



Fire at Sundale Well

NIPOMO COMMUNITY SERVICES DISTRICT

September 9, 2009

Board of Directors Presentation

Fire at Sundale Well



Agenda

- Operational Status At Time Of Fire
- On-Going Repairs Prior To Fire
- Operational Changes Since Fire
- Water Well System Capacity
- Fire And On-Going Investigation
- Process To Rebuild Well

Fire at Sundale Well



Operational Status At Time Of Fire

- Well was being kept in service with natural gas engine until after peak demand months of June, July, August and September
- Conversion to electrical motor planned for fall 2009

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On-Going Repairs Prior To Fire

- Repairs necessary to keep well operational in the interim
- Coolant leak
- Rough running engine
- Fuel regulator

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Operational Changes Since Fire

- Eureka running on hand as necessary
- On/Off set points changed for other wells

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Water Well System Capacity



	Average gpm	Cumulative gpm
Sundale	1000	1000
Eureka	890	1890
Via Concha	750	2640
Blacklake 4	375	3015
Bevington	370	3385
Knollwood	240	3625
Blacklake 3	165	3790
Olympic	130	3920

***Based on 2007 Water and Sewer Master Plan Update

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Water Well System Capacity

- Sundale is largest well – 25% of system capacity
- Maximum Day Demand is 3150 gpm, historically in July
- System capacity without Sundale is 2920 gpm

***Based on 2007 Water and Sewer Master Plan Update

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Water Well System Capacity

- Standby wells have limited capacity
- Church 145 gpm
 - Poor water quality (Secondary Standards)
but could be activated immediately
- Mandi and Cheyenne 100 gpm each
 - Extensive work needed before activation

***Based on 2007 Water and Sewer Master Plan Update

Fire at Sundale Well



Fire And On-Going Investigation

- Mechanical failure resulting in natural gas fueled fire on August 28, 2009
- Well running at last SCADA communication
- Engine, engine controls, SCADA panel, chlorine feed system, well level measurement system, building destroyed
- Well pump status unknown at this time

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Fire and On-Going Investigation

- Fire Department has ruled out arson
- Point of origin appears to be in vicinity of fuel regulator near top of engine
- Staff assisting SDRMA with investigation

Fire at Sundale Well



Process To Rebuild Well

- Electrification project contracts previously in place for demolition, new electrical service, new pump motor, and new metal building
- New PG&E electrical service in process
- Building permit for new electric service

Fire at Sundale Well



Process To Rebuild Well

- Additional work includes but not limited to:
 - More demolition than originally planned
 - Replacement SCADA panel
 - Replacement chlorine feed system
 - Replacement well level measuring system
 - Pull pump, inspect well, replace damaged components as necessary

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Process To Rebuild Well

- Rebuilding work to begin once SDRMA investigation completed
- Rebuilding effort likely to take 3 to 4 months to complete
- Cost to rebuild unknown at this time

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Questions?