



# NORTH PLATTE

## Natural Resources District

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### Project Description

The North Platte NRD began a telemetry project in the spring of 2016 with the goal of reading ground water flow meters remotely. In the first phase of this project, close to 300 flow meters had an AMCI MeterEye telemetry unit installed. This unit is camera based, and will take a picture of your flow meter once a day during the growing season. That image is then delivered to a website through a cellular connection where it is stored and then converted to digital data. The stored images and data can be viewed by both the Landowners and District Staff, and used to improve water management practices.



Meter photo with time stamp and serial number

### Things you should know

- The first phase of the project took place in the spring and early fall of 2016
- Installation of these sites should take half an hour at most, unless difficulties arise
- These systems will be provided at no cost to the Landowners
- Each Landowner will be provided with a unique login so they will be able to view their telemetry sites



## Producer Information

The footprint of the unit is minimal. The MeterEye unit itself sits on top of your existing ground water flow meter. Manual reading of the flow meter is still an option by removing the pin on the front of the MeterEye unit. The component box is mounted on a 2" pipe that is driven into the ground in close proximity to the flow meter. The solar panel on the unit is pointed south to maximize the sunshine it receives throughout the year.

As mentioned before, each Landowner will be provided with a unique login to the Satalarm website so they will be able to view their telemetry sites. To receive this account information an email address is required. Once an email address is provided to the North Platte NRD, our telemetry provider AMCi Wireless, will send an email with account information and instructions on how to login for the first time. The North Platte NRD plans to hold workshops several times a year on how to use the website and the information gathered from it.

## Project Future

With grant funding there is another phase of the project that will add around 450 more telemetry units. This phase is planned to take place in the spring of 2018. With this phase almost every ground water flow meter in Scotts Bluff County will be installed with telemetry.

Additional sensors such as soil moisture probes and weather stations are another possibility for these telemetry units. These sensors would be purchased by the Landowner with a cost share payment provided by the North Platte NRD.

Most Recent Status						DISPLAY DISABLED CHANNELS	EXPAND CHANNEL SUMMARY
Component	Channel Number	Status	Value	Last Update	Graph?		
reading meter	901	[unknown]	0 acre-inches	(unknown)		<input type="checkbox"/>	
enclosure temperature	6	OK	94.3 deg. F	2016-06-07 13:58:02 MDT		<input type="checkbox"/>	
solar charged battery voltage	4	OK	12.87 volts	2016-06-07 13:58:02 MDT		<input type="checkbox"/>	
cellular RSSI	25	OK	-87 dBm	2016-06-07 13:58:02 MDT		<input type="checkbox"/>	



Display Map

— solar charged battery voltage (volts)  
— enclosure temperature (deg. F)  
— cellular RSSI (dBm)

