>			
PERSO	NNEL ON-SITE	ic of shade t	approp		ployer	a, and na	inaity	Job 7	Title	
Eric hand				GE	<u> </u>		Stat		dogis	+
	J								3.2	•
VISITORS O	ON-SITE	F	Employer		Pu	rpose of V	Visit	Time	e In	Time Out
WORK COMPLETED	D									
onsite @ 06% located on both Tristallion works at 1300 to re-	15 to comple	te me	transdu	cer ins	tallation	Inside	the new	monit	DVI4C	wells
located on bet	h north and	seytu	zige of	f the	4V wash	, Refe	r to the	attach	ed J	Transducer
at 1300 to ro	harm wall he	TONAL IN	tormat	long , A	11 transda ER	من ۱۷۶ کم	mere inst	siles (and 1	was oftsi
	total poeti pre	42 40 LO	inaume (Q= 70£						
										
LIST SAFETY ACTION	NS TAKEN TODAY/	SAFETY IN	SPECTION	NS CONDU	JCTED:					AFETY
Reviewed Health Safety P	Plan and THAs, and bio	ological aware	eness docur	nent.						IREMENTS
									HAVE Yes	BEEN MET
Equipment at the Site (in	cludes Subcontractor	supplied eq	uipment):				Date Arriv	ed	Date	Removed
Solonist	/enelogder									
	leveloader water level	moter								
		•								
Material/Supplies Receiv										
Field Activities and Rema	arks not presented A	nove:								

Name: Eni & Many

Date: 9-7-18

Field Measurements - Transducer Installation

NERT RI - Downgradient Study Area Henderson Nevada

Well ID	Expected Transducer Depth (feet)	Expected Rope Length (feet)	Date & Time of Install	PRE- INSTALLATION Depth to Groundwater (feet btoc)	Total Well Total Depth (feet btoc)	Water Column (feet)	Transducer Serial No.	Transducer Future Start	POST- INSTALLATION Depth to Groundwater (feet btoc)	Estimated Transducer Depth (feet btoc)	Comments
NERT5.91S1	33	38	9-6-18	12.87	49.70	36,83	0042081460	1500	12.85	33 '	
NERT5.49S1	38	43	9-6-18	26.90	39.75	12.85	0042086023	1600	26.90	37.75	
NERT5.11S1	40	45	9-7-18	20.80	44.75	23,95	0042086183	1245	20.80	40'	
NERT4.93S1	47	52	9-4-18	27,57	54.05	26.48	0042087067	1215	27.57	47'	
NERT4.71S1	45	50	9-7-18	28.87	46.73	17.86	0042086019	1145	28.86	44.75	
NERT4.51S1	46	51	9-7-18	26.31		23.69	0042081153	1100	26.31	46'	
NERT4.38N1	38	43	9-7-18	32,85	39,51	6,66	0042087052	0800	32.87	37.50	
NERT4.21N1	53	58	9-7-18	35.54	54.61	19.07	0042081156	0900	35.54	53'	
NERT3.80S1	17.5	22.5	9-7-18	10.62	19.40	8.78	0042081484	1015	10.62	17.51	
WMW5.58S	37	42	9-6-18 1345	17.04	47.83	30.79	0042069897	1430	17.01	37'	Used to be installed in WMW5.58S1; change name to WMW5.58S.

Notes:

Length of transducer is approximately 5.5" from the "zero point" to the top of the eyelet (where kevlar rope is tied).

Transducer should be installed (a) 20 feet below the groundwater surface, or (b) 2 feet above the measured total depth of the well (if less than 22 feet of water column).

Well ID	Latitude	Longitude -	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data?	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer	
AA-30	36.0865571	-114.9742534	9-5-18	1358	19.19	yes 1359	Y25	ye's	140200 140201	yes 1415	Excellent Candition Changed measurement from	M to F#
COH2B1	36.0863473	-114.9861928	9-5-18	1236	16.34	yes 1238	yes	yes	124000 124001 ~15ec	4e5 1245	~~	
LNDMW1	36.0932094	-114.9572109	9-5-18	1438	36-94	ye5 1440	yes	, Yes	144300 144301 - 1582	yes 1445		
LNDMW2	36.0959057	-114.9581419	9-5-18	0750	34.41	yes 0753	425	Yes	081300 081301 -15ec	Ye5 0820	* Had communication ervor for a	Omins Price
MW-13	36.0893990	-114.9668492	9-6-18	1118	35.19	yes 1120	yes	yes	112200	yes 1130	Excellent Condition Changed measurement From 1	download
MW-20	36.0913381	-114.9591051	9-6-18	1144	32,85	yes 1146	yes	xes	114700 114701 -1500	yes 1200	i.	
PC-74	36.0875307	-114.9976758	9-5-18	1313	11.70	yes 1316	yes	yes	131800 131801 -15ec	Yes 1330	Excellent Candition Changed invasivement from M	1 +0 I+
PC-77	36.0863375	-114.9982664	9-5-18	1340	6.39	y.es 1341	Yes	yes	13 4300	yes 1345	1	
WMW3.5N	36.0976828	-114.9480654	9-5-18	0731	35,32	yes 0733	yes	405	073700	yes 0745	١,	
WMW3.5S	36.0962514	-114.9451632	9-6-18	1049	43.62	yes 1051	yes	yes	108300 108301 -1501	Yez 1100	((
WMW4.9N	36.0949374	-114.9664624	9-5-18	0826	31.76	yes 0831	yes	ye5	083600 083601 -15ec	yes	Excellent condition Changed megawement From	m to ft
WMW4.9S	36.0909079	-114.9664822	9-6-18	1210	26,40	yes 1211	¥-65	X-25	121201	xes 1230	\ (· · ·

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	pulled up & inspected? (Note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
WMW4.9S Barometer	36.0909079	-114.9664822	9-6-18	-	~	γε5 1310	yes	yes	131300 131301 -15ec	yes 1315	Excellent Condition Changed meakurement From Kpa to PSI
WMW5.58S1	36.0891989	-114.9778061	9-6-18	13.40	17.04	*Installe new transduce	No	No		Yes 1430	Re-inserted transducer From previous well
WMW5.5S	36.0873319	-114.9754580	9-5-18	1407	14016	Yes 1409	NO	No		NO	Transducer will not connect with revelocider or optic readers Needs replacement
WMW5.7N	36.0886006	-114.9798359	9-5-18	0850	5.58	yes 0855	Y25	yes	085600 085601 -15e1	Yes 0900	Excellent condition Changed measurement From m to
WMW6.15N	36.0912006	-114.9865133	9-5-18	0907	22,39	yes 0912	yes	yes	09 1300 09 1301 -15ec	yes 0915	1
WMW6.15S	36.0877433	-114.9878030	9-5-18	1250	9.19						** Do no pull up transducer **
WMW6.55S	36.0884676	-114.9942317	9-5-18	1301	6.10	yes 1302	Y <i>e</i> 5	yes	130508 130501 ~1500	yes 1315	Excellent condition
WMW6.9N	36.0918121	-114.9986259	9-5-18	0921	1823	Ye5 0923	yes	yes	092500 082501 ~15ee	y:es 0930	Excellent condition Changed measurement from 17 to
WMW6.9S	36.0890141	-115.0002799	9-5-18	1326	10,58	yes 1328	Yes	Yes	132900 132901 -15ec	yes 1345	
						r			•		

Notes:

- 1. Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.
- 2. Note conditions of the rope and transducer; clean transducer if necessary.
- 3. When checking transducer, compare the transducer's time to the smart device time.
- 4. Data to be downloaded bimonthly
- 5. Verify that the serial number for the Log ID downloaded matches the serial number of the transducer, and that data appears complete.
- 6. Record transducer time, time of reference clock, and difference in time between the two.
- 7. Synchronize transducer to smart device, and restart the transducer (erase previous data) so that a future start time is set to a 15-minute interval (10:15:00, etc.).

Well ID	Latitude	Longitude	Date of	Time of	Verified	Record Time:	Transducer	Comments
			Download	Download	Data?	Transducer/reference/	Synchronized &	
			(mm/dd/yy)	(mm/dd/yy)		Difference	Reset	
						(hh:mm:ss)		
S3.5			9-5-18	to 21		103500 103501 ~15ec	yes	Changed measurement from in to
			9-3 18	1031	Y.09	103301 -15ec	1045	and temperature From "C to "F
S3.75				/	'	105200	Yes	
			\ <u>\</u>	1047	Y25	105201-1sec	1100	
S3.8			"	//0.00		11/200	yes	ν,
				1107	yes	111201 -15cc	145	
S4.6			0 6 10			124700	yes	changed mousurements From
			9-6-18	1245	Y25	124701 -15cc	1300	m to Ft + "C to "F
S4.65			1.0					overgroun could not
			N/A	3			_	access
B4.65			9 10	12-0	yes	130200	Yes	Changed meissurements from
			9-18	1300	1 8	130201 - TSEC	1315	Kpa to PSI to °C to °F
S4.75			0 - 10			120300	4-05	Changed measurement from m to
			9-5-18	1158	yes	120306	1215	and temperative from C toF
S5.3			NA	<u> </u>				overgrown could not
			1011					access

	D	AILY AC	TIVITY	REPORT	l'				
DATE:	11-5-18	Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny 78	Cloudy	Rain	Snow		
SITES / LOCATIONS:	Geophysical Pilot Test	Temp °F: Wind:	degrees	Moderate	TT: al.	Dimetian			
SITES / LOCATIONS.	NERT SURFACE WATER	Humidity:	Dry	Moderate	High Humid	Direction:			
	Circle or shad	_							
PERSO	NNEL ON-SITE			ployer	.,		Job Tit	le	
Armans Roce	16-25	G	23			GEOLOGIE	T	Name of the last	
DANIZE SWELL		E	AGLE S	DRILLING		Driver			
DEARICK U	enk		11			DRILLERS	ASSISTAN	7	
VISITORS O	ON-SITE	Employer		Pu	rpose of	Visit	Time I	n	Time Ou
						Sec.		\rightarrow	
WORK COMPLETEI			2004						
ONSITE @7 \$ B	EGIN BRUSH CUTTING G	54.65	· Renne	~ 106' ×	1001 SE	coson of	Brush 70	Loca	E SOMO PI
	TO LECTOR 2200 B								
	- meneral Heore cup								y song.
	100000000000000000000000000000000000000								
	NS TAKEN TODAY/SAFETY			JCTED:					FETY
Reviewed Health Safety P	lan and THAs, and biological av	vareness docur	nent.				l l	_	REMENTS
								Ve	SEEN MET No
			t average and					1	7
Equipment at the Site (in	cludes Subcontractor supplied	equipment):				Date Arrive	ed	Date 1	Removed
GPS, Sainst LEVE	ECOADER, BOLINST WAS	in level	here	MACHE	re,	11-5-18	11	-5-1	8
HEDGE CLIPPERS,	BILLY GOAT HYDRAULC	BRUSH C	utter		-	11-5-18	ft.	-5-1	8
Material/Supplies Receiv	ed at the Site:							-	
	arks Not Presented Above:								

Name:

Date: //-5-18

]	DAILY AC	TIVITY	REPORT					
DATE:	11-6-18	Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
CITEC / LOCATIONS	Geophysical Pilot Test Near N. Side of Wah	Temp °F:	degrees	78°F					· · · · · · · · · · · · · · · · · · ·
SITES / LOCATIONS:	Water 10. 3 100 of with	Wind:	The same of the sa	Moderate	High	Direction:			
	Circle or she	Humidity: ade the approp		Moderate	Humid	Rain			A1
PERSO	ONNEL ON-SITE	ade the approp		ployer	u, and nur	many	Job 7	ri+lo	
A	Rigues		GES	proyer		Pa	•J&G		WEIST
7,121,1110	,		5102			(19	osu.	50	06612
VISITORS (ON-SITE	Employer		Pu	rpose of V	Visit	Time	e In	Time Out
							_		
· ·									
WORK COMPLETE						1940			
GUSITE @ 0800	TO Benin OND VERMER	R TRANSON	ers Da	un somethe	N.	Side of	- w15#	,	
E a D Meaning Dear	SIDE & HELDUL TO SELT NT SHEET for ADDIT	4 · CEPT =	5178 0	~ 03000	P	efec to	RANSDU	eer w	en i tering
11600 Autusoloforor	NT SHEET THE TIME!	NENOTE INFO	CATIN						
	- Part								
	10.00								
LIST SAFETY ACTION	NS TAKEN TODAY/SAFETY	INSPECTION	JS CONDI	ICTED:				C A	AFETY
	Plan and THAs, and biological a			CIED.			1		REMENTS
	, ,								BEEN MET
								A COR	No
TE	1 1 6 1								
	cludes Subcontractor supplied	d equipment):		4		Date Arrive			Removed
	COMPER					11-6-18		1-6-	
DOLINIST MAY	er Level whose					11-6-18		1-6-	8
Material/Supplies Receiv	ed at the Site:								
	arks Not Presented Above:				-				

Date: //- 6-/8

Well ID	Latitude	Longitude	Date of DTW Measurement	Time of DTW Measurement	Depth to	Transducer pulled up & Inspected ?	Download Data?	Verified Data?	Record Time: Transducer / Reference	Transducer Synchronized &	Comments / Condition of Transducer
			(mm/dd/yy)	(hh:mm)	Groundwater (feet)	(note time) (1) (2) (3)	(4)	(5)	Difference (hh:mm:ss) (6)	Reset? (7)	Commence, Condition, or Transactor,
AA-30	36.0865571	-114.9742534	11-7-18	0943	19.00	Y25 0940	Yes	Yes	09:43:23 No Diff.	Yes 09:45:33	EXCELLENT CONDITION
COH2B1	36.0863473	-114.9861928	11-7-18	1006	16.36	Yes 1004	V 165	425	10:05:37 No DIAL.	YES 18:05:49	+)
LNDMW*2	36.0932094	-114.9572109	11-6-18	0134	34.43	YES 0931	Yes	Yes	09:33:11 No Diff	445 09:33:54	il
LNDMW♠	36.0959057	-114.9581419	11-6-18	02:39	36.89	7£5 02:35	Yes	tes	02:39:11 No Diff.	465 02:57:25	41
MW-13	36.0893990	-114.9668492	11-9-18	11:50	35-20	Y45	Yes	Yes	11:50:31 No Diff.	11:50:35 125 Addition	rt
MW-20	36.0913381	-114.9591051	11-9-18	11:36	32.85	785 10:34	Yes	Yes	11:35:39 No Diff	Yes 11:35:47	/1
PC-74	36.0875307	-114.9976758	11-7-18	0834	10.95	425 0833	Yes	Yes	08:34:09 No Dife	Yes 08:37:23	11
PC-77	36.0863375	-114.9982664	11-7-18	0851	5-96	Yes 0849	Yes	ĭes	08:50:38 No Diff	423 08:5051	n
WMW3.5N	36.0976828	-114.9480654	11-5-18	0844	35.24	485 0843	Yes	Y25	08:43:5(425 08:45:39	
WMW3.5S	36.0962514	-114.9451632	11-6-18	01:05	43.64	775 0101	YES	4.45	01: 04:37 No Dire	07:04:44	4
WMW4.9N	36.0949374	-114.9664624	11-6-18	1013	31.75	445 1016	Yes	Yes	10:12:23 No Dife	10112132	11
WMW4.9S	36.0909079	-114.9664822	11-9-18	1033	26-42	445 1030	145	7-85	10:33: 24	4 es 10:53:34	11
WMW4.9S Barometer	36.0909079	-114.9664822	11-9-18		-	425 3015	Yes	125	01:24:28 Nr Dire	995 01:20:35	11
WMW5.58S	36.0871246	-114.9794919	11-9-18	0919	17.10	445 09:18	785	Yes	No pick.	4 65 09 - 19 : 02	la .
WMW5.5S	36.0873319	-114.9754580	11-9-18	0955	14:20	7 45 0956	188	Tas	095434 No Diff	485 095447	11
WMW5.7N	36.0886006	-114.9798359	11-6-18	1056	8.69	1050	Yes	TES	1655 32 No Dice	105542	11
WMW6.15N	36.0912006	-114.9865133	11-6-18	1124	22-53	128 1128	Yes	Yes	11 23 48 No Diff	112400	ROOTS IN WELL CASING.
WMW6.15S	36.0877433	-114.9878030	11-7-18	0925	10.11	des.					Do not pull up Transducer
WMW6.55S	36.0884676	-114.9942317	11-7-18	0913	16.21	985 0911	YES	Yes	09 13 24 No DIFE	745 09 1335	EXCELENT CONSITUN
WMW6.9N	36.0918121	-114.9986259	11-6-18	1141	18-16	405 1141	YRS	185	14357 N. Diff	114337	ej.
WMW6.9S	36.0890141	-115.0002799	11-7-18	0817	10.57	4 2.5 0814	Yes	tes	08 1728 No Dies	08/740	· (

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet	Transducer pulled up & Inspected ? (note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
NERT5.91S1	36.0870240	-114.9828930	11-7-18	1022	13.02	YES 1019	Yes	Yes	102212 N+DIFF	Yes 10 2240	
NERT5.49S1	36.0883100	-114.9765210	11-9-18	0931	27.19	485 979	145	745	093119 NODILE	Yes 093130	
NERT 5.11S1	36.0898060	-114.9707810	11-9-18	1006	20.92	725 1004	Yes	Yes	100553 NO DIFE	1-0607	
NERT 4.93S1	36.0900920	-114.9679530	11-9-18	1051	28.57	785 1019	Y45	425	1 02100 No Diff	102/08	
NERT4.71S1	36.0910570	-114.9645320	11-9-18	1915	28.86	425 1043	٧٤٥	125	No Dice	Yes 1045 15	
NERT 4.51S1	36.0924340	-114.9606310	11-97-18	1057	26.30	425 1055	Yes	425	102716	Yes 105322	
NERT 4.38S1	36.0959460	-114.9599230	11-7-18	0709	32.87	485 0708	Yes	Yes	070919 No Diff	725	
NERT4.21N1	36.0954300	-114.9566400	11-6-18	0908	35.54	785 0908	VIES	Yes	No DAt 001010	765 022052	
NERT3.80S1	36.0949070	-114.9485490	11-6-18	0221	10.4	725 0219	Y25	Yes	1202-20 No Dec	405 991902	
\$3.5	36.0594200	-115.1583500	11-6-18	-		725 0138	Yes	Yes	N/A	Yes	DIP NOT CITTLE TIME DIEL DUE TO IMPERDICALITI OF BRINGING PHONE/ PAO
S3.75			11-5-18	į		425 0350	Yes	Yes	N/A	745 035157	INTO WASH
S3.8	36.0958400	-114.9469800	11-5-18	1		425 03: 25	Yes	125	NA	725 03:26:42	()
S4.6	36.0936800	-114.9586300	11-9-18	- ,	صيعا سمينين	12:50	YES	Yes	NJA	405 1251:42	B. B. M. J. Colores and
S4.65	36.0934300	-114.9595700	11-5-18	_` _		1006	Yes	Yes	N/A	YES 106718	l j
B4.65	36.0934800	-114.9599300					*	4		-	COULD NOT LOCATE BAROWERS, TWING MUSSIA'M ASWORD
S4.75	36.0923400	-114.9632500	11-5-18	-		425 02:34	Y 25	185	N/A	105 - 21 :01	11
S5.3	36.0896800	-114.9730200	(1-5-18			425 11:20	165	Yes	NIA	YES 11-21-21	11

Notes:

^{1.} Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.

^{2.} Note conditions of the rope and transducer; clean transducer if necessary.

^{3.} When checking transducer, compare the transducer's time to the Leveloader time, and calibrate if needed.

^{4.} Data to be downloaded quarterly (approx. beginning of August and November)

DAILY ACTIVITY REPORT

			** * * * *	ICLI OILI	L				
DATE:	11-7-18	Day:	S	M	Т	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	SHAD)	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilot Test	Temp °F:	degrees	70				-	
SITES / LOCATIONS:	NES SIDE OF LV	Wind:	Still	Moderate	High	Direction:			
	Wish	Humidity:	Dry	Moderate	Humid	Rain			
		ade the approp			d, and hu	nidity			
	NNEL ON-SITE			ployer			Job 7		
ATENMO REDRI	laces		GES	E-P		ઉત્ત	Sologist		
VISITORS C	DN-SITE	Employer		Pu	rpose of V	Visit	Time	e In	Time Ou
	IS TAKEN TODAY/SAFET lan and THAs, and biological			JCTED:				REQUI	AFETY IREMENTS BEEN MET
								Kes	!
	cludes Subcontractor supplie					Date Arriv	ed		Removed
Solved Leveloader,	Sonnot Worke Lev	el Akter				11-7-18		/1-3	1-14
Material/Supplies Receive	ad at the Site.								
	arks Not Presented Above:								
Field Activities and Rema	HAS INOUTTESENTED ADOVE:								

Name:

Date: 11-7-18

	Ι	OAILY AC	TIVITY	REPORT	Γ				
DATE:	11-9-18	Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Regional Groundwater RI –	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
GITEG / LOCATIONS	Geophysical Pilot Test 5. Side of wash	Temp °F:	degrees	70		T			
SITES / LOCATIONS:	3. 3.02 0. 00.01	Wind: Humidity:	Still	Moderate	High	Direction:			P
	Circle or sha	de the approp	Dry	Moderate	Humid	Rain			
PERSO	NNEL ON-SITE	de the approp		oloyer	id, and nu	indity	Job T	itle	
ARMAND ROOT	ei ques		GIES	<u> </u>		Gr 4	EOLO GIA		
VISITORS	ON-SITE	Employer		D ₁₁	rpose of V	Vicit	Time	T	Time Out
VISITORS	J11-511E	Employer		1 u	i pose oi	· 1811	Time	111	Time Out
WORK COMPLETED	D						-	-	
ON SITE @ 07	COND NOT BE D	E TRANSDU	ier Daw	JUAOS AN	S. 5,0	e of was	SH. BA	lower	er 34-65
Fire Massacure	No SHEET For AM	DITTONAL IN	JEE	517E (0) 12 -N	10 Pm - "	te for to	> YEANSE	>uea	MONITORIN
71,100	3,733,73								
TICT CAPETY ACTION	IC TO A TAXABAL TOOD A SAIC A TENTRAL	TATODE CONTO	NG COMPT	CONTRA					
	NS TAKEN TODAY/SAFETY Plan and THAs, and biological a			CIED:				EQU	AFETY IREMENTS BEEN MET No
Equipment at the Site (in	cludes Subcontractor supplied	l equipment):				Date Arriv	red	Date	Removed
	COADER, SouNST 1		SVE C L	rek		11-9-18			9-18
	•	11 10 10 10 10 10 10 10 10 10 10 10 10 1							
Material/Supplies Receiv	ad at the Site.								
	arks Not Presented Above:					19980 124			

· Name:

Date: //-9 -/8

		D.	AILY AC	TIVITY	REPORT	Γ				
DATE:	1/9/19		Day:	S	M	T	W	Th	F	S
PROJECT NAME:	NERT Region Groundwater F	- IS	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		
	Geophysical Pilo	1	Temp °F:	degrees	60°			74		
SITES / LOCATIONS:	NERT-LU WA	٥٧	Wind:	Still	Moderate	High	Direction:			
	Circ	lo or shad	Humidity: e the appropi	Dry	Moderate	Humid	Rain			
PERSO	NNEL ON-SITE	ie oi siiau	е ше арргорі		oloyer	a, and nur	niaity	Job Tit		
Enc hand			-	BES	noyer		Steat	P Geolog		
SV(S) USALVI)						3191	· carre	121	-
							-			
VISITORS O	N CITE		Employer		n	CX	7 4	m: I		F: 0 4
VISITORS	N-SIIE		Employer		Pu	rpose of V	/ ISIT	Time I	n I	Time Out
					1.77		-			
WORK COMPLETED gauering of trans work on the local key and then to wells today and the mayning to 1530.	I two sinker	ce well	Sibe to	LUTHICE	n 4ne sch (53.50 des	ne ac↓ 3.80	Tuell a	comple	HO 18	mennor
LIST SAFETY ACTION Reviewed Health Safety P.					CTED:					ETY EMENTS EN MET No
Equipment at the Site (inc	cludes Subcontractor	supplied o	equipment):				Date Arrive	ed	Date Re	moved
									2 110 110	ano veu
Solonst Level water	meter									
Material/Supplies Receive										
Field Activities and Rema	rks Not Presented Al	bove:								

Name: En A Many

Date: // 9//7

		\mathbf{D}_{i}	AILY AC	TIVITY	REPORT	Γ					
DATE:	1/10/19		Day:	S	M	T	W	Th	F		S
PROJECT NAME:	NERT Region Groundwater F	– L	Weather:	Sunny	Partly Sunny	Cloudy	Rain	Snow		-	
	Geophysical Pilo		Temp °F:	degrees	65	Γ					
SITES / LOCATIONS:	NERT-LVU	ush	Wind:	Still	Moderate	High	Direction:				
			Humidity:	Dry	Moderate	Humid	Rain				
		le or shad	e the approp		weather, win	d, and hui	nidity	~			
	NNEL ON-SITE				ployer			Job Tit			
Eric Wans			(GES			Stal	F Geold	<u> 2915</u> 1		
VISITORS O	N_CITE		Employer		Pu	rpose of V	Vicit	Time I	n	Time C)ut
VISITORS	II-SIIE		Employer			i pose oi	V 151t	Time	**	1 mic C	·ut
WORK COMPLETED	onsite o	0715	on the	North	side of	the m	ash to o	inait.	NDE	P to	
Pass along a ne	u set of ne	ell Key	s. Besan	well :	jourging of	- tran	soucer a	day 10	<u>ud</u> i	ng @	
WORK COMPLETED Pass along a ne mwn 3.5 N at santh side to 15 con firmed mis side were daulic me communication 2 1558	E 0830 I 4	nizh03	all the	Xorth 5	ide mells	and th	en proct	seged A	<u>y Th</u>	م وارد	
15 can firmal mis	sing and oses	Amod 14	school an	nsourcers	is the	2122	A Lacia	inells on	- + 1 2	e sould	
s. de neve dante	adad with the	evan	from of w	nwa6	.95 d	umu 4.	95 thes	R 2 tro	rn sd	ucors so	2 up
me communication	errors will pul	1 and 1+	ry Loundo	ading a	t the off	ice. T	he Baron	neter date	· ua	sdownle	ad
@ 1558, 075	Te é 1615										
LIST SAFETY ACTION	IS TAKEN TODAV	SAFETV I	NSPECTION	NS CONDI	TCTFD.					FETY	
Reviewed Health Safety P					CIED.			RI		REMEN'	TS
Teeviewed Hearth Surety 1	ian and 111715, and on	nogioui un	areness acear	inent.						BEEN MI	
									Yes	> No	
Equipment at the Site (in		supplied	equipment):				Date Arriv	/ed	Date	Removed	i
Sclonst Le	velodder										
in the	ater meter										
										· ·	
Material/Supplies Receive	• • • • • • • • • • • • • • • • • • • •							:	-		
Field Activities and Rema	irks Not Presented A	bove:									

Name: Gue & Mung

Date: 1/10/19

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & Inspected ? (note time) (1) (2) (3)	Download Data? (4)	Verified Data?	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer	
AA-30	36.0865571	-114.9742534	1/9/19	1142	19.39	yes-1146	yes	yes	114800/	yes-1200	Excellent Condition-100% Bet	fory Life
COH2B1	36.0863473	-114.9861928	1/10/19	1316	16.59	ve5-1318	yes	ves	132001 132001 -15ec	ves-1330		
LNDMW1	36.0932094	-114.9572109	1/9/19	1304	36.79	1485-1306	ves_	yes	130900/	ľ		
LNDMW2	36.0959057	-114.9581419	1/10/19	0857	34.41	1205-0901	yes_	kes	090306 090301 -15ec	/ Ves-0915		
MW-13	36.0893990	-114.9668492	1/9/19	1346	35.24	V-5-1347	ves_	ves	135000/ 135001 -15ec	v-15-1400		
MW-20	36.0913381	-114.9591051	1/9/19	1327	32.68	ves-1328	x-85	Ves	133000/ 133001 -15ec	1		
PC-74	36.0875307	-114.9976758	1/9/19	101)	10.92	105-1618	Ve5	1/85	1021001 102101 -15ec	1		
PC-77	36.0863375	-114.9982664	1/9/19	1001	5.95	1105-1002	yes	465	100600/ 100601 -15ec	A		
WMW3.5N	36.0976828	-114.9480654	1/19/19	0833	35.15	V-65-0935	yes	yes	083700/ 083701 -15eC	•		
WMW3.5S	36.0962514	-114.9451632	1/9/19	1403	43.49	vos -1405	ves	yes	140701 -1500	•		
WMW4.9N	36.0949374	-114.9664624	1/10/19	0918	31.76	ver 0920	ve<	ves	092200/ 092201 -15ec	'	V V	
WMW4.9S	36.0909079	-114.9664822	1/10/19	1433	26.38	VB-1435	NO	NO	NIA	NC	* Communication error Could not download data	
WMW4.9S Barometer	36.0909079	-114.9664822	1/10/19	1433	same	Ves-1435	yes	•	1603001	405-1615	# Excellent condition- 100% Batter	y Lite
WMW5.58S	36.0871246	-114.9794919	1/10/19	1253	17.15	VIDS-1255	, ,	yes -	160301 -15ec 1256001		Disregard data after 1430	1. 1.5
WMW5.5S	36.0873319	-114.9754580	1/9/19	1131	14.45	yes-1132	yes yes	765	125601 - 1sec 113400/	•	Excellent Condition -100% Both	tery Litte
WMW5.7N	36.0886006	-114.9798359	1/10/19	0939	8.74	vex-0941	y-e5	yes	113401 -15ec	•	1	
WMW6.15N	36.0912006	-114.9865133	1/10/19	0958	22.95	yes - 1001	yes	yes ves	1002001 1002001	,		
WMW6.15S	36.0877433	-114.9878030	1/9/19	1039	9.63	9.00		7	-1366	yes-1015	Do not pull up Transducer	
WMW6.55S	36.0884676	-114.9942317	1/10/19	1327	16.12	ves-1331		. 465	133300/ [3330] -15ec	1245		
WMW6.9N	36.0918121	-114.9986259	1/10/19	1016	18.05	V.e5-1016	y-e5 4-e5	yes	1019001	•	1	
WMW6.9S	36.0890141	-115.0002799	1/10/19	1346	_	45-1348	No	hes No	101901 -15EC	NO	* communication error could not download data	

Well ID	Latitude	Longitude	Date of DTW Measurement (mm/dd/yy)	Time of DTW Measurement (hh:mm)	Depth to Groundwater (feet)	Transducer pulled up & Inspected ? (note time) (1) (2) (3)	Download Data? (4)	Verified Data? (5)	Record Time: Transducer / Reference / Difference (hh:mm:ss) (6)	Transducer Synchronized & Reset? (7)	Comments / Condition of Transducer
NERT5.91S1	36.0870240	-114.9828930	1/9/19	1101	13.98	yes-1102	yes	yes		yes-/115	Excellent condition - 100 % Battery.
NERT5.49S1	36.0883100	-114.9765210	1/9/19	1116	27.44	ves-1117	ves_	Xes	111800/ 111801 -150c	yes-1130	
NERT 5.11S1	36.0898060	-114.9707810	1/9/19	1216	21.04	ves-1212	yes_	ves	121301-1500	ves -1230	
NERT 4.93S1	36.0900920	-114.9679530	1/9/19	1225	27.66	ves-1227	ves	ves	122901 -1500	'	
NERT4.71S1	36.0910570	-114.9645320	1/9/19	1237	28.81	ves - 1239	yes	VPS	124000/	ves-1245	
NERT 4.51S1	36.0924340	-114.9606310	1/9/19	1250	26.18	VES-1252	ves	105	1254001	ves-1300	
IERT 4.38S1	36.0959460	-114.9599230	1/9/19	0841	32.72	1 Va-0844	ve 5	ves	084700/ 084701 -15ec	7	
NERT4.21N1	36.0954300	-114.9566400	1/9/19	0816	32,53	11es-0818	yes	Ves	082100l	yes=083c	
NERT3.80S1	36.0949070	-114.9485490	1/9/19	1450	10.51	VB-1451	4.65	yes yes	1453001 145301 = 15ec	/	The state of the s
S3.5	36.0594200	-115.1583500	1/9/19	1422	-	NO	yes	ves	142400/	/	adiminary 4
S3.75			1/10/19	1126	_	NO	y es	1 465	1128001	ves-1130_	
S3.8	36.0958400	-114.9469800	1/9/19	1438	_	NC	() ()	(/PS	14/000/ 14/01 - Vsec	Jes-1445	
S4.6	36.0936800	-114.9586300	1/10/19	1149	•	NC	ves	\\.\p\	115300/ 11530/ -15ec		Circumster .
S4.65	36.0934300	-114.9595700	1/10/19	1201	_	NO	yes	105	120300/	ves - 1215	*Courter
B4.65	36.0934800	-114.9599300				de-		70		7	
S4.75	36.0923400	-114.9632500	1/10/19	1218	~	NO	-/ *45	1/2(12200/ -1500	1/05 -1173-2	
S5.3	36.0896800	-114.9730200	1/10/19	1235		NO	/** >	yes	12380cl 12380cl -15ec	' - '	

Notes:

^{1.} Note the time that the transducer was pulled out and replaced, so that the appropriate data can be ignored.

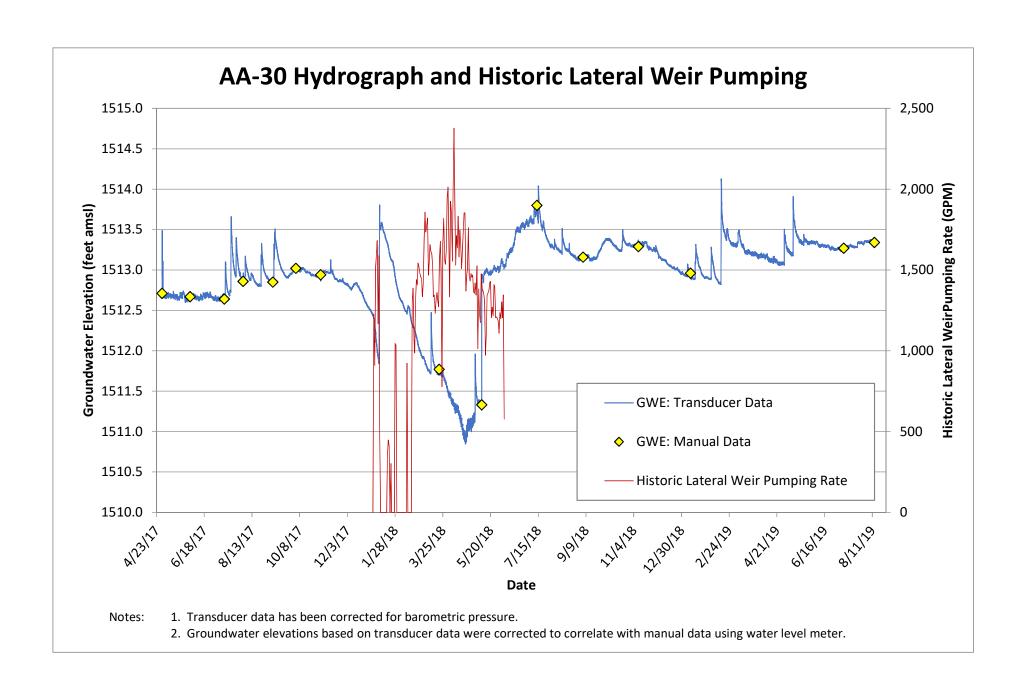
^{2.} Note conditions of the rope and transducer; clean transducer if necessary.

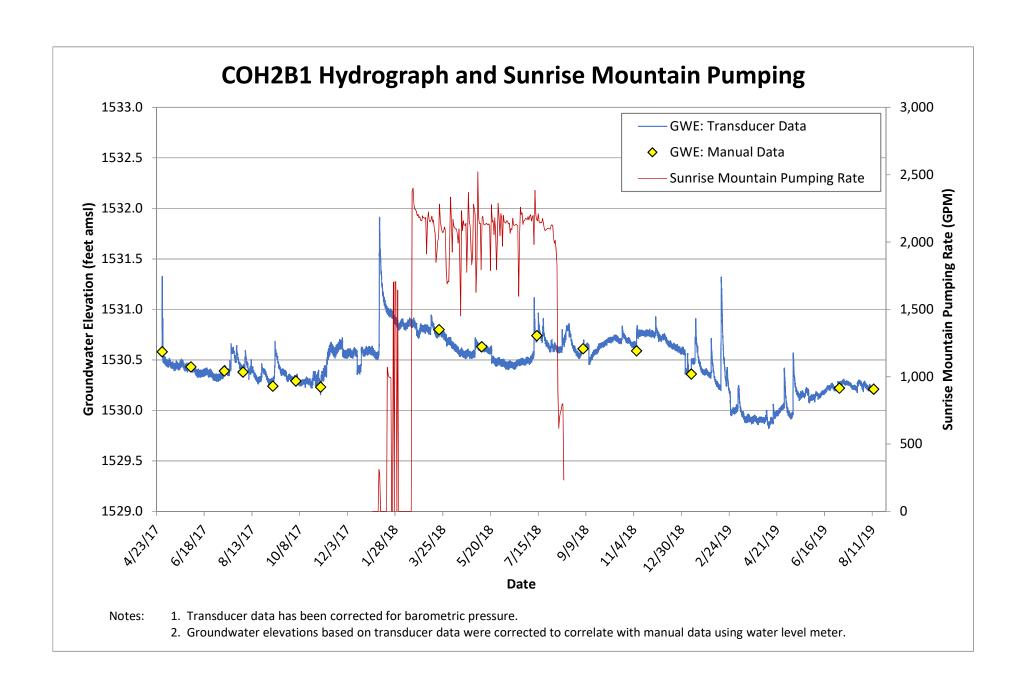
^{3.} When checking transducer, compare the transducer's time to the Leveloader time, and calibrate if needed.

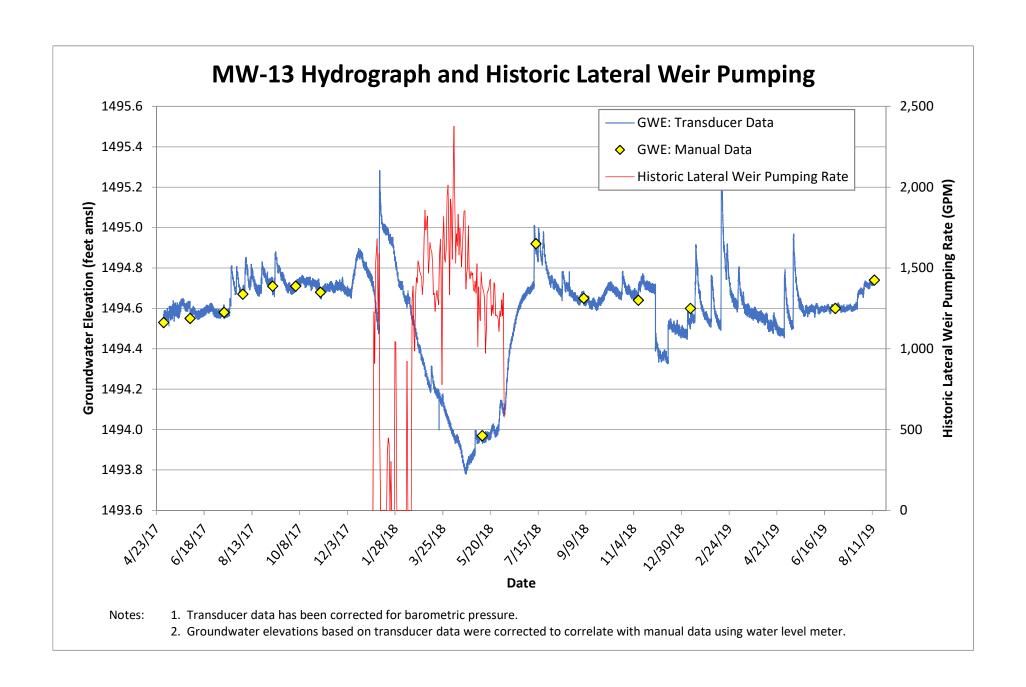
^{4.} Data to be downloaded quarterly (approx. beginning of August and November)

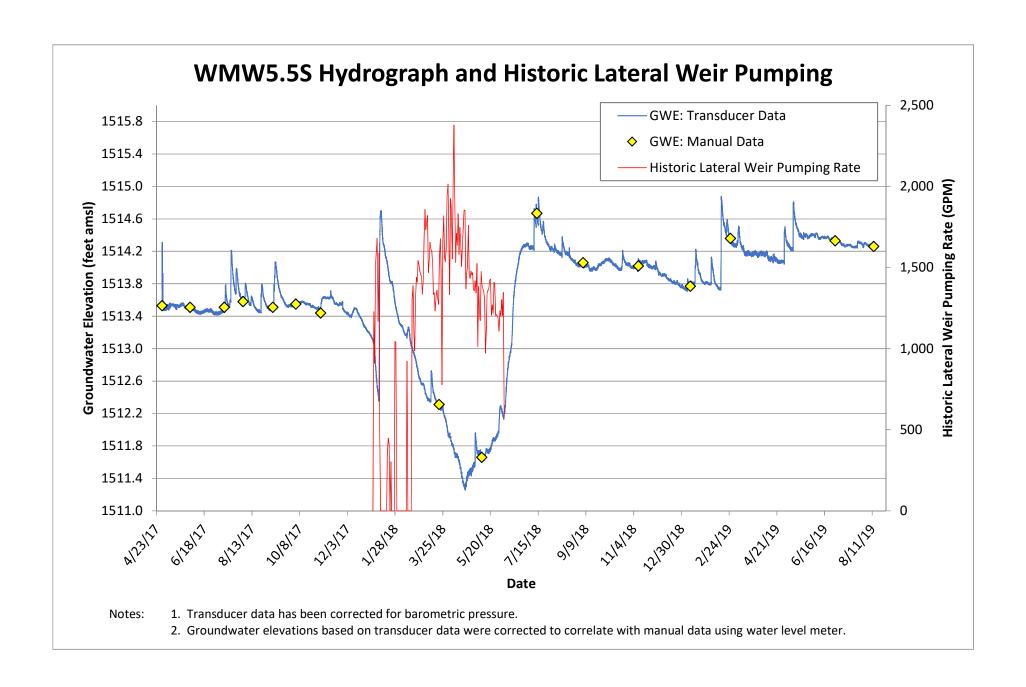
Appendix E

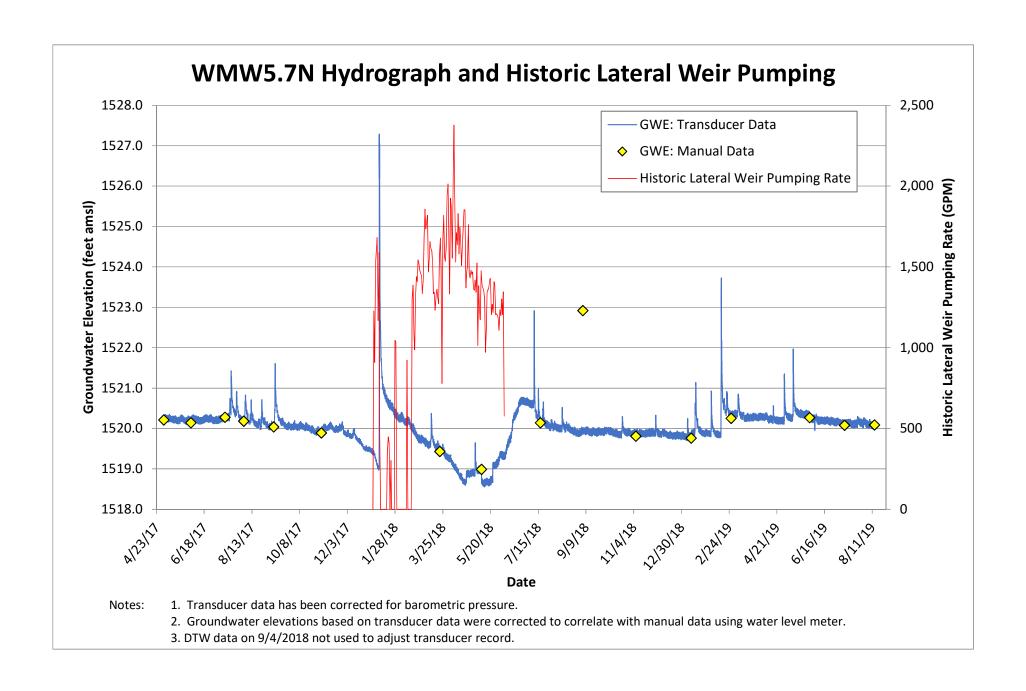
Groundwater Hydrographs and Dewatering Data

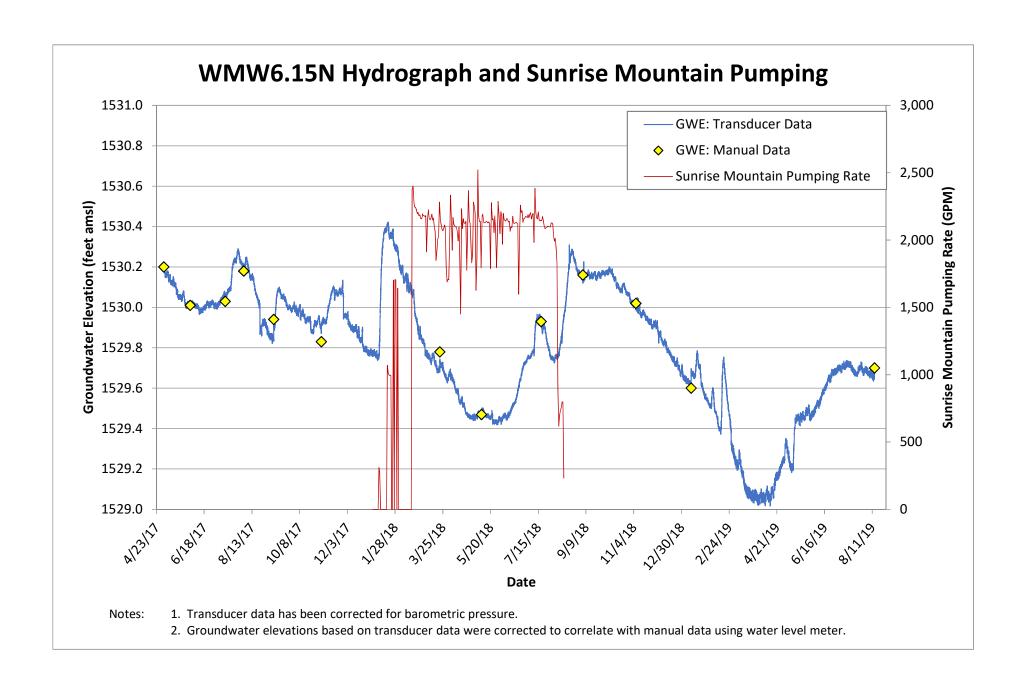


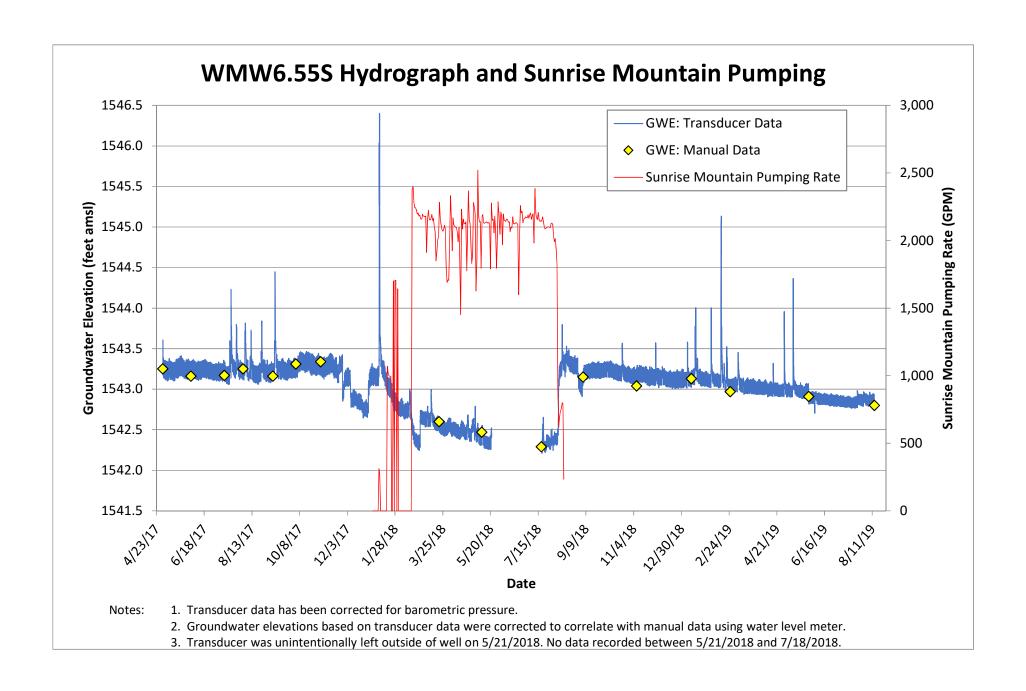






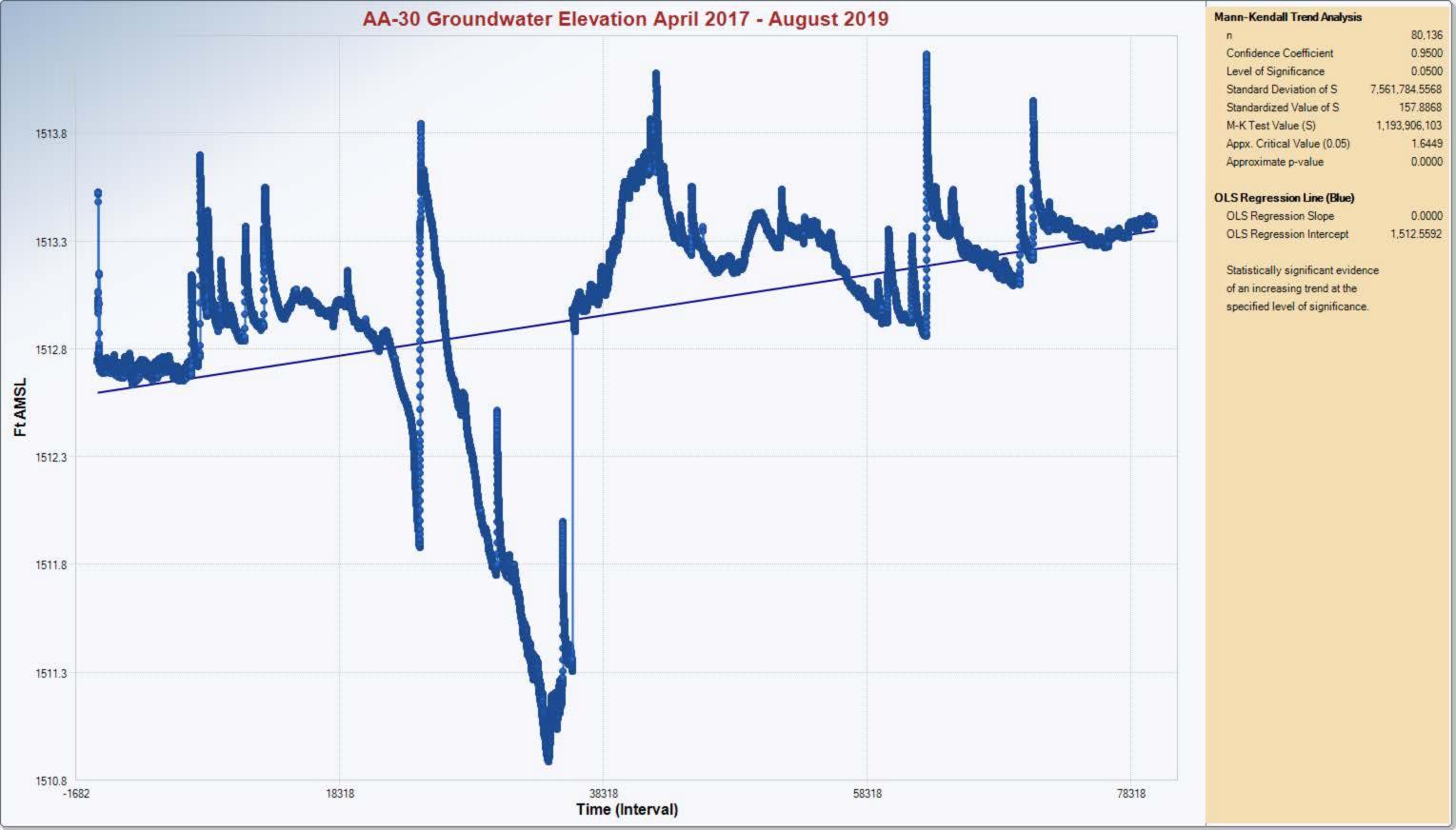


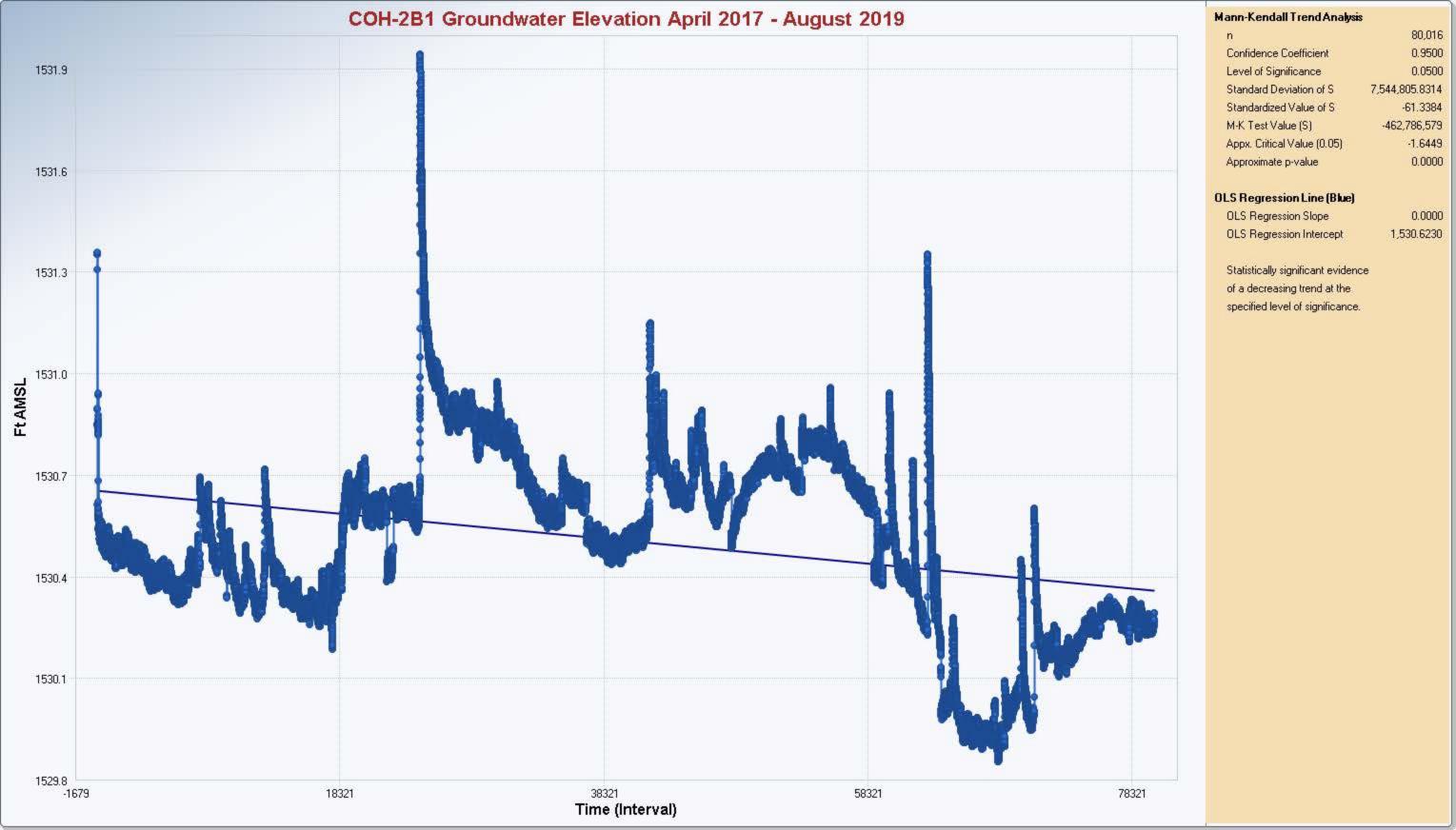


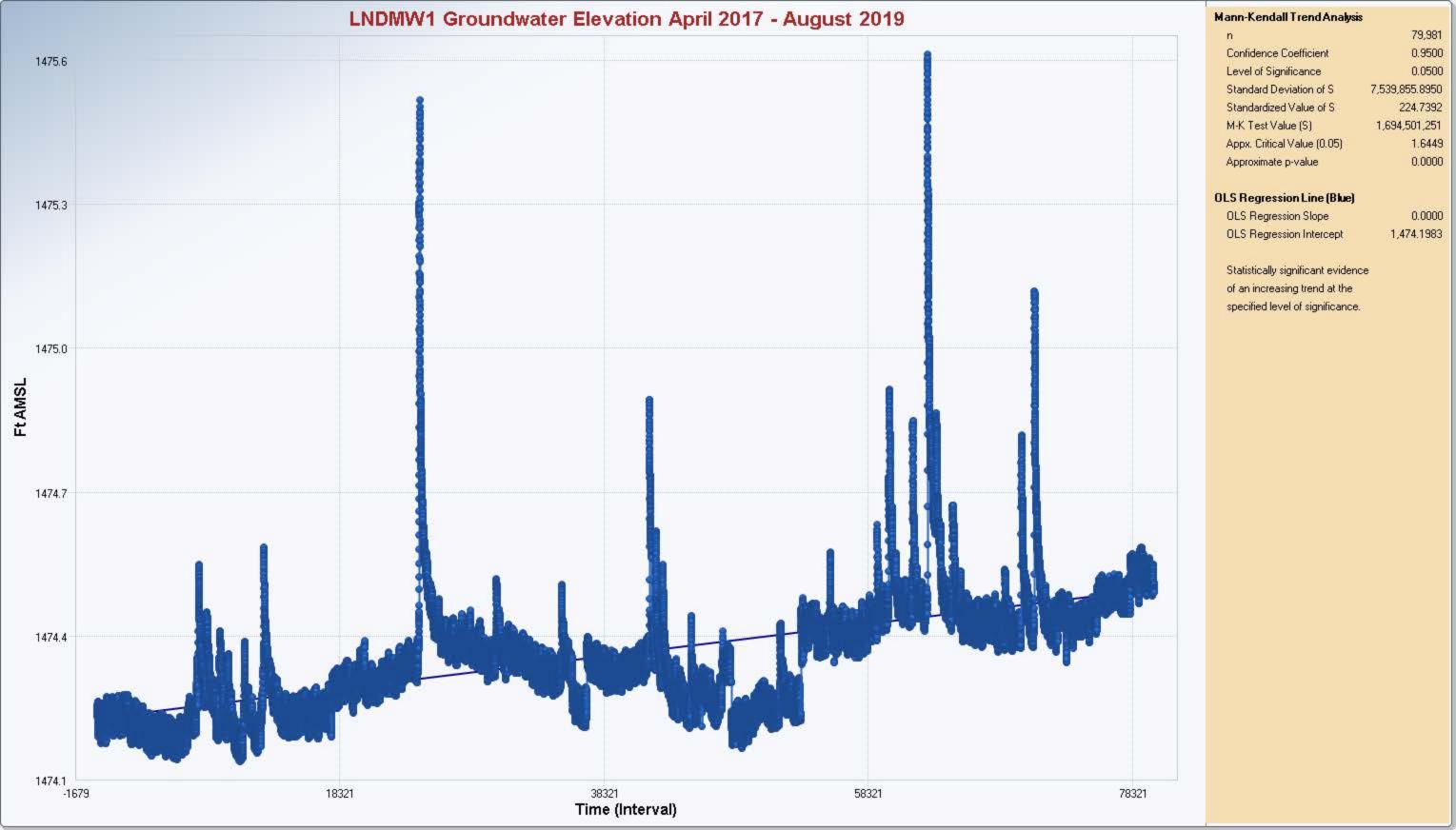


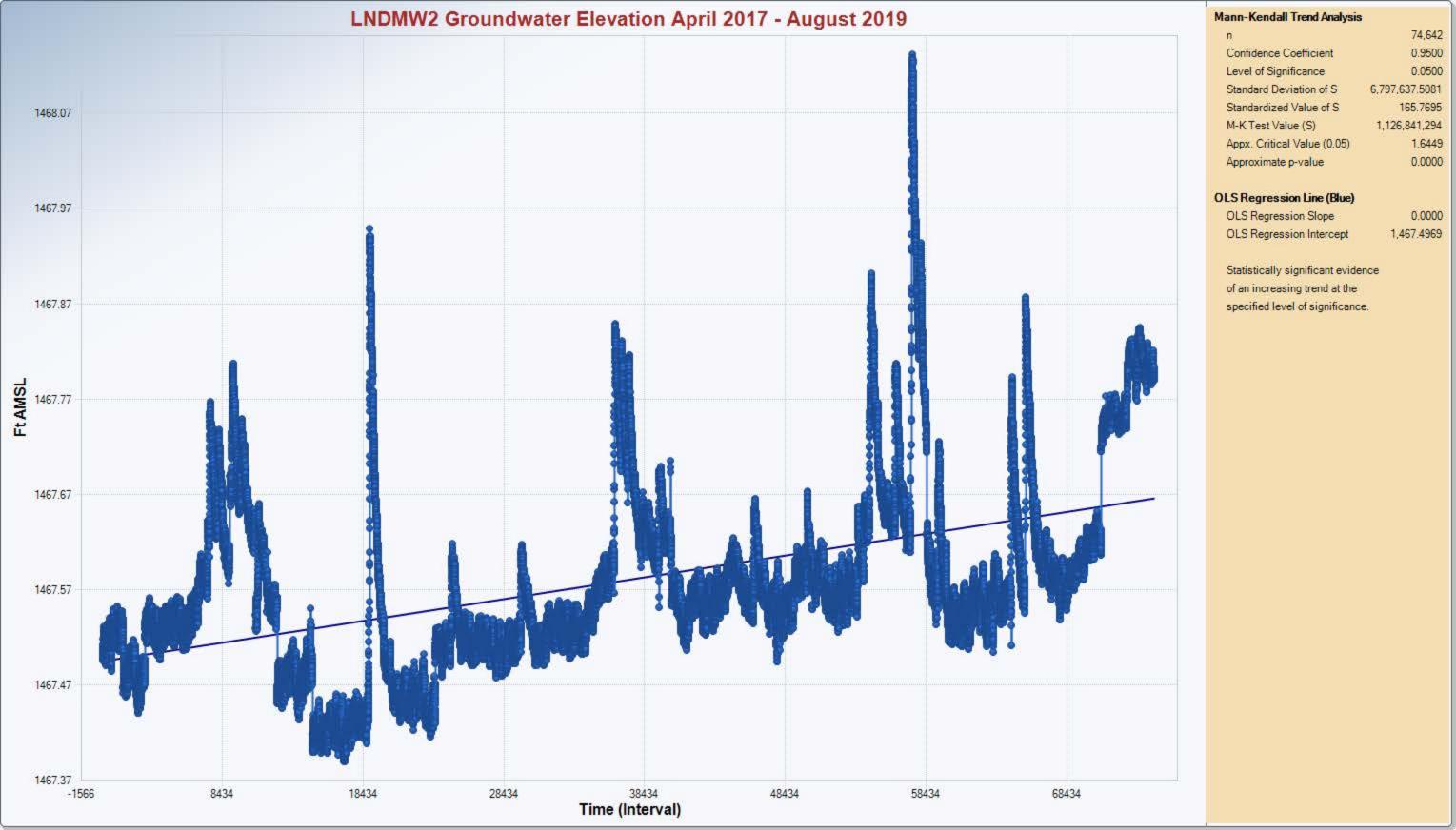
Appendix F

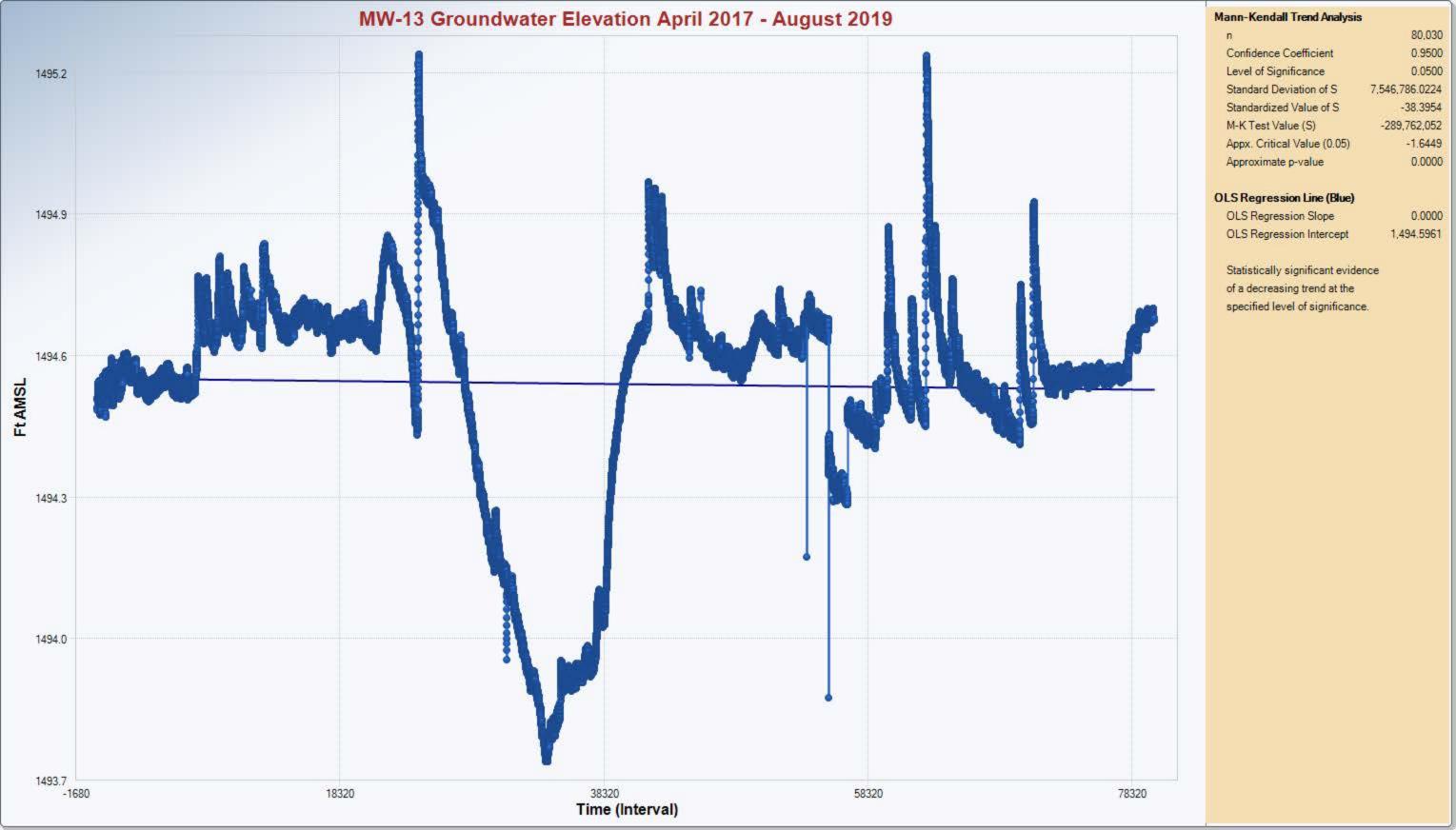
Trend Tests

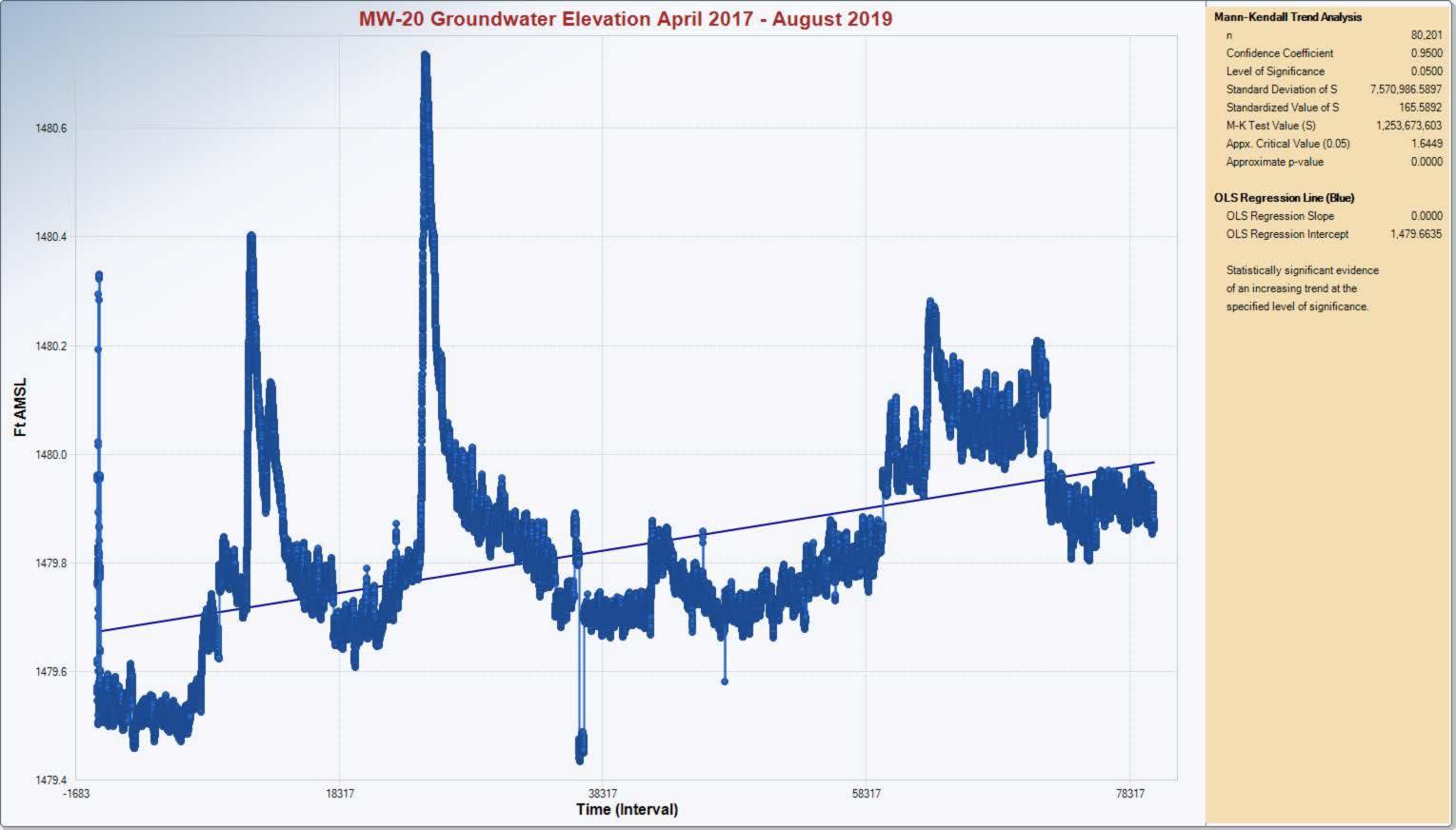


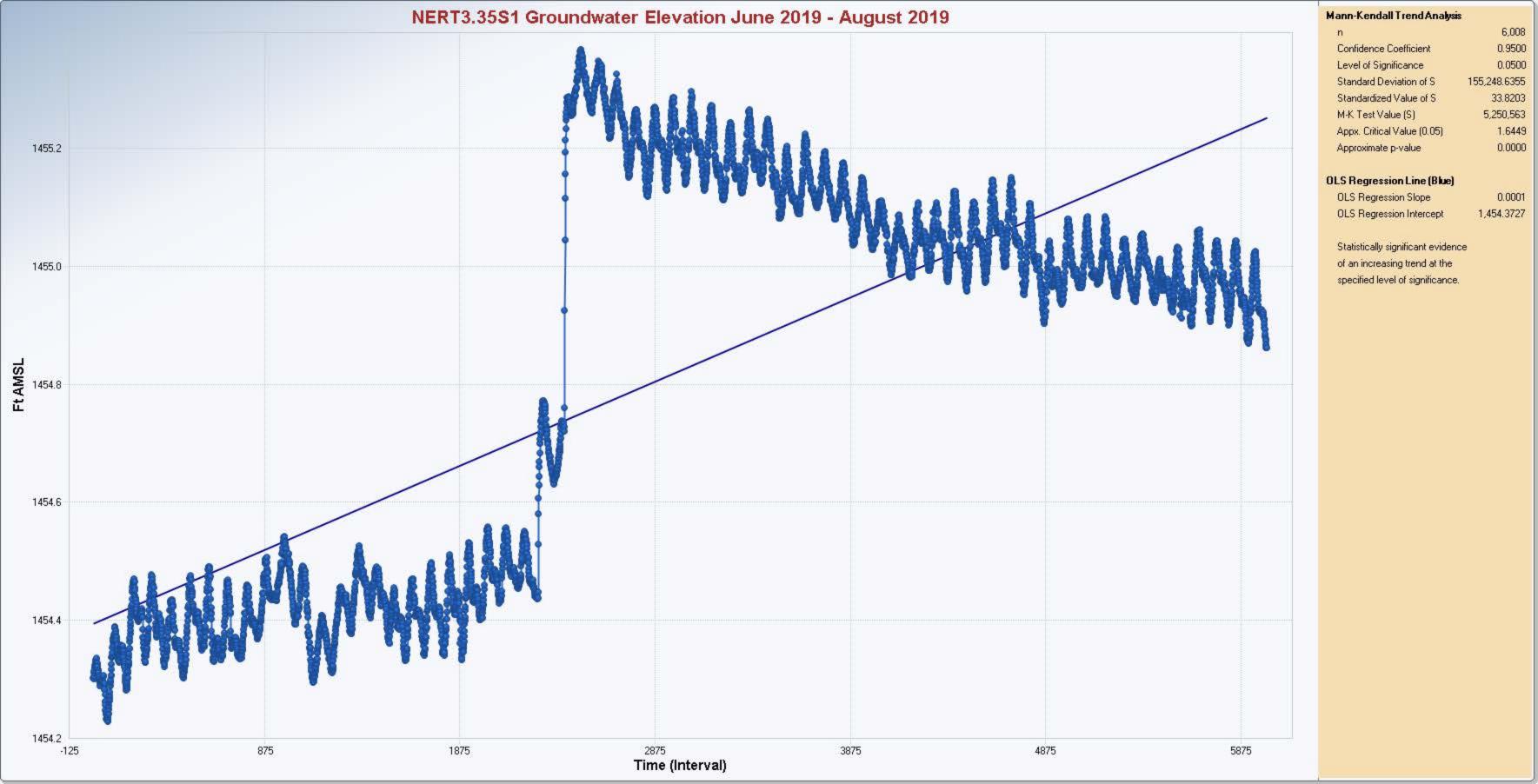


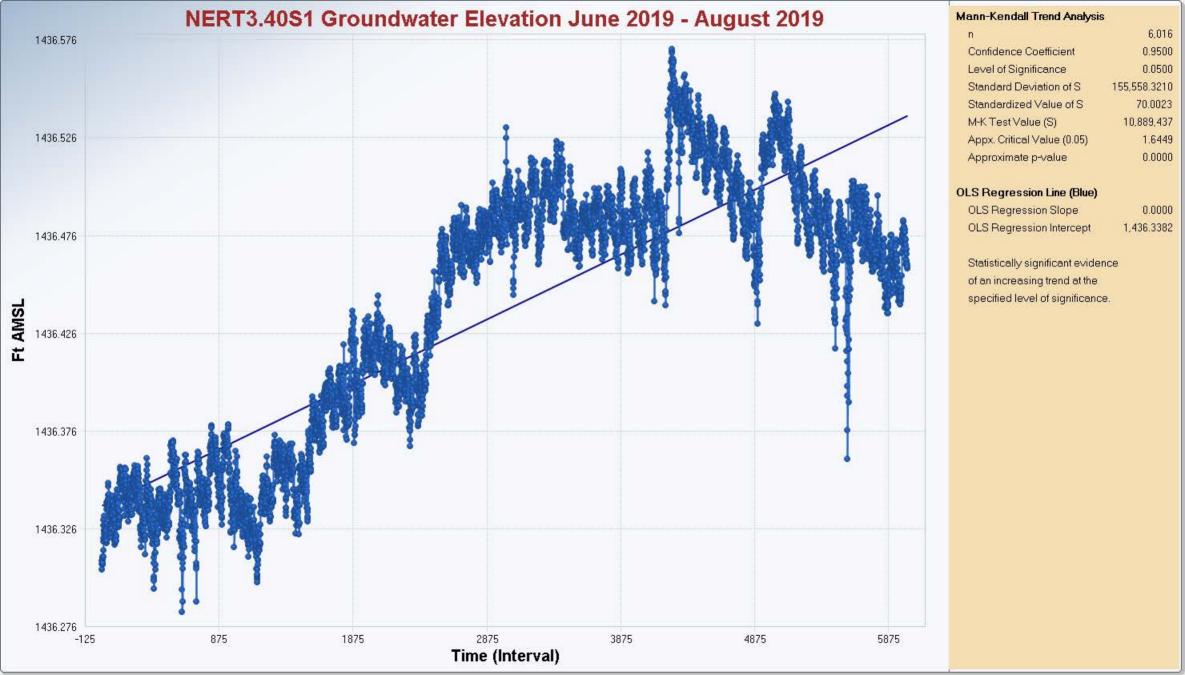


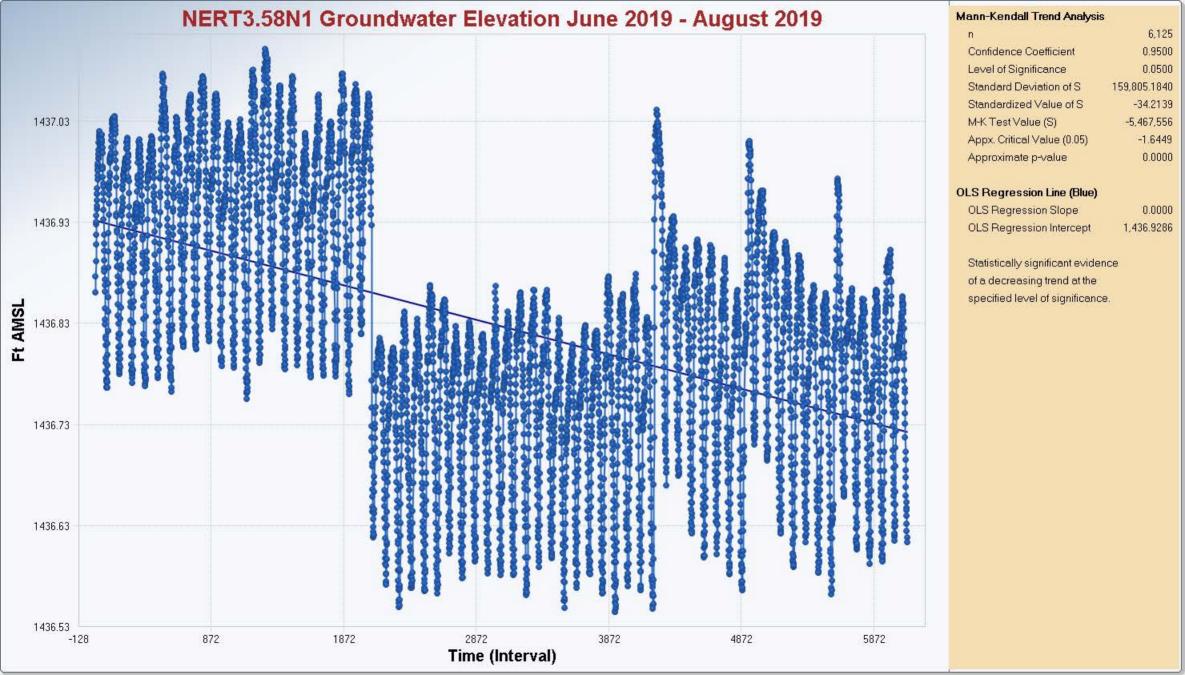


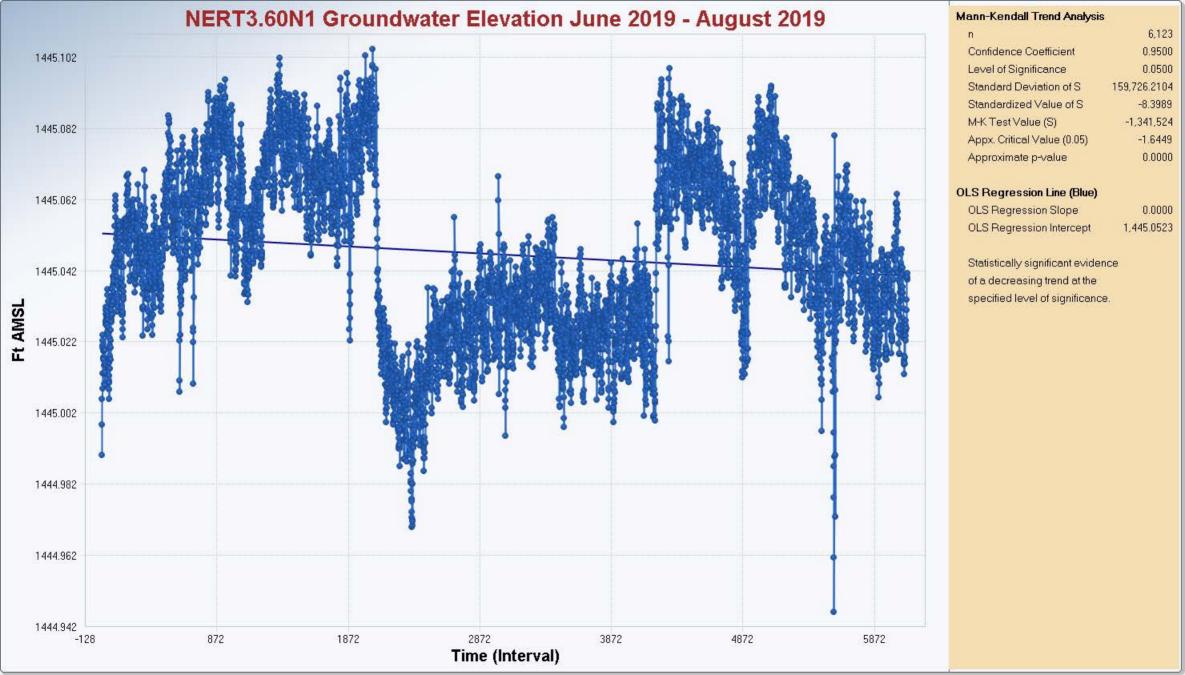


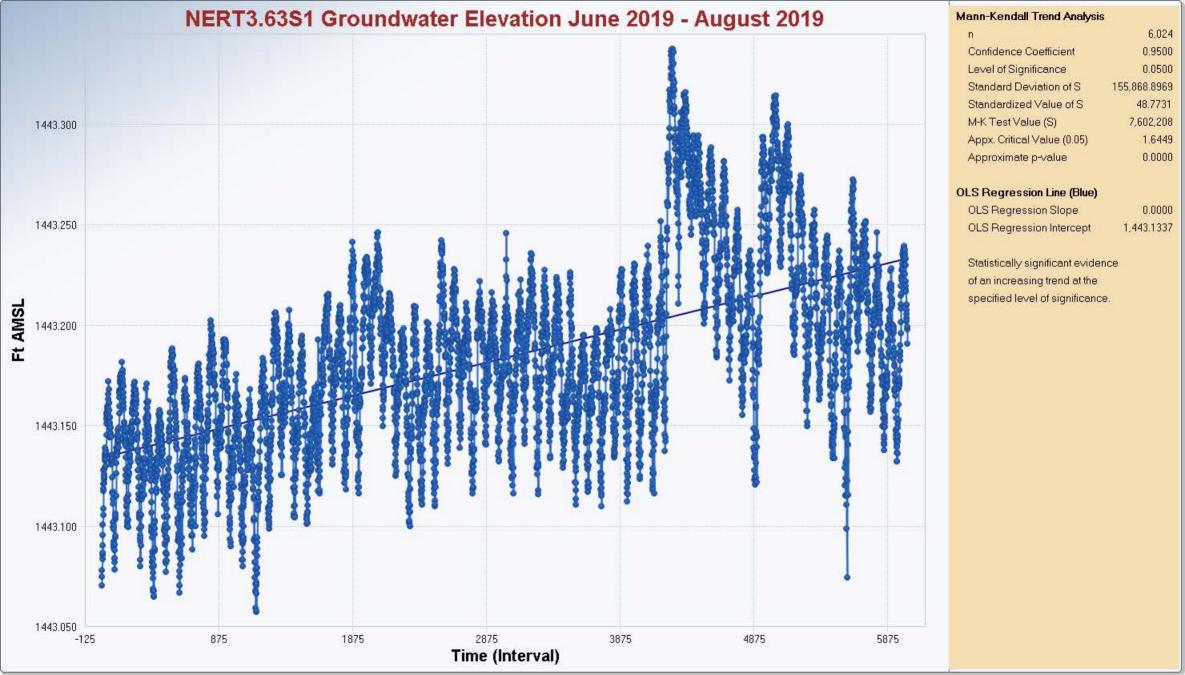


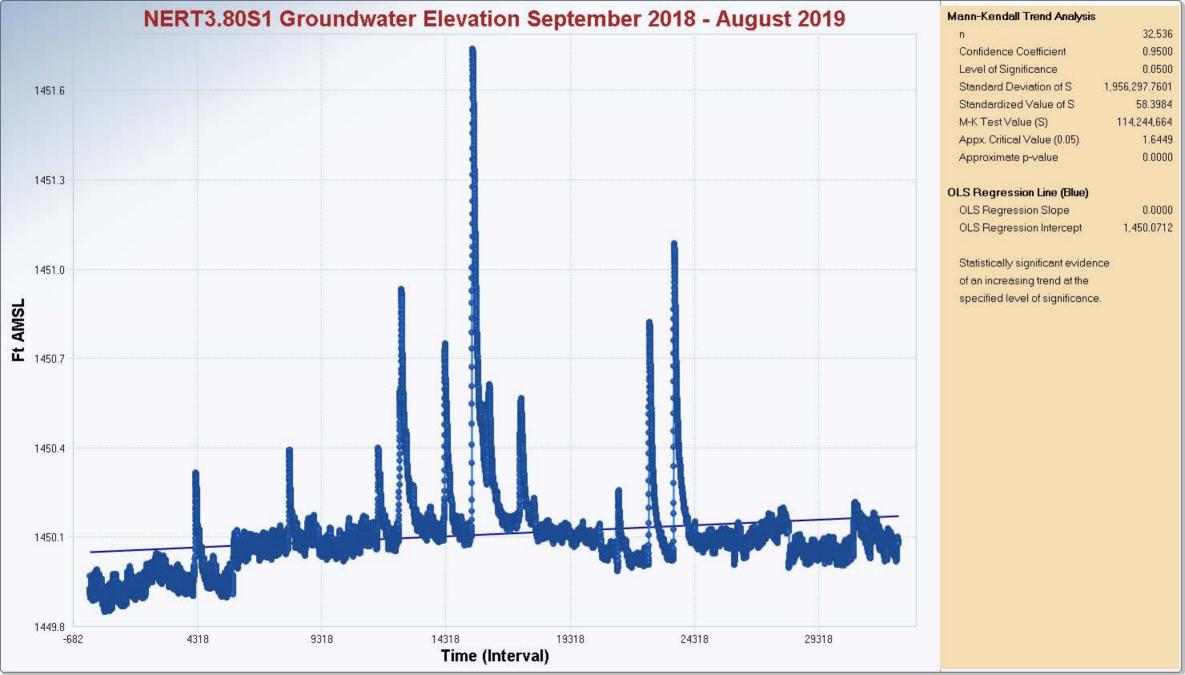


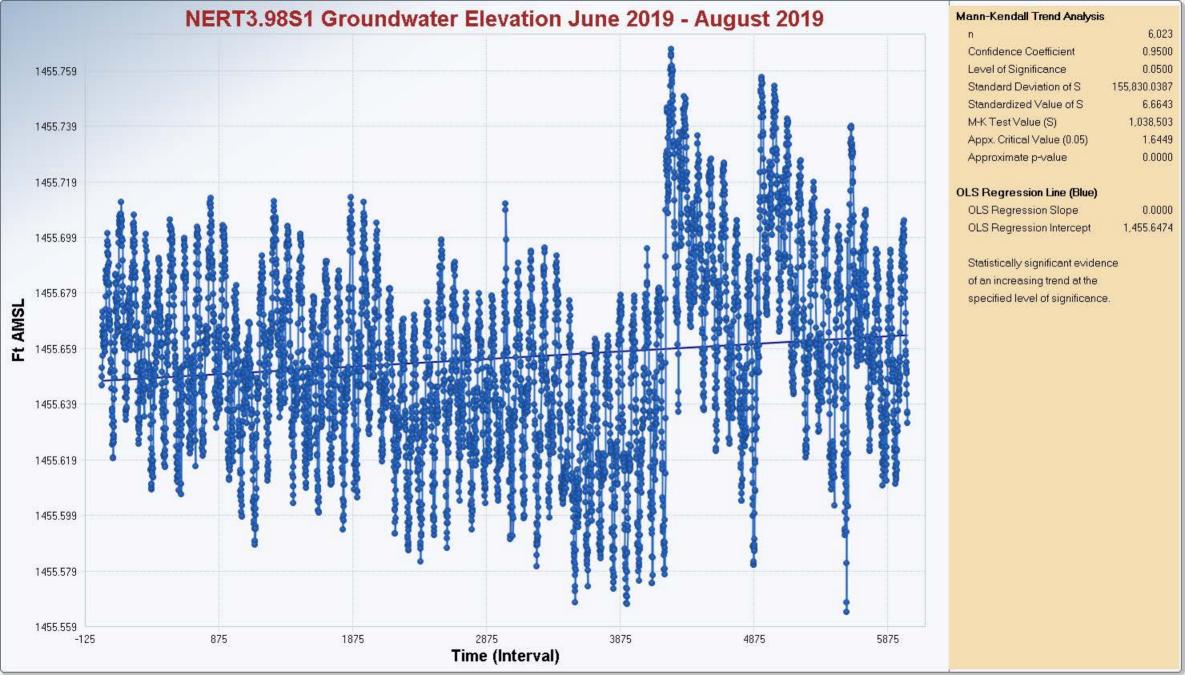


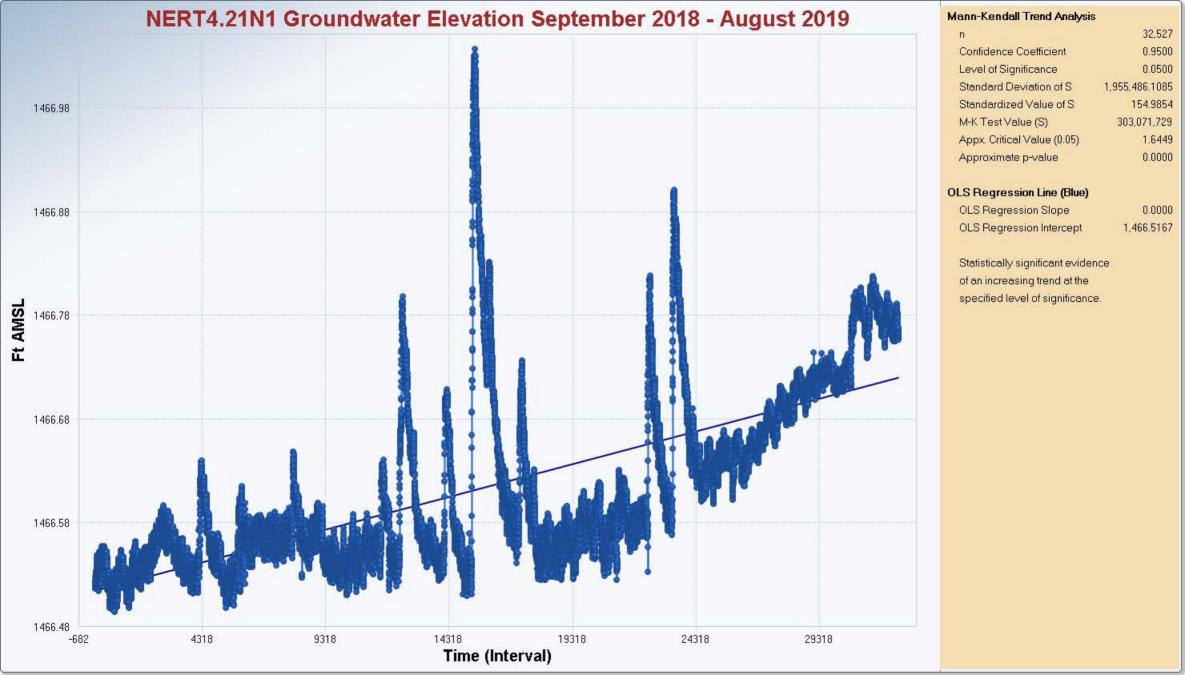


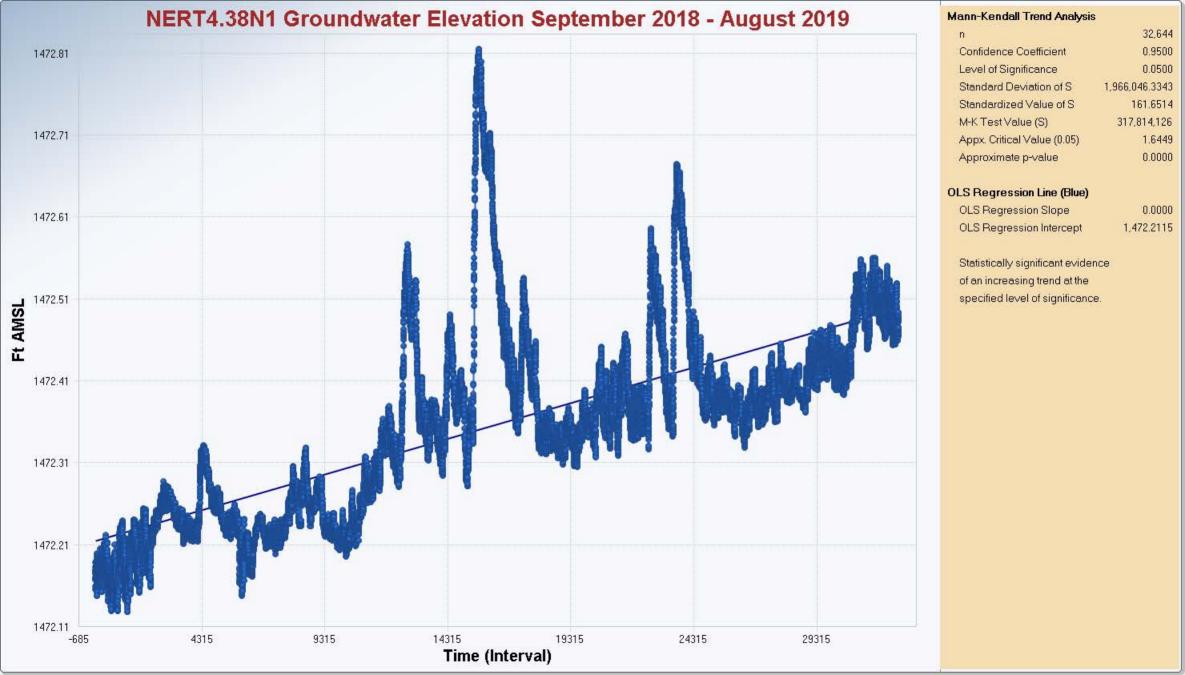


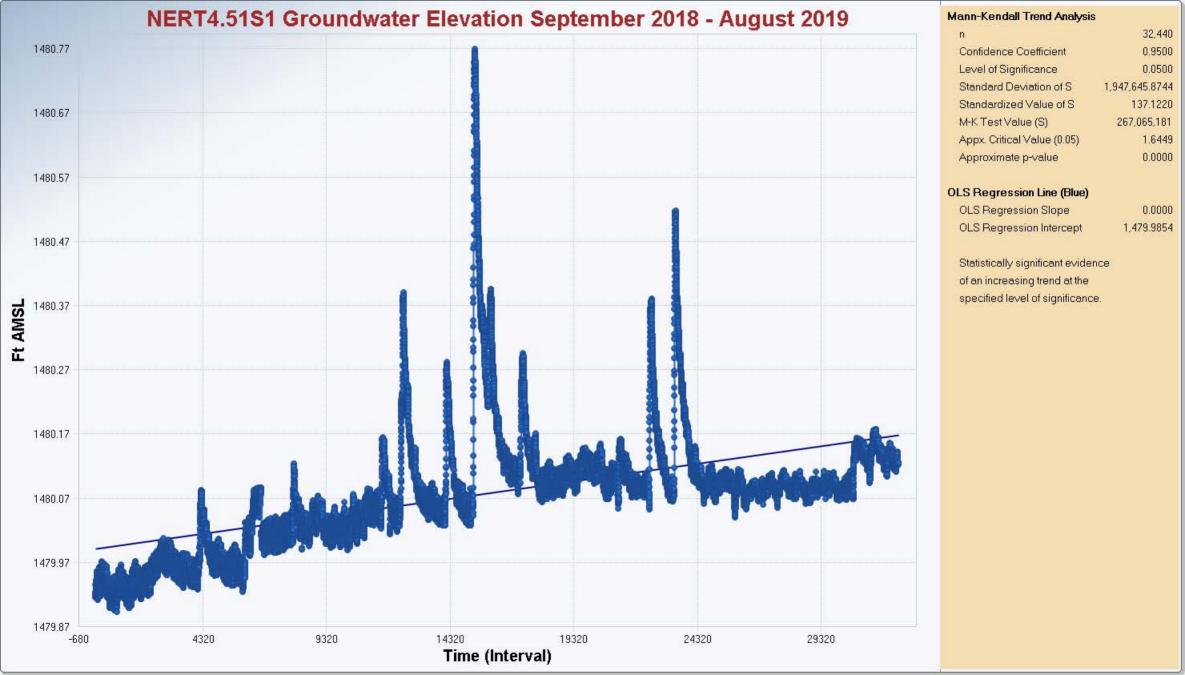


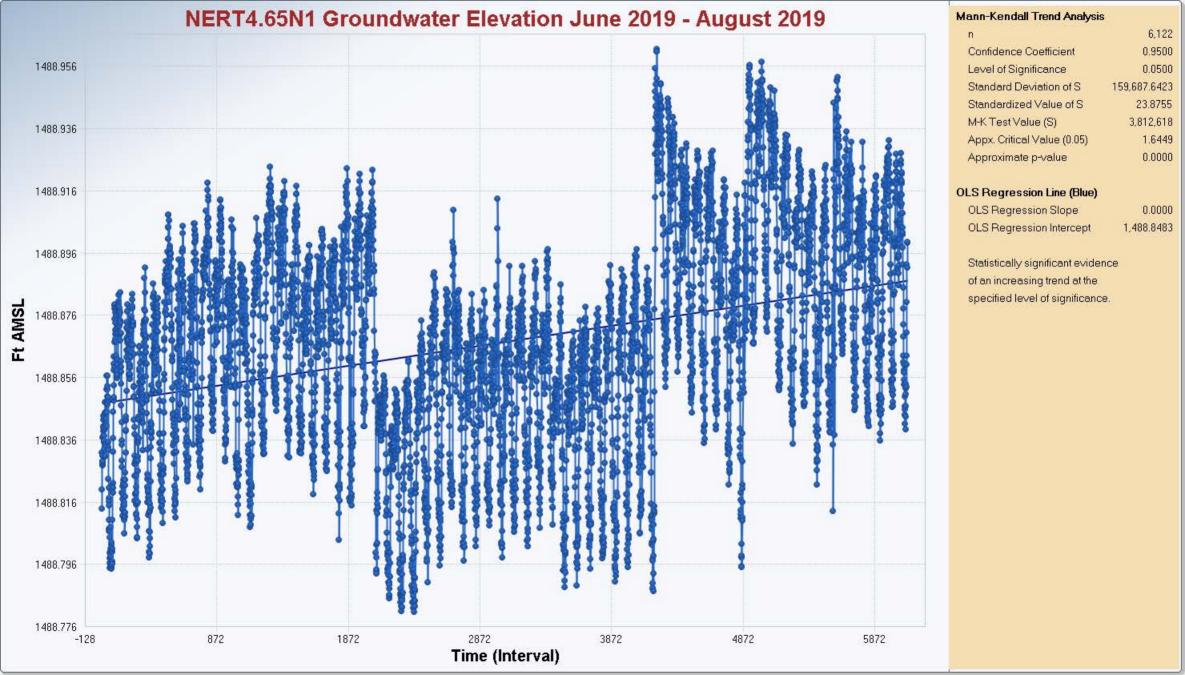


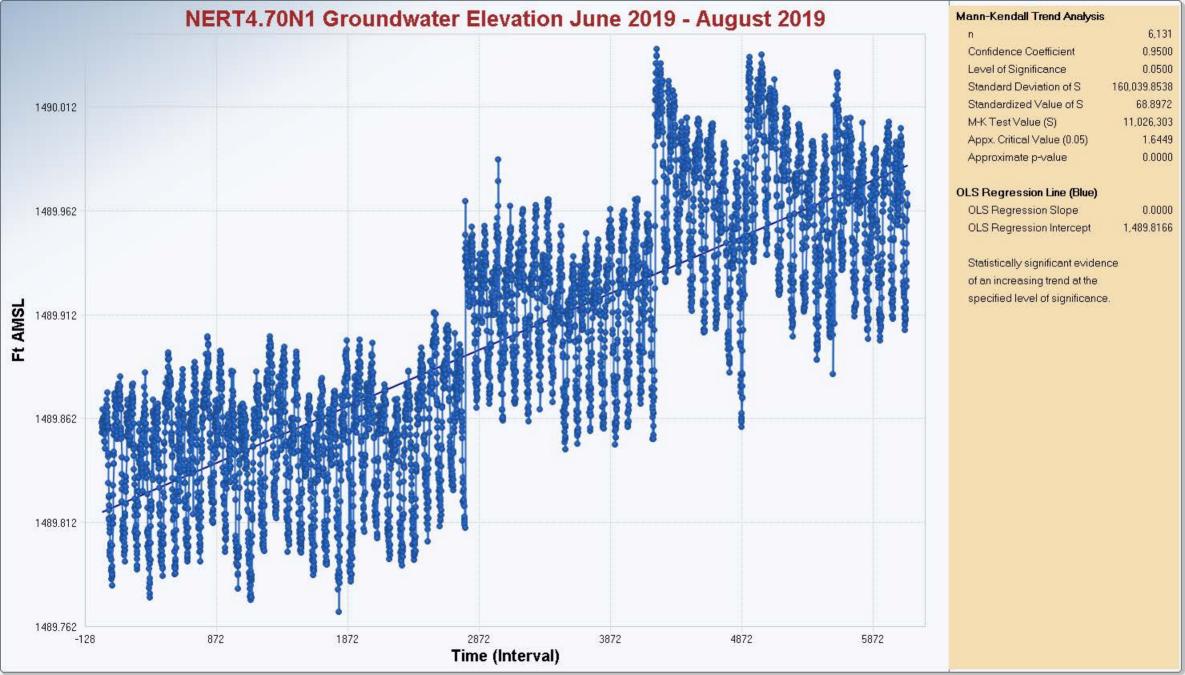


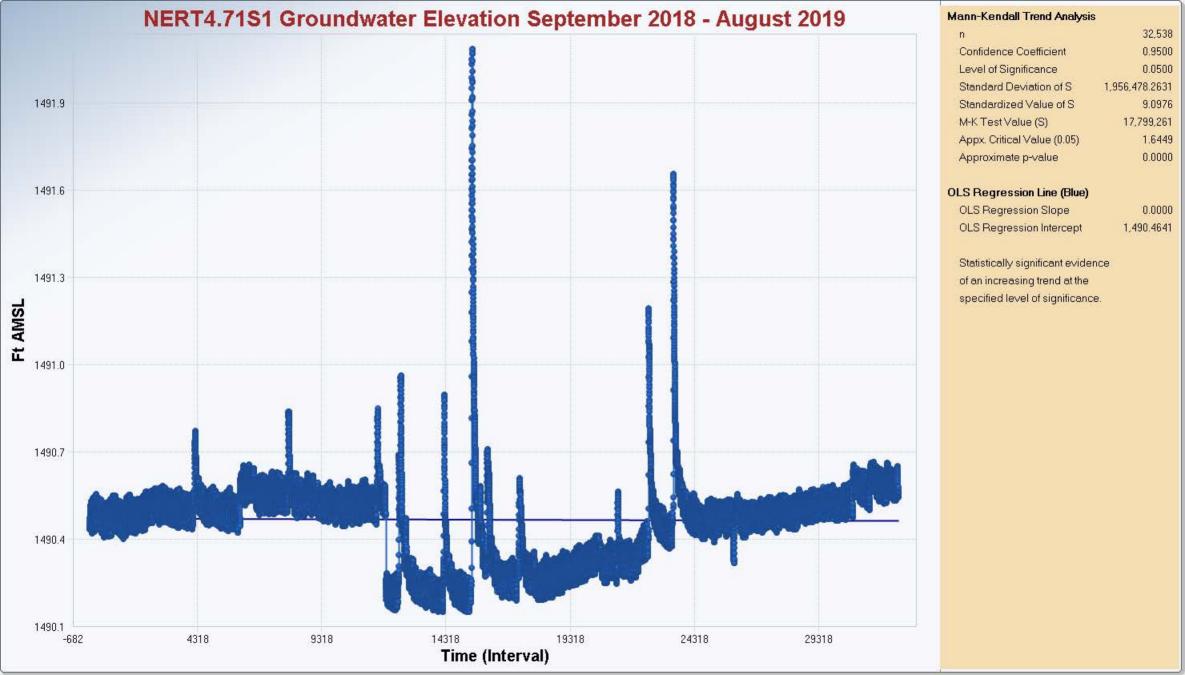


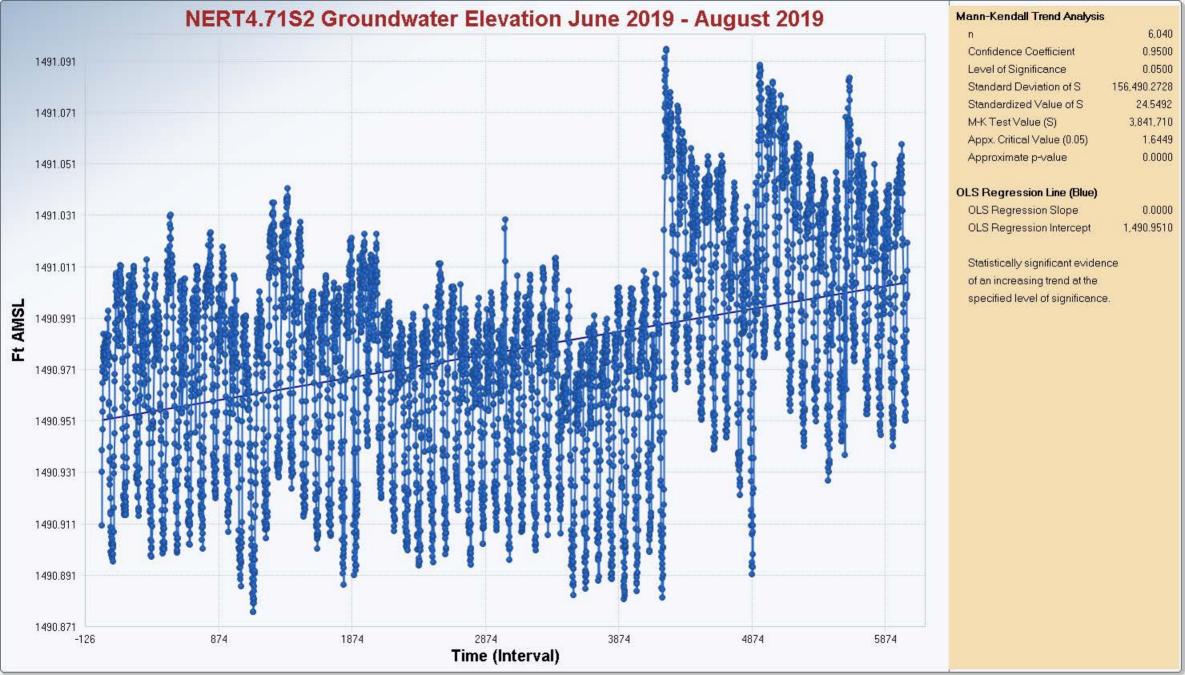


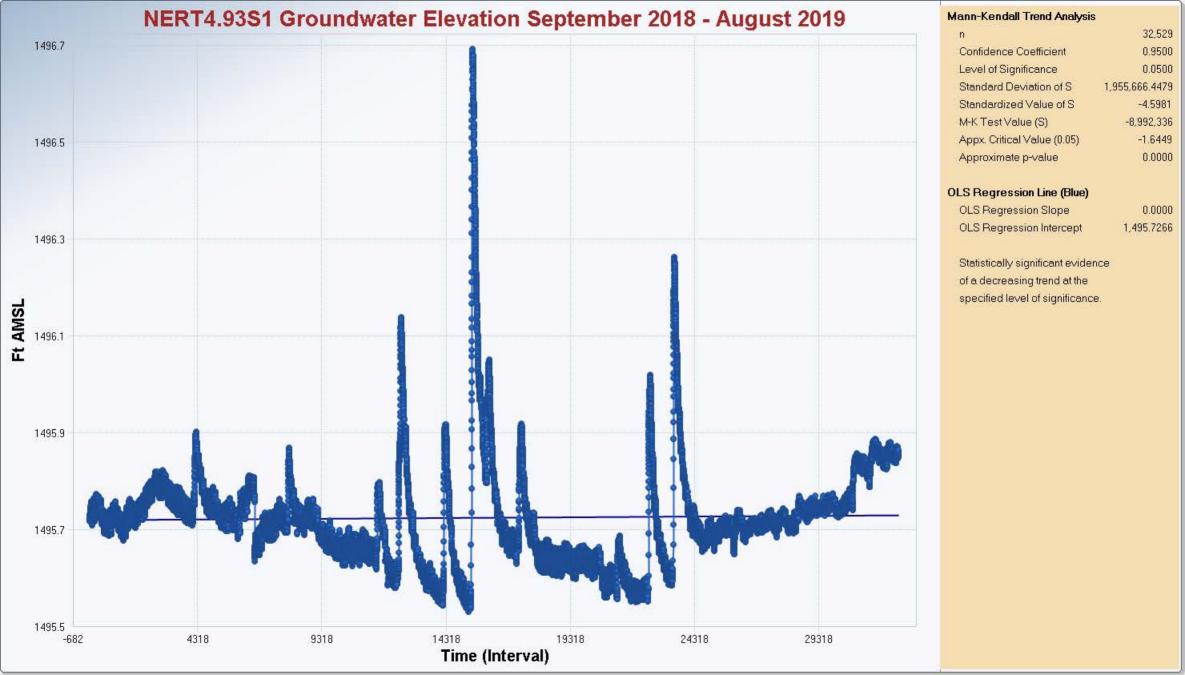


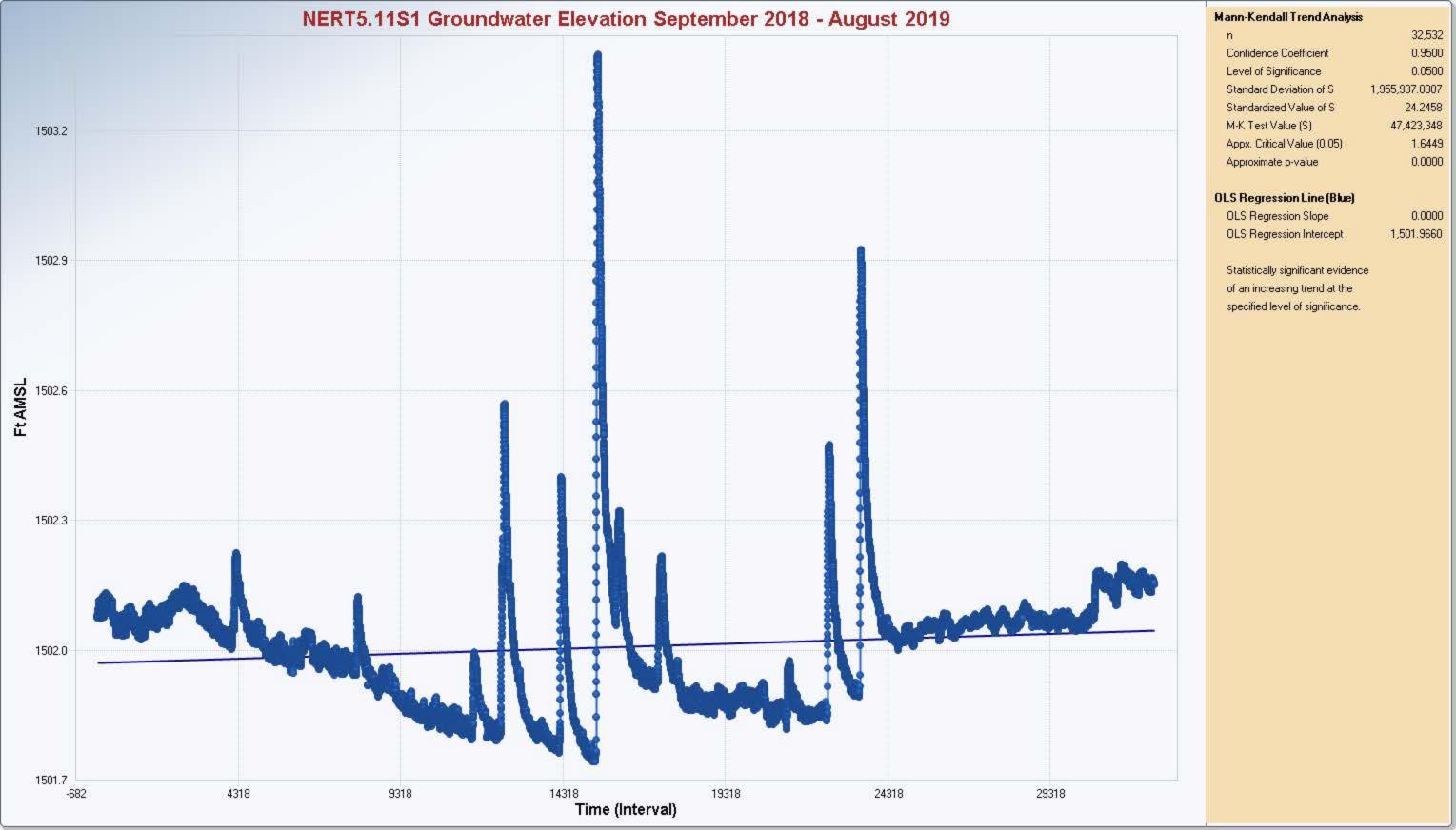


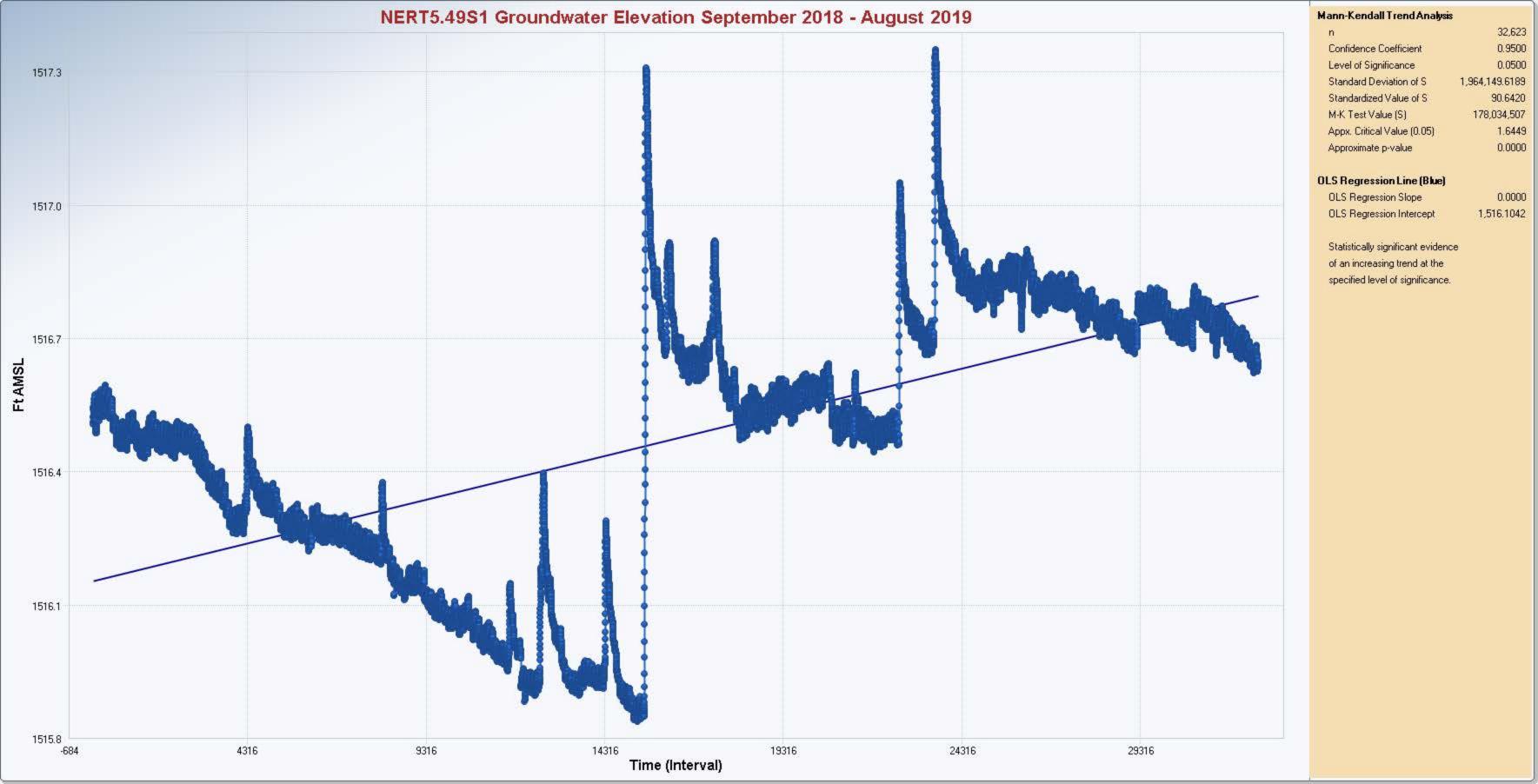


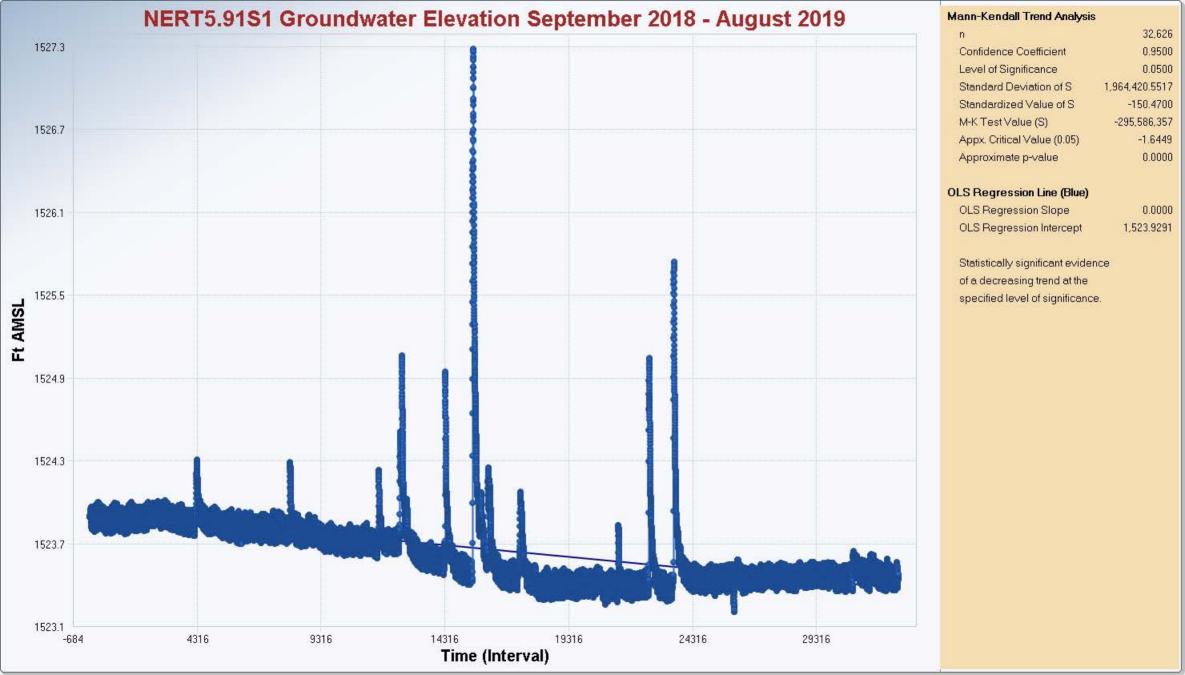


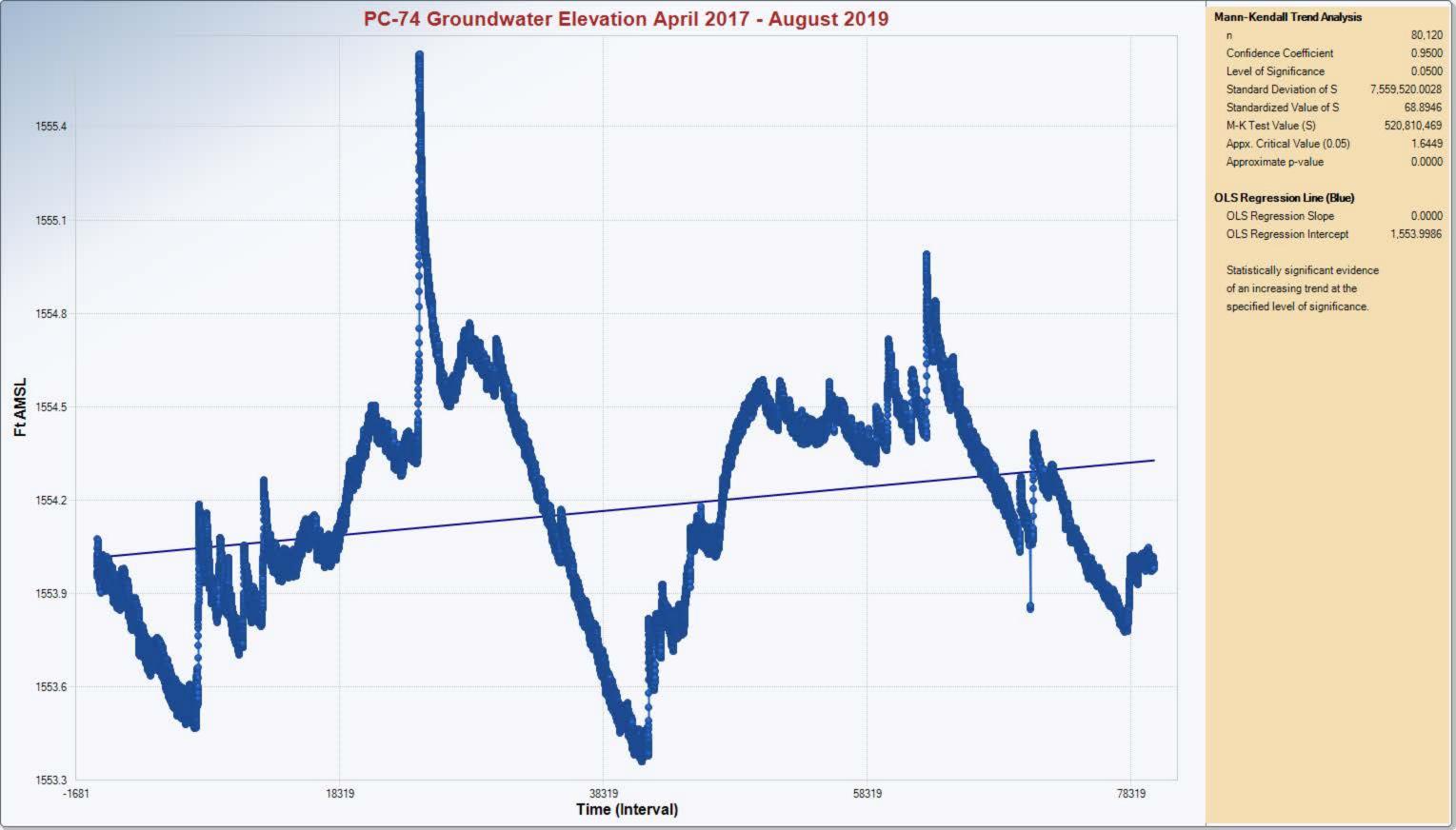


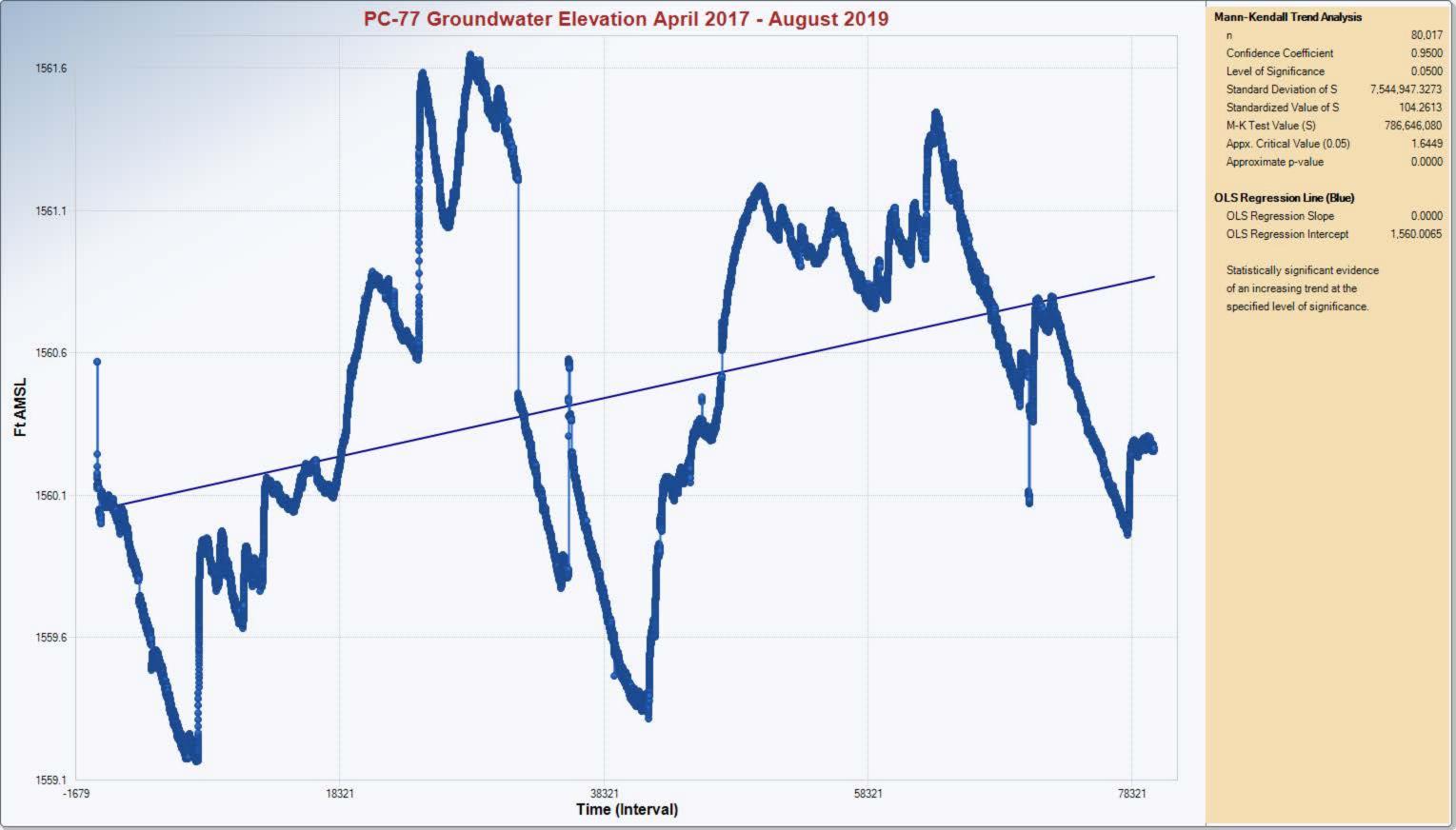




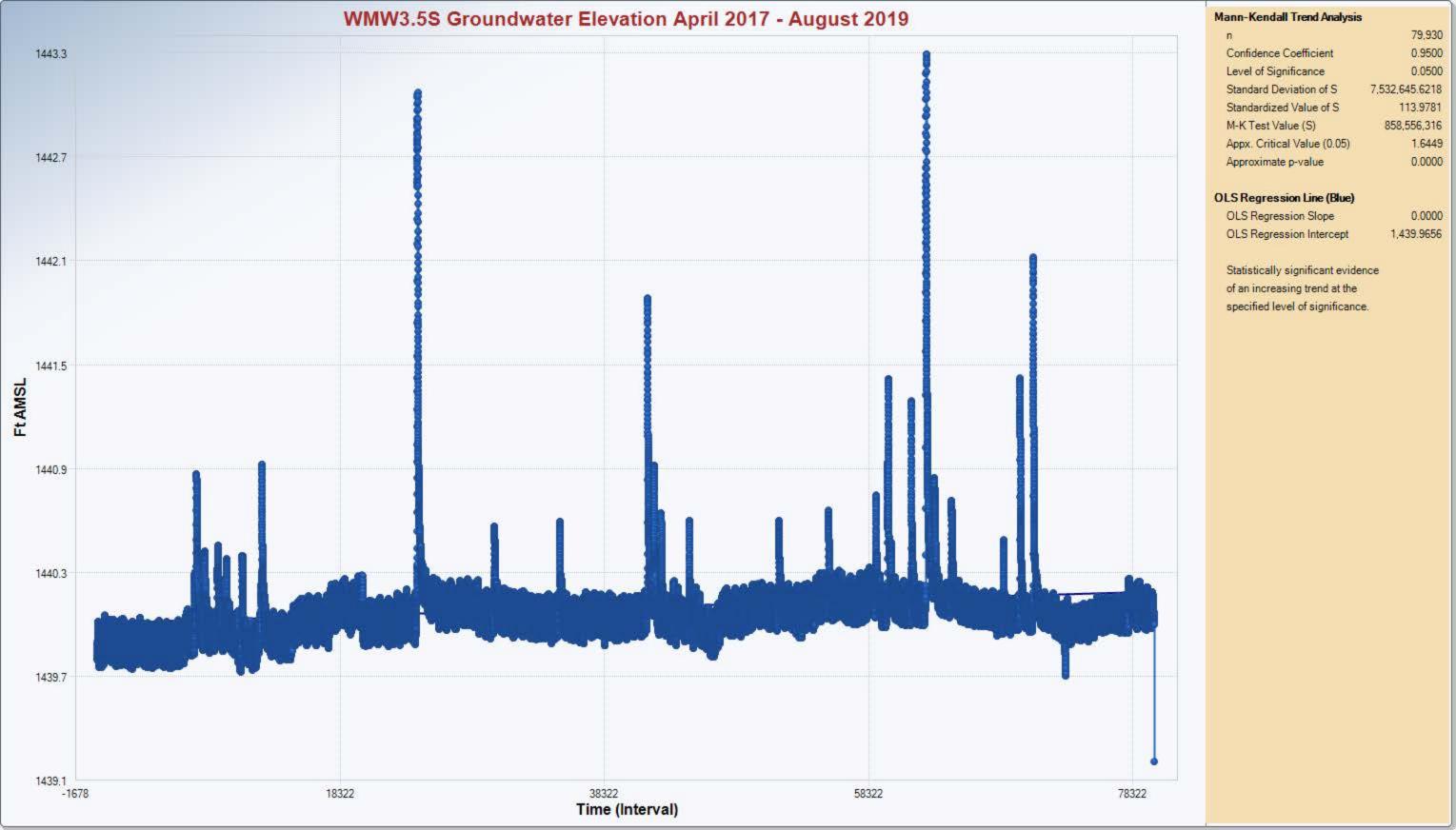


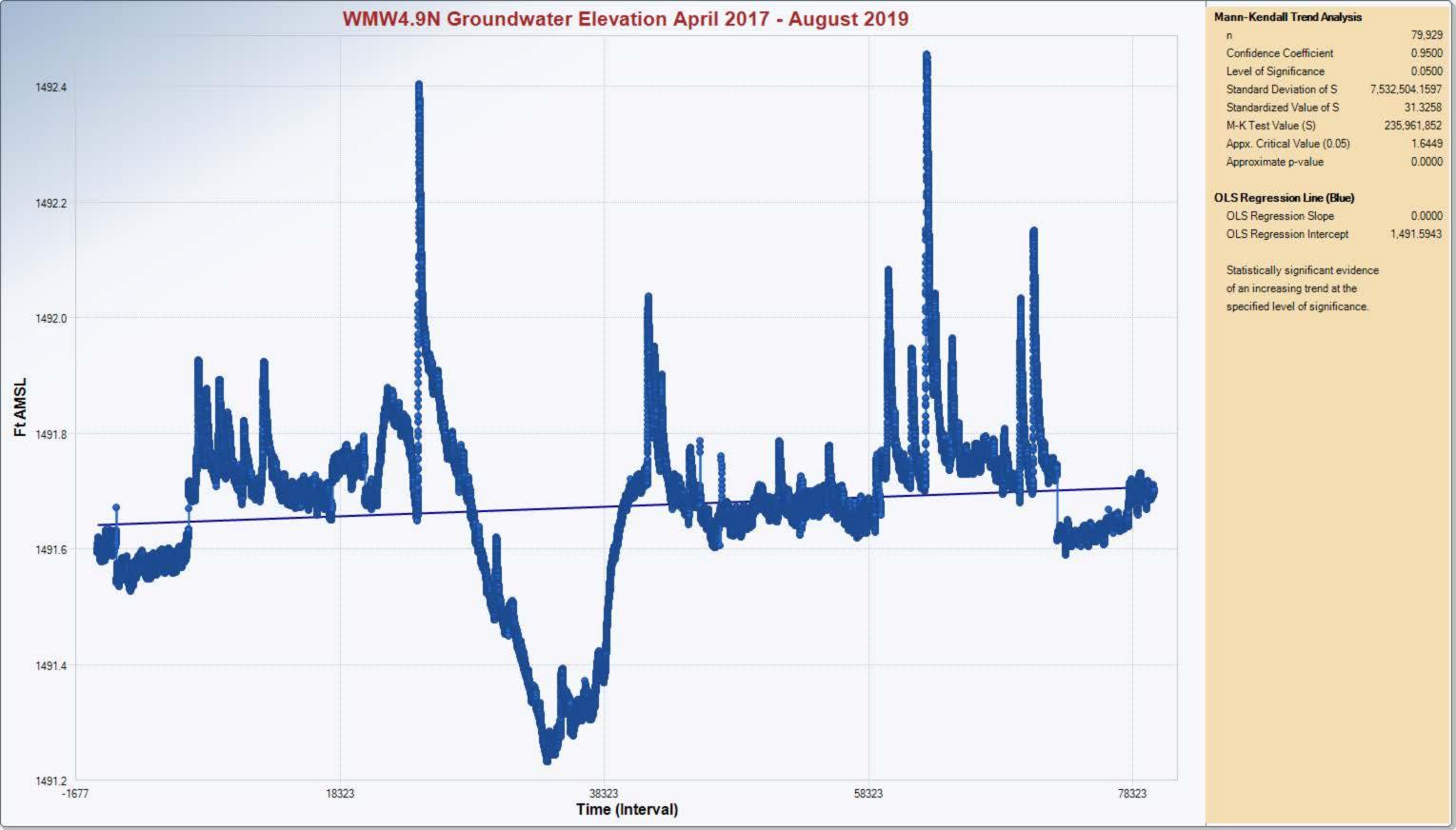


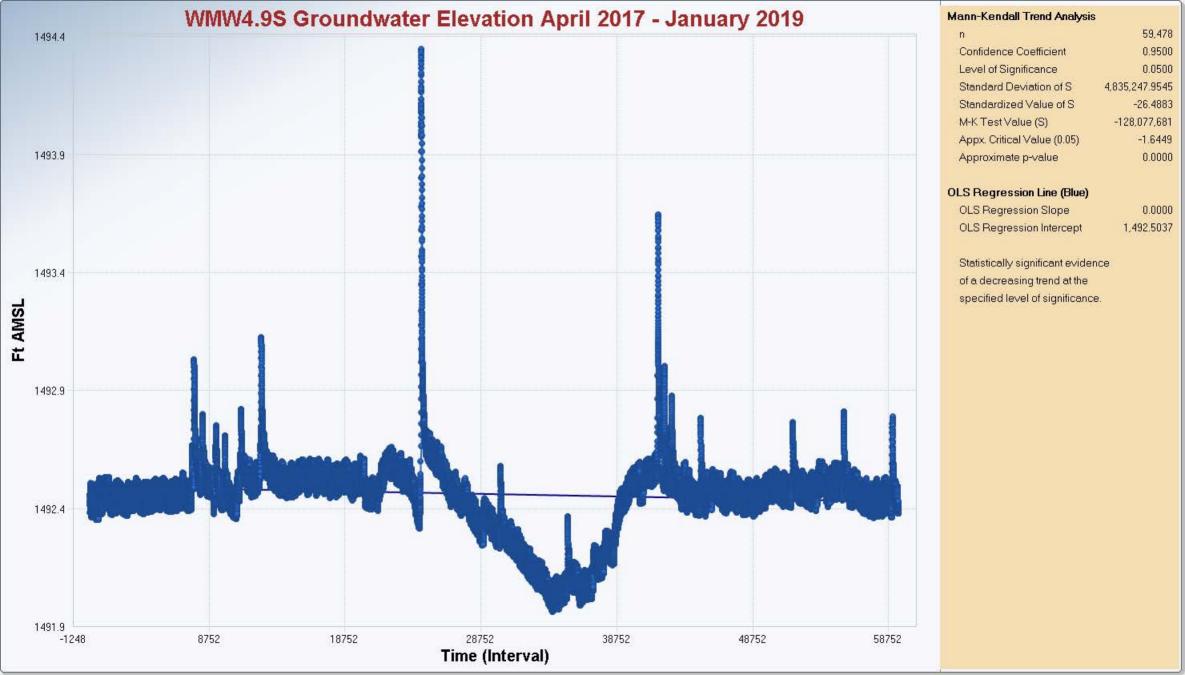


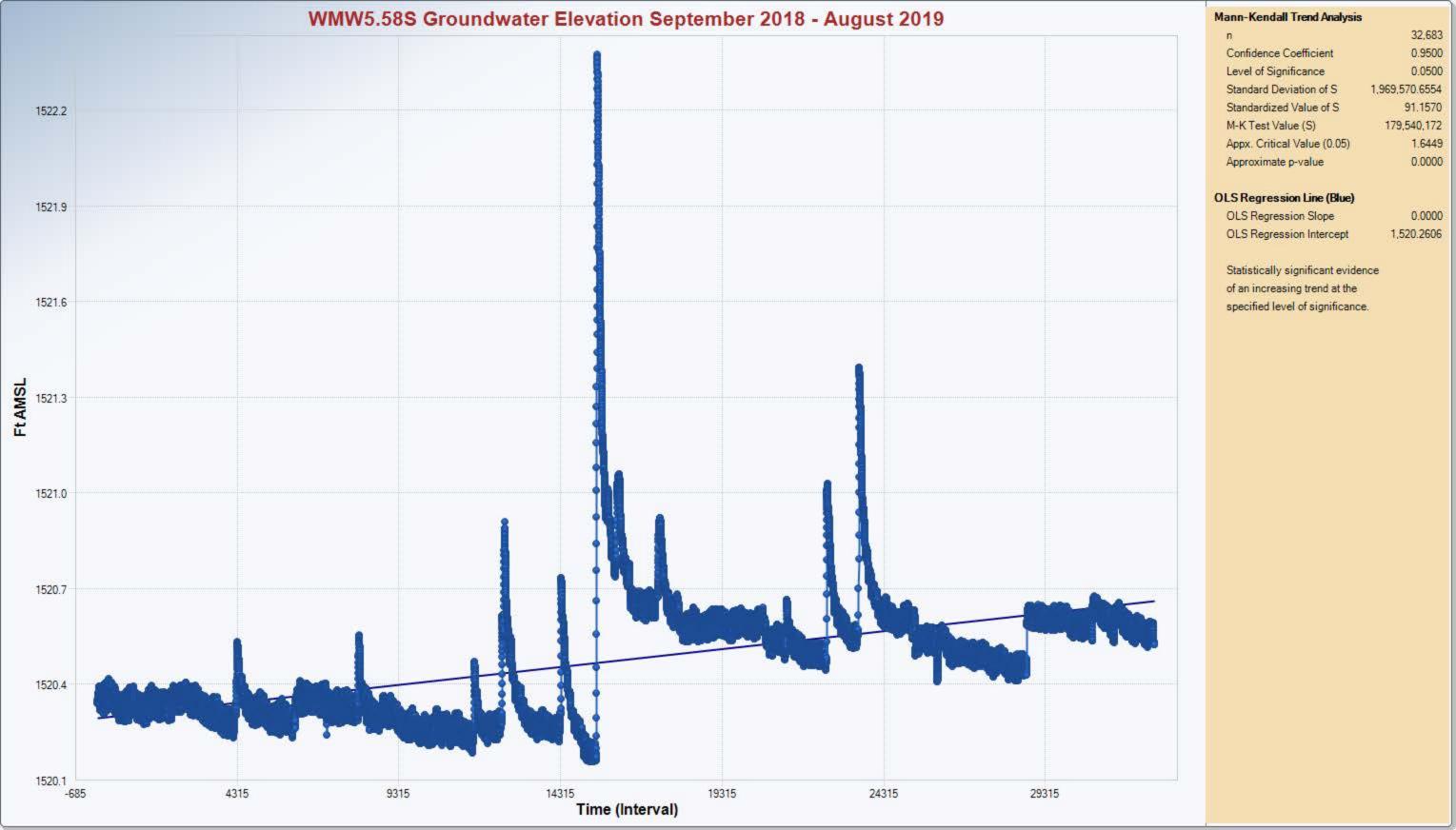


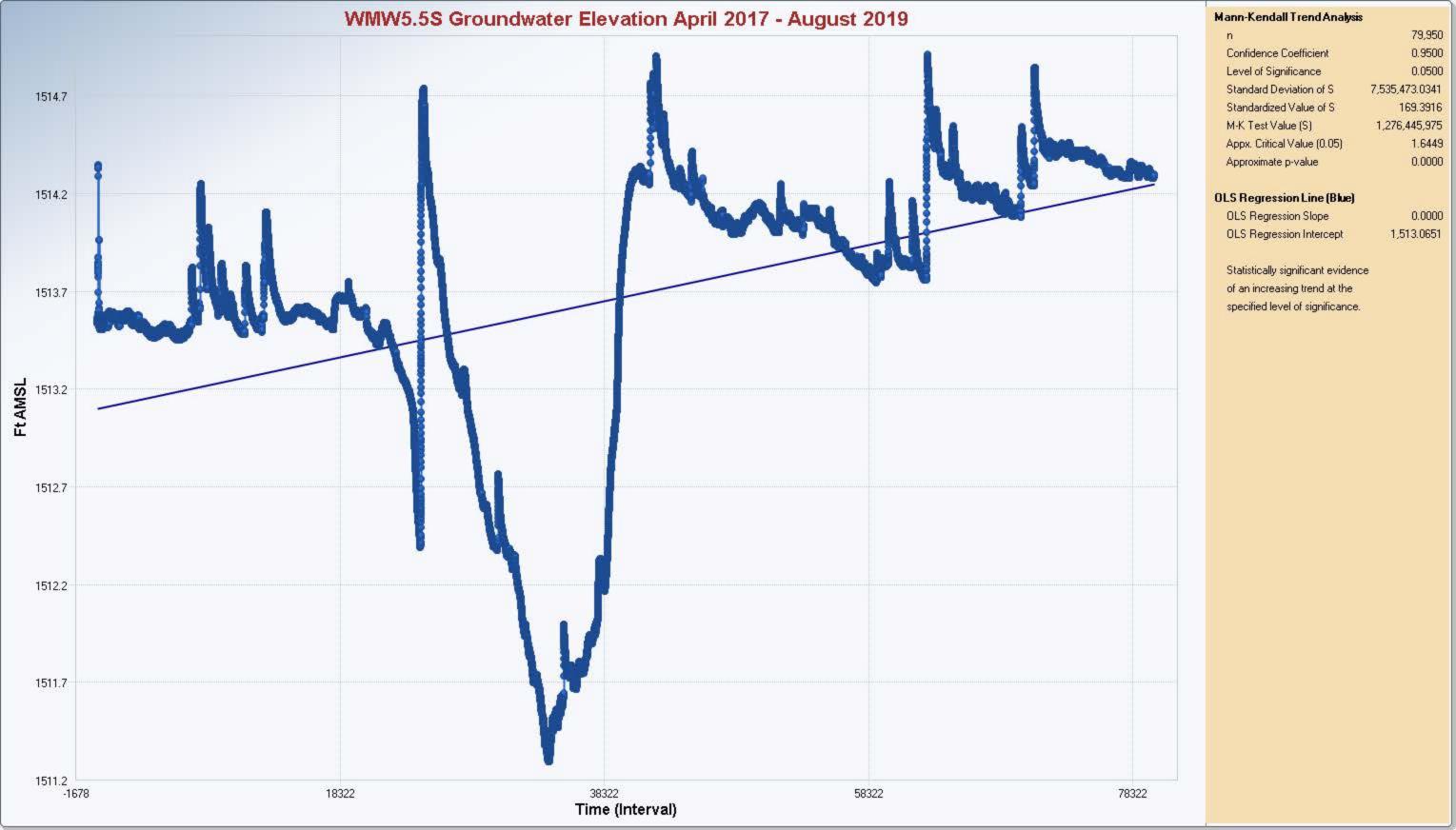


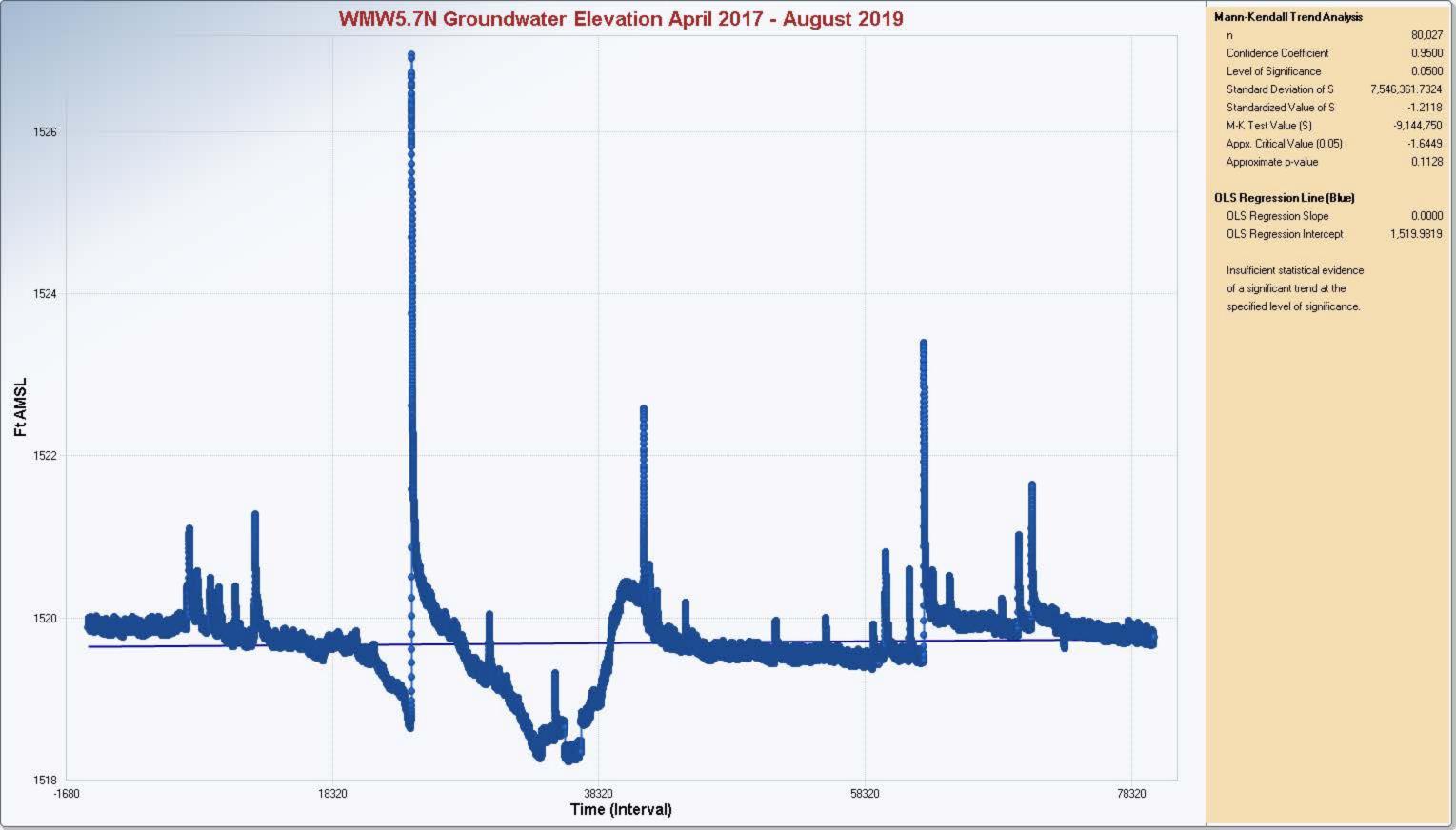


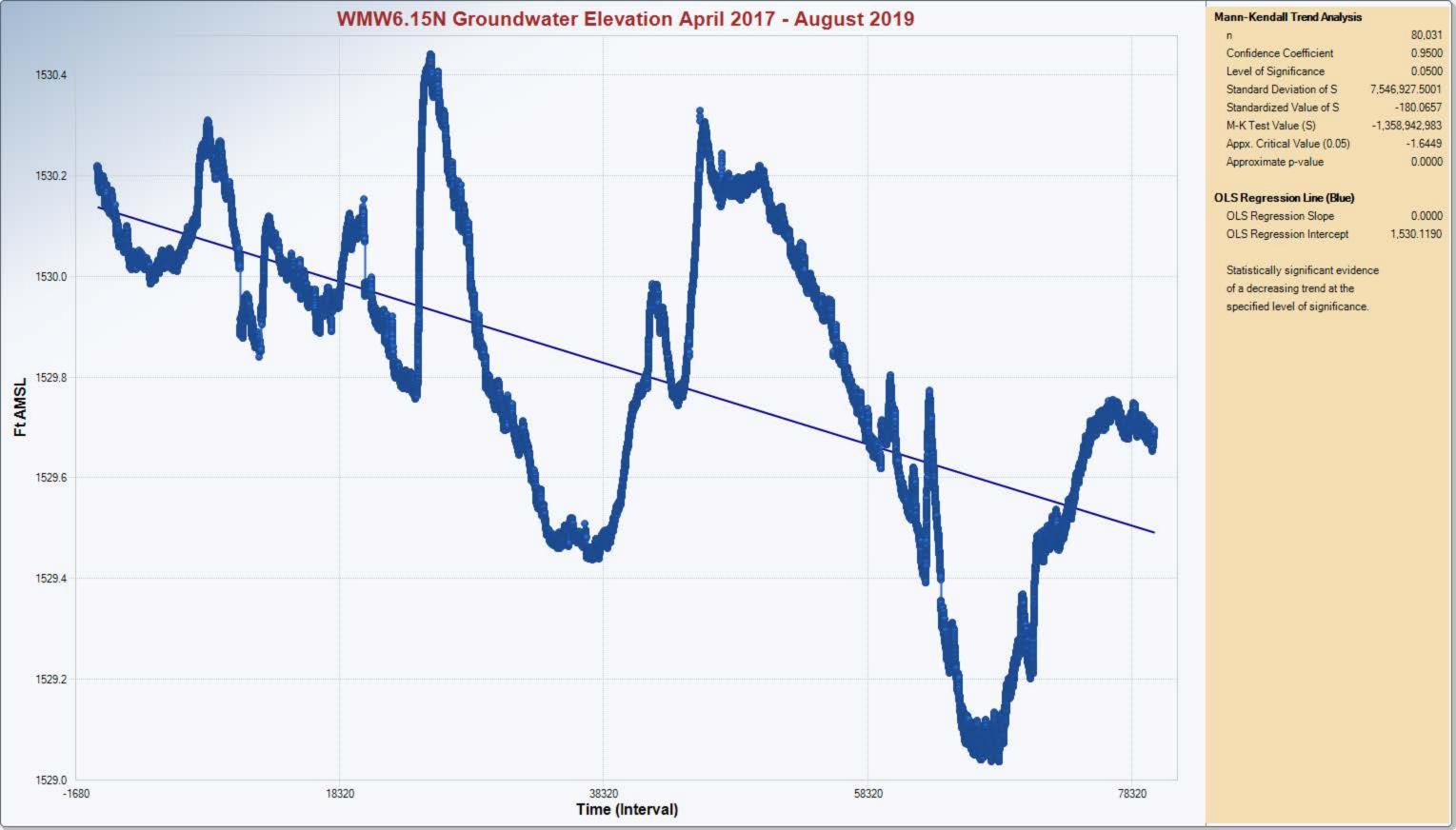


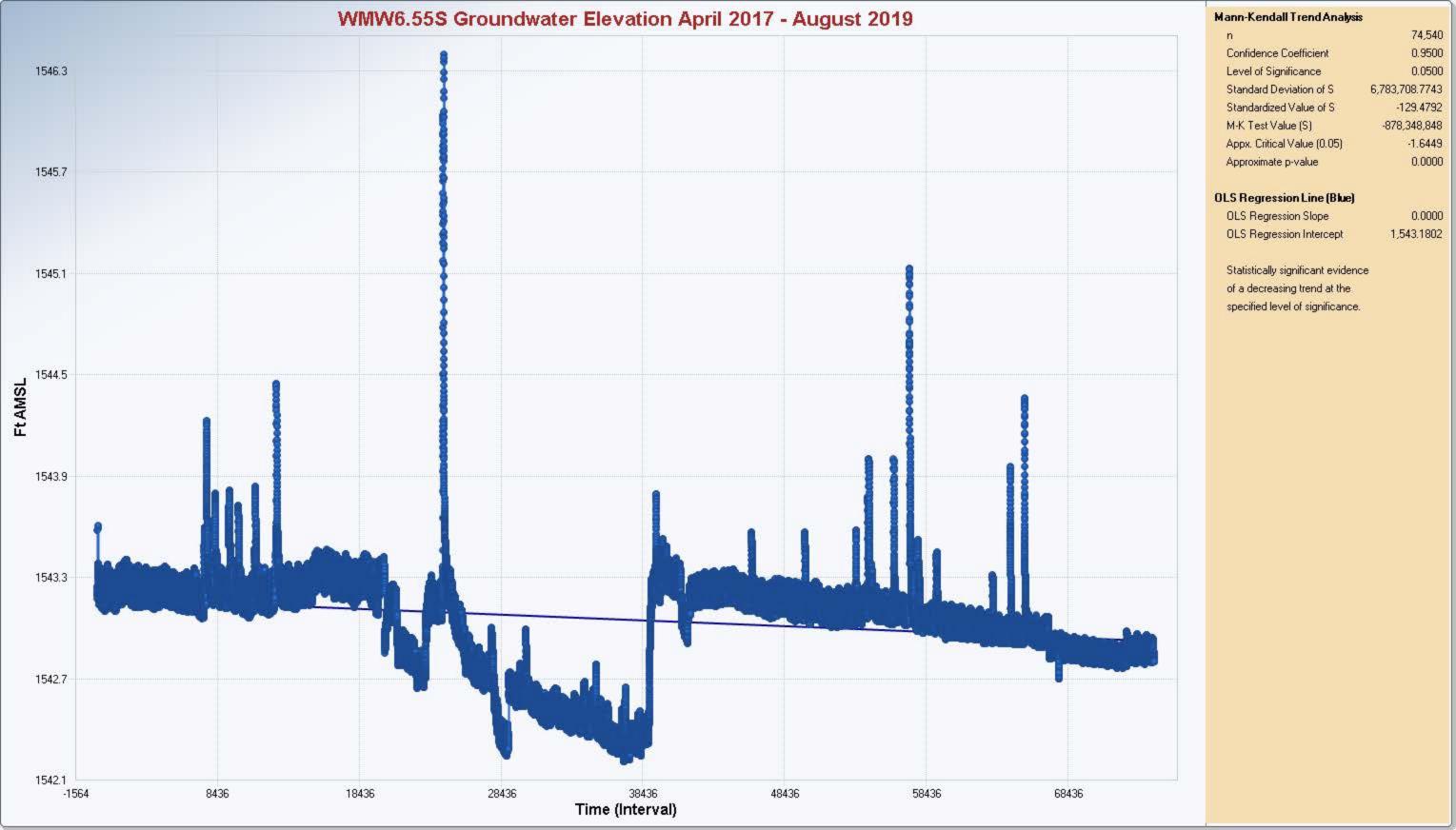


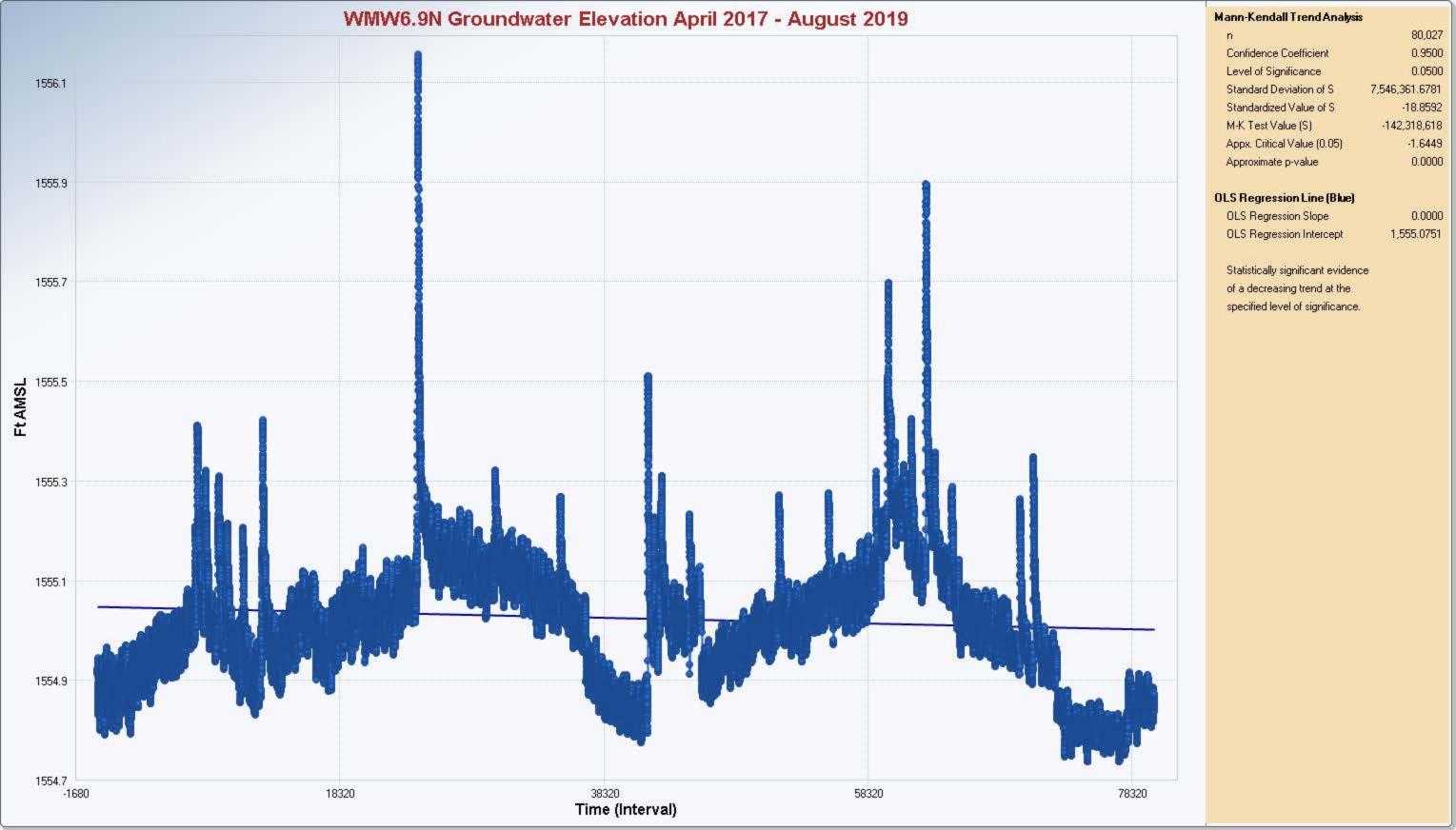


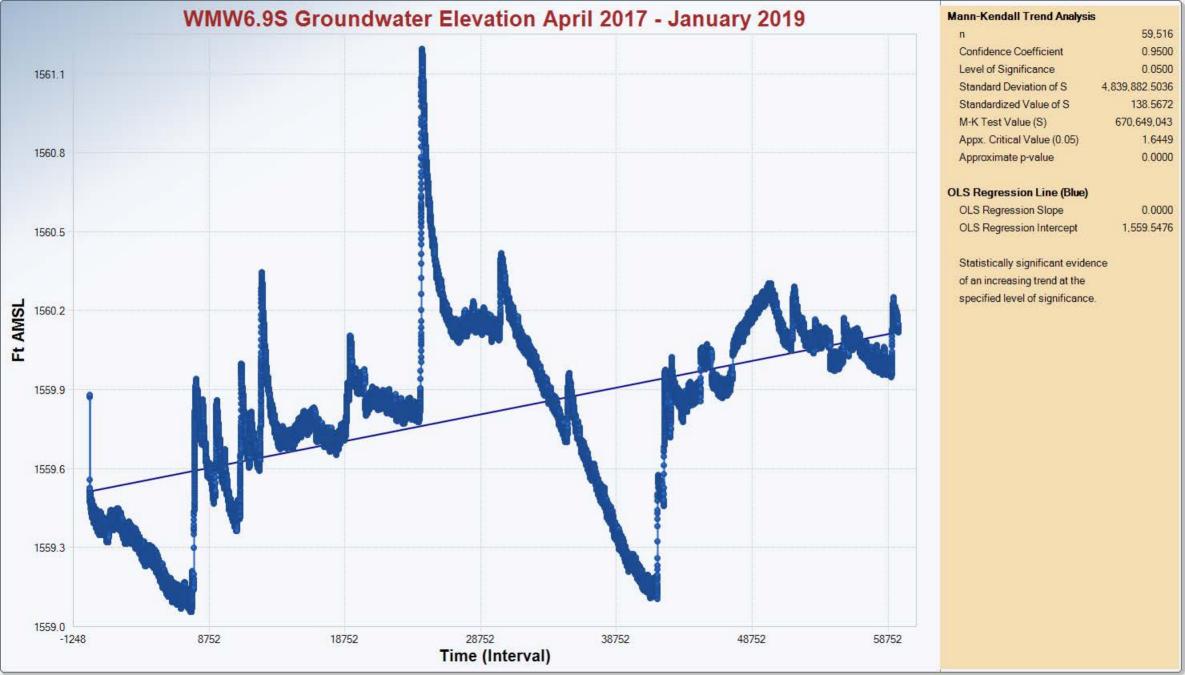












Appendix G

Surface Water Hydrographs and Temperature Graphs

