REMEDIATION ROUNDTABLE

April 12, 2011



BUREAU OF WATER PROTECTION AND LAND REUSE

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

ROUNDTABLE PROCEDURES AND MECHANICS

REMEDIATION ROUNDTABLE

- An open forum for the exchange of ideas and information on CT's Remediation Programs
- □ Bi-monthly (every two months) on 2nd Tuesday
- □ Next meeting: June 14, 2011
- Schedule and agenda on website
 www.ct.gov/dep/remediationroundtable
- May submit topic suggestions to Camille Fontanella at <u>DEP.remediationrondtable@ct.gov</u>

REMEDIATION ROUNDTABLE

GROUND RULES

- Your involvement and constructive, creative ideas will make this a success
- Agenda items may include program proposals and updates, training, field/implementation issues, and regulatory application
- Specific sites/cases will not be addressed
- Be respectful of time constraints
- Agendas will be shaped by your suggestions

FUTURE AGENDAS

SURVEY

- First Survey is on the web!!!
 - www.ct.gov/dep/remediationroundtable
- 14 topics generated by written comments you submitted
- Let us know...
 - Which are most important to you?
 - Which ones would be suitable for agenda topic?
- Posted through May 10
- □ 70 completed survey so far



TODAY'S AGENDA

PROPOSED ITEMS

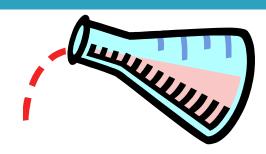
- RCP and DQA/DUE Guidance Documents Updates
- □ Future Guidance
- Announcements
- Public Participation
 - Feedback on Evaluation of Cleanup Programs baseline paper
 - First Breakout Group

REASONABLE CONFIDENCE PROTOCOLS GUIDANCE



RCPs GUIDANCE

BACKGROUND



- RSRs use numeric criteria
- Analytical data may be biased, need to understand the quality of the analytical data to make decisions that are based on data of known and sufficient quality
- RCPs make it easier to obtain analytical data of known quality

RCPs GUIDANCE

Clarifications were made to the Preamble:



- RCPs are one way to obtain analytical data of known quality
- Developed to facilitate both EP evaluation and DEP review

RCPs GUIDANCE

BENEFITS OF USING RCPs:

- Consistency in evaluation and presentation of data quality information that will facilitate review
- For non-RCP procedures, DEP will ask how the analytical data is of known and documented quality

Use of non-RCP methods may involve a commitment of additional resources

RCPS QUESTIONS / COMMENTS

www.ct.gov/dep/remediation



THANK YOU FOR PARTICIPATING!

DATA QUALITY ASSESSMENT/DATA USABILITY EVALUATION GUIDANCE



DQA/DUE GUIDANCE

Now that there is data of Known Quality...



- Describes a CTDEP- accepted, two-step process for data evaluation using the PARCCS parameters
- PARCCS Parameters = precision, accuracy,
 representativeness, comparability, completeness and
 sensitivity

DQA/DUE GUIDANCE

Clarifications were made to the Preamble:



- One approach for evaluating analytical data in relation to its intended purpose
- Developed to facilitate both EP evaluation and DEP review

DQA/DUE GUIDANCE

BENEFITS OF USING DQA/DUE:



- Provides consistency in evaluation and presentation of data quality information that will facilitate review
- An alternative process should be documented in order to explain the thought process
 - May involve a commitment of additional resources

DQA / DUE QUESTIONS / COMMENTS

www.ct.gov/dep/remediation



THANK YOU FOR PARTICIPATING!

FUTURE GUIDANCE



AUDIT METRICS

- □ Verifications received = 504
- Verifications that were not audited or that passed audit = 87%
- Verifications that did not pass / more work required before re-verification
 - = 13%

FUTURE GUIDANCE

GUIDANCE DOCUMENTS IN PROGRESS INCLUDE:

- Technical Impracticability
- Alternative Groundwater Monitoring Plan
- □ Targeted Brownfield Remedy
- In-situ Chemical Oxidation
- VPH/EPH
- ELUR

- Filtering GroundwaterSamples
- Soil Vapor Sampling
- Well Construction and Design
- Low Flow Sampling Procedures
- Indoor Air Sampling
- Calculating the 95UCL

FUTURE GUIDANCE

Which of the future guidance documents under development are most important to you?

Please send your suggestions for other guidance to

dep.remediationroundtable@ct.gov

FUTURE GUIDANCE QUESTIONS / COMMENTS

www.ct.gov/dep/remediationroundtable



THANK YOU FOR PARTICIPATING!

ANNOUNCEMENTS



LEE SUAREZ, MAURICE HAMEL, AND PETER HILL

IN-SITU REMEDIATION COURSE

- May 10, 2011 EPOC
- Potentially on May 17, 2011 and Fall 2011

Seminar objectives:

- To provide environmental professionals with an understanding of the primary issues that should be considered before undertaking remediation that includes subsurface injection
- To provide insight into DEP's expectations regarding requests for authorization of these injections

IN-SITU REMEDIATION COURSE

SPECIFIC TOPICS:

- Overview of Primary In-Situ Remediation Technologies
- Chemical Principles Associated with Technology
- Site Characterization for Remedial Alternatives
 Evaluation and Implementation
- Pre- and Post-Remediation Monitoring
- Regulatory Aspects of In-Situ Remediation in CT
- Work plan and Common Design Elements
- Case Studies and Discussions

TECHNICAL IMPRACTICABILITY

■ Workgroup update



ETPH AND EPH/VPH FORMS



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER PROTECTION AND LAND REUSE
REMEDIATION DIVISION
79 ELM STREET, HARTFORD, CT 06106-5127

DEP USE ONLY (Date Stamp)

REQUEST FOR APPPROVAL FOR USA ASSOCIATED CRITERIA AS AN AD

(860) 424-3705 www.ct.gov/dep/remediation

ETPH METHOD AND CLLUTING SUBSTANCE

In accordance with RCSA Section 2 through k-3 (RSRs)

Please complete this transmittal form to services (RCSA), for use of the Exhibit Agencies (RCSA), for use of the Exhibit Agenc

lest (Commissioner's approval, as required pursuant to the high k-3 (RSRs) of the Regulations of Connecticut State Hydrocarbons (ETPH) methodology and criteria listed below, the Departments of Public Health and Environmental Protection.

The use of this form will expedit appropriately the stablished methodology and criteria. Upon approval, this form will be returned to the sender such approval. If an alternative methodology and/or criteria is proposed, it should be submitted using the "Appropriate or Notice Transmittal Form" along with all information required by the applicable paragraph(s) in the RSRs to each proposed criteria.

All sections of this form must be filled out, as applicable.

Check the box to indicate the program for which this form is being submitted:
Connecticut General Statutes (CGS) section 22a-134a(a)-(e), Property Transfer Program
☐ CGS section 22a-133x, Voluntary Remediation Program
☐ CGS section 22a-133y, Voluntary Remediation Program
Other (specify)

ETPH AND EPH/VPH FORMS

"I hereby request approval, in accordance with Sections 22a-133k-2(b)(4), 22a-133k-2(c)(5),and/or 22a-133k-3(h) of the RCSA, to use the analytical method titled "Analysis of Extractable Total Petroleum Hydrocarbons (ETPH) Using Methylene Chloride Gas Chromatograph/ Flame Ionization Detection", approved by the Connecticut Department of Public Health on June 22,1999, together with the criteria listed in the tables below for petroleum hydrocarbons in soil and/or groundwater as additional polluting substances at the location identified above. I understand that the use of the "State of Connecticut Department of Environmental Protection, Recommended Reasonable Confidence Protocols, Quality Assurance and Quality Control Requirements for Extractable Petroleum Hydrocarbons, by the State of Connecticut, Department of Public Health ETPH Method" (July 2006) will provide analytical data of known quality."

Check the box indicating the criteria for which approval is requested (sel o teria must correspond to the groundwater classification of the site):

	Residential Direct Exposure Criteria	Industrial/Commercia Direct Expos	tection	GA Pollutant Mobility Criteria	GB Pollutant Mobility Criteria
	(mg/kg)	Criteria (mg/	Cri (mg/l)	(mg/kg)	(mg/kg)
Criterion (using ETPH method)	5 00	500	0.1	□ 500	2,500

Criteria (mg/l)	GB Pollutant Mobility Criteria (mg/l)
Criterion (using ETPH-SPLP method) 0.1	□ 1.00

Signature of Person Requesting Approval

Signature	Date
 Printed Name of Signatory	Title (if applicable)

ETPH AND EPH/VPH FORMS

Section Below Reserved for DEP

The Request is hereby	
degree of pollution or have not successfully abated or preven proceeding, or take any action to require further investing of approval applies only to the methodology and criteria identification.	e any proceeding, or take any action to to impose penalties for violations of law. not fully characterized the extent and the Commissioner may institute any ner action to prevent or abate pollution. This sheet. In addition, nothing in this approval shall ate and local law.
Patrick F. Bowe Director Remediation Division	Date
Bureau of Water Protection and Land Reuse If disapproved, rationale:	

ANNOUNCEMENTS QUESTIONS / COMMENTS

www.ct.gov/dep/remediationroundtable



THANK YOU FOR PARTICIPATING!

PUBLIC PARTICIPATION

Discussion of Agenda Items

Your feedback on baseline paper

Breakout Group on Topics and Logistics

TAKE 20 FOR BRAINSTORMING ON:

- □ Topic Suggestions
 - Specific, focused topics
- Logistics
 - Number of people per group
 - Time needed for discussion

REPORT OUT!





IDEAS FROM OTHER FORUMS:

- □ Solid Waste Advisory Committee www.ct.gov/dep/SWAdvComm
 - DEP-lead subcommittees both outside advisory meeting and during last half of Advisory meeting
 - Monthly report outs
- □ Hazardous Waste Advisory Committee <u>www.ct.gov/dep/hwac</u>
 - Independent committees outside of advisory meeting
 - Quarterly report outs
- □ State Implementation Plan Revision Advisory Committee www.ct.gov/dep/siprac
 - Sub-committees form as needed when topic arises

DEP FACILITATOR

- □ Break the Ice initiate conversation
- □ Identifies Notetaker
- Keep the Conversation on Track
- Be Mindful of Time
- Neutral Observer / Coach
- □ Identifies Reporter

REPORT OUT



PUBLIC PARTICIPATION

□ Ideas for agenda items at future meetings

□ General Questions



THANK YOU!

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Next Roundtable: June 14, 2011

