

BUTTE COUNTY
PUBLIC HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

WASTEWATER WORKING GROUP

AGENDA

MAY 9, 2007

ASSOCIATION OF REALTORS BOARD ROOM

1160 E. 1ST, CHICO

3:00 P.M. – 5:00 P.M.

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- I. Preliminary Items
 - A. Call to Order
 - B. Role Call and Determination of Quorum
 - C. Introduction of Guests
 - D. Minutes Review
 - E. Correspondence and Public Comment
 - F. Agenda Review

 - II. Informational Non-Action Items (None at this time)

 - III. Action Items
 - A. Policy Issues Group A: Existing Parcels
 - 1. Who Is Authorized to Design Pressure Distribution and Supplemental Treatment Systems?
 - 2. Should Supplemental Treatment be Required for Repair Systems Where Vertical Separation and Sizing Standards Cannot be Met?
 - 3. Variance and Appeal Process
 - 4. Design Flow Standards for Single Family Residence
 - 5. Septic Tank Capacity

Action Requested: Select Preferred Alternatives
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- IV. Agenda Preparation for Next Meeting
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- V. Adjourn

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Policy Issue Group A: On-Site Wastewater Systems on Existing Parcels

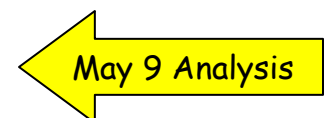
I. Site evaluation

- A. ~~Separate from construction permit?~~
- B. ~~Stand alone?~~
- C. ~~Expiration?~~
- D. ~~Used to determine:~~
 - 1. ~~— Treatment level?~~
 - 2. ~~— System type?~~
 - 3. ~~— System size?~~
 - 4. ~~— System depth?~~
- E. ~~Roles~~
 - 1. ~~— Which model is most appropriate for Butte County?~~
 - a. ~~— Evaluation by consultant only?~~
 - b. ~~— Evaluation by staff only?~~
 - c. ~~— Evaluation by some combination of the above?~~
 - 2. ~~— Who is qualified as a consultant?~~
 - a. ~~— Certified Engineering Geologist?~~
 - b. ~~— Certified Professional Soil Scientist?~~
 - c. ~~— Registered Civil Engineer?~~
 - d. ~~— Registered Environmental Health Specialist?~~
 - e. ~~— Registered Geologist?~~
 - f. ~~— Other Consultant Certified by Environmental Health?~~
 - g. ~~— Contractor?~~
 - h. ~~— Homeowner?~~
 - i. ~~— County REHS staff?~~
 - j. ~~— No design required?~~
- F. ~~Minimum site requirements~~
 - 1. ~~— Minimum lot size~~
 - a. ~~— Governed by General Plan and Zoning?~~
 - b. ~~— Specified in wastewater ordinance?~~
 - c. ~~— Based on area needed for system placement and repair?~~
 - 2. ~~— Maximum slope~~
 - 3. ~~— Soil permeability and depth~~
 - a. ~~— Basis of determination~~
 - i.) ~~— Soil maps?~~
 - ii.) ~~— Soil textural analysis?~~
 - iii.) ~~— Percolation tests?~~

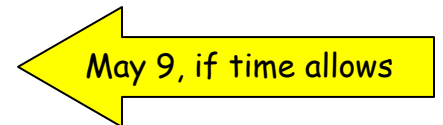
- b. — Range of allowable soil textures?
 - i.) — Standard gravity
 - ii.) — Supplemental treatment
- c. — Range of allowable percolation rates?
 - i.) — Standard gravity
 - ii.) — Supplemental treatment
- d. — Vertical separation requirements?
 - i.) — Standard gravity
 - ii.) — Supplemental treatment
- e. — Effective useable soil requirements?
- 4. — Perched groundwater level
 - a. — Basis of determination
 - i.) — Soil mottling?
 - ii.) — Wet season observation?
- G. Reduction in site requirements for large parcels?
 - 1. — How large?
 - 2. — What reductions?

II. Construction permit

- A. Expiration
- B. Requirement to connect to public sewer when available?
- C. System design
 - 1. — Who determines system type?
 - 2. — Standard gravity and pump to gravity systems
 - a. — Authorized to design system
 - i.) — Certified Engineering Geologist?
 - ii.) — Certified Professional Soil Scientist?
 - iii.) — Registered Civil Engineer?
 - iv.) — Registered Environmental Health Specialist?
 - v.) — Registered Geologist?
 - vi.) — Other Consultant Certified by Environmental Health?
 - vii.) — Contractor?
 - viii.) — Homeowner?
 - ix.) — County REHS staff?
 - x.) — No design required?
 - b. — Minimum design submittal requirements
 - c. — Design form?
 - 3. — Supplemental treatment and pressure distribution systems
 - a. — Authorized to design system
 - i.) — Certified Engineering Geologist?



- ii.) Certified Professional Soil Scientist?
- iii.) Registered Civil Engineer?
- iv.) Registered Environmental Health Specialist?
- v.) Registered Geologist?
- vi.) Other Consultant Certified by Environmental Health?
- vii.) Contractor?
- viii.) Homeowner?
- ix.) County REHS staff?
- x.) No design required
- b. Minimum design submittal requirements
- c. Design form?
- 4. Design flow
 - a. Single family residences
 - b. Non-residential applications
- 5. Septic tank requirements
 - a. Sizing for single family residences
 - b. Sizing for non-residential applications
 - c. Certification of water tightness
 - i.) All tanks?
 - ii.) Tanks installed in environmentally sensitive areas?
 - iii.) Tanks installed as part of supplemental treatment system?
 - d. Review and approval of alternative septic tank designs?
- 6. Setback requirements
- 7. Special requirements for specific system types
 - a. Standard gravity
 - b. Pump to gravity
 - c. Pressure distribution
 - d. Steep slope
 - e. Shallow (aka Cap and Fill)
 - f. At-grade
 - g. Subsurface drip irrigation
 - h. Single-pass sandfilter
 - i. Recirculating sandfilter
 - j. Mound
 - k. Textile (Orenco Advantex™)
 - l. Constructed wetland
 - m. Holding tank
 - n. Pit privy
 - o. Vault privy
 - p. Portable toilet
 - q. Seepage pit
- 8. Alternative to Drainrock



- a. Approval process for alternatives?
- b. Sizing "credit" for alternatives?
- D. System installation
 - 1. Authorization to install system
 - a. Licensed contractor?
 - b. Homeowner?
 - 2. Number and type of inspections by county staff
 - a. Standard gravity systems
 - b. Sandfilter/mound system
 - c. Aerobic treatment unit/packed bed system
 - 3. Designer required to inspect and certify
 - a. Standard gravity systems?
 - b. Supplemental treatment system?
 - 4. Installer required to inspect and certify
 - a. Standard gravity systems?
 - b. Supplemental treatment system?
 - 5. As-built
 - a. Prepared by county staff?
 - b. Prepared by designer?
 - c. Prepared by installer?
 - d. Available at the time of final inspection by county staff?

III. Repair Permit

- A. ~~Differences in site evaluation procedures?~~
- B. ~~Differences in who may design system?~~
- C. ~~Differences in who may install system?~~
- D. ~~Differences in design requirements?~~
 - 1. ~~Setbacks?~~
 - 2. Sizing?
 - 3. Vertical separation?
 - 4. Upgrade to the maximum extent possible as allowed by the site?
 - 5. Consideration given to financial hardship in system design?
- E. Requirement to connect to public sewer when available?

IV. Variance and Appeal Process

- A. Variance review process
- B. Final variance determination
- C. Appeal process



Policy Issue Group B: Creation of New Parcels

I. Minimum parcel size

- A. Codified in:
 - 1. ~~General Plan and Zoning?~~
 - 2. ~~On-Site Wastewater Ordinance?~~
 - 3. ~~Subdivision Ordinance?~~
- B. Minimum parcel size based on:
 - 1. ~~Minimum gross land area?~~
 - 2. ~~Minimum useable area for system placement?~~
- C. Factors in determining minimum parcel size
 - 1. ~~Availability of public water system?~~
 - 2. ~~Type of treatment (standard gravity or supplemental treatment)?~~
 - 3. ~~Slope~~
 - 4. ~~Vertical separation~~
 - 5. ~~Soil classification~~
 - 6. ~~Percolation rate~~

~~II. Minimum site requirements~~

- A. ~~Maximum slope~~
- B. ~~Soil permeability and depth~~
 - 1. ~~Basis of determination~~
 - a. ~~Soil maps?~~
 - b. ~~Soil textural analysis?~~
 - c. ~~Percolation tests?~~
 - 2. ~~Range of allowable soil textures?~~
 - 3. ~~Range of allowable percolation rates?~~
 - 4. ~~Vertical separation requirements?~~
 - 5. ~~Effective useable soil requirements?~~
 - 6. ~~Perched groundwater level~~
 - a. ~~Basis of determination~~
 - i.) ~~Soil mottling?~~
 - ii.) ~~Wet season observation?~~
- C. ~~Reduction in site requirements for large parcels?~~
 - 1. ~~How large?~~
 - 2. ~~What reductions?~~
- D. Requirements for Community systems

Policy Issue Group C: Operation and Maintenance Program

I. Requirements Based on System Type

- A. System categories
 - 1. Standard gravity
 - 2. Pump to gravity
 - 3. Pressure distribution
 - 4. Supplemental treatment
 - a. Sandfilter
 - b. Mound
 - c. Aerobic Treatment Unit
 - d. Textile
 - e. Constructed Wetland
 - 5. Subsurface drip irrigation
 - 6. Commercial
 - 7. Systems in environmentally sensitive area
- B. Requirement alternatives
 - 1. Renewable Operating Permit
 - a. Requirement based on system type?
 - (1) Standard gravity?
 - (2) Pump to gravity?
 - (3) Pressure distribution?
 - (4) Supplemental treatment?
 - b. Requirement based on system status?
 - (1) Existing systems approved after the effective date of the ordinance?
 - (2) Existing systems at the time of property sale?
 - (3) Existing systems in environmentally sensitive area?
 - (4) Existing systems at the time of system repair?
 - (5) New systems
 - 2. Telemetry
 - 3. Certified O&M Specialist inspection and maintenance
 - 4. Homeowner manual
 - 5. Homeowner education
 - 6. O&M tracking
 - 7. Notice on property deed
 - 8. License agreement providing right of entry
 - 9. O&M registry

II. Applicability

- A. Division of management system
 - 1. Sanitation district
 - 2. Environmental health
- B. Existing systems

1. Standard gravity?
 2. Pump to gravity?
 3. Pressure distribution?
 4. Supplemental treatment?
 5. Commercial?
 6. Systems in environmentally sensitive area?
- C. New systems
1. Standard gravity?
 2. Pump to gravity?
 3. Pressure distribution?
 4. Supplemental treatment?
 5. Commercial?
 10. Systems in environmentally sensitive area?

III. Roles

- A. County staff
- B. System owner
- C. System designer
- D. Proprietary system authorized agent
- E. Certified O&M specialist
- F. Wastewater Working Group

IV. Data Management Alternatives

- A. MS Access
- B. TrakIt
- C. Envision
- D. NSF
- G. Orenco
- H. Wastewater Working Group
- I. County GIS system

V. Quality Assurance

- A. Registration of county staff (REHS, COWA, Proprietors)
- B. Annual performance review of county staff
- C. Certification of O&M specialists
 1. Training and examination
 2. Experience
 3. Continuing education
 4. Reciprocity

VI. Enforcement