



Annual Report

For

Fiscal Year 2024

Compiled by

Lynn Smith, General Manager

Report on District Activities for the Fiscal Year Ending September 30, 2024

Objective 1.1a On four or more occasions, the District disseminated educational information relating to conservation practices for the efficient use of water resources.

See attached Meeting and Activity list. This performance standard was met.

Objective 2.1a On four or more occasions, the District disseminated educational or informational materials directed toward preventing waste of water each year.

See attached Meeting and Activity list. This performance standard was met.

Objective 3.1a On three or more occasions, the District Manager attends RWPG meetings.

See attached Meeting and Activity list. Twelve RWPG meetings were attended. This performance standard was met.

Objective 4.1 Each year, the District will monitor five or more selected wells within the District for possible contamination problems which would jeopardize the integrity of the groundwater, by collecting samples for analysis.

Performed weekly monitoring of former stabilization pond being considered for public recreation in cooperation with City of Seymour and Texas parks and Wildlife. No contamination was found and water was deemed likely adequate to support fish stocking activities. TPWD stocked fish with no mortality reported and a fishing event was held on June 29, 2024. Collected an additional Eighteen samples from wells throughout the District which were tested. Nitrate and chloride levels continue to be elevated across much of the District. This performance standard was met.

Objective 5.1a Provide for one or more weather stations that the District maintains to provide data collection to these cooperating agencies.

Worked with the West Texas Mesonet to provide five stations (Haskell, Seymour, Knox City, Truscott and Hefner). This performance standard was met.

Objective 5.2a Provide for one or more on-line wells the District assists in the collection and dissemination of well levels.

Worked with the Texas Water Development Board to provide three online recorder wells that send water level data to the Water Data for Texas program website. This performance standard was met.

Objective 5.2b

Prepare a report reflecting the results of the water level monitor to the Board at the first quarterly meeting each fiscal year for a yearly comparison.

A report of water levels within the District was provided to the Board at their December 2023 meeting while that work was ongoing for the next year. A second report was provided to the Board at their September 2024 regular meeting. This change will be reflected in coming years to get this actionable data in front of the District's Board in a more timely manner rather than waiting until the December meeting as stated in the District's Management Plan. It is the opinion of the District's General Manager that the Management Plan does not preclude providing the water level data at the earlier date if it is reasonably available. Therefore, in the opinion of the District's General Manager, this performance standard was met.

Objective 6.1a

On four or more occasions, the District disseminated educational information relating to conservation of water resources.

See attached Meeting and Activity list. This performance standard was met.

Objective 6.2a

Monitor water levels in five or more selected wells.

Measured water levels in forty-seven wells in monitoring survey. This represents an 88% increase in the number of wells being monitored annually. This performance standard was met.

Objective 6.2b

Prepare a report reflecting the results of the annual water level program to the Board at the first quarterly meeting each fiscal year for a yearly comparison of water level averages.

A report of the water level program was provided to the Board at their December 2023 regular meeting while that work was ongoing for the next year. A second report was provided to the Board at their September 2024 regular meeting. This change will be reflected in coming years to get this actionable data in front of the District's Board in a more timely manner rather than waiting until the December meeting as stated in the District's Management Plan. It is the opinion of the District's General Manager that the Management Plan does not preclude providing the water level data at the earlier date if it is reasonably available. Therefore, in the opinion of the District's General Manager, this performance standard was met.

Objective 7.1a

The District's Annual Report will include a discussion of the District's permit and well registration and will evaluate the District's progress in achieving the Desired Future Conditions of the groundwater resources within the boundaries of the District and whether the District is on track to maintain the Desired Future Conditions estimates over the 50-year planning period.

The District's Board determined that an update to the District's Rules was needed to address changes in well density across the District and to address certain legislative directives. That update

included an in-depth analysis of permit and well registrations, an evaluation of the District's progress in achieving the Desired Future Conditions of the groundwater resources within the boundaries of the District, and whether the District is on track to maintain the Desired Future Conditions estimates over the 50-year planning period. This performance standard was met.

Objective 7.2a

The District will annually measure the water levels in at least five monitoring wells within the District and will determine the five-year water level averages based on the measurements taken. The District will compare the five-year water level averages to the corresponding five-year increment of its Desired Future Conditions in order to track its progress in achieving the Desired Future Conditions.

A report of the water level program was provided to the Board at their December 2023 regular meeting while that work was ongoing for the next year. A second report including and analysis of five year trends and averages was provided to the Board at their September 2024 regular meeting. This change will be reflected in coming years to get this actionable data in front of the District's Board in a more timely manner rather than waiting until the December meeting as stated in the District's Management Plan. It is the opinion of the District's General Manager that the Management Plan does not preclude providing the water level data at the earlier date if it is reasonably available. Therefore, in the opinion of the District's General Manager, this performance standard was met.

Objective 7.2b

The District's Annual Report will include the water level measurements taken each year to assess the District's progress towards achieving its Desired Future Conditions. Once the District has obtained water level measurements for five consecutive years and is able to calculate water level averages over five-year periods thereafter, the District will include a discussion of its comparison of water level averages to the corresponding five-year increment of its Desired Future Conditions in order to track its progress in achieving its Desired Future Conditions.

Water levels were measured in forty-seven wells and an analysis of the water level trends versus Desired Future Conditions was attempted and in most cases, was successful. Difficulties were encountered with obtaining wells with five complete years of consecutive measurements that were geographically diverse enough to be statistically relevant. The District has expanded its water level program and hired additional staff to assist with it. We believe this will provide better data in the future. As such, the District took actions which led to this performance standard being met. The current analysis, as performed by RMBJGeo and presented to the District's Board is attached to this report.

Date	Activity	Attendance (Min)
10/2/2023	BEG Virtual Meeting	3
10/13/2024	BEG Virtual Meeting	3
10/19/2023	NGWA MAR Workgroup	15
10/20/2023	Region G Meeting	50
10/25/2023	BEG Meeting	25
10/26/2023	TCEQ MAR Meeting	15
11/14/2023	TWCA Workgroup	20
11/15/2023	Region B Meeting	30
11/29/2023	TAGD IE	11
12/5/2023	RPGCD Directors Meeting	10
12/19/2023	AgriLife CEA Training - Knox City	25
12/28/2023	TAGD Checklist	10
1/16/2024	RPGCD Directors Work Session	9
1/16/2024	RPGCD Directors Meeting	8
1/17/2024	Knox Leadership Advisory Board	18
1/17/2024	TAGD IE	17
1/18/2024	NGWA MAR Workgroup	30
1/23/2024	TGWA Annual Convention	300
1/24/2024	TGWA Annual Convention	300
1/25/2024	TGWA Annual Convention	300
1/30/2024	TAGD Business Meeting	125
1/31/2024	TAGD Business Meeting	125
2/7/2024	Region B Meeting	30
2/8/2024	NGWA MAR Workgroup	15
2/8/2024	RPGCD Directors Meeting	9
2/13/2024	Region G Meeting	50
2/14/2024	AgriLife Ladies Group - Seymour	12
2/20/2024	TAGD IE	17
2/21/2024	TAGD IE	15
2/23/2024	ESRI GW Database Virtual Mtg	3
2/27/2024	EDF Virtual Mtg	5
2/28/2024	TWCA Virtual Mtg	35
2/28/2024	Region B Technical Advisory Committee	12
2/29/2024	TAGD Summit Committee	12
3/4/2024	TWDB GW Science Needs Mtg	15
3/14/2024	TAGD Summit Committee	14
3/19/2024	Baylor County Leadership Advisory Board	16
3/21/2024	RPGCD Directors Meeting	9
3/27/2024	Region G Meeting	50
3/28/2024	TAGD Summit Committee	8
3/28/2024	MAR Planning Meeting	5
4/2/2024	MAR Planning Meeting	5
4/2/2024	TAGD IE	11
4/4/2024	Weather Modification Meeting	31
4/11/2024	TAGD Summit Committee	13
4/12/2024	TGWA Geoscience Seminar	65

Date	Activity	Attendance (Min)
4/23/2024	RPGCD Directors Meeting	6
4/25/2024	TAGD Summit Committee	10
5/1/2024	TAGD IE	13
5/3/2024	AgriLife Baylor Crop Tour	35
5/7/2024	Water Day - Seymour	130
5/9/2024	TAGD Summit Committee	10
5/10/2024	TAGD IE	14
5/13/2024	Baylor Commissioner's Meeting	10
5/15/2024	Region B Meeting	30
5/15/2024	Region G Meeting	50
5/20/2024	Baylor SUD Meeting	8
5/23/2024	TAGD Summit Committee	8
5/23/2024	MAR Planning Meeting	4
5/28/2024	Haskell Commissioner's Meeting	9
5/30/2024	TAGD Legislative Meeting	35
6/6/2024	TAGD Business Meeting	100
6/6/2024	TAGD Summit Committee	25
6/7/2024	TAGD Business Meeting	100
6/19/2024	Region G Meeting	50
6/25/2024	RPGCD Directors Meeting	9
6/29/2024	Saltfor Recreational Complex Fishing	65
7/11/2024	TAGD Summit Committee	10
7/18/2024	TAGD Summit Committee	10
7/19/2024	TGWA Business Meeting	125
7/20/2024	TGWA Business Meeting	125
7/30/2024	RPGCD Directors Meeting	7
7/31/2024	AGI Training Day	4
8/1/2024	Region G Meeting	50
8/15/2024	TAGD Summit Committee	9
8/15/2024	RPGCD Directors Meeting	8
8/18/2024	GW Summit	10
8/19/2024	GW Summit	25
8/20/2024	GW Summit	450
8/21/2024	GW Summit	450
8/22/2024	GW Summit	450
8/29/2024	TAGD Legislative Meeting	30
9/3/2024	EDF Perry Meeting	2
9/4/2024	EDF Perry Meeting	6
9/5/2024	TWDB MAR Virtual Mtg	5
9/9/2024	Baylor County 4H Mtg	25
9/10/2024	Host GMA 6 Mtg	13
9/12/2024	RPGCD Directors Meeting	7
9/17/2024	BEG Virtual Mtg	3
9/18/2024	TWDB MAR Virtual Mtg	4
9/24/2024	Region G Meeting	50
9/25/2024	Region B Meeting	30

Date	Activity	Attendance (Min)
9/26/2024	TWDB MAR Virtual Mtg	4
9/30/2024	TAGD GW Science Committee	4

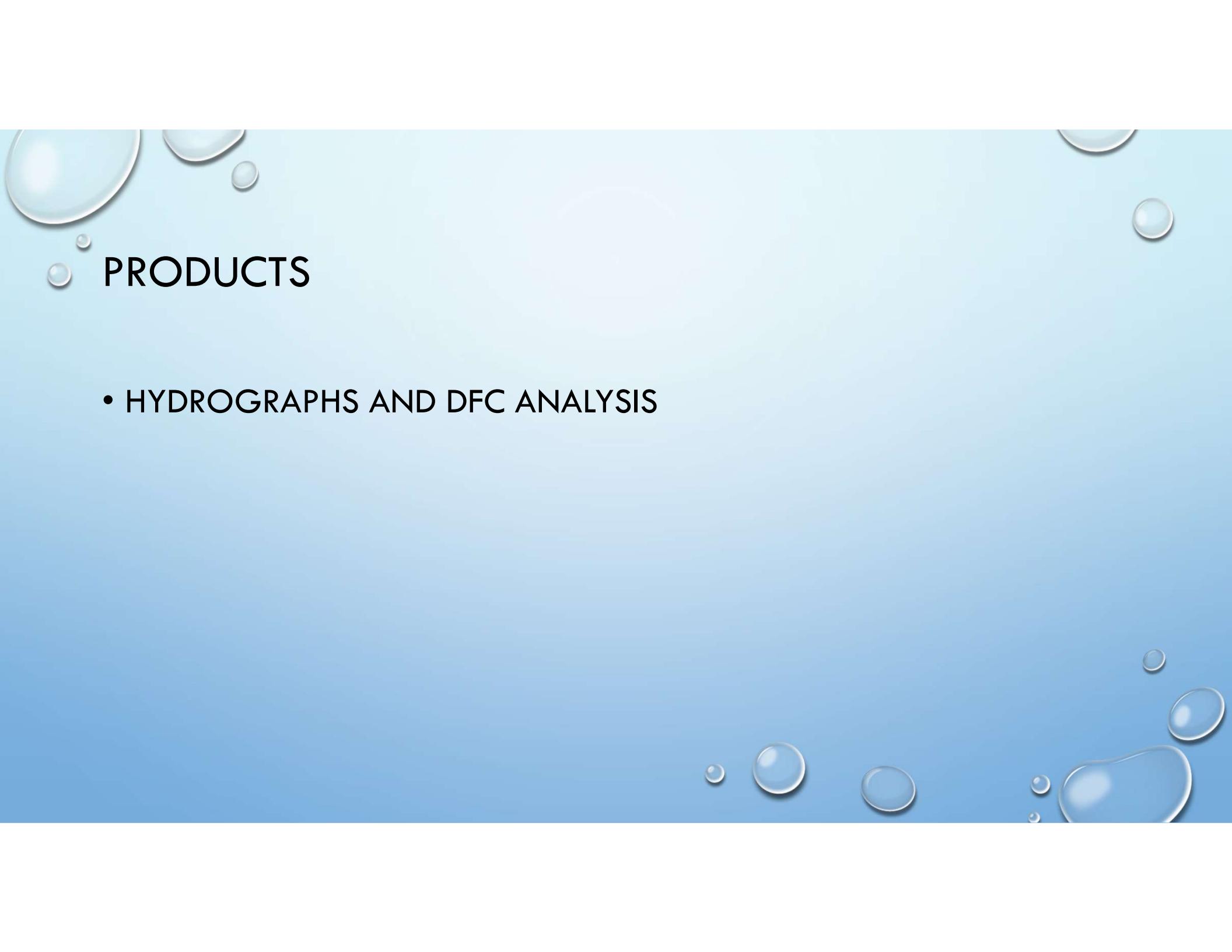
ROLLING PLAINS GROUNDWATER CONSERVATION DISTRICT

SEPTEMBER 12, 2024

RMBJ GEO INC

UPDATE 2024

- UPDATE WATER LEVEL HYDROGRAPHS FOR THE DISTRICT MONITORING NETWORK INCORPORATING ALL WATER LEVEL MEASUREMENTS
- PROVIDE REPORTS, TABLES, AND CHARTS FOR WATER LEVEL TRENDS, DFC CONSIDERATIONS, AND REGIONAL PLANNING EFFORTS



PRODUCTS

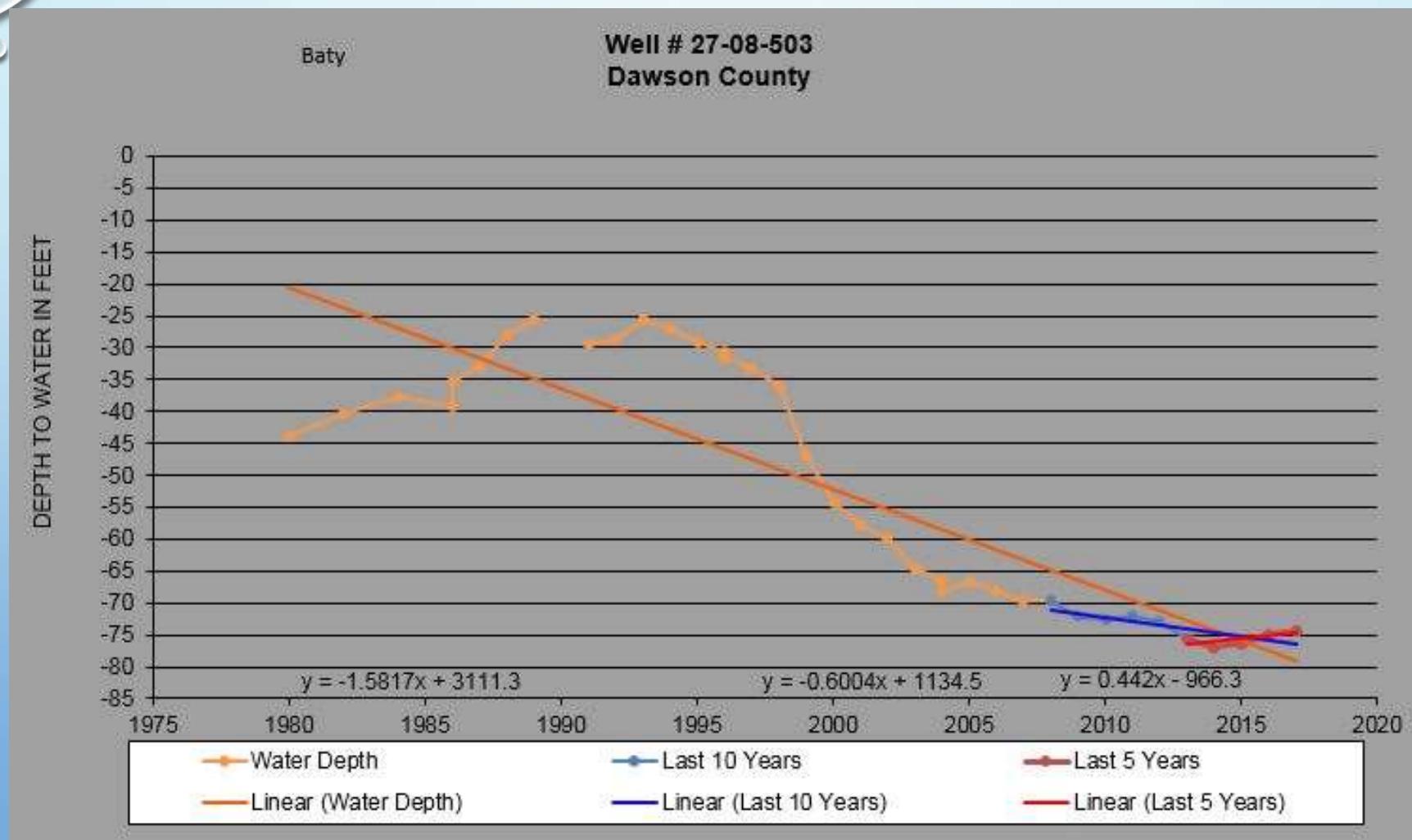
- HYDROGRAPHS AND DFC ANALYSIS

HYDROGRAPHS

Year	DTW	Static Change	5 Year Change	10 Year Change	5 Year Trend	10 Year Trend	Total Trend	Total Years
1997	-98.00							
1998	-101.25	-3.25						
1999	-105.25	-4.00						
2000	-109.92	-4.67						
2001	-108.92	1.00						
2002	-110.83	-1.91						
2003	-114.00	-3.17	-12.75					
2004	-114.83	-0.83	-9.58					
2005	-112.48	2.35	-2.56					
2006	-111.58	0.90	-2.66					
2007	-110.75	0.83	0.08	-12.75				
2008	-107.42	3.33	6.58	-6.17				
2009	-108.67	-1.25	6.16	-3.42				
2010	-109.50	-0.83	2.98	0.42				
2011	-107.00	2.50	4.58	1.92				
2012	-109.50	-2.50	1.25	1.33				
2013	-110.58	-1.08	-3.16	3.42				
2014	-110.17	0.41	-1.50	4.66				
2015	-112.00	-1.83	-2.50	0.48				
2016	-106.50	5.50	0.50	5.08				
2017	-108.25	-1.75	1.25	2.50	0.8	-0.1	-0.2	21
2018	-107.00	1.25	3.58	0.42	1.01	0.12	-0.15	22

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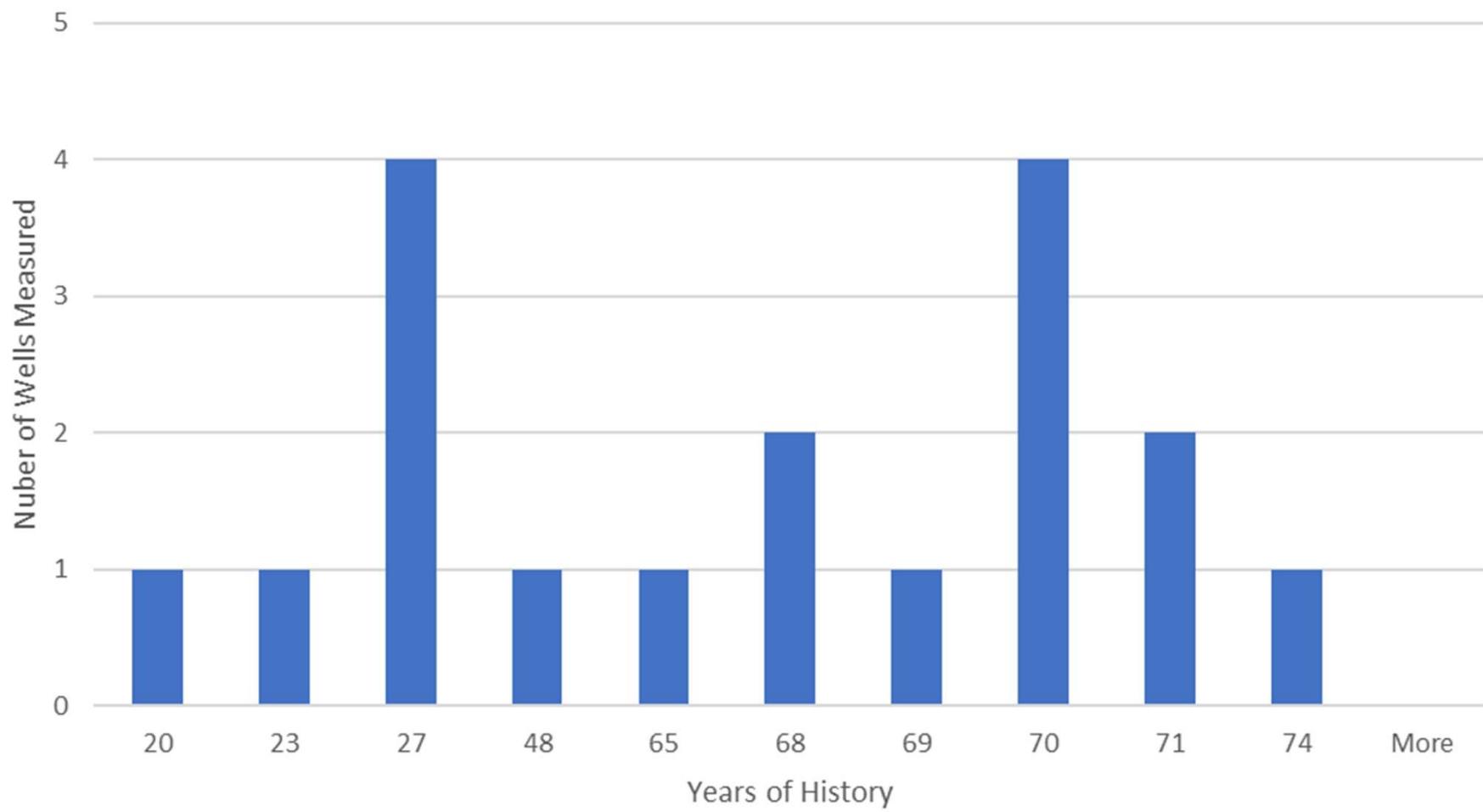
HYDROGRAPHS



TREND ANALYSIS

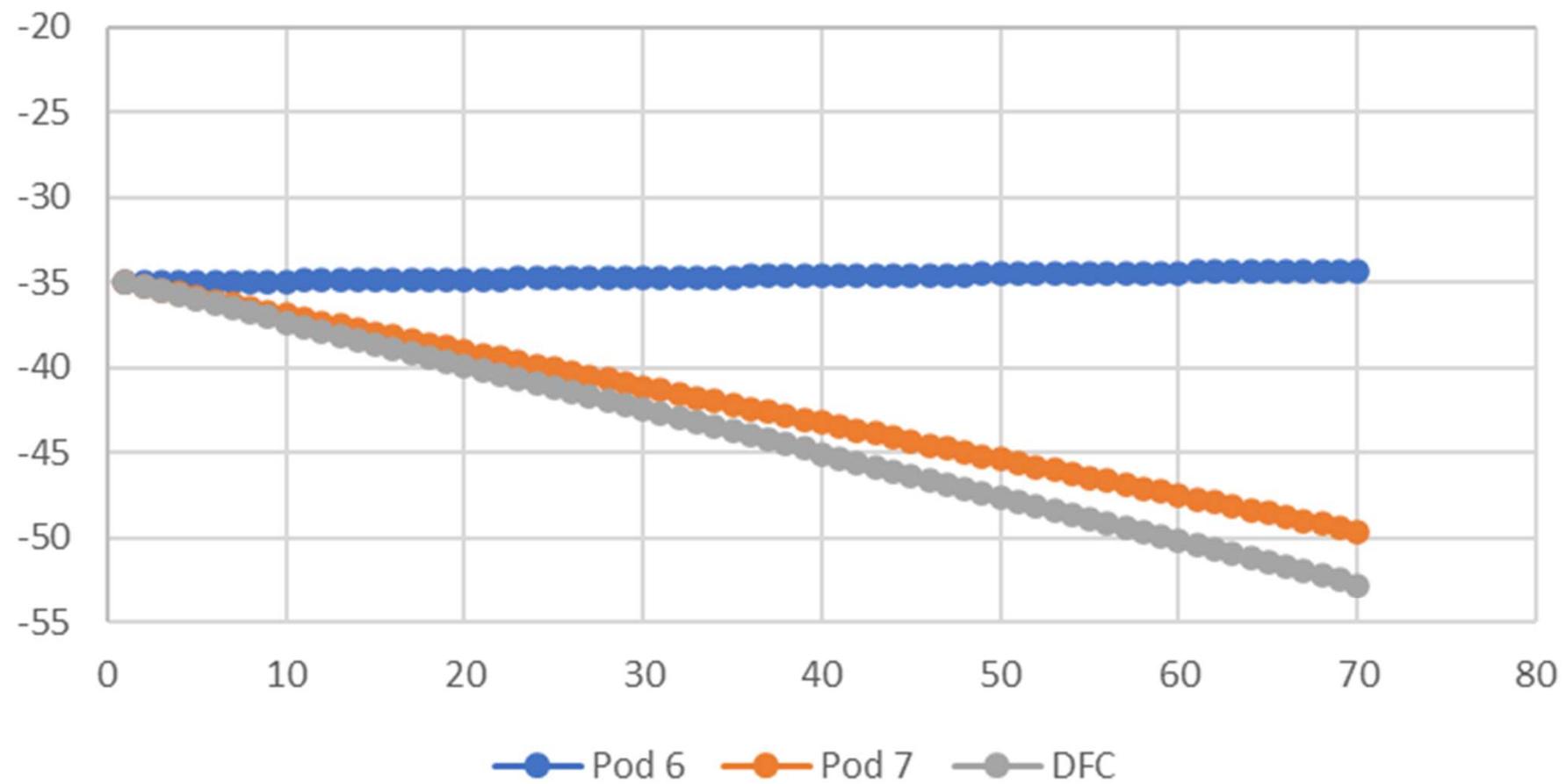
Well Number	Aquifer	Lat	Long	Depth	Static Change	5 Year Change	10 Year Change	5 Year Trend	10 Year Trend	Total Trend	Total Years
2707501	Ogallala	32.9452778	-102.1872222	-113.47	13.08	8.66	-9.00	1.8	-1.5	-2.2	38
2707801	Ogallala	32.9122222	-102.1944444	-68.58	-0.58	-2.91	-6.58	-0.4	-0.6	-0.3	38
2707901	Ogallala	32.9158333	-102.1558333	-80.50	-2.75	-2.67	-9.83	0.6	-1.1	0.2	63
2708405	Ogallala	32.9288889	-102.1177778	-107.67	0.83	1.00	-7.25	0.9	-0.7	-0.9	11
2708503	Ogallala	32.9419444	-102.06	-74.48	0.42	-2.58	-4.75	0.4	-0.6	-1.6	38
2708505	Ogallala	32.9172222	-102.0727778	-88.25	0.92	-4.25	-3.75	-0.1	-0.8	-1.5	21
2708701	Ogallala	32.8886111	-102.0958333	-129.75	1.17	-3.25	-16.08	-2.5	-3.8	-0.1	38
2708801	Ogallala	32.8816667	-102.0580556	-123.08	1.50	-5.08	-7.83	-0.2	-1.3	-1.9	38
2715201	Ogallala	32.8569444	-102.1683333	-104.08	1.67	0.84	5.17	1.4	-0.3	-1.0	38
2716201	Ogallala	32.8544444	-102.0447222	-126.50	-1.58	-4.42	-12.00	-3.4	-3.3	0.4	47
2716202	Ogallala	32.8513889	-102.0783333	-119.58	1.17	1.84	-9.91	-1.0	-1.4	-1.4	38
2716204	Ogallala	32.8722222	-102.0658333	-114.25	1.25	-4.25	-10.00	-0.7	-1.2	-1.8	19
2716205	Ogallala	32.8430556	-102.0436111	-129.58	1.42	-1.08	-11.16	0.0	-1.4	-2.4	16
2716605	Ogallala	32.8258333	-102.0277778	-136.50	1.08	-6.00	-9.25	-0.6	-1.1	-2.4	25
2716611	Ogallala	32.8291667	-102.0263889	-141.50	-1.00	-3.50	-10.58	-0.5	-1.1	-1.3	14
2716702	Ogallala	32.7738889	-102.0919444	-21.50	0.25	-2.50	-1.58	0.1	-0.6	-0.2	25
2716802	Ogallala	32.7913889	-102.0488889	-81.92	7.41	7.25	5.66	3.4	-0.3	-0.1	11
2716803	Ogallala	32.7869444	-102.0463889	-71.42	6.16	18.58	0.83	2.0	-0.2	-0.4	11
2724101	Ogallala	32.7097222	-102.1022222	-19.08	1.17	11.25	6.75	2.7	0.6	0.6	38
2724202	Ogallala	32.7311111	-102.0702778	-19.08	0.42	3.59	6.50	1.0	0.7	2.0	38
2724206	Ogallala	32.7261111	-102.0763889	-13.75		7.83	11.25	2.0	1.0	1.0	10

Histogram



	Annual Static Change	5 Year Diff	10 Yeah Diff	5 Year Trend	Total Trend	Total Years	DFC
All	0.23	-2.71	1.84	-0.72	-0.20	50.80	
Pod 7	0.25	-2.71	1.84	-0.72	-0.21	51.63	-0.26
Pod 6 (1 well)					0.01	35	-0.26

2024 DFC Anaylsis



DFC ANALYSIS SUMMARY

- GOOD DATA HISTORY AND CONTINUITY
- IMPROVING DATA COVERAGE (33 WELLS ADDED THIS YEAR)
- CURRENTLY MEETING YOUR STATED DFC

QUESTIONS?

RMBJ GEO INC

RAY BRADY – RBRADY5601@EARTHLINK.NET

AMY BUSH – HYDROGEEK@GMAIL.COM