

## ITRC Product List 2012-2022

Since 1995, ITRC has been developing innovative guidance documents and products to tackle environmental challenges while protecting human health and the environment. This product list represents the products developed by ITRC since 2012. Documents and products older than 2012 can be found on ITRC's website on the Guidance & Documents webpage.

Updated August 2022

Title	Description	
Advanced Site Characterization (ASC)		
Implementing Advanced Site Characterization Tools (December 2019) <a href="https://asct-1.itrcweb.org/">https://asct-1.itrcweb.org/</a>	Designed to help evaluate & select ASCTs to support site conceptual model and remedial strategy development and refinement.	
Implementing Advanced Site Characterization Tools Video Series (March 2020) Available on ITRC's YouTube Channel	Six videos ranging from 90 seconds to seven minutes to accompany the different sections in the guidance document.	
Bioavailability in Contaminated Soil (BCS		
Bioavailability in Contaminated Soil (November 2017) <a href="http://bcs-1.itrcweb.org/">http://bcs-1.itrcweb.org/</a>	Addresses lead, arsenic, and polycyclic aromatic hydrocarbons for the incidental ingestion of soil.	
Contaminated Sediments (CS)		
Remedy Selection for Contaminated Sediments (August 2014) <a href="http://www.itrcweb.org/contseds_remedy-selection">http://www.itrcweb.org/contseds_remedy-selection</a>	Presents a remedy selection framework for contaminated sediments to help project managers evaluate remediation technologies and develop remediation alternatives based on site-specific data.	
Environmental Molecular Diagnostics (EM	MD)	
EMD – New Site Characterization and Remediation Enhancement Tools (April 2013) www.itrcweb.org/emd-2/	Describes a group of advanced and emerging techniques used to analyze biological and chemical characteristics of environmental samples.	
Fractured Rock (FracRx)		
Characterization and Remediation in Fractured Rocks (December 2017) <a href="http://fracturedrx-1.itrcweb.org/">http://fracturedrx-1.itrcweb.org/</a>	Explains the processes controlling contaminant fate and transport in fractured rock, as well as innovative approaches to managing these sites.	
Geospatial Analysis for Optimization (GRO)		
Geospatial Analysis for Optimization at Environmental Sites (November 2016) <a href="http://www.itrcweb.org/gro-1">http://www.itrcweb.org/gro-1</a>	Illustrates practical application of geospatial analyses to support optimization activities.	
Green and Sustainable Remediation (GSR)		
Sustainable Resilient Remediation (April 2021) <a href="https://srr-1.itrcweb.org/">https://srr-1.itrcweb.org/</a> Groundwater Statistics and Monitoring C	Updates the Green and Sustainable Remediation: A Practical Framework document and includes a strong resilience component to address the increasing threat of extreme weather events and wildfires.	



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Statistical Tools for the Project Life Cycle	Support environmental project managers who review or
(December 2013) <u>www.itrcweb.org/gsmc-1/</u>	use statistical calculations for reports, who make
	recommendations or decisions based on statistics, or who
	must demonstrate compliance for groundwater projects.
Geophysical Classification for Munitions	
Geophysical Classification for Munitions	Explains the process of geophysical classification,
Response	describes its benefits and limitations, and most importantly
(August 2015) <u>www.itrcweb.org/gcmr-2/</u>	discusses the information and data needed by regulators
	to monitor and evaluate the use of the technology.
Harmful Cyanobacterial Blooms (HCB)	
Strategies for Preventing and Managing	This guidance focuses strategies for identification,
Harmful Cyanobacterial Blooms	monitoring and response to unique aspects of planktonic
(March 2021) https://hcb-1.itrcweb.org/	harmful cyanobacterial blooms.
Strategies for Preventing and Managing	Produced by ITRC's Harmful Cyanobacterial Blooms
Harmful Cyanobacterial Blooms: Learn to	(HCB) Team with support from the Lake Champlain Basin
Identify Cyanobacteria Blooms	Program, this video walks through different types of
(November 2021) Available on ITRC's	cyanobacteria and offers guidance on best management
YouTube Channel	and safety practices involving harmful blooms.
Strategies for Preventing and Managing	This guidance focuses on strategies for identification,
Benthic Harmful Cyanobacterial Blooms	monitoring and response to unique aspects of benthic
(March 2022) <a href="https://hcb-2.itrcweb.org/">https://hcb-2.itrcweb.org/</a> Incremental Sampling Methodology (ISM)	harmful cyanobacterial blooms.
Incremental Sampling Methodology	Helps regulators, consultants, industry, and stakeholders
(February 2012) http://www.itrcweb.org/ism-	in understanding the principles, application, and
1/	implementation of Incremental Sampling Methodology
<u>"</u>	(ISM). The website provides users with information on
	advantages and limitations of ISM, how to develop an ISM
	approach, establishing decision units, field
	implementation, laboratory processing and analysis
	issues, data assessment, and regulatory considerations.
	Case studies are provided to aid users in how ISM has
	been implemented at various sites.
Incremental Sampling Methodology Update	This updated Incremental Sampling Methodology (ISM-2)
(October 2020) <a href="https://ism-2.itrcweb.org/">https://ism-2.itrcweb.org/</a>	web-based document builds upon the 2012 version (ISM-
	1) and reflects advancements in technology, practices to
	measure progress and details what obstacles are still
	being encountered in the ensuing eight years.
Institutional Controls (IC)	
Long-Term Contaminant Management	Focuses on long-term contaminant management using
Using Institutional Controls	institutional controls (ICs).
(December 2016)	
http://institutionalcontrols.itrcweb.org/	
Integrated DNAPL Site Characterization (	



Integrated DNAPL Site Characterization and Tools Selection (April 2015) http://www.itrcweb.org/DNAPL- ISC tools-selection/  Methane  Evaluation of innovative Methane Detection Technologies (September 2018) https://methane- 1. itrcweb.org  Optimizing Injection Strategies and In-situ Remediation Performance (February 2020) https://ois-isrp- 1.itrcweb.org/  Per- and Polyfluoroalkyl Substances Explainer Videos (November 2019) Available on ITRC's YouTube Channel  Per- and Polyfluoroalkyl Substances Explainer Videos (November 2019) Available on ITRC's YouTube Channel  Per- and Polyfluoroalkyl Substances (April 2020) https://pfas-1.itrcweb.org/  Per- and Polyfluoroalkyl Substances Explainer Videos (November 2019) Available on ITRC's YouTube Channel  Per- and Polyfluoroalkyl Substances (April 2020) https://pfas-1.itrcweb.org/  Per- and Polyfluoroalkyl Substances (April 2020) https://pfas-1.itrcweb.org/  The PFAS team published recorded training modules on ITRC's YouTube Channel  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environm	Title	Description
April 2015) http://www.itrcweb.org/DNAPL- ISC tools-selection/   and other interested parties of the critical concepts related to characterization approaches and tools for collecting subsurface data at DNAPL sites.    Methane   Evaluation of Innovative Methane   Detection Technologies (September 2018) https://methane-	Integrated DNAPL Site Characterization	A resource to inform regulators, responsible parties, other
to characterization approaches and tools for collecting subsurface data at DNAPL sites.  Methane  Evaluation of Innovative Methane Detection Technologies (September 2018) https://imethane- 1.itrcweb.org  Optimizing Injection Strategies and In-situ Remediation Performance (OIS-ISRP)  Optimizing Injection Strategies and In-situ Remediation Performance (Perbuary 2020) https://iois-isrp- 1.itrcweb.org/  Per- and Polyfluoroalkyl Substances Fact Sheets (August 2022) https://jpfas- 1.itrcweb.org/introvalkyl Substances Explainer Videos (November 2019) Available on ITRC's YouTube Channel  Per- and Polyfluoroalkyl Substances Training Modules (April 2020) Available on ITRC's YouTube Channel  Per- and Polyfluoroalkyl Substances (June 2020) https://pfas- 1.itrcweb.org/  The PFAS team created nine introductory explainer videos to accompany the online guidance document. These videos range from three to six minutes in length.  The PFAS team published recorded training modules on ITRC's YouTube channel to accompany the various sections in the online guidance document. These training modules range from 13 to 30 minutes in length.  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (June 2020) https://pfas-1.itrcweb.org/  The PFAS documents provide technical resources for addressing environmental releases of Per- and Polyfluoroalkyl Substances (PFAS). The team has updated the original Guidance document to include a brand-new section on Surface Water Quality and significant revisions for Ecological Risk Assessment, a broad expansion in the discussion of PFAS in several contexts, including naming conventions, bioaccumulation, treatment technologies and sampling and analytical methods, and revisions that clarify information, provide new references for current text, and recognize significant new document releases from federal agencies and state organizations.	and Tools Selection	problem holders, consultants, community stakeholders,
Subsurface data at DNAPL sites.	(April 2015) <a href="http://www.itrcweb.org/DNAPL-">http://www.itrcweb.org/DNAPL-</a>	and other interested parties of the critical concepts related
Provides a framework for assessing the performance of innovative Methane Detection Technologies (September 2018) https://methane-1.itrcweb.org/   Optimizing Injection Strategies and In-situ Remediation Performance (OIS-ISRP)   Optimizing Injection Strategies and	ISC tools-selection/	to characterization approaches and tools for collecting
Provides a framework for assessing the performance of innovative methane detection Technologies. (September 2018) https://methane-1.itrcweb.org		subsurface data at DNAPL sites.
Detection Technologies   September 2018   https://imethane- 1.tircweb.org	Methane	
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(June 2020) <a href="https://pfas-1.itrcweb.org/">https://pfas-1.itrcweb.org/</a> addressing environmental releases of Per- and Polyfluoroalkyl Substances (PFAS). The team has updated the original Guidance document to include a brand-new section on Surface Water Quality and significant revisions for Ecological Risk Assessment, a broad expansion in the discussion of PFAS in several contexts, including naming conventions, bioaccumulation, treatment technologies and sampling and analytical methods, and revisions that clarify information, provide new references for current text, and recognize significant new document releases from federal agencies and state organizations.	Per- and Polyfluoroalkyl Substances	The PFAS documents provide technical resources for
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organizations.		
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Remediation management of Complex Sites (RMCS)	Remediation Management of Complex Si	



Title	Description
Remediation Management of Complex	Provides readers with practical steps to manage the
Sites	remediation process at complex sites where remediation
(November 2017) <a href="http://rmcs-1.itrcweb.org/">http://rmcs-1.itrcweb.org/</a>	progress is uncertain, and remediation is not anticipated to
	achieve closure or even long-term management within a
	reasonable time frame.
Remediation Risk Management (RRM)	
Using Remediation Risk Management to	Applies the framework of project risk management for site
Address Groundwater Cleanup Challenges at	remediation to identify and manage such challenges.
Complex Sites (January 2012) Available in	
PDF Format  Pick Communication (PCT)	
Risk Communication (RCT)  Risk Communication Toolkit	This interactive toolkit is designed to aid state personnal
	This interactive toolkit is designed to aid state personnel,
(June 2020) https://rct-1.itrcweb.org/	lead organizations, and stakeholders in understanding and
	communicating emerging environmental issues and concerns - detailing relevant strategies and tools.
Risk (RISK)	concerns - detailing relevant strategies and tools.
Decision Making at Contaminated Sites:	Assists effective decision-making among project
Issues and Options in Human Health Risk	managers and decision makers tasked with developing or
Assessment	reviewing risk assessments for contaminated sites using
(January 2015) <a href="http://www.itrcweb.org/risk-">http://www.itrcweb.org/risk-</a>	site-specific approaches, scenarios, and parameters.
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Soil Background and Risk Assessment (	SBR)
Soil Background and Risk Assessment	Provides a consensus-based comprehensive and
(December 2021) <a href="https://sbr-1.itrcweb.org/">https://sbr-1.itrcweb.org/</a>	defensible framework for establishing soil background and
	using soil background in risk assessments
Soil Background and Risk Assessment	The Soil Background and Risk Assessment team created
Training Videos	four short training videos to accompany the online
(July 2022) Available on ITRC's YouTube	guidance document that are available on ITRC's YouTube
Channel	channel.
Stormwater (Stormwater)	Ctampourate a Doot Maria are mont Dreations Douteman
Stormwater Best Management Practices	Stormwater Best Management Practices Performance
Performance Evaluation	Evaluation.
(October 2018) <a href="https://stormwater-1.itrcweb.org/">https://stormwater-1.itrcweb.org/</a>	
Stormwater Best Management Practices	The Stormwater Best Management Practices team
Introductory Videos	created four introductory training videos to accompany the
(September 2018) Available on ITRC's	online Guidance Document that are available on ITRC's
YouTube Channel	YouTube channel.
TPH Risk (TPHRisk)	
TPH Risk Evaluation at Petroleum-	Presents the current science for evaluating TPH risk at
Contaminated Sites	petroleum-contaminated sites.
(November 2018) https://tphrisk-	i ·
1.itrcweb.org	
Unexploded Ordnance (UXO)	
Quality Considerations for Multiple Aspects	Presents quality considerations for munitions
of Munitions Response Sites	response (MR) projects.
(April 2018) https://qcmr-1.itrcweb.org/	



Title	Description
Vapor Intrusion (VI)	
Technical Resources for Vapor Intrusion Mitigation (December 2020) https://vim- 1.itrcweb.org/	Technical Resources for Vapor Intrusion Mitigation (VIM) is designed to aid state regulators in understanding various mitigation strategies, how they are installed and fundamentally work, and what factors to consider as part of the review process.
1,4 Dioxane (14DX)	
1,4 Dioxane (March 2020) https://14d-1.itrcweb.org/	ITRC has developed a resource to summarize the latest science and emerging technologies for 1,4-Dioxane.