

IEC Technical Guidance Training

Andrew Sites, Mark Fisher, John Boyer September 2011





What are we going to cover?

- Overview of IEC Concept
- IEC Regulatory Process
- IEC Resources
- Vapor Intrusion Overview
- Case Studies
- IEC Program Status





IEC Concept Overview

Andrew Sites, NJDEP





IEC Guidance Committee Members

Christopher Dailey, GEI Consultants

Jeffrey Farrell, PS&S

Mark Fisher, The ELM Group, Inc., LSRPA

Bob Gallagher, DEP

Martin Hilfinger, Cumberland Gulf

Kathleen Murray, TERMS Environmental

Rocky Richards, DEP

Dan Stecchini, Groundwater & Environmental Services

Andrew Sites, DEP – Co-chairperson

Bruce Venner, DEP - Co-chairperson



 Contaminant source in the environment

Contaminant migration pathway

Impacted receptor





Three types of IECs

Potable wells

Vapor intrusion

Direct contact





Potable Water > Groundwater
 Remediation Standards

Vapor Intrusion > Rapid Action Levels

 Direct Contact > Acute Health Effect Levels





Basic IEC Concept

Delineate IEC problem

Remediate IEC problem

Remove source causing IEC problem





What is the IEC Process?

- Every IEC gets a Case Manager
- Expedited time frames for rapid response
- New cases go to IEC group
- Case Managers on existing cases will handle IECs
- LSRP/consultant must work with Case Manager
- Most work based on verbal approvals with email confirmation



- Written for basic types of IEC conditions and sensitive receptors
- Includes both rule and guidance: shall & should
- Frequent communications and information sharing with case manager is vital
- Time extensions can be requested





Rules and Guidance

- Technical Rules (shall)
 - Must comply with requirements of the rules

- Guidance (should)
 - Follow guidance but can use professional judgment with adequate justification





Regulatory and Mandatory Time Frames

- All regulatory time frames in Technical Rules
 - N.J.A.C 7:26E-1.14
 - Start date for regulatory time frames was 11/2009 for existing IECs and date of discovery for new IECs
- All mandatory time frames are in the ARRCS rule
 - N.J.A.C. 7:26C-3.3
 - The start date for mandatory time frame provisions was March 1, 2010 (existing sites)
 - All mandatory time frames are 2 years from the date of discovery of the IEC
- Time frame extension can be requested





How to get an extension of regulatory time frame?

Submit a Remediation Time Frame Extension Request form to the Case Manager or Bureau of Initial Notice 30 days <u>before</u> due date

- Provide rational for extension and new schedule
- If approved You will not receive a response
- If disapproved A rejection letter will be sent

Note: An extension of a regulatory time frame must not result in exceedance of a mandatory time frame



How to get an extension of mandatory time frame?

Submit a Remediation Time Frame Extension Request form to the case manager or Bureau of Initial Notice 60 days <u>before</u> due date

Provide rational for extension

- New schedule to complete work
- Department will provide a written response





Role of LSRP/RP & IEC Case Manager

- LSRP/RP
 - Address IEC by following rules and guidance
- IEC Case Manager
 - Oversight: Direct Billing to RP
 - Answer questions
 - Evaluate time extension requests
 - Evaluate deviation from guidance
 - Document progress or lack of progress
 - Initiate enforcement
 - Noncompliance: use public funds





Non-Compliance with Rules

- Case will be referred for enforcement
- DEP will use public funds for addressing receptors and conducting receptor delineation
- Refer LSRP to Licensing Board
- Enforcement against the responsible party
 - \$20,000 base penalty per violation



Significant Changes

- Current Technical Rules: February 2011
- IEC Information Submittal
 - 5 days extended to 14 days
- Regulatory: Source Control & Report
 - 270 days extended to 1 year
- Mandatory: Source Control & Report
 - 1 year extended to 2 years





Significant Vapor Intrusion Rule Changes

- Interim Response Action (VI ONLY)
 - 5 days extended to 14 days
- Trigger for VI IEC
 - Indoor air screening levels (IASL) changed to exceeding the Rapid Action Levels (RAL)
- Vapor Concern (VC) Case category created
 - trigger level > IASL and <RAL</p>





IEC Regulatory Process

Mark Fisher, The ELM Group, Inc.





Regulatory time frames

3 Categories of Regulatory time frames

- Potable & Direct Contact
- Vapor Intrusion
- Vapor Concern





IEC Regulatory Time Frames: Potable and Direct Contact

Immediately

Call the Hotline and case manager

5 days

Interim Response Action

14 days

IEC Information submittal

60 days

Engineered System Response

Receptor Delineation

120 days

 Engineered System Response Action Report

1 year

Source Control Report*





IEC Regulatory Time Frames: Vapor Intrusion

Immediately

Call the Hotline and case manager

14 days

 Conduct Interim Response Action & submit IEC information and form

60 days

Engineered System Response Action
 & Receptor Delineation

120 days

 Engineered System Response Action Report

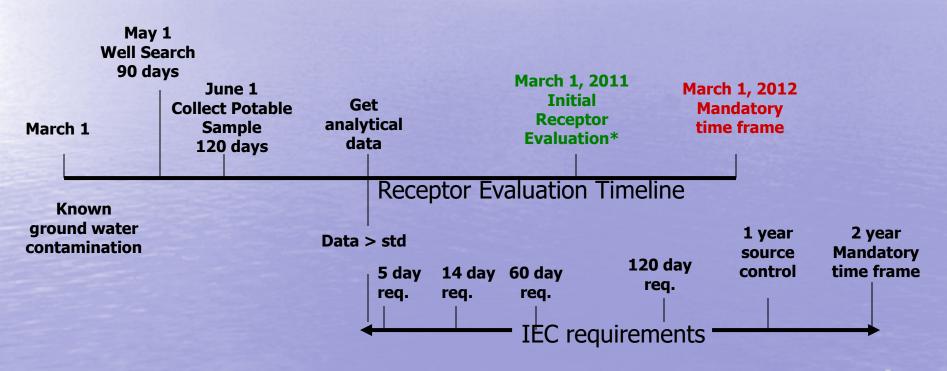
1 year

Source Control Report *





Receptor Evaluation Report Timeline with IEC – Potable water







Differences between VI and Potable Water/Direct Contact

- VI: Both Interim Response Action and IEC
 Information Submittal due in 14 days
- Potable Water/Direct Contact:
 - Interim response action due 5 days
 - IEC Information Submittal due 14 days
- All other time frames are similar





- Notify the HOTLINE
 - Must refer to case as an "IEC Case"
 - 1 (877) WARN DEP
- Notify case manager for assigned cases
- Notify HOTLINE for unknown source IEC





5 Day Requirements for Potable Water and Direct Contact IEC

- Complete interim response action
- Interim Response Action Examples
 - Bottled water (potable IEC)
 - Fencing (direct contact IEC)

Notify property owner, Twp., Health Dept



14 Day Requirements - Potable & Direct Contact Only

- Information Submittal
 - IEC Response Action Form
 - IEC Spreadsheet
 - Map of site and IEC condition
 - All analytical results with full data deliverables
- Submit paper copy & Email to Bureau Initial Notice and Case Assignment
- IEC Case manager assigned



14 Day Requirements - VI Only

- Complete interim response action
 - Notify property owner, Twp., Local Health Dept., & Dept. Health and Senior Services
 - Vent, seal cracks and sumps
- IEC Information Submittal
 - IEC Response Action Form
 - IEC Spreadsheet
 - Map of site and IEC condition
 - All analytical results with full lab data deliverables
- Submit paper copy & Email to Bureau of Case Assignment and Initial Notice (BCAIN)
- IEC Case Manager will be assigned





60 Day Requirements - All IECs

- Identify additional receptors (potable wells and structures)
 - Conduct sampling
 - Comply with notification requirements
- Complete Engineered System Response Action
 - POET or waterline connection
 - Sub-slab ventilation
- Verbal communication with IEC Case Manager is ongoing



120 Day Requirements - All IECs

Submit IEC Engineered System Response Action Report:

- IEC Response Action Form
- Receptor delineation & receptor control description
- IEC Spreadsheet with all IEC related data
- IEC Map
- GIS compatible map submission





1 Year Requirements - All IECs

- Complete delineation of IEC source
- Initiate source control

- Submit IEC Source Control Report
 - IEC Response Action Form
 - IEC Spreadsheet with all data
 - Map of IEC area
 - GIS compatible map submission
 - 31 Monitoring & Maintenance Plan





Vapor Concern - Regulatory Time Frames

14 days: Submit VC Response Action form

60 days: Submit Mitigation Plan

120 days: Implement Mitigation Plan

 180 days: Submit Mitigation Response Action Report



- Interim Vapor Concern Technical Guidance
- New Vapor Intrusion Guidance will replace
 VC Tech. Guidance
- VC cases will have a case manager
- VC Response Action Form





VC and IEC Differences

- IEC: Exceeds Rapid Action Levels (RAL)
- VC: Exceeds IASL and <RAL
 - No call to DEP Hotline
 - No time frame for Receptor Delineation
 - No time frame for Source Control
 - Must submit a Mitigation Plan
- Both IEC & VC have Case Managers





IEC Case Component Completed

- IEC case closed out in DEP Database no letter
- IEC case manager's involvement ceases
- Continue monitoring and maintenance (M&M)
- Submit future M&M reports to BCAIN not IEC case manager
- M&M plan incorporated into RAO permit





Questions?

(followed by 10-min Break)





IEC Resources

Andrew Sites, NJDEP





IEC Resources

- SRRA Guidance Library
- SRRA Forms Library
- Spreadsheet
- Sample Maps
- Sample letters to property owners
- Quick Reference Guide
- Contact List for Questions on LSRP



newjersey 1000 department of environmental protection

site remediation program

njdep home





About SRP

SRRA & LSRP

Community Relations

SRP Brownfields

SRP Rules

SRP Guidance Library

SRP Forms Library

Child Care Facilities

SRP Data

SRP Enforcement

Training & Tools

ISRA

UST

Info Sources

Index of Common Topics

Site Remediation Reform Act & Licensed Site Remediation Professionals Program

The Site Remediation Reform Act (SRRA) provides sweeping changes to the way in which sites are remediated in New Jersey. SRRA establishes a program for the licensing of Licensed Site Remediation Professionals (LSRPs) who will have responsibility for oversight of environmental investigation and cleanup.



(Click here)

More information

Mayors' Roundtable Event - June 15, 2011

The DEP and the New Jersey State League of Municipalities are hosting a Brownfields to Ballfields event, for mayors and

Find an LSRP



Become an LSRP

Would you like to receive SRP news? Give us your email address!

subscribe

i NJ State Privacy Notice

What's New

☑ Important Hazardous Discharge Site Remediation Fund (HDSRF) Notice

27 June 2011



SRP Guidance Library

- IEC Technical Guidance Document
- VC Technical Guidance Document

- Vapor Intrusion Guidance Document
- IEC spreadsheets
- GAC POET Specifications





Site Remediation Reform Act Guidance Library

Fees/Oversight Costs Guidance Document [Ver 1.0]	Web page
Free Product Removal	TBA
GIS guidance	Web page
Hazardous Discharge Site Remediation Fund Application Guidance	Web page
Immediate Environmental Concern (IEC) Guidance [Draft]	<u>PDF</u> 102 Kb
IEC - GAC POET Specifications	<u>PDF</u> 116 Kb
• IEC - Potable Water Spreadsheet [ver. 1.0]	Excel xls 37 Kb
• IEC - Vapor Intrusion Spreadsheet [ver. 1.0]	Excel xls 35 Kb
Issuance of Response Action Outcomes (RAO) [Ver. 1.1]	<u>PDF</u> 138 Kb
RAO Shell Document [ver. 1.1]	MS Word doc 77 Kb
Licensing of Proposed Child Care Centers	Web page
Light Non-aqueous Phase Liquid (LNAPL) Free Product Initial Recovery and Interim Remedial Measures [Draft ver. 0.0] NEW Until revised, use this draft document as the basis for proceeding with actions related to LNAPL Free Product. As part of stakeholder input, please provide any	

amments on this decument to arrayah@den atata ni us within the next 2 weeks



SRP Forms Library

- IEC Response Action Form
- VC Response Action Form
- Potable Well/Indoor Air Sampling Notification
 Form
- Full Laboratory Data Deliverable Form
- IEC spreadsheets
- Remediation Time Frame Extension Request





Site Remediation Reform Act (SRRA) Forms

7:26C-11.2		
7:26E-1.14	1.0	<u>PDF</u> 206 кь
	1.0	Excel xls 37 Kb
	1.0	Excel xls 35 Kb
7:26C-5	1.2	<u>PDF</u> 229 КЬ
7:26E-1.12	1.1	PDF 220 Kb
7:26C-2.3	2.2	<u>PDF</u> 193 КЬ
7:26C-13.4		
7:26B-6.1		
7:26E-1.4(e)	1.0	<u>PDF</u> 186 Kb
	1.0	Excel xls 42 Kb
7:26E-3.1 & 3.3	1.1	<u>PDF</u> 529 КЬ
7:26E-1.4	1.1	<u>PDF</u> 205 КЬ
7:26C-12.2		
7:26E-1.15	1.0	PDF 264 Kb
	7:26E-1.14 7:26C-5 7:26E-1.12 7:26C-2.3 7:26C-13.4 7:26B-6.1 7:26E-1.4(e) 7:26E-1.4(e) 7:26E-3.1 & 3.3 7:26E-1.4	7:26E-1.14 1.0 1.0 7:26C-5 1.2 7:26E-1.12 1.1 7:26C-2.3 2.2 7:26C-13.4 7:26B-6.1 7:26E-1.4(e) 1.0 1.0 7:26E-3.1 & 3.3 1.1 7:26E-1.4 1.1 7:26C-12.2



Potable well

Vapor Intrusion/Vapor Concern

Direct Contact



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		L.B. Jones LLC	Owner		Ridge Road	Anytown	02345		LBJONESLLC@ vei				
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Block	Lot	Date Provided	Туре	Provided by	Date	Control	POET Type	Monitoring Schedule
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12	Mary Myers	Occupant	3602	Highway 66	Anytown	02345	609 555-4566	Anytown Florist@A	6/1/				
	L.B. Jones LLC	Owner	26	Ridge Road	Anytown	02345	609 555-2592	LBJONESLLC@ ve	7/17/				
13	Greg Riso	Owner	3604	Highway 66	Anytown	02345	609 555-6921		7/8/				
14	Bill & Lori McKlane	Owner	3606	Highway 66	Anytown	02345	609 55-4445	Bmcklane@att.net	7/8/				
15	Jay McAfee	Owner	3608	Highway 66	Anytown	02345	609 555-7895		7/8/				
10	Susan Irving	Owner	120	Broad street	Anytown	02345	609 555-5656	Irving333 @verison.	net				
	PERTY ID Lot 12 13 14	LSRP NAME & LIC SPREADSHEET S Contaminant Sour PERTY ID Lot Name 12 Mary Myers L.B. Jones LLC 13 Greg Riso 14 Bill & Lori McKlane 15 Jay McAfee	LSRP NAME & LICENSE #: SPREADSHEET SUBMISSION Contaminant Source Location i PERTY ID Lot Name Relation 12 Mary Myers Occupant L.B. Jones LLC Owner 13 Greg Riso Owner 14 Bill & Lori McKlane Owner 15 Jay McAfee Owner	LSRP NAME & LICENSE # John B. E SPREADSHEET SUBMISSION DATE: Contaminant Source Location in State P	LSRP NAME & LICENSE #: John B. Expert, LSRP# 265 SPREADSHEET SUBMISSION DATE: 8/10/2010 Contaminant Source Location in State Plane Coordinates: PROPERTY OWNER/OC Lot Name Relation # Street 12 Mary Myers Occupant 3602 Highway 66 L.B. Jones LLC Owner 26 Ridge Road 13 Greg Riso Owner 3604 Highway 66 14 Bill & Lori McKlant Owner 3606 Highway 66 15 Jay McAfee Owner 3608 Highway 66	LSRP NAME & LICENSE #. John B. Expert, LSRP#26568 SPREADSHEET SUBMISSION DATE: 8/10/2010 Contaminant Source Location in State Plane Coordinates: X= PROPERTY OWNER/OCCUPANT INF Lot Name Relation # Street City 12 Mary Myers Occupant 3602 Highway 66 Anytown L.B. Jones LLC Owner 26 Ridge Road Anytown 13 Greg Riso Owner 3604 Highway 66 Anytown 14 Bill & Lori McKlane Owner 3606 Highway 66 Anytown 15 Jay McAfee Owner 3608 Highway 66 Anytown	LSRP NAME & LICENSE # John B. Expert, LSRP#26568 SPREADSHEET SUBMISSION DATE: 8/10/2010 Contaminant Source Location in State Plane Coordinates: X = 461,966	LSRP NAME & LICENSE #. John B. Expert, LSRP#26568 SPREADSHEET SUBMISSION DATE: 8/10/2010 Contaminant Source Location in State Plane Coordinates: X = 461,966 Y =	LSRP NAME & LICENSE #:				





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2		7/17/2010	Post Installation			PCE	ND			
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1	1122	12	6/22/2010	Bottled water	RP					Domestic Potable
2						7/15/2011	POET	GAC	Raw:1/yr, Trt:4/yr	
3									•	
4	1120	13	8/2/2010	Bottled water	RP					Domestic Potable
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Sample Maps

Sample of IEC Map

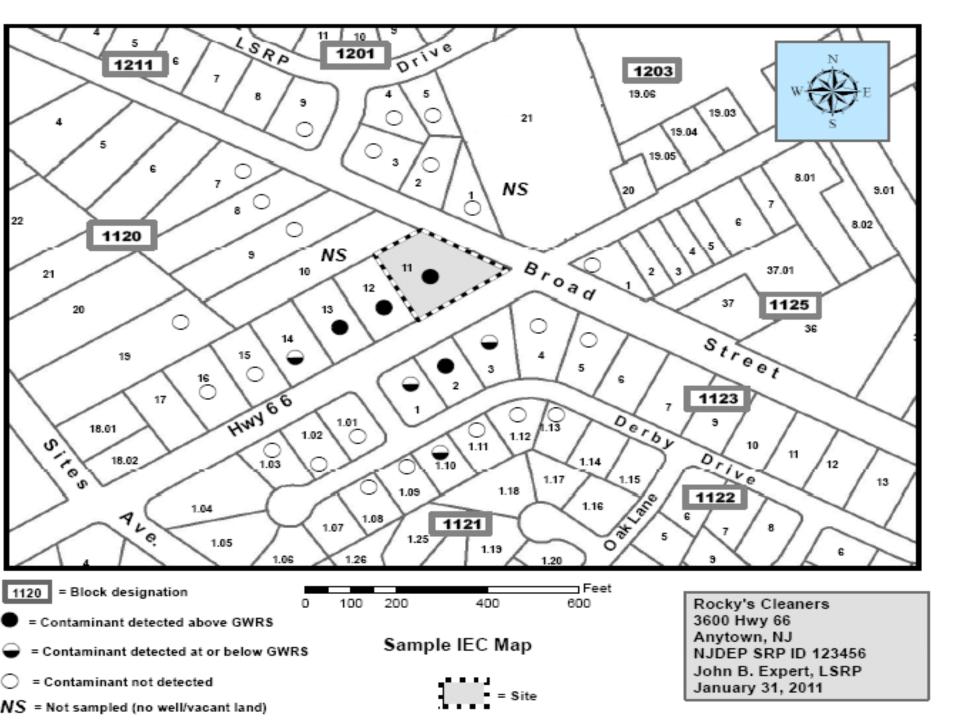
 Maps depicting receptor delineation process

 Maps showing Currently Known Extent (CKE) map delineation process



IEC Map Sample

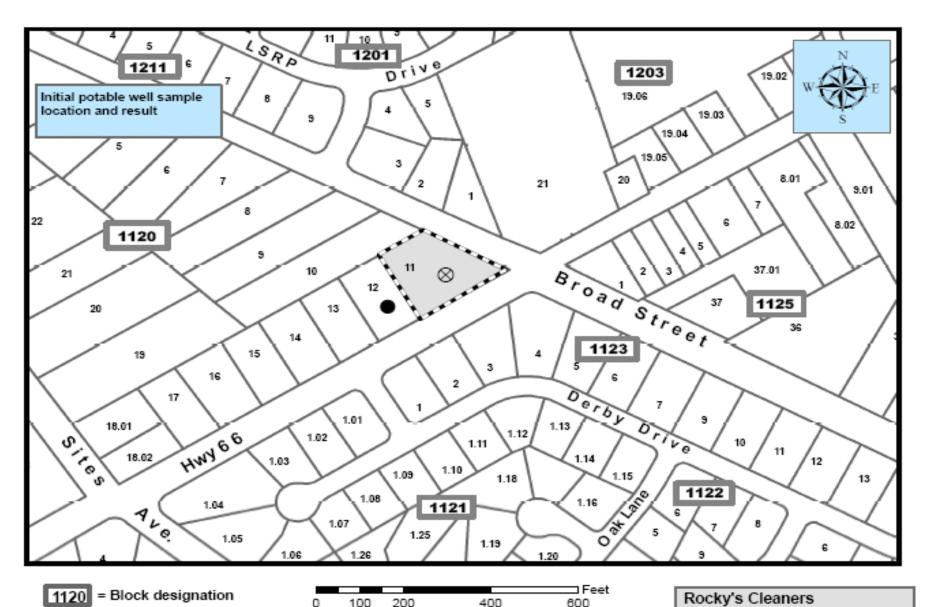


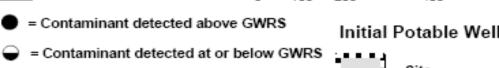




Receptor Delineation Sample Maps



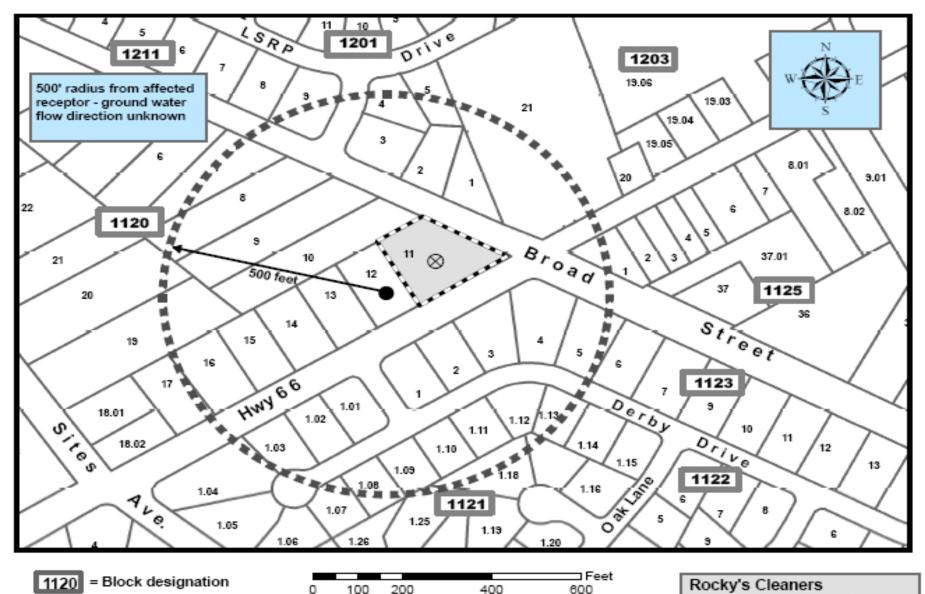




= Contaminant not detected

Initial Potable Well Sample

3600 Hwy 66
Anytown, NJ
NJDEP SRP ID 123456
John B. Expert, LSRP
January 31, 2011



= Contaminant detected above GWRS

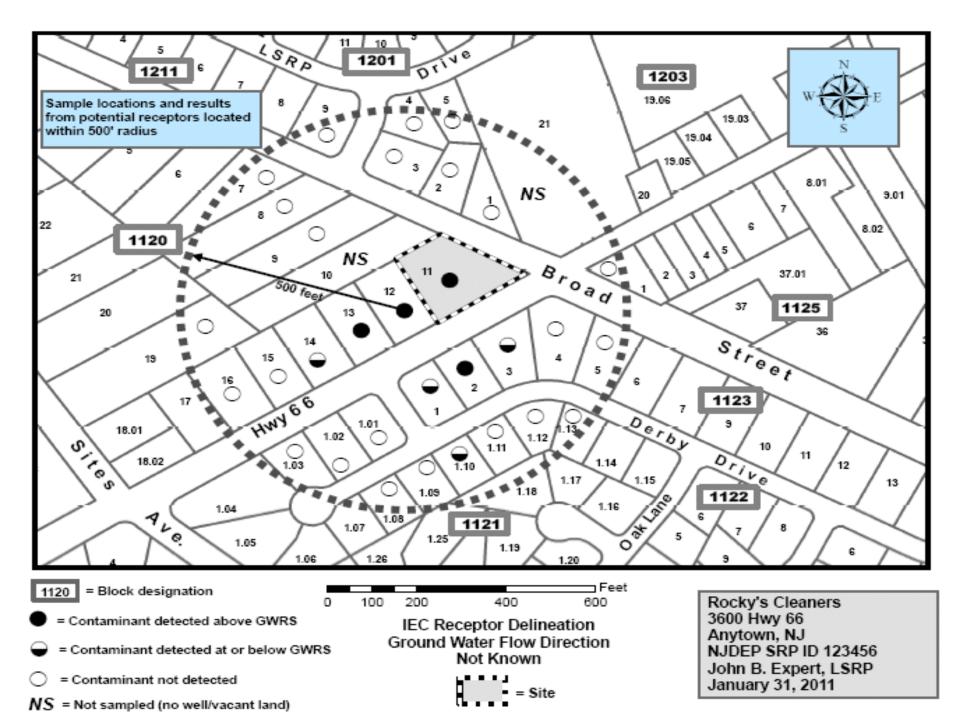
= Contaminant detected at or below GWRS

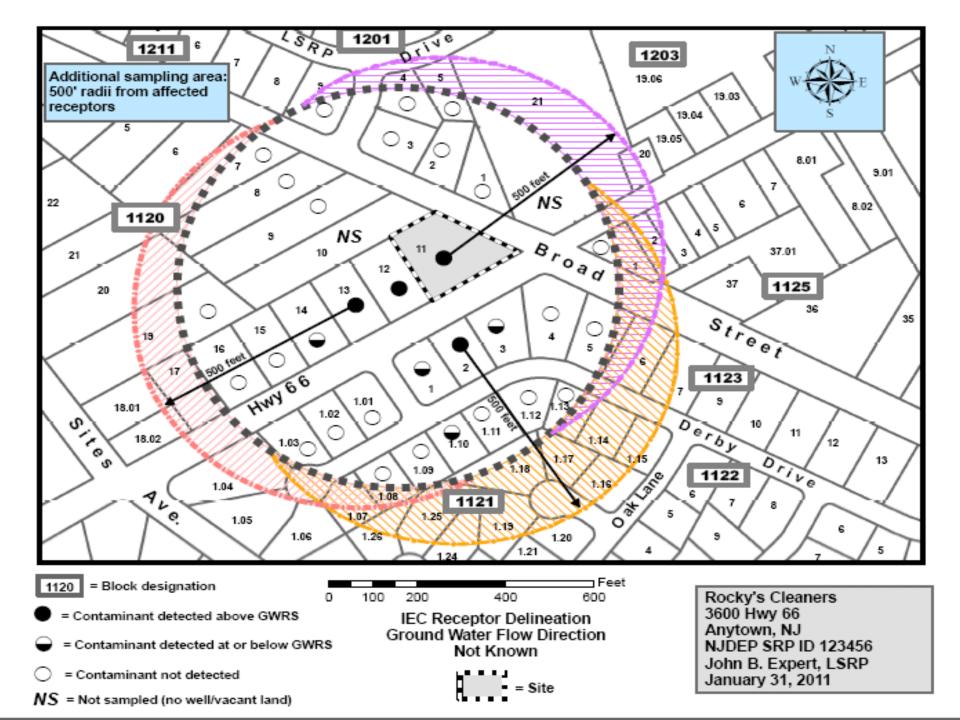
= Contaminant not detected

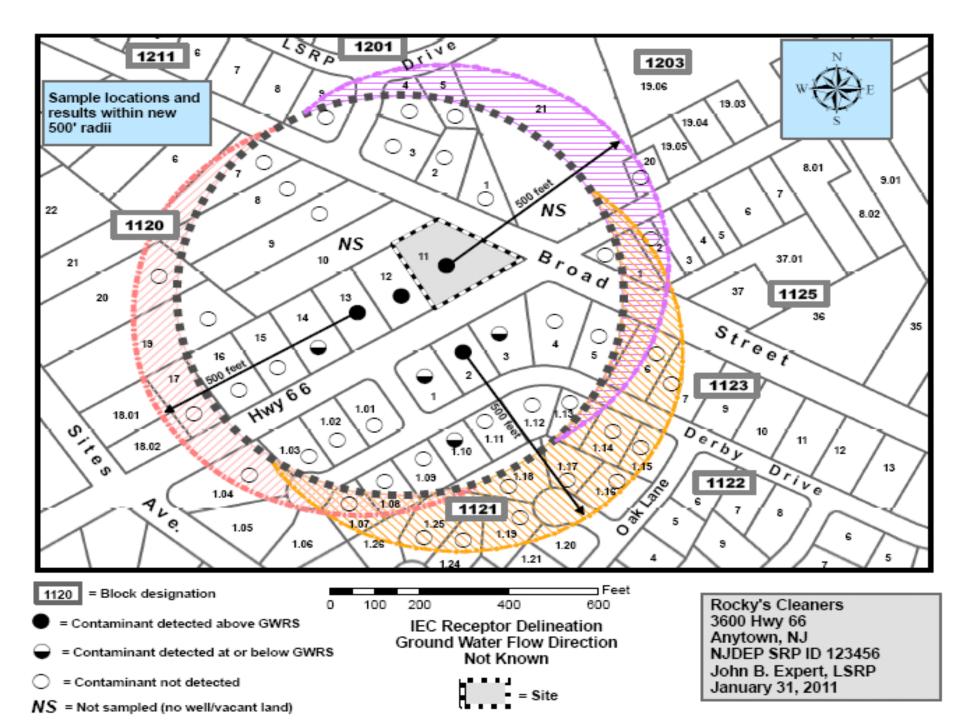
IEC Receptor Delineation Ground Water Flow Direction Not Known

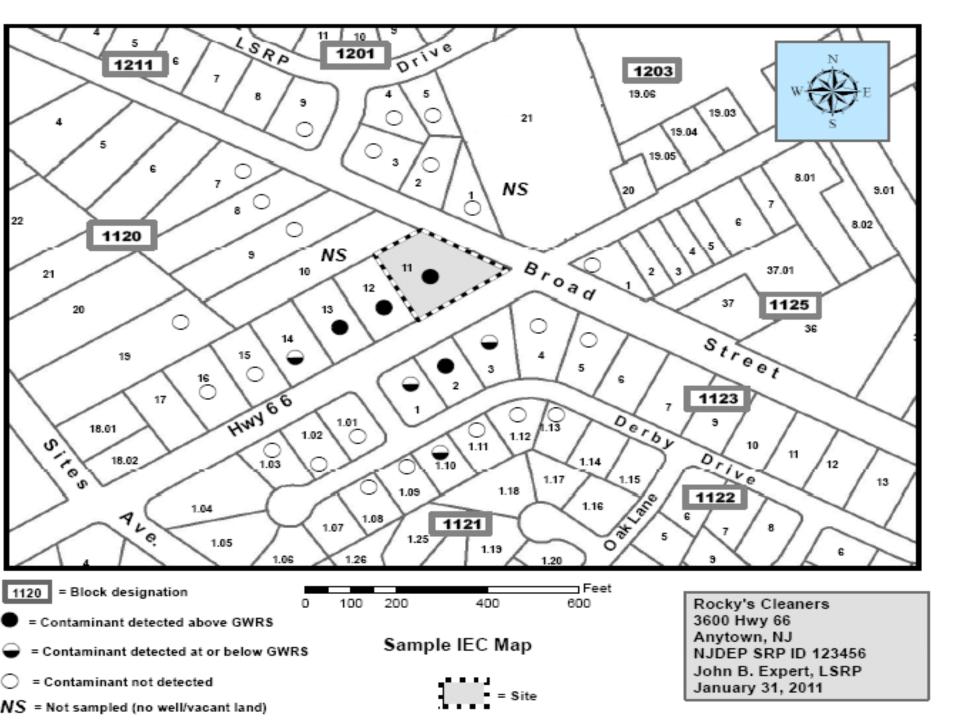
= Site

3600 Hwy 66 Anytown, NJ NJDEP SRP ID 123456 John B. Expert, LSRP January 31, 2011





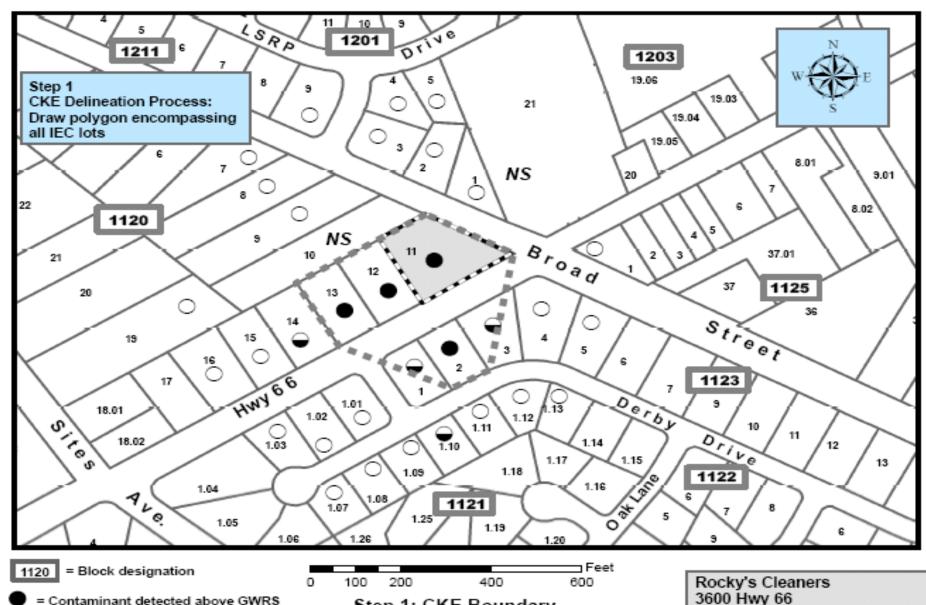






Currently Known Extent Area Mapping Example





 Contaminant detected at or below GWRS = Contaminant not detected

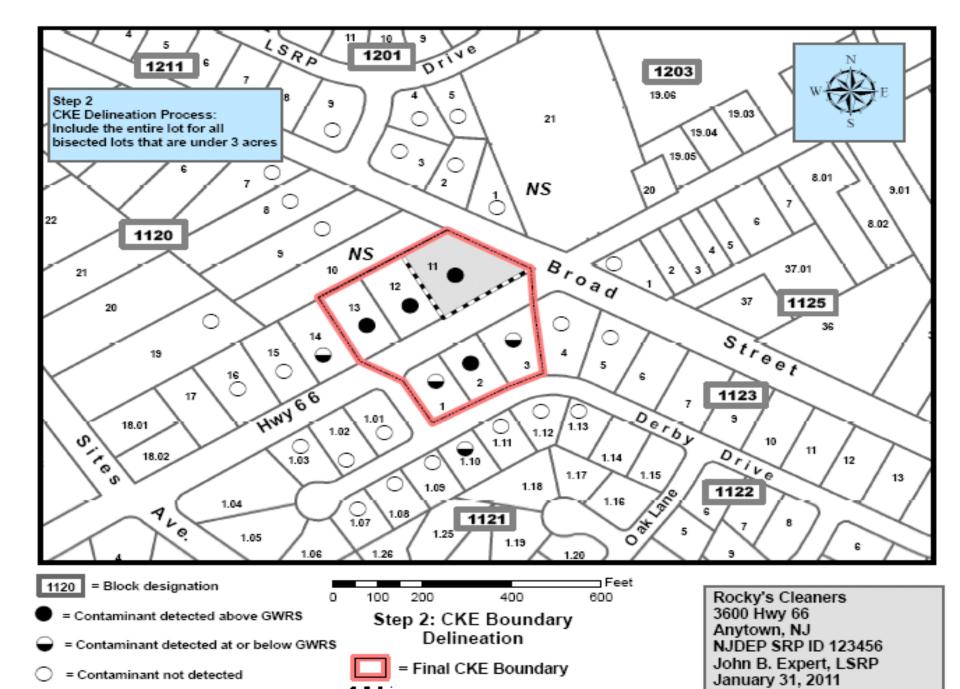
NS = Not sampled (no well/vacant land)

Step 1: CKE Boundary Delineation

= Initial CKE Boundary

= Site

3600 Hwy 66 Anytown, NJ NJDEP SRP ID 123456 John B. Expert, LSRP January 31, 2011



= Site

NS = Not sampled (no well/vacant land)



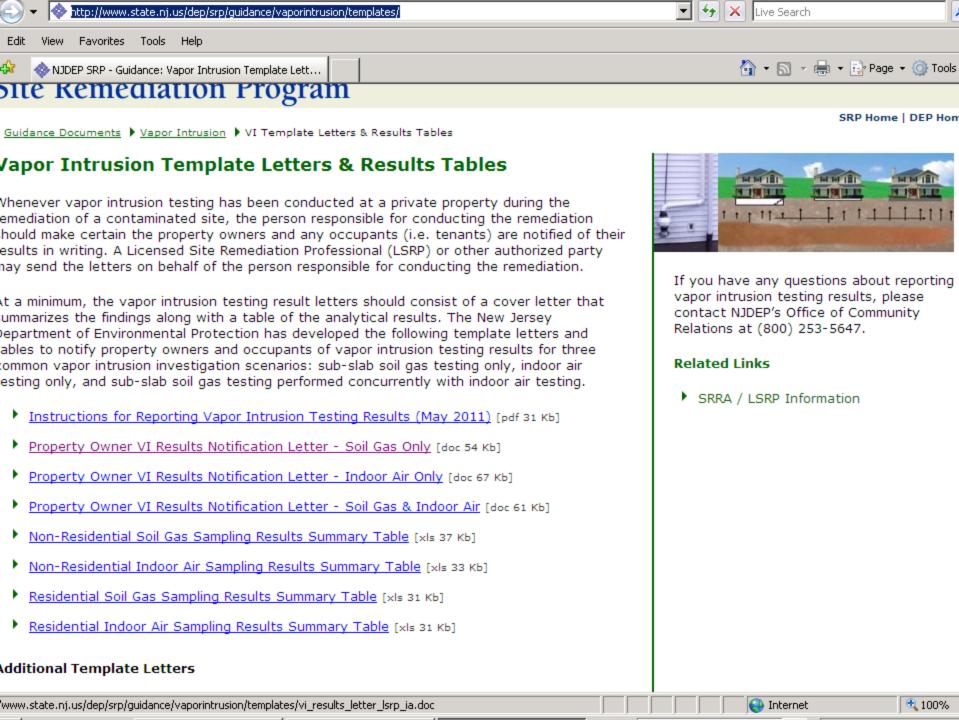
Template Notification Letters

Vapor Intrusion Letters

Potable Water Letters

 www.state.nj.us/dep/srp/guidance/vaporin trusion/templates





Property Owner VI Results Notification Letter

Date

Property Owner Name Street Address City, State, Zip Code

Re: Sub-Slab Soil Gas Sampling at:

Street Address

Municipality/County

Block #, Lot #

DCF License #: (applicable only when testing location is a child care center)

Sampling Date:

For: Site Name

Street Address

Municipality/County

NJDEP Preferred Identification #:

Dear [Property Owner Name]:

Municipality/County

Block #, Lot #

DCF License #: (applicable only when testing location is a child care center)

Sampling Date:

For: Site Name

Street Address

Municipality/County

NJDEP Preferred Identification #:

Dear [Property Owner Name]:

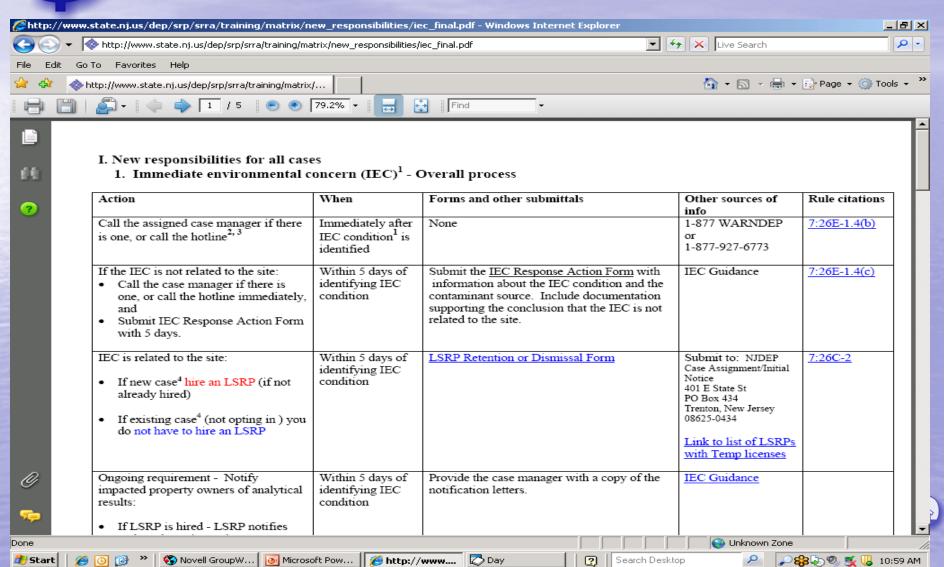
I am writing on behalf of [name of person responsible for conducting remediation] to provide you with the analytical results from [a sub-slab soil gas sample/sub-slab soil gas samples] collected at your property on [date]. The sample[s] [was/were] collected as part of a vapor intrusion investigation due to the presence of ground water contamination at the [Site Name] site. [(An indoor air sample was/Indoor air samples were) also collected from your property on that date but not analyzed based on the results of the sub-slab soil gas analysis. (Include this sentence if applicable.)]

The sub-slab soil gas sample[s] [was/were] analyzed for volatile organic compounds according to USEPA Method TO-15. Although the laboratory routinely analyzes for an extensive list of potential volatile organic compounds, the contaminant[s] of concern associated with the [Site Name] site that could affect indoor air quality within your building [is/are] [(list compound(s)]. Summarized below and in the attached table[s] are the analytical results for the sub-slab soil gas sample[s] collected from beneath your building. Any sample result that exceeded an applicable New Jersey Department of Environmental Protection (NJDEP) [Non-] Residential Soil Gas Screening Level is presented in bold type and shaded.



Quick Reference Guides

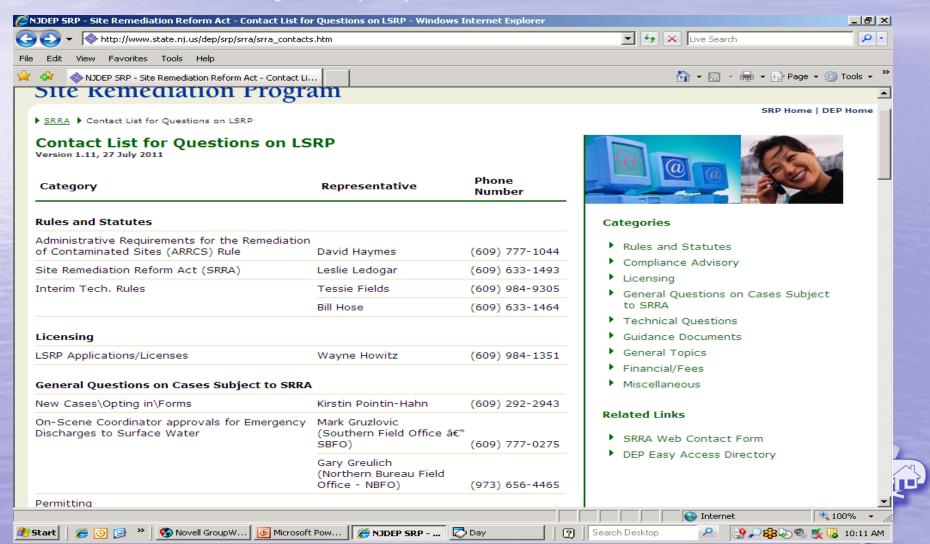
www.state.nj.us/dep/srp/srra/training/#quickrefs





Contact List for Questions on LSRP

www.state.nj.us/dep/srp/srra/srra_contacts





Benefits of using IEC Tools

- Simplifies and standardizes reporting process
- Promotes consistency between cases
- Allows for easier electronic submissions

 Allows for real-time decisions between LSR and case manager