Technical Data Information Report

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8278.00	Klenke	Nye County	QARC	Nye County	MWL

Document Date	11/18/2023	General Document Type	QA Program Doc	Keyword 2	Private Wells
Entry Date	8/15/2024	Detail Document Type	Data	Keyword 3	NCWD

Document Title/Subject
Manual Water Level Measurements in Private Wells from January 1, 2018 through December 31, 2018.

Data Originator/Preparer
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Data Description
Manual Water Level Measurements in Private Wells from January 1, 2018 through December 31, 2018. Data package includes Nye County's Regional Groundwater Elevation Database (RGED V. 6.0_123118.accdb) containing manual water level measurements taken in Private Wells, from January 1, 2018, through December 31, 2018, field forms, hydrographs (available on request) and exported data from database. Data posted to the nyecountynv.gov and nyecountywaterdistrict.net websites as rid8278.zip.

Data Collection Method
Manual water level measurement data collected using standardized electric water level sounders in accordance with NCWD Work Plan-10 Rev. 0 (3/16/15), Groundwater Level Monitoring and Evaluation, and NCWD Technical Procedure 9.9 Rev. 0 (3/16/15), Measurement of Groundwater Levels Using Electric Well Sounders

Data Collection Location
Various locations in Pahrump Valley, Amargosa Desert, Chicago Valley, Stewart Valley, and surrounding areas. Specific locations for each well are included in RGED V.6.0 and in RID 8182.

Data Collection Period
1/1/18 – 12/31/18

Data Sources
1) NWRPO derived latitude and longitude for well location and elevation data for ground elevation; 2) Depth to groundwater measured with electric water level sounders as recorded on the NWRPO Water Level Measurement Field Form (Form TP-9.9 Rev 4, dated 8/6/09) or field scientific notebook (SNB); 3) Wellhead diagrams as established with engineers steel tape and recorded in scientific notebook showing casing type, diameter, and measuring point stickup above land surface.
Suppporting Data: NWRPO Water Level Measurement Field Forms (TP-9.9 Rev1-Rev3), field scientific notebooks, and RID 8182 containing updated GPS coordinates.

Data Censoring
No data were censored for the period of this submittal.

Data Processing
Routinely, data processing consists of calculations made in the Access database (RGED V6.0 accdb) and exports made from the database to MS Excel. Additionally, data are evaluated through the use of hydrographs to determine whether anomalous data exist. Anomalous data are investigated (through scientific notebooks, earthquake records, etc.) to determine the source of the anomaly. If the anomaly cannot be explained, the data are censored.

Data Limitations
AC-CS3 – Water level readings have not been taken since 9/25/12 because a transducer has been installed in the piezometer tube.
AC-CS4 – Water level readings have not been taken since 9/14/15 because a transducer has been installed in the piezometer tube.
AC-CS5 – Water level readings have not been taken since 9/25/12 because a transducer has been installed in the piezometer tube.
AD-9a – Well is situated just beyond the outer edge of an irrigation pivot which is probably influencing the water levels.
AW11 – The wellhead was cut down and a steel cap welded on some time before the 12/2/09 visit. The well was reactivated, and a sounding port installed on 7/31/13. The well was subsequently given the new name of “AW11 - post capping” to reflect the new stickup, since the RGED database does not allow for the

changing of the wellhead stickup for individual wells.
AW74 – This well (NDWR Log # 1933) is screened from 240 to 672 ft below ground surface and is believed to be tapping a deeper confined aquifer. This is evidenced by the water level in nearby well “Harrow Disk - post capping” located approximately 180 feet to the east, showing water levels of approximately 53 feet lower than that in well “AW74”.
Basin Station – Measurements of 101.60 ft on 9/18/18 at 14:47 hrs., is 20 feet lower than the hydrograph trend, and due to pumping as noted in the field comments.
Caas Well – Measurements of 72.20 ft on 6/18/18 at 8:08 hrs., is approximately 4 feet lower than lower than the hydrograph trend and is a result of pumping.
Chicago – Well was worked over and possibly deepened between 5/21/14 and 7/10/14 and appears to have established a new hydrograph trend with water levels approximately 4 feet lower than before the work was done.
Forum Group – Well appears to have caved at sometime in the past and has a total current depth at 80 ft B.G.L. The Well Drillers Report (Log No. 69514) indicates that this well was originally drilled to a depth of 1020 ft on 11/15/1997. Water level measurements were not obtainable in 2018.
Grafitti Well – Water level measurements were not obtainable in 2018.
Harrow Disk – The wellhead was cut down and a steel cap welded on some time before the 12/2/09 visit. The well was reactivated, and a sounding port installed on 7/31/13. The well was subsequently given the new name of “Harrow Disk - post capping” to reflect the new stickup, since the RGED database does not allow for the changing of the wellhead stickup for individual wells.
Irene Fan – The wellhead was cut down and a steel cap welded on some time before the 12/2/09 visit. The well was reactivated, and a sounding port installed on 7/31/13. The well was subsequently given the new name of “Irene Fan - post capping” to reflect the new stickup, since the RGED database does not allow for the changing of the wellhead stickup for individual wells.
Jeep Trail Well – Water level measurements for this well may contain slight errors since this well is uncased, and therefore the measurement point is difficult to locate with a high degree of accuracy.
Longstreet 2 – Measurements of 85.94 ft on 6/13/18 at 14:51 hrs., and 86.20 ft on 9/11/18 at 14:37 hrs. are both 11feet lower than the hydrograph trend and are due to pumping as noted in the field comments.
Mound Spring (well) – This well is noted as being a flowing artesian well since first being measured by the NWRPO Office on 2/27/04. Water table elevations are reported as equal to elevation of the outflow (0.33 ft below the measurement point elevation) and therefore underestimate the true water table elevation (pressure head). Note: This well is not the same as the Mound Springs located on USGS Topographic Maps located 0.71 miles to the SE (154°).
MT. Falls Well #1 – Measurements of 35.91 ft on 12/10/18 at 10:07 hrs. is 16.2 feet lower than the hydrograph trend and is due to pumping as noted in the field comments.
NDOT South – Water levels have been steadily declining since the 12/20/17 peak reading of 3936.31 feet to the 6/18/18 reading of 3925.52 feet (-10.79 ft), but no further readings were available after this when the well was put into service by NDOT.
Rubys Store Well – Measurements of 100.19 ft on 6/14/18 at 11:46 hrs. is 1.4 feet lower than the hydrograph trend and is due to pumping as noted in the field comments.
Trout Canyon – Well is completed in a carbonate rock aquifer and water levels are not representative of alluvial aquifer heads.
Utilities 9 R2014 – Measurements of 82.65 ft on 12/11/18 at 15:33 hrs. is 44.0 feet lower than the hydrograph trend and is due to pumping as noted in the field comments.
Pit Wall (USGS GA-08F) – The name of well Pit Wall (USGS GA-08E) was changed to Pit Wall (USGS GA-08F) to match the well with the correct USGS well GA-08F (NWIS#361840116184006)

The following wells have been identified with the “P” qualifier to indicate a preliminary well location and elevation, which still needs to be more precisely located using a resource grade GPS unit – GBWC12, Manse Road, MT. Falls Well #1, MT. Falls Well #2, and NCSD Transportation . The following wells have been identified with the “PR “ qualifier indicates a problem with the quality of the original GPS rover file identified during post processing which may have resulted in lower-than-expected location and elevation accuracies – Franklin Dry and Franklin PVC Well.

Wells added to the program:
GBWC12 – Well was drilled (completed to a depth of 990 ft on 12/15/16 - Log No.128074) to replace the Utilities 8 well. Location supplied (36.175005, -115942124 – NAD83), M.P. elevation 2725 ft, and ground elevation 2725 ft, is approximate and will be updated with a high accuracy resource grade GPS location at some point in the future.
Manse Road – Well was added to the WLMP program on 7/3/18. The current location of (36.145919, -115.996181), M.P. elevation 2612.74 ft, and ground elevation 2612.00 ft, is approximate and will be updated with a high accuracy resource grade GPS location at some point in the future. This preliminary location is indicated by the “P” qualifier on the Pahrump Spreadsheet.
MT. Falls Well #1 – Well was added to the WLMP program on 7/18/18.The current location of (36.155063, -115.895896), M.P. elevation 2845.00 ft, and ground elevation 2485.00 ft, is approximate and will be updated with a high accuracy resource grade GPS location at some point in the future. This preliminary location is indicated by the “P” qualifier on the Pahrump Spreadsheet
MT. Falls Well #2 – Well was added to the WLMP program on 7/19/18. The current location of (36.151707, -115.896201), M.P. elevation 2838.00 ft, and

ground elevation 2838.00 ft, is approximate and will be updated with a high accuracy resource grade GPS location at some point in the future. This preliminary location is indicated by the “P” qualifier on the Pahrump Spreadsheet
NCSD Transportation2 – This well was added to the WLMP program on 9/19/18 to replace the Forum Group well. The current location of (36.192042, -116.060231), M.P. elevation 2550.44 ft, and ground elevation 2549.78 ft, is approximate and will be updated with a high accuracy resource grade GPS location at some point in the future. This preliminary location is indicated by the “P” qualifier on the Pahrump Spreadsheet

Reactivated wells:
No wells were reactivated during the period of this submittal.

Wells removed from the program:
No wells were removed during the period of this submittal.

Governing QA Docs:	NCWD WP-10 Rev. 0, NCWD TP-9.9 Rev. 4
Frequency of Transmittal	Biannually or as required by PI
Direct Questions About Data To:	QA Records Center