REMEDIATION ROUNDTABLE

June 14, 2011





Bureau of Water Protection and Land Reuse Connecticut Department of Environmental Protection

ROUNDTABLE MECHANICS



CAMILLE FONTANELLA

REMEDIATION ROUNDTABLE

- An open forum for the exchange of ideas and information on CT's Remediation Programs
- Next meeting: September 13, 2011
- Schedule and agenda on website <u>www.ct.gov/dep/remediationroundtable</u>
- Submit comments to Camille Fontanella at DEP.remediationrondtable@ct.gov

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

TODAY'S AGENDA

- Survey Says!
- Criteria
 - Criteria LEAN Report Out
 - ETPH and EPH/VPH Update
 - Volatilization Criteria
 - 2005 List of Criteria
- Brownfields Package
- Targeted Brownfields Remedy
- Visioning Session: Comprehensive Evaluation
- Public Participation
 - Establish Workgroups

ROUNDTABLE SURVEYS



CAMILLE FONTANELLA

SURVEY RESULTS: AGENDA TOPICS

- 14 topics generated by written comments you submitted
- 91 of you let us know which agenda topics are most important to you
 - 83% environmental professionals
 - 14% legal professionals
 - 2% laboratory professionals
 - 1% business professionals



SURVEY RESULTS: AGENDA TOPICS

- Results are posted on website
 www.ct.gov/dep/remediationroundtable
- Top three rated topics
 - Characterization of fill, asphalt, and pesticides
 - Property Transfer compliance at older sites
 - Verifications
- Future agendas, breakout groups, and workgroups will be shaped by these results

NEW SURVEY: GUIDANCE TOPICS

- 15 guidance topics generated by comments you submitted
- Survey link is on the website!!!
 www.ct.gov/dep/remediationroundtable
- Let us know...Which guidance documents are most important to you?
- Posted through July 19



NEW SURVEY: GUIDANCE TOPICS

Demonstration of Background	Expedited Site Assessment
Alternative Groundwater Monitoring Plan	Soil Vapor Sampling
Ecological Risk Assessment	EPH/VPH Analysis
Monitored Natural Attenuation	RCRA Corrective Action
Well Construction and Design	Indoor Air Monitoring
Significant Environmental Hazards	95% Upper Confidence Limit
Verifications for Release Area/Portion/Interim	Soil Reuse
Urban Fill	

SURVEY QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



CRITERIA



CRITERIA LEAN EVENT REPORT OUT



TRACI IOTT

- Mini-Kaizen on March 3-4, 2011
 - Intensive team effort to take apart process and put back together in a better way
 - 1. Flow Diagram current process steps and timeframe from receipt of request to resolving request
 - 2. Identify waste (non-value added steps)
 - 3. Brainstorm --what does "good" look like?
 - 4. Flow Diagram future process maximize reduction of steps and time while satisfying customer needs
 - 5. Develop Implementation Plan establish 2-month, 6-month, 12-month goals
 - 6. Identify Key Performance Indicators = Metrics

- Who: Staff of DEP's Remediation and Planning and Standards Divisions
- Purpose: Identify and implement improvements to the Additional Polluting Substance and Alternative Criteria request process

Additional Polluting Substances Future State

o 3 choices for requesting criteria:

EASY/ QUICK

review

1. APS Criteria List (best current criteria per DPH) where no 1996 RSR criteria exist to be posted on website

2. DEP "calculator" with formulas for calculating APS to be posted on website OR

3. Your own method of proposing APS per RSRs

Choice 1. APS Criteria List

 Goal: Provide a single list of APS criteria (where no RSR criteria exists) from which individual criteria can be requested for use on a site-specific basis

• Benefits:

- No calculation required
- Simple submittal form for approval
- Review by Remediation Division only
- Fastest option

Choice 1. APS Criteria List Implementation Plan

- Removal of inaccurate or confusing information currently on the website Status: Completed
 - Removed "2005" criteria table and Vinyl Chloride memo from website
 - Updated ETPH information on website

- Choice 1. APS Criteria List
 Implementation Plan (continued)
- DEP/DPH review of criteria (draft 2008) to ensure toxicity values still current Status: P&S working with DPH
- Post APS list on website
 Status: To occur upon DPH approval
- Provide simple form for requesting use of individual criteria from APS list Status: In development

Choice 2. DEP Calculator

 Goal: Provide formulas DEP recommends for calculating DEC, PMC, GWPC, SWPC, VolC and links for toxicity values

• Benefits:

- No calculation required plug and chug
- Minimize calculation errors
- Easy to access calculator and toxicity links on website
- Allows for expedited review and approval

Choice 2. DEP Calculator
Implementation Plan

- Finalize CalculatorStatus: In progress with P&S
- Post Calculator and Toxicity Links on website

Status: To occur when calculator complete

Choice 3. Your Own Method

 Goal: Provide flexibility for LEPs to request APS derived by other means currently allowable under the RSRs

• Benefits:

 Consideration of other methods to derive site-specific APS

Alternative Criteria

- LEAN team focus was on APS Process
- Implement APS changes
- Evaluate whether similar process could be applied to alternative criteria request process

Other Criteria LEAN team goals Implementation Plan

 Assess and resolve current backlog of criteria requests
 Status:

- Assessed Remediation Division backlog
- Improving databases between two Divisions
- Drafted format letter to close old requests
- Drafted internal SOPs for tracking new requests

Other Criteria LEAN team goals (cont'd) Implementation Plan

 Provide revised ETPH and EPH/VPH criteria and form to expedite approval Status: In progress - update by

Rob Robinson

STAY TUNED FOR...

- Public Outreach on Risk-Based Criteria outside Roundtable format
- Tentatively scheduled Fall 2011
- Public Discussion and opportunity for Public input on deriving Risk-Based Criteria
 - RSR criteria and Water Quality Criteria

CRITERIA LEAN EVENT QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



ETPH AND EPH/VPH



ROBERT ROBINSON

ETPH and EPH/VPH

- Two choices for making a criteria request:
 - 1. develop own criteria
 - 2. use new forms
- Two new forms for fast-tracked approval

REQUEST FOR APPPROVAL FOR USE OF ETPH METHOD AND ASSOCIATED CRITERIA AS AN ADDITIONAL POLITING SUBSTANCE

In accordance with RCSA Sections 22a-133k-1 (k-3 (RSRs)

Please complete this transmittal form to submit a request for the Remediation Standard Regulations, Sections 22a-133k-1 thro (RSRs) Regulations of Connecticut State Agencies (RCSA), for use of the Extractable Total Petroleum which have been pre-evaluated by the Commissioners the Description.

The use of this form will expedite the approval property of the est, and methodology and criteria. Upon approval, this form will be returned to the sender to document such should be submitted using the "Approval to the applicable paragraph(s) in the RSRs to the applicable paragraph(s) in the RSRs to the applicable paragraph(s) in the RSRs to the applicable paragraph (s) i

All sections of this form must be filled ou
Check the box to indicate orgo this form is being submitted:
Connecticut General Sta (CC section 22a-134a(a)-(e), Property Transfer Program
☐ CGS section 22a-133x, Vo
☐ CGS section 22a-133y, Vol. vary Remediation Program
Other (specify)

ETPH AND EPH/VPH

- Criteria in forms
 - developed by P&S and DPH based on latest toxicity
 - DEC/PMC/GWPC/SWPC/VolC
- P&S preparing technical support document describing derivation of new criteria
- Remediation working on guidance for analysis and application (RCP revision)
- Changes to RSRs webpage www.ct.gov/dep/remediation

ETPH AND EPH/VPH FORMS QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



VOLATILIZATION CRITERIA



JAN CZECZOTKA

2003 Proposed Volatilization Criteria

- How they came to be
- DEP policy then...
- …and now Clarification of regulation
 - On website since April 2010
 - APS where no 1996 criteria exists
 - Alt criteria use whole list
- How to use the 2003 Proposed Criteria
 - Expedited approval
 - Until new Best List comes out

VOLATILIZATION CRITERIA QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



2005 LIST OF CRITERIA



ROBERT BELL

2005 LIST of CRITERIA

- Removed from website in March 2011
- Valid if already requested and DEP approved in writing
- Transition approach for applicable sites
 - Does NOT apply for those listed for site-specific use
 - ONLY applies for those listed approved state-wide

2005 LIST of CRITERIA

Conditions for Transition:

- Relied upon APS criteria on website
- Verification Imminent (submitted by September 2011) OR
- Investigation and RAP completed by March 2011 and significant progress in remediation by September 2011

2005 LIST OF CRITERIA QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



ANNOUNCEMENTS



ROBERT BELL, JAN CZECZOTKA, AND GRAHAM STEVENS

PROPOSED BROWNFIELDS LEGISLATION



ROBERT BELL

BROWNFIELDS LEGISLATION

- Status of Legislative Process
- Highlights of the law

BROWNFIELDS LEGISLATION QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



TARGETED BROWNFIELDS REMEDY



TARGETED BROWNFIELDS REMEDY

Remedy that:

- Reduces scale of investigation
- Evaluates potential risks to receptors
- Involves covering polluted soil
- Meets the RSRs and RCRA Closure
- For whole site or portion of site
- Applicable to certain sites

TARGETED BROWNFIELDS REMEDY

Eligibility:

- Applicant not subject to enforcement action for site clean-up
- Site is not in GA Area or APA
- Drinking water receptors connected to public water
- Area on which remedy to be used is surveyed
- Approval of Engineered Control and ELUR

TARGETED BROWNFIELDS REMEDY

- Off-site contamination must be addressed
 - Groundwater
 - NAPL
 - Vapor
 - Sediment
- Characterization in accordance with prevailing standards and guidelines to determine extent of migration

TARGETED BROWNFIELDS REMEDY

Details:

- Conceptual Site Model
- Polluted soil
 - Capped with EC + ELUR monitoring, maintenance, and financial assurance
 - Inaccessible + isolated beneath buildings
- Vapor sub-slab controls beneath buildings

TARGETED BROWNFIELDS REMEDY QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



COMPREHENSIVE EVALUATION AND TRANSFORMATION OF CT'S REMEDIATION PROGRAMS



GRAHAM STEVENS

COMPREHENSIVE EVALUATION

- Commissioner Esty has initiated a comprehensive evaluation and transformation of CT's cleanup program
- January 2011 DEP released a white paper providing baseline information on Connecticut's cleanup program
 - Summary of the current cleanup construct, past evaluations and changes to the program, and discussion on the opportunities for future improvement

COMPREHENSIVE EVALUATION

• Inclusive

 all stakeholders invited to engage and participate

TRANSPARENT

 information relative to this process will be available for all to access

THOROUGH

 evaluation and transformation will consider all laws that influence site cleanup in Connecticut

• TIMELY

 to be completed no later than December 15, 2011

COMPREHENSIVE EVALUATION

- All are invited to participate in formulating a shared vision for this transformation
- DEP will host this session on June 27th from 12:30 until 5:00 pm
- www.ct.gov/dep/remediation-transform will be used throughout this process to share information and solicit input

COMPREHENSIVE EVALUATION QUESTIONS / COMMENTS

THANK YOU FOR PARTICIPATING!

<u>www.ct.gov/dep/remediation</u>



PUBLIC PARTICIPATION

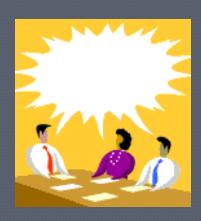
•Workgroups

• Discussion of Agenda Items



• Logistics:

- 12 people total per group
- 10 selected by lottery
 - E-mail and drop-box
 - Listserv notice of who was randomly selected
- Roles:
 - 2 DEP Sponsors (Facilitator and Resource)
 - Recorder
 - Reporter
- Kick-off meeting at DEP



• Variable timeframes (to occur between June and Sept) for setting up working group, discussion, and write up of recommendations/work completed

Report Out on each topic at September
 Roundtable

Topic 1. Urban Fill

- Activity: Provide recommendations for characterization and remedial strategies
- Timeframe: June-Sept 2011
 - Kick-off: June 20 / 10:00 11:30 am / DEP Conf.
 Rm. 2B
- DEP Sponsors:
 - Facilitator: Sandy Brunelli
 - Resource: Maurice Hamel

Topic 2. List of Contaminated Sites

- Activity: Provide recommendations / suggestions to update List and add to GIS coverage of sites in programs
- Timeframe: June-July 2011
 - Kick-off: June 22/10am -12pm/DEP Conf. Rm. 4B
- DEP Sponsors:
 - Facilitator: Christine Lacas
 - Resource: Kevin Neary

THANK YOU!

DEP.remediationroundtable@ct.gov

www.ct.gov/dep/remediationroundtable

Next Roundtable: September 13, 2011

