6/23/05 - Oct 1, 05 JGT :A Grants expire

John Waters - Downs

- residential user rate high
- Downs - low/mod. income level
  population 2X 1990's w/out annexation
  commerical rate 3rd highest
- 21% increase over 8 yrs.
  capital costs plant ≈ $27 million
  annual operation costs $32.95 - 43.80 sewer bill (Downs breakdown)

$32 million min. $4.45 sewer residential ≈ $81 commercial

- Rate Analysis performed ; can't afford new plant improvements

- Population Influx time to time (Lincoln County fast growing pop.)
  Phasing 2.5 ⇒ 3.75 mgd
  66% growth
  12,219 1990
  20,322 2003

- large ~~[illegible]~~ un-sewer areas both City/Village
  ↳ community plan hook up homes
- winter time operation - least amt. flow
  shave 10% of flow rate capacity
- Biological Demand ~~[illegible]~~ summertime

- Compliance on short term nothing look @
  detention time (winter time) won't work
  cycling operations on/off nitrogen ↓ uptake phosph.
  digestor
  wi
- load adjusted during summer/winter
  Tass .1 mg/L

- examine alternatives (Innov. project) wtr. re-use
- $25 mill. @ 1 mg/L w/ Biological Process
- Chemical Process take out phos. add $4 mill to cost
  Nitrogen / Phos. removal
  take out as much phos biolo

Aeration Basin
BOD_5 30 $ha^{\pm}$
TSS

N
(A_{NO_2})
Flow(Q) → Anerobic Process → Selector take out phosph.
2.3 hrs

- Mescalero Apache - not pay capital costs, but hooked onto system.

- looked @ Geo bond
- Impact Fees (Village) upgrade rates
- Geo Bonds
- Loans
- Grants
-

→ What about Clean Water Loan @ 3% broken out into City & Village residents?

- Dewatering sludge - rent belt Press temporary
  → Buy equipmt. temporary basis
- land acquistion
- engineering
- 1974 Joint Use Board Formed - economical hardship (why it was formed)

- sewer improvem . construction

John watons - people not paying sewer bills right now; how pay increase in O+M w/ new plant?

- zero discharge breaks regional concept
- what do communities do when can't afford it?
→ relief of stringent limits under C.W. Act when can't afford

Plant max achievable limit

Surface Water

Lab ⇒ .03 Total phos.; .1 mg/L state limit

in stream standard discharge lot of wtr into stream → Rio Ruidoso

discharging + what is In trac. 60-70% discharge

(TMDL) Standard stream flow (discharge rate)

Downs/City - Can't pay for O+M cost of plant
Affected by C.W Act.; How deal w/ not being able pay for treatment?

(- $3 million Phos. treatmt.)
- $22 million plant upgrade 2.5 mgd
→ need upgrade whole plant to make it work
no detention time w/ ex. facility (no capacity for 1st phase)

- Take out all Nitrogen → phos. promote growth algae in river.

O+M $480,000/yr. 3.5 mgd

- 2800 ac-ft (ect flow

* Mescalero Apache → re-use take effluent
ponds store wtr ; pipe to area

* buy equipment dewatering save $ in budget
thickening machine 1/2 % solids
belt press lease out $100,000 / yr.
out sludge bed capacity

EPA Doc - Financial Capability Guidebk 1984-March
From Lawyer Joint Use - steps taking rates

- SEO eff. credit not affected when go to re-use
Village → not far along w/ reviewing rates
Sewer not paying for itself
look @ sewer rates ↑
- share in costs of plant
- measure flows in each entity contributing
flow wise
- loading rates should be determined
→ Rural Wtr. Sampler donated to determine

→ follow up meeting loading rates base expense of
funds 85% Village 15% City