



BEAUMONT CHERRY VALLEY WATER DISTRICT
Town Hall Meeting Concerning Special Election Measure B Concerning Water Quality Issues
in Beaumont Cherry Valley

Thursday, August 23rd, 2007 – 7:00PM
550 E. 6th Street, Beaumont, CA

Assistance for the Disabled: If you are disabled in any way and need accommodation to participate in the meeting, please call Blanca Marin Administrative Assistant, at (951) 845-9581 Ext. 23 for assistance so the necessary arrangements can be made.

1. Opening Remarks by Moderator (C.J. Butcher, General Manager)
2. Verbal Presentation by Legal Counsel from Redwine and Sherrill, Gil Granito Regarding the Legal Process Regarding Activation of Sanitation Powers–Measure B.
3. Presentation by Mark Wildermuth of Wildermuth Environmental Inc. Regarding Water Quality Impacts from On – Site Waste Disposal Systems in the Cherry Valley Community of Interest.
4. Presentation by Joe Reichenberger, PE, District Engineer Concerning Alternatives for Groundwater Pollution Control in the Beaumont Cherry Valley Area.
5. Presentation by Sudhir Pardiwala of Raftelis Financial Consultants Inc. Regarding Cost to Sewer Cherry Valley.
6. Verbal Presentation by Lisa Kegarice-Tollstrup with Tom Dodson and Associates Regarding the Environmental Work.
7. Questions and Answers.

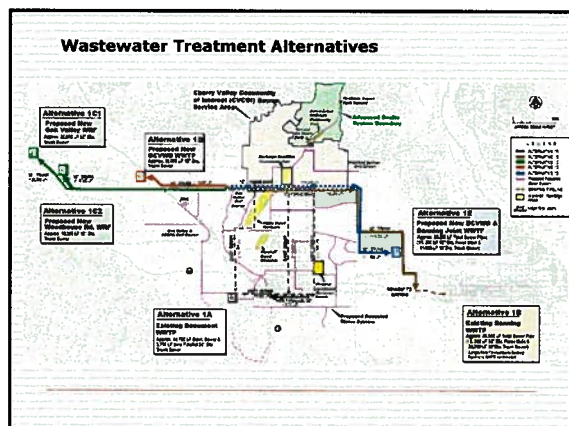
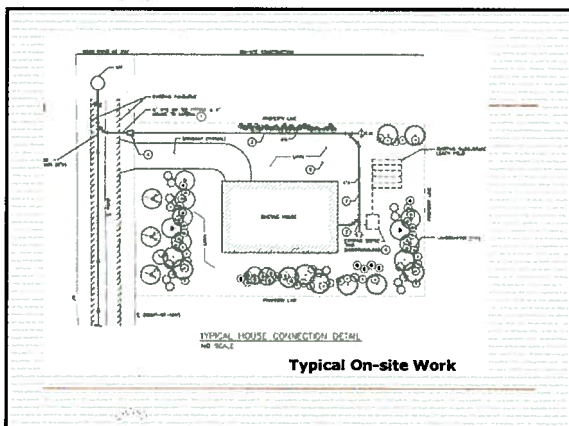
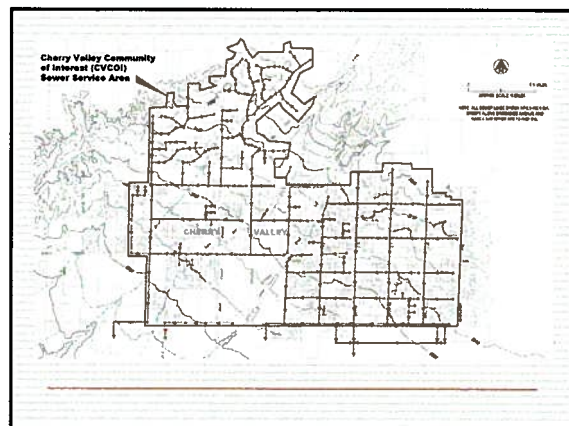
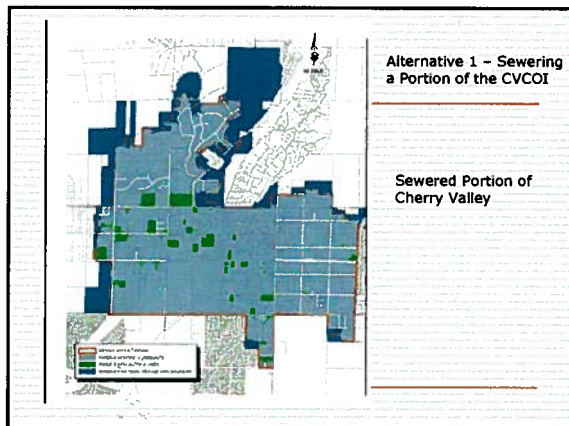
Beaumont Management Zone Water Quality Improvement Program

Presentation of Alternatives

Town Hall Meetings
City of Beaumont 8/23/07
Cherry Valley Grange 8/30/07

4 Basic Alternatives

1. Sewer the Cherry Valley Community of Interest and convey wastewater to various locations for treatment and reuse
2. Install Advance On-site or STEP/STEG system
3. Provide Wellhead Nitrate Treatment with brine disposal in the SARI line
4. Do Nothing – allow continued pollution of the Beaumont Basin



Alternative 2A- Advanced Septic Tank and Reuse System

Figure 6-15
Process Flow Diagram
AdvanTex® Treatment System

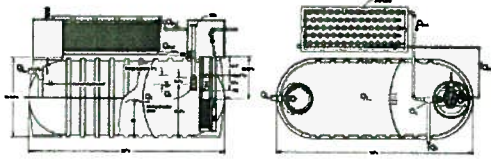


Fig. 6-15a
Side View

Fig. 6-15b
Top View

This system reduces the nitrogen in the effluent

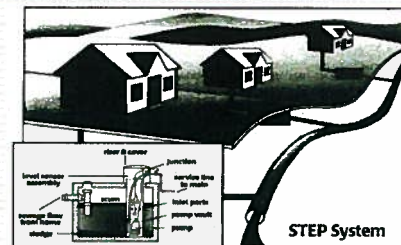
Alternative 2A- Advanced Septic Tank and Reuse System

- Each septic tank would be converted to an advanced system with drip irrigation reuse system
- Would require formation of an on-site wastewater management district
 - Public Agency (County or BCVWD)
- Costs, etc.
 - Annual operating permits (fee)
 - Annual inspections
 - On-site monitoring contract
 - Pump out (5-years)
 - Electrical power costs
 - Pump replacement (5-yr intervals)

Alternative 2B – STEP/STEG System

- STEP – Septic Tank Effluent Pump System
 - Owner replaces septic tank (probably leaking if old) with new tank
 - Pump is installed to pump effluent to a public sewer
 - Can be pressure or gravity flow or both
 - Smaller diameter and possibly shallower sewers
- Would require formation of an on-site wastewater management district
 - Public Agency (County or BCVWD)
- Costs, etc.
 - Annual operating permits (fee)
 - Annual inspections
 - On-site monitoring contract
 - Pump out (5-years)
 - Electrical power costs
 - Pump replacement (5-yr intervals)

Alternative 2B-- STEP System



Alternative Grinder Pump System



- Would require formation of an on-site wastewater management district
 - Public Agency (County or BCVWD)
- Costs, etc.
 - Annual operating permits (fee)
 - Annual inspections
 - On-site monitoring contract
 - Electrical power costs
 - Pump replacement (5-yr intervals)

Not evaluated in Report. Vendor stated not competitive with sewers

Alternative 3 -- Wellhead Nitrate Treatment

- Each of the wells which become contaminated will need ion exchange nitrate removal treatment
- Works like your water softener (uses salt) and removes nitrate instead of hardness (Calcium & Magnesium)
- Requires regeneration and disposal of the reject water (brine) with nitrates
- Inland Wastewater treatment plants will not accept this brine
 - Buy capacity in the pipeline
- Must discharge to a brine line (SARI line)
 - Extend from Colton current terminus
 - Buy capacity in the pipeline
- Very high operating costs
- **Will be paid by everyone in District**

Alternative 3 -- Wellhead Nitrate Treatment



Typical at each well

Alternative 4 – Do Nothing

- ❑ Would not be allowed by Regional Board as Basin Water Quality Objectives would be violated
- ❑ Regional Board would put a Cease and Desist on existing on-site systems and preclude use of such systems*
 - Sewer it
 - Advance septic tank system possible
 - Truck it away each day (maybe)
- ❑ Impact on Property Values??

* This was done at Los Osos and other communities

Alternative 4 – Do Nothing (Cont'd)

- ❑ Beaumont Basin could not be used for water supply
 - Affects Yucaipa, Banning, Calimesa too
- ❑ Recharge of imported water would be fruitless – don't put good water on top of bad
 - Force construction of a water treatment plant
- ❑ Could never retrieve it unless wellhead treatment provided
 - See Alternative 3 for impacts
- ❑ Just postponing the inevitable

Cost Comparison

Alternative	Description	Un-included Capital Cost (Millions)	Annual Operation and Maintenance Cost (Millions)	20-year Present Value (Life Cycle Cost) (Millions)
1A	To Beaumont WWTP	\$33,350,000	\$750,000	\$44,930,000
1B	To Banning WWTP	\$36,900,000	\$750,000	\$48,480,000
1C1	To Yosemite Oak Valley WWTP	\$33,660,000	\$1,000,000	\$46,990,000
1C2	To New Woodhouse Rd. WWTP	\$33,660,000	\$460,000	\$41,090,000
1D	To New BCVWD WWTP near Cherry Valley	\$36,340,000	\$460,000	\$43,730,000
1E	New BCVWD-Banning Satellite WWTP	\$34,130,000	\$460,000	\$43,490,000
2A	Advanced On-site Systems	\$61,390,000	\$2,140,000	\$94,440,000
2B	STEP System & Small Diameter Sewer System	\$43,890,000	\$2,090,000	\$106,340,000
3	Wellhead Treatment for Nitrate Removal	\$22,800,000	\$4,410,000	\$90,960,000

Present Value is based on 20 years at 2.6% interest
Wellhead treatment assumes only 4 wells 1E, 2B, 2C, 2D