

Top 10 Take-Home Messages from SMARM

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10. MTCA Funding is grim

- Shortfalls (\$60M!)
- Slower pace of MTCA spending projected
- Attempts being made
- Grant process is broken



9. Total TEQ is the new rage

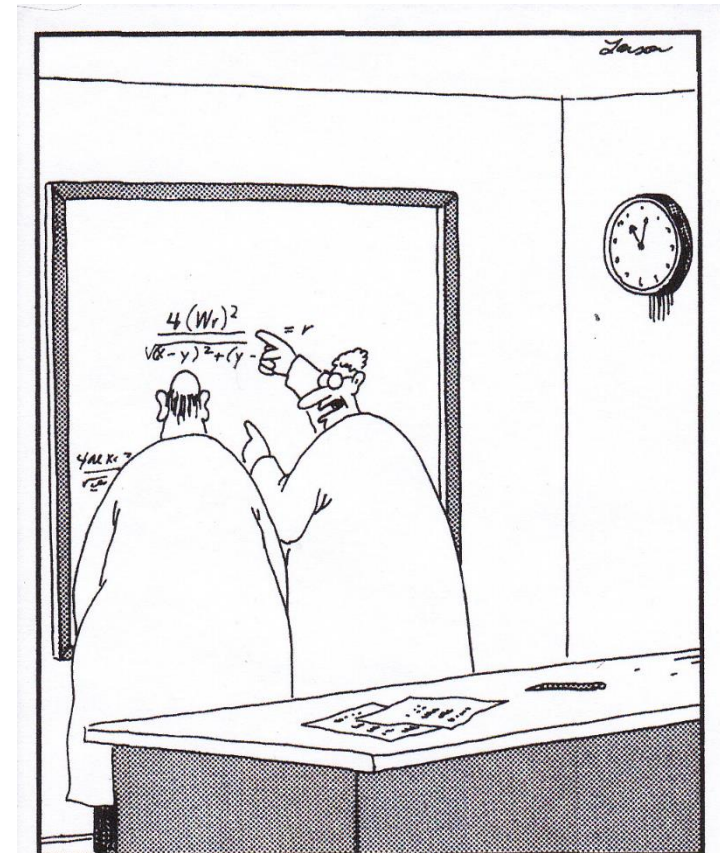
- Ecology is moving toward a total TEQ policy for human health
- “If PCBs are COCs, congener data are needed”
- Implications:
 - Added emphasis on collecting PCB congeners
 - PCBs less of a driver for dioxin/furan sites

8. Regional Background is still in the mix

- SCUM has been revised to incorporate regional background for Lake Washington
- Implications:
 - Allowed existing data to be used
 - cPAH regional background of 210 $\mu\text{g}/\text{kg}$ TEQ
 - Still not tackling some of the big sites

7. Everett Marina approved for open-water disposal

- 100% to open-water based on bioaccumulation testing
- Tissue PQL of 2.28 ng/kg
- DMMP will require ≥ 1 -2 more projects prior to revising dioxin 4/10 rule



"Yes, yes, I know that, Sidney... everybody knows that!... But look: Four wrongs squared, minus two wrongs to the fourth power, divided by this formula, do make a right."

6. DMMP focusing on chemical-by-chemical approach

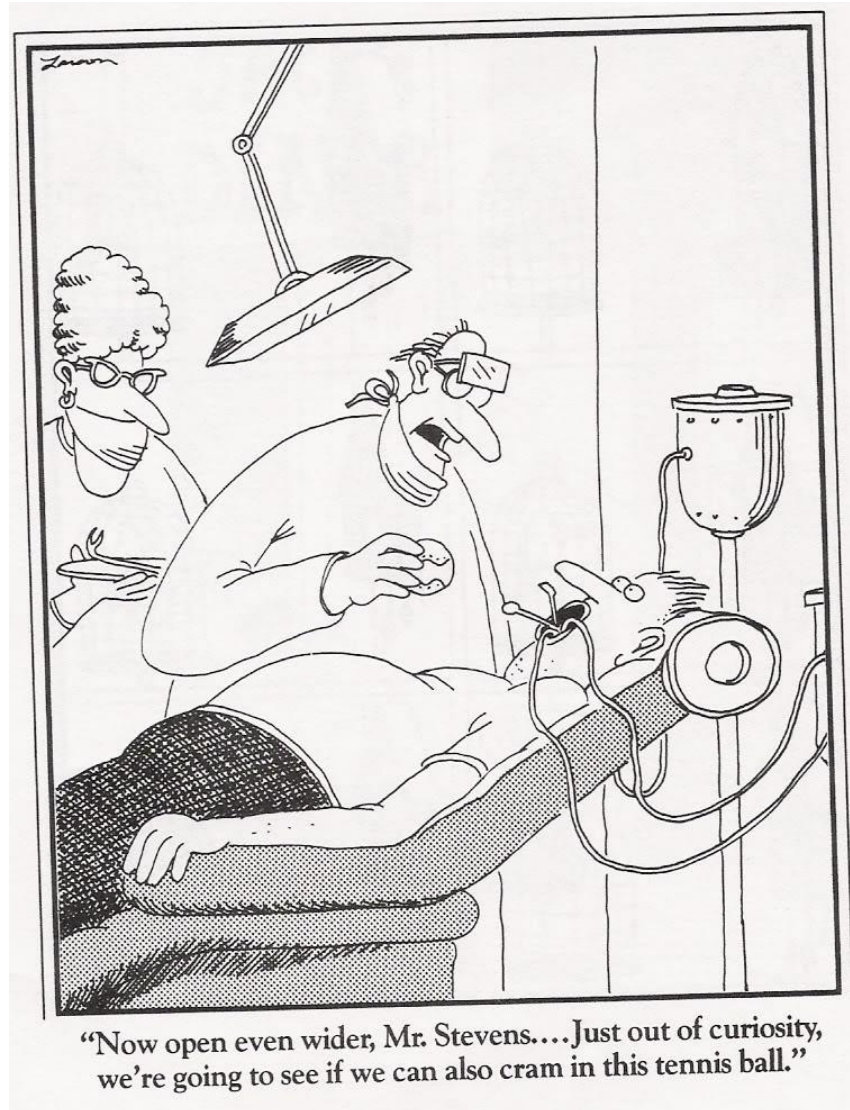
- Dioxin/furan approach was problematic
- Current focus on PAHs, with PCBs likely next
- Bottom line: Incorporation of bioaccumulatives likely to further limit dredge disposal to open water



"Oh, what a cute little Siamese. ... Is he friendly?"

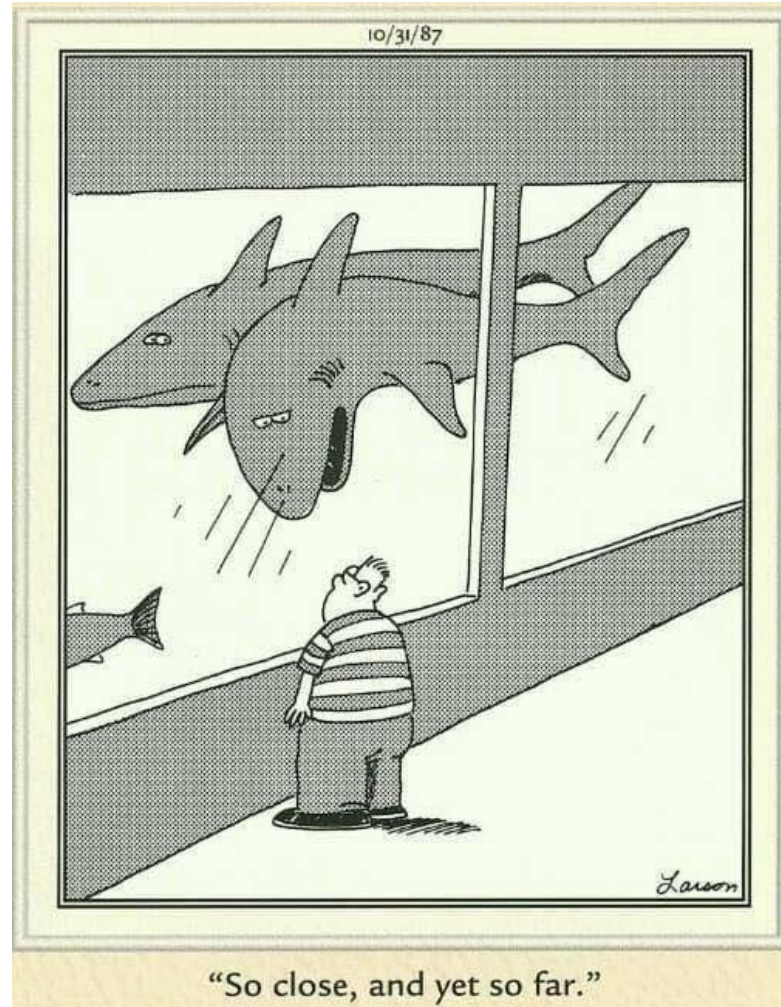
5. Focus is on PAHs and fish

- DMMP ruled out human health concerns for PAHs
- 2014 salmonid paper debunked
- Focus is on English sole and liver lesions (DMMP working with NMFS)



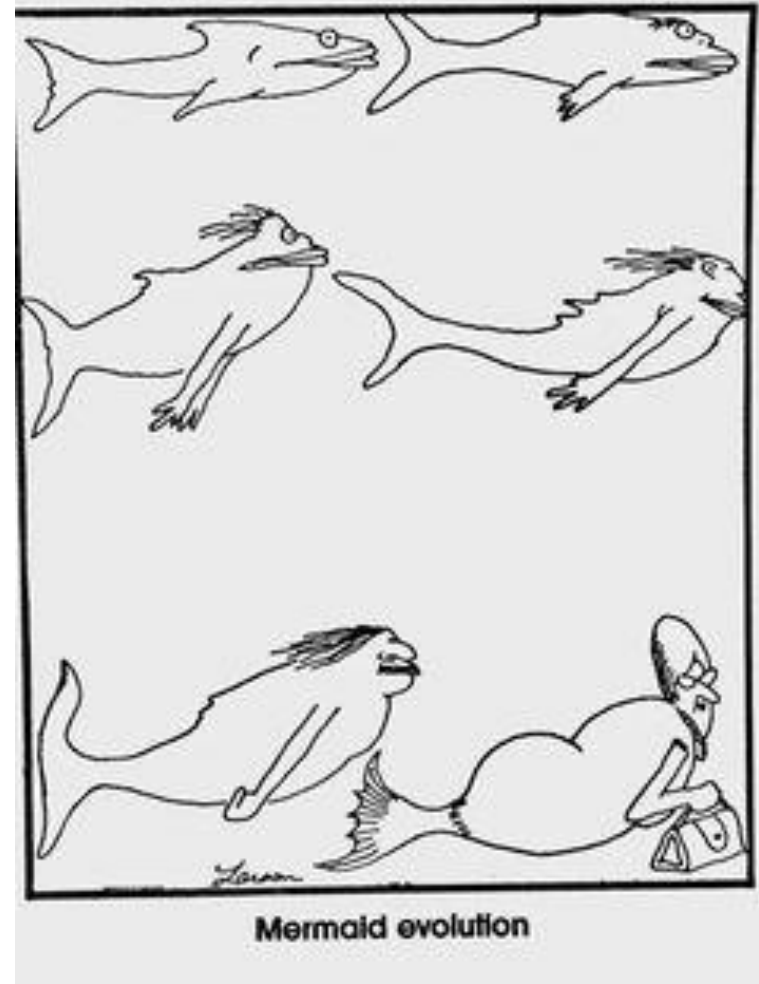
4. Yet liver lesions decreasing in English sole

- Lesions in 5% of fish now
- Lesions in 30-40% of fish 20 years ago



3. SMARM and DMMP are seeking input

- Management review
- Breakout sessions at SMARM
- Work groups to form?

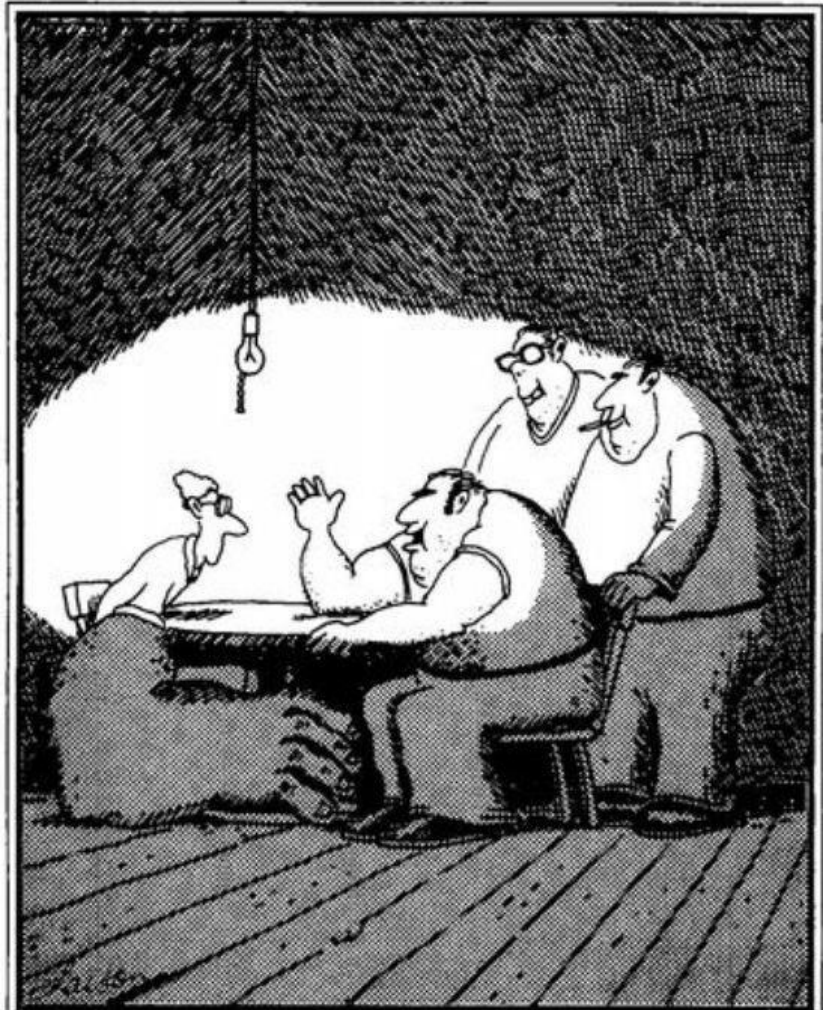


2. Are we asking the right questions, and will they be answered?

- Are there impacts at the disposal sites now?
- Are current guidelines based on good science (e.g., TBT)?
- If no impacts, why are additional disposal restrictions being sought – will they result in environmental benefit?
- What role does SMS play in DMMP?

1. Ports are influential

- Ports are highly respected, engaged, and vocal
- Organize around priorities



"Okay, buddy. Then how 'bout the right arm?"