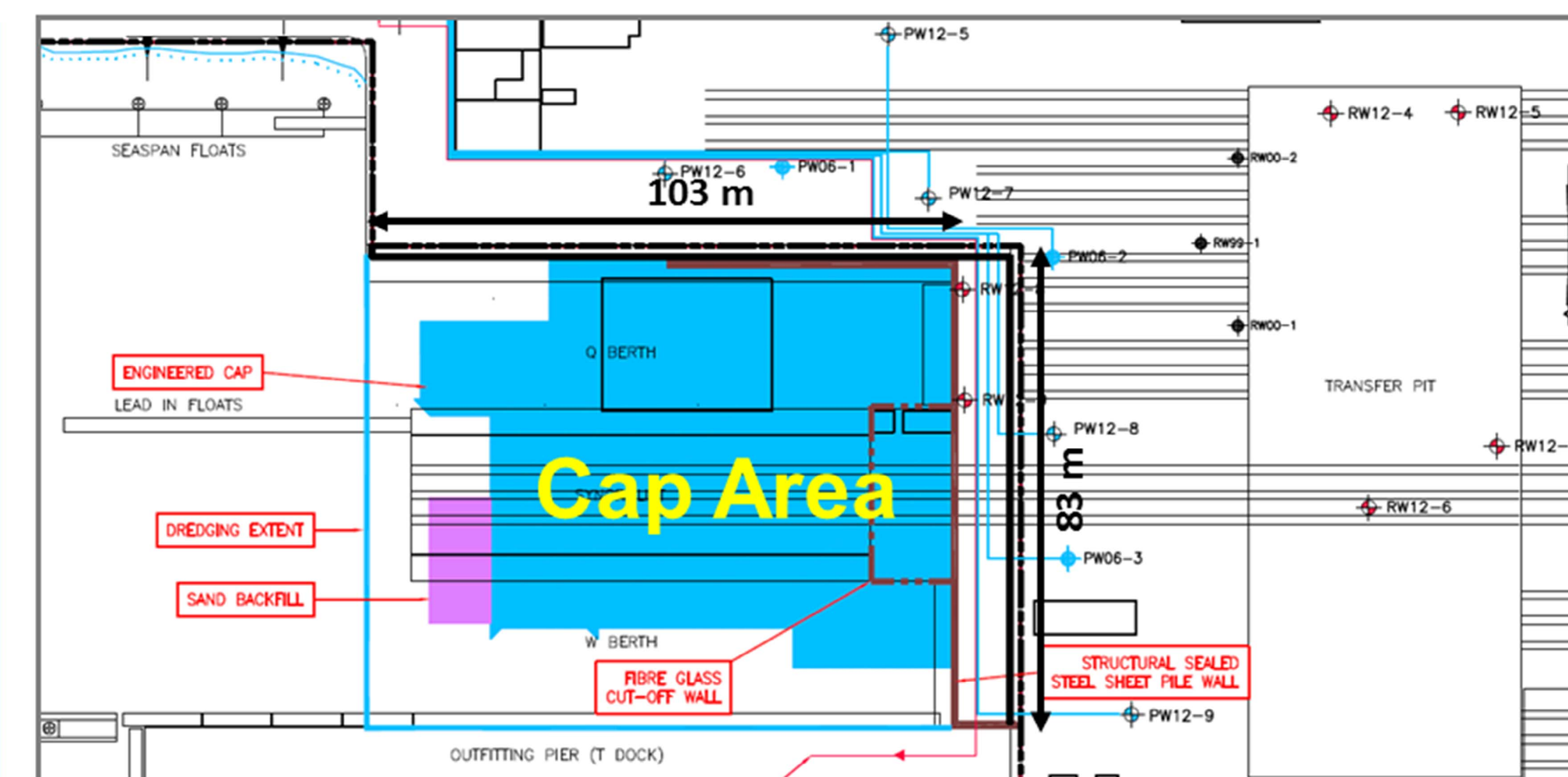


Remediation Plan

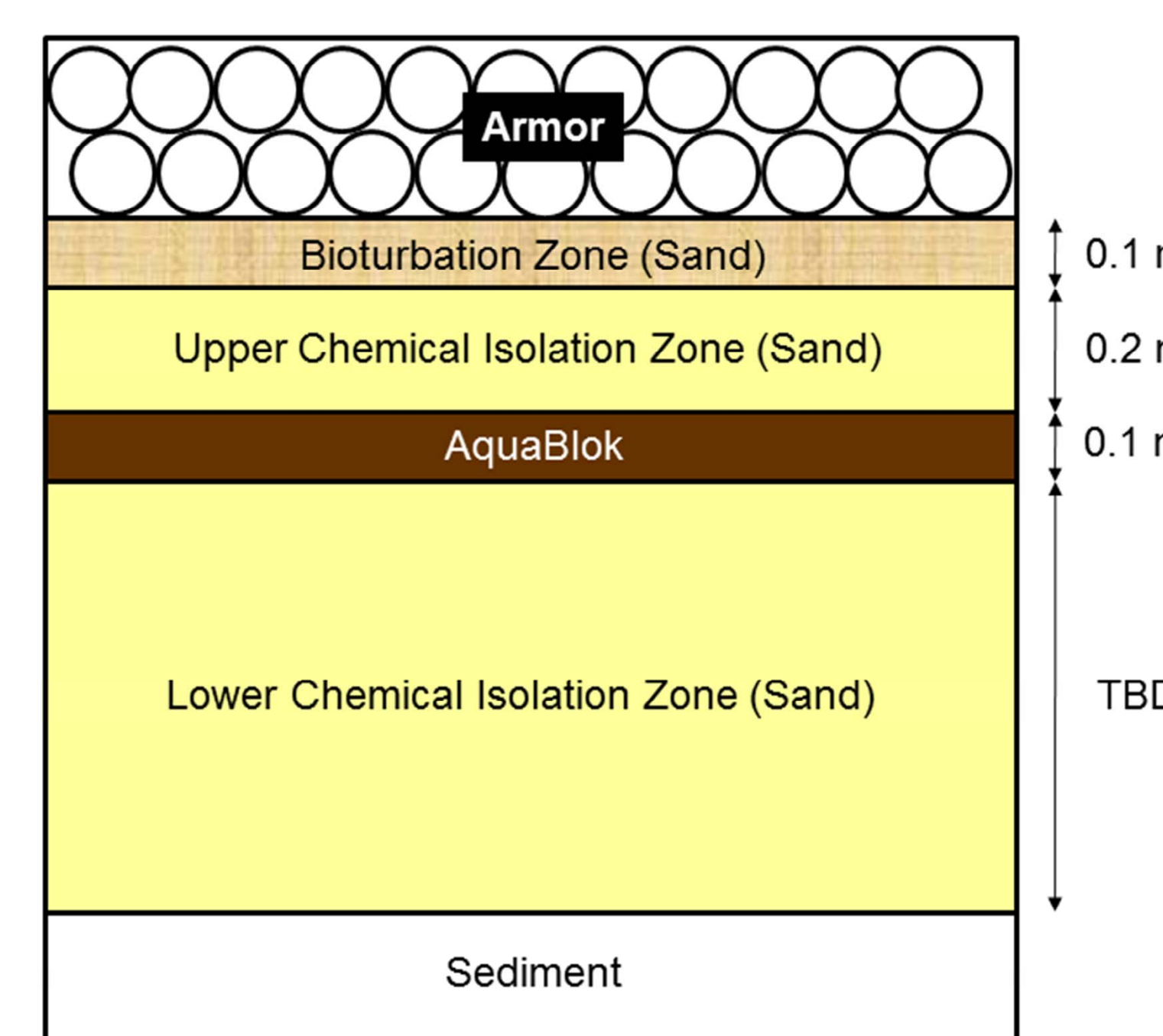


Background

- Naphthalene present in sediments below cap (up to 2 mg/L after dredging)
- Risk-based MCL for Naphthalene: 0.044 mg/L
- AquaBlok cap proposed

Goal: To design thickness of lower isolation layer in cap to ensure risk-based MCL achieved at compliance point.

Cap Design

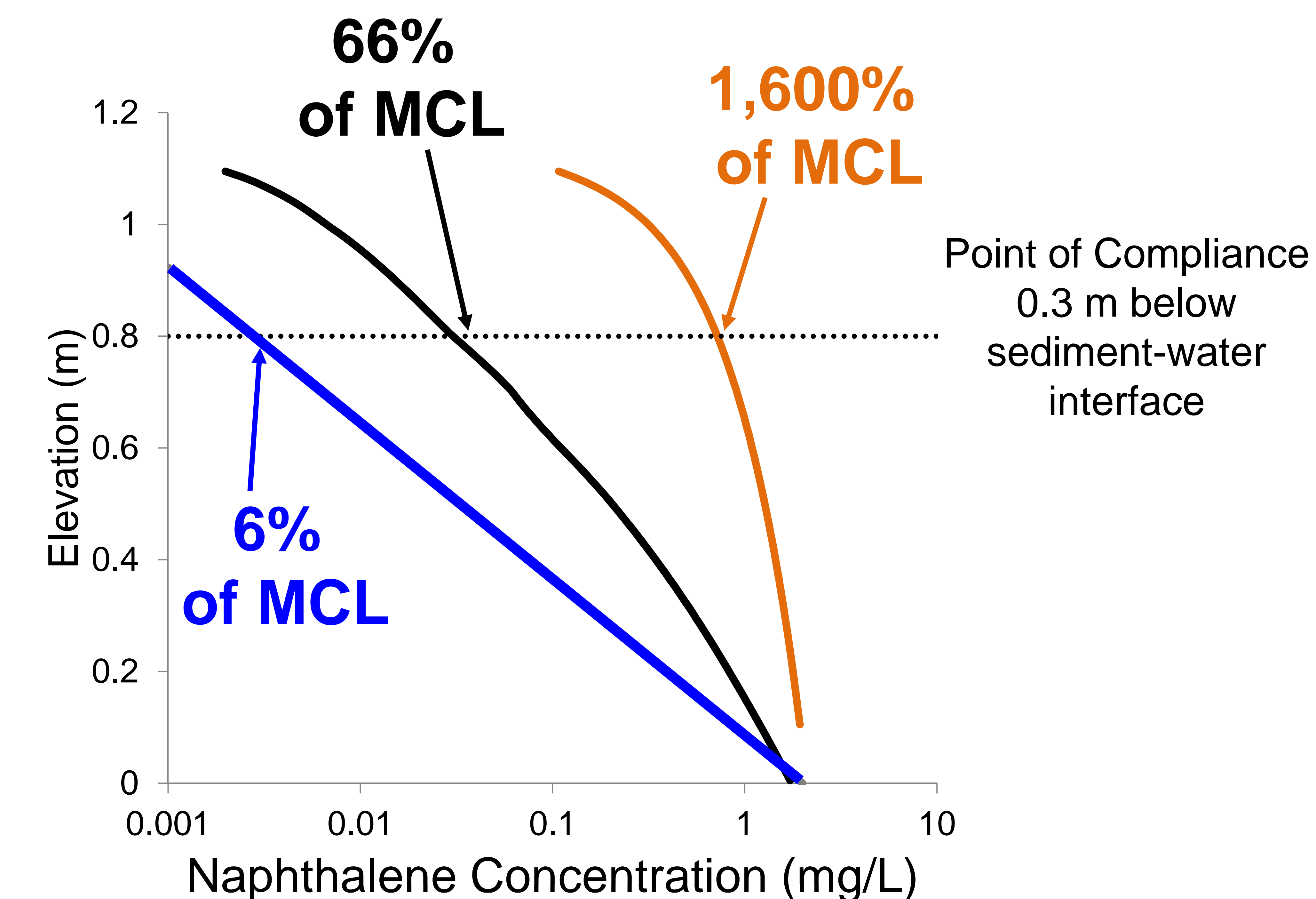


Approach

1. Will sand cap be protective?
2. AquaBlok™ cap:
 - Simple diffusion model first
 - Verify results with numerical tidal pumping model
 - Re-design cap thickness if required

Results

1. One-meter sand cap: Not protective
2. AquaBlok™ diffusion model: 0.4 m layer
3. AquaBlok™ tidal model: 0.7 m layer



Conclusions

- Little attenuation in sand cap
- Tidal pumping needs to be modeled for site-specific AquaBlok™ cap design
- Lower isolation thickness of 0.7 m to meet risk-based MCL at compliance point
- Consider influence of armor sedimentation on cap design
- Buffer zone at edge of cap to mitigate horizontal transport