North Plains GCD Documentation and Resources to address 36.108 D for GMA-1 Joint Planning.

36.108 D Requirements	District Resources
(1) aquifer uses or conditions within the management area, including conditions that differ substantially from one geographic area to another;	2012 State Water Plan 2011 Regional Water Plan 2012-2016 Regional Water Planning Data 2013 North Plains Groundwater Management Plan Hallmark, D., North Plains Hydrology and Groundwater Resources Reports North Plains Annual Groundwater Production Database North Plains Well Permitting Database Hallmark, D. and S Walthour, Hydrologic mapping of declines, saturated and depth to water. Walthour, S, 2009, Desired Future Conditions for the Ogallala Aquifer
(2) the water supply needs and water management strategies included in the state water plan;	2012 State Water Plan 2011 Regional Water Plan 2012-2016 Regional Water Planning Data
(3) hydrological conditions, including for each aquifer in the management area the total estimated recoverable storage as provided by the executive administrator, and the average annual recharge, inflows, and discharge;	North Plains Groundwater Management Plan TWDB, Saturated Thickness in the Ogallala Aquifer in the Panhandle Water Planning Area – Simulation of 2000 though 2050 Withdrawal Projections. TWDB, Adjustment of Parameters to Improve the Calibration of the Og-n Model of the Ogallala Aquifer, Panhandle Water Planning Area. TWDB Northern Ogallala GAM Update To Support 2011 [Region A] Water Plan. TWDB GAM task 13-025: total estimated recoverable storage for aquifers in GMA- 1 TWDB GR12-003 MP Ver 2 , Revised management plan data for North Plains GCD TWDB GR12-005 MAG, Modeled available groundwater for the Ogallala Aquifer in Groundwater Management Area 1 TWDB GR10-019 MAG Ver 2, Managed available groundwater for the Dockum Aquifer in Groundwater Management Area 1
(4) other environmental impacts, including impacts on spring flow and other interactions between groundwater and surface water;	2011 Regional Water Plan
(5) the impact on subsidence;	Statement from a PG and documentation that the Aquifers in the District are not subject to subsidence.
(6) socioeconomic impacts reasonably expected to occur;	Amosson, S., 2014, Evaluation of Changing Land Use and Potential Water Conservation Strategies, NPGCD -, January

	2014 Marek, T, S. Amosson and B. Guerrero, 2012, 2016 Panhandle Regional Water Plan Task 2 Report: Agricultural Water Demand Projections. Report prepared for Region A Regional Water Planning Committee, Amarillo, Texas.
(7) the impact on the interests and rights in private property, including ownership and the rights of management area landowners and their lessees and assigns in groundwater as recognized under Section 36.002;	Submittals by legal counsel addressing this issue during the protest hearing process during the last round of planning,
(8) the feasibility of achieving the desired future condition; and	Groundwater production compared to the Modeled Available Groundwater
(9) any other information relevant to the specific desired future conditions.	

Staff Resources: This is the District's primary team that will be putting information

Dale Hallmark, PG – Hydrologist

Steve Walthour, PG – Hydrogeologist

Paul Sigle, EIT – Data analysis and QA-QC

Laura West – Groundwater Production Reporting

Consulting Resources:

Keith Good – Lemon Shearer and Good, PLC

Steve Amosson – Texas AgriLIfe

Leon New- Agricultural Engineer