

AGENDA: PERF REMEDIATION WORKSHOP
SEPTEMBER 9 & 10, 2009 Houston, Texas
Chevron Briarpark Facility (3901 Briarpark)

Wednesday September 9, 2009

7:30 Meeting Check-In/Packet Pickup and Continental Breakfast

8:00 Meeting Opening – Todd Ririe, PERF Chair

BP/CVX Welcome and Opening Presentation – Greg Hussman, Manager, Remediation-Engineering Technology, Remediation Management, BP; and Roland Bory, Chevron Energy Technology Company, Chevron

8:30- 9:30 Review and Update from Fall Remediation Workshop: Ravi Kolhatkar Chevron

9:30-9:50 Break

Constructed and Restored Wetlands & Phytoremediation

9:50-10:50 Jim Myers and Jerry Hall, Chevron: **Wetland Remediation Applications in Chevron**

- **Lower Neches Wildlife Management Area (LNWMA) Marsh Restoration Project.**
- **Cincinnati Facility Treatment Wetland/Vernal Pool Project.**
- **Section 7 Beneficial Reuse Cover Project.**

10:50-11:30 David Tsao, Remediation Management, BP

Broad Applicability of Constructed Treatment Wetlands and Phytotechnologies

Although limited to shallow depths, one of the main advantages of phytotechnologies and constructed treatment wetlands is their broad applicability in terms of constituents that can be treated and the media that is impacted. Several case studies will be presented demonstrating this broad applicability including wetland systems treating surface water and/or groundwater impacted with petroleum products, chlorinated solvents, and/or inorganic constituents, and upland phytoremediation systems attenuating gasoline/oxygenates,

chlorinated compounds, and/or other chemical industry products impacting soil and groundwater. Furthermore, the ability of plants to evapotranspire water provides an added applicability for phyto-hydraulic control and containment. Finally, the proliferation of roots into the vadose zone also creates a "living biowall" that can potentially absorb and treat soil gases.

11:30-12:15, Professor John H. Rodgers, Jr., Clemson University

Academic/research perspective on treatment wetlands with an emphasis on the design of pilot studies

12:15- 1:00 Lunch

Assessment, Design & Remediation of Contaminated Sediments

1:00-1:45 Ian Webster, Project Navigator, Ltd.

Overview of contaminated sediment environmental issues; Magnitude of the Challenge

1:45-2:15 Will Gala, Chevron Energy Technology Company

Oil company perspective on contaminated sediments

2:15-2:45 Clay Patmont, Anchor QEA

Data and design challenges at contaminated sediments sites

2:45-3:15 Professor Danny Reible, University of Texas - Austin

The use of “reactive caps” in contaminated sediments management

3:15-3:40 Break

3:40-4:15 Discussion on PERF projects for each topic-breakout sessions

4:15-4:30 Finalize discussion (opportunity to switch sessions)

4:30 Report out to group

5:00 Close of First Day

6:30 Reception and Dinner Sponsored by BP – Yao Mings Restaurant

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Thursday September 10, 2009

7:30 Continental Breakfast

8:00 Meeting Opening – Todd Ririe, PERF Chair

Current Practices for Soil Gas Sampling

**8:15-9:00 Overview of Topic and BP Approach, Todd Ririe,
Remediation Management, BP**

9:00 Shell Approach, George DeVaul, Shell Global Solutions, Shell

**9:30 CVX Approach, Ravi Kolhatkar, Energy Technology Company,
Chevron**

10:00 Break

10:20 XOM Approach, Speaker to be confirmed

**10:50 COP Approach, Pete Spicer, Risk Management and Remediation,
ConocoPhillips**

11:20 Discussion

11:45 Conclusion of Workshop