Below is attendance list for September 16, 2003 DEP meeting with the Chemistry Council, followed by industry power point presentation.

DEP meeting notes reveal that discussion focused on "Cost of compliance" and industry agenda to avoid compliance with strict standards: "need legal way to protect from end of pipe limits"

WLC neeting 9/16/03 Affiliation 609-292-125 CCNT 609-392-4214 Ban Kui D. Port 302-774-8076 George Bakun Conoco Phillips Co. 908-523-5896 Valdis Krumins Passaic Valley Sewerage Comm. 973-466-2974 Hathay Geneareth Mahway Valley S. A. 732-388-0868 John Majurll 609.382.0800 Tyler Linton Great Lakes Environmental Center (614)487-1040 HEVIN Hiello MEUR/ REA (732)721-3800 Narinder Ahuja NJDEP-DWQ (609) 292-4543 * Russell FURNARY PSE6/NJ STUTE Charles of Connecce (973) 430 - 8848 JEFFREY READDING HJBEP/DWQ (609) 292-997 Debra Hammond NJDEP/WQS (609) 777- 175= ERNEST HAHM MJOED /LAND USIC-(609) 292-2178 * FROD AVOOR BAT/NAPC 312/214-8310

Sept 16, 2003 Wildlife Creiteria -CIC, Petroleum Council, PYSC, Rahway Valley, MCUR, AMSA, Chamber of Commerce Science issue - hopefully addressed in response to comments Bart Router
FRED GLWG Coalition From Chicage. Attainability & Cost of Compliance - Attamabethy Need legal way to protect - From end ofpipe limits - Fremits are not being issued Vaniance is backlogged. Ohio good model but uncertain 7 Topol must include WLA will occur in 2005, Increase power needs resultin greater
199 PCB emissions No woppes until we acade and specified levels

NJ Proposed Wildlife Criteria

September 16, 2003

Associations/Companies Represented

- New Jersey Petroleum Council
- NJ State Chamber of Commerce
- CCNJ
- AEA
- AMSA
- NJBIA

Concerns with Proposed Wildlife Criteria

- Endangered wildlife species in NJ are improving.
- Science is not yet sufficiently developed to set technically valid wildlife criteria.
- NJ has not shown that its criteria would be be reasonable. attainable, or that economic impacts would

Concerns with Proposed Wildlife Criteria

- Proposed criteria would force industry and of standards in NJ waters. controls, which will not result in attainment POTWs to install enormously expensive
- Proposed criteria would force numerous controls that will improve water quality. process and efforts to implement the appeal their permits, slowing permitting discharges to apply for variances and/or

Basis for Concerns

- Technical Issues with Criteria
- Criteria Attainability
- Ability of WWTP to meet WQBEL
- Costs of WW Treatment to Meet WQBEL
- Regulatory Issues

Technical Issues with Criteria

- Examples of Technical Issues
- EPA's Science Advisory Board has criticized the GLI wildlife approach.
- Cross Species Data Transfer, i.e. mallard duck
- Use of human health methodology for wildlife
- Use of BAFs are not defensible
- etc..

NJ Proposed Wildlife Criteria

DDT

4 pg/L

Total Mercury

530 pg/L

Total PCBs

72 pg/L

Mercury, PCB and DDT are ubiquitous in the environment at levels above the criteria.

Remote Areas

(Artic, Sweden, Finland)

River Rainfall Lake 11.9 ng/L 1.9 -7.8 ng/L 90 - 420 pg/L Total Mercury 1.3 - 7.2 ng/L 640 - 4,830 pg/L Total PCBs 88 - 9703 pg/L 0 - 250 pg/L Total DDT 7 - 122 pg/L No Data

Proposed

Criteria .530 ng/L 72 pg/L 4 pg/L

- Ambient New Jersey Concentrations
- NJ PCB Data (Van Ry, et al, 2002)
- Rain

870 - 13,000 pg/L

Gas Phase

340 - 6600 pg/m3

- Detroit NPS Study (Khalil, 2000)
- Rain

20 - 56,000 pg/L

Heavy/Light Ind. run-off

22,000 - 200,000 pg/L

Residential run-off

30 - 190,000 pg/L

Example of PCB Sources: preliminary sources to Delaware Estuary:

 Total Loading 	- Atmospheric Deposition	- CSOs	 Point Source Discharges 	Tributaries	 Haz Waste Sites 	
282,000 mg/day	3,500 mg/day	15,500 mg/day	45,700 mg/day	66,600 mg/day	$108,000 \mathrm{mg/day}$	

Preliminary TMDL

380 mg/day

- Ambient Mercury Concentrations
- NJ Mercury Task Force 2001
- Rain

5 - 94 ng/L

Detroit NPS Study (Khalil, 2000)

Rain

4.5 - 82 ng/L

Heavy/Light Industrial run-off

10 - 90 ng/L

Residential run-off

6.6 - 103 ng/L

Mercury Source Control (AMSA,2002)

• "8" Municipal WWTP

3.22 to 9.0 ng/L

Maine DEP POTW Hg Data

 POTW Effluent range of Hg Data 1 - 115 ng/L

Ability of WWTP to Meet WQBELs

Example

EPA RREL Treatability Data Base "PCB":

Activated Sludge lowest effluent

20,000 pg/L

Chemical Oxidation lowest effluent

200,000 pg/L

Reverse Osmosis lowest effluent

<50,000 pg/L

Gosh, et al WERF 1999

Filtration/Granular Activated Carbon

<100,000 pg/L

Cost of WW Treatment to Meet WQBEL

filtration followed by activated carbon. Estimated Costs to treat PCB & DDT using

Total NY/NJ Harbor Delaware Estuary \$1.0 billion \$4.46 billion \$574 million \$3.5 billion \$378 million Capital \$195 million 0&M

criteria in shared State waters Includes costs for WWTP in bordering States who will be impacted by the Wildlife

Cost of WW Treatment to Meet WQBEL

Estimated Costs to treat mercury reverse osmosis, ion exchange and brine treatment costs.

Annual Treatment Costs for Removing Mercury

Delaware Estuary

\$1.9 billion

NY/NJ Harbor

\$4.0 billion

Total

\$5.9 billion/yr.

criteria in shared State waters Includes costs for WWTP in bordering States who will be impacted by the Wildlife

Quotable Quote

When available data do not allow adequate additional information or to not derive a acceptable alternatives are to obtain Duluth.. Environmental Scientist, EPA - ERL criterion... Charles E. Stephan ... confidence in a criterion, the only

Quotable Quote

Water quality standards are the benchmark Research Council, 2001 impaired; if the standards are flawed (as for establishing whether a waterbody is Quality Management" ... National "Assessing the TMDL Approach to Water TMDL process will be affected ... many are), all subsequent steps in the

Recommendations

- DEP should not publish criteria at this time
- needed to develop valid wildlife criteria. determine what additional information is scientific panel to assess the need for DEP should establish an independent wildlife criteria and, if there is a need, to to
- attainable. Any criteria that are developed should be

Recommendations

- DEP should perform studies to determine mercury, PCB and DDT to the environment. contributions from the major sources of
- DEP should determine what programs could environment. the major sources of these pollutants in the be implemented to cost-effectively reduce
- stakeholder participation. All the actions above should involve full

Conclusions

- These recommended measures will;
- result in less cost to the public,
- allow more efficient use of DEP resources and
- will cost-effectively reduce the pollutants.