TYLER PIPE / EPA Meeting 6/3/88

116291

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AR207544

case #2874
Barium in Soils

6/3/88 Tyler Pipe Co., Davis & Turgeon, & Wallace Koster (geologist)

ORIGINAL (Red)

why would foundry sand be a problem when not a problem anywhere else.

Wallace Koster ⇒ why hydro at site ...
— Report "Technical Response"

MW#1 1977-1985 — only change in W.Q.
high TDS = road salt.

~~EPA — misunderstood~~
Lancaster Labs. — Tyler Pipe composite sample:
initial test - Assay on what waste contained
Then - leach procedure

pH = 11.8.
no metals leached under EP TOX
Barium leached at Drinking standard.

pH ↓

Foundry Sand: Binder material the problem.

pH to neutral attenuating capacity of L.F. water fixes metals to foundry sand, so minimal leaching to GW.

Foundries used for Road fill: chambersburg

G.W. Metals at L.F. None above drinking water criteria except Barium

Barium from bedrock — "Barium in bedrock will leach but not from wastes"

AR207545

Barium

>1mg/L in GW and →ΔΠ

Barium: soils in higher than T.P. waste that Barium from soils is the source which overwhelms the B. in the T.P. waste.

Barium / Soils samples

Core butts / Burnt sand: Cupola bottom, Slag. / molten iron

cast.

broken sand mold

Resin sand muller waste — dust off of muller

? → pH "L.F. water" was pH 6-8

NJ. sands / yea!

Binder = phenol formaldehyde

why no leach at pH 5.0.

attenuation capacity of binding material of metals

binding material affected release of metals from foundry sand.

11/1984 → high ~~volatile~~ Alkalinity ↑ ≠ NaCl.

metals - Arsenic 14 ppb all others typically low.

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EPA generator #

Sludge to Ohio

ORIGINAL (Red)

no solvents / some pipe coating - no residuals

George Schenk says contracted out

Sludge - wet mills & grinder

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