

GeoEnviroLogic Professional Development Workshops
December 17, 2010

We have been requested to share the following information with our subscribers:

Contaminated Sites Workshops February 16, 17 and 18, 2011

GeoEnviroLogic Professional Development is proud to present the 8th annual February Workshop Series on Contaminated Sites Issues for practitioners, site owners/managers, regulators, planners and others. This February we offer two workshops, which may be taken together or separately. Both workshops are taught by senior contaminated experts and provide ample opportunity for participation through examples and group discussions.

Day 1 and 2 – Beyond Data: Better Investigations – Better Results

Beyond Data takes investigation and interpretation of site contamination to a new level, giving you an in-depth understanding of what really matters – the use of a Conceptual Site. How many times have you wrestled with an environmental report that merely repackages a lab report with no understanding of the data – no inclination that the lights are on or that anyone is at home? How can you expect to pick an effective remediation solution, let alone a cost-effective solution?

“Beyond Data” is aimed at consultants, clients, and regulators, helping you get beyond the data and into the world of the conceptual site model (“CSM”). Learn to develop a CSM from the get-go. Use your CSM to develop focused investigations with meaningful conclusions. Gather the information needed for successful remediation. This highly interactive two-day workshop uses many real world examples and the latest concepts in adult learning to put you into the critical learning zone, gaining competency in the assessment and interpretation of environmental data, and in the communication of your findings. Working in small groups, you will draw stratigraphic cross-sections, post and contour data, examine fate and transport processes, think, hypothesize, test and write. Through strategically linked lecturettes, you will gain an understanding of current and innovative approaches to site investigation, risk management and cleanup.

Day 3 – Understanding BC Contaminated Site Regulations: Interpreting Requirements under the New and Updated MOE Guidance and Procedures

This Workshop covers new and updated guidance and procedures for soil vapour and groundwater investigation and remediation requirements. It also covers the expanded role of the “approved professional” in reporting on monitoring and on providing recommendations on releases for municipal authorizations for property development.

For workshop details and to Register, visit www.GeoEnviroLogic.ca

Request for Proposals - High Density Residential Standards
November 1, 2010

The Science and Standards Section, Environmental Management Branch, is seeking a contractor to produce, in collaboration with agency and industry stakeholders, a scientific derivation protocol for high density residential soil and vapour standards for use under the Contaminated Sites Regulation. In addition to developing the protocol, the contractor will lead a workshop of interested stakeholders to review the protocol and recommend revisions. The finalized protocol must be submitted to the ministry by March 31, 2011

For more information on the bid request please access the BC Bid website at: www.bcbid.ca and browse the proposals listed under the Ministry of Environment. The request for proposal code is RFPEMB11-137.

If you have any questions or comments please send them to Raymond.Ho@gov.bc.ca.

Glyn R. Fox, Ph.D.
Branch Science Advisor
Environmental Management Branch
Environmental Protection and Assurance Division

Dredgate Relocation Guidance Extension and Renumbering
October 28, 2010

The effective date of our technical guidance "[Applicability of Sodium and Chloride Ion Soil Relocation Standards to Dredged Marine and Estuarine Materials](#)" has been extended to June 30, 2013 and the document number changed from 33 to 20.

If you have any questions or comments please send them to Glyn.Fox@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

Approved Professional Exam Preparation Workshops
October 21, 2010

We have been requested to send the following message to our subscribers:

The second annual Approved Professional exam preparation workshop will be held on October 29 and November 5 and will

- help exam candidates prepare for the upcoming Approved Professional exams, and
- act as a primer for prospective members and other contaminated sites consultants.

The workshop will run over multiple sessions and cover regulatory requirements, numerical standards, risk assessment methodologies and applications, and roster submission examples. The workshop is sponsored by the CSAP Society. GeoEnviroLogic Professional Development has been retained to deliver the workshop.

The key speaker and workshop leader, Reidar Zapf-Gilje, has directed and managed many large contaminated soil, groundwater, and sediment projects from the initial investigations to implementation of remediation and/or risk management solutions. In his role as the former Chair of the Roster Steering Committee, and as a current member of the Performance Assessment Committee of the CSAP Society, Reidar has played a key role in the development of the contaminated sites Approved Professional review system.

For program and registration details, visit www.geoenvirologic.ca.

New versions of Director's Standards and Protocol 4 released
October 18, 2010

Version 2.0 of [Protocol 4, "Determining Background Soil Quality"](#) has just been released on our website. Changes include updating section 3.0 which deals with provisions of the Contaminated Sites Regulation, providing a revised map of provincial background regions, and reformatting the document.

Also, to address a missing reference to Schedule 10 of the Contaminated Sites Regulation we have released version 2.0 of the [Director's Interim Standards, "Generic Numerical Drinking Water Standards for Aluminum, Iron and Manganese."](#)

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

CSAP Society October 14 Professional Development Workshop
September 21, 2010

CSAP FALL PROFESSIONAL DEVELOPMENT WORKSHOP

The Contaminated Sites Approved Professional Society will be holding its fall technical workshop at Simon Fraser University at Harbour Centre, 515 West Hastings Street, Vancouver on October 14th.

MORNING SESSION: will be presented by the Society and will feature the unveiling of the revised CSAP member's Practice Guidelines, an extensive "lessons learned" session by the Performance Assessment Committee, and a discussion of the Society's options to streamline the Environmental Management Act and the Contaminated Sites Regulation

AFTERNOON SESSION: will be devoted to the Ministry of Environment which will provide brief presentations on recently updated and implemented protocols and procedures. Ministry staff will also be available to respond to questions regarding these documents.

Advance questions are welcome and should be sent to info@csapsociety.bc.ca.

Registration is a must and non-members are welcome.

A detailed agenda and registration information is available at:
<http://www.csapsociety.bc.ca/events-page.html>.

Vincent C. Hanemayer
Senior Contaminated Sites Officer

Request for Qualifications for External Contract Reviews September 20, 2010

The Land Remediation Section has just issued a Request for Qualifications to environmental consulting companies with Contaminated Sites Approved Professionals on staff. This Request is expected to result in a list of qualified suppliers with contracts to complete reviews for the external review process.

The request for qualifications is entitled "External Contract Reviewers Contaminated Sites RFQ" and is available at the following website: www.bcbid.ca. Please click on "Browse" in the "Browse for Bid Opportunities or Bid Results" link to find the listing under the Ministry of Environment heading.

We welcome your response by October 29, 2010 at 4:00 PM Pacific Time.

Ardith Gingell
Senior Contaminated Sites Officer
Land Remediation Section
B.C. Ministry of Environment

RFP for characterization guidance: proponents' meeting minutes posted
September 20, 2010

The ministry has posted the minutes of a proponents' meeting for the Request for Proposals for Site Characterization Guidance for Upstream Oil and Gas Sites (RFPEMB11-080). The meeting minutes and the original request for proposals can be reviewed by browsing for bid opportunities on the following website:

<http://www.bcbid.gov.bc.ca/open.dll/welcome>.

If you have any questions or comments please send them to Raymond.Ho@gov.bc.ca.

Colm Condon, MRM, RPBio, PAg
Risk Assessment Officer
Land Remediation Section
B.C. Ministry of Environment

GeoEnvirologic Professional Development Workshop
September 14, 2010

We have been requested to send the following message to our subscribers:

Early Fall Promotion: \$100 discount!

Impacts of Persistent Organic Pollutants on Aquatic Ecosystems and Human Health (October 4 and 5)

This two-day seminar is tailored to environmental consultants working on toxic chemical pollution prevention and control, environmental education, or environmental policy. There will be interactive in-class exercises including small group discussions of case studies that illustrate the concepts presented during the course.

The seminar will be taught by an expert in the fields of aquatic toxicology, environmental health, and aquatic ecology: Dr. Fran Solomon, Adjunct Professor, University of British Columbia, Vancouver, BC and Western Washington University, Huxley College of the Environment on the Peninsulas.

Register Online at: http://www.geoenvirologic.ca/upcoming_courses_v2.htm#pop.

Coming Up Next: CSAP Exam Preparation Workshop, October 29 and November 5
For more info on these & other seminars, visit www.geoenvirologic.ca

Administrator
GeoEnviroLogic Professional Development

Version 1 of Vapour Investigation and Remediation Guidance Released
September 14, 2010

The ministry has just released the first version of [Technical Guidance 4, “Vapour Investigation and Remediation”](#). Associated questions and answers will be released in a few days.

This version reflects stakeholder comments on the draft February 2009 and July 2009 versions. The following are the key changes made to the July 2009 draft:

- Advice of the CSAP Society’s Soil Vapour Advice and Practice Guidelines Development Panel has been incorporated.
 - Refinement of the vapour potential contaminants of concern (PCOCs) list based on detection limit concentrations in soil, sediment, and water is now only permitted for gasoline and diesel component substances.
 - More guidance has been provided on the use of soil and groundwater data to characterize vapour contamination.
 - Buildings more than 30 meters laterally from detectable vapour PCOCs in soil, sediment, and water can now be screened out when characterizing vapour contamination.
 - To account for biodegradation, the application of an additional 10-fold dilution factor to the Table 1 vapour attenuation factors is now permitted for some situations when characterizing vapour.
 - A number of additional reference documents have been added, most notably dealing with vapour characterization and risk management.
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- A number of significant updates have been made to Table 1 and its footnotes including adjustment of the outdoor attenuation factors, inclusion of new sampling locations, and modification of the footnotes.

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New FAQs on Protocols 6 and 12 on Land Remediation Website
September 1, 2010

We have just released responses to recent questions on [Protocol 6, “Eligibility of Applications for Review by Approved Professionals”](#) and [Protocol 12, “Site Risk Classification, Reclassification and Reporting.”](#) They are located in the FAQs area of our website under the subheadings “Approved Professionals Process” (questions 12 – 22) and “Site Risk

Classification” (questions 2 – 8). These subheadings are both under the [“Site Investigation and Remediation Process”](#) header.

Version 7 of Protocol 6 came into effect on June 21 and Protocol 12 came into effect on June 1 this year. Both documents are expected to be updated over the coming months to reflect the responses to these new FAQs.

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

Protocol 17 in Effect and Use of New Versions of Forms Required September 1, 2010

[Protocol 17, “Forms for Notifications of Independent Remediation and Offsite Migration”](#) is now in effect. The protocol specifies the forms which must be used when a person is required to notify the ministry of the initiation and/or completion of independent remediation and to notify the owners of neighbouring sites and the ministry of the likely or actual offsite migration of contamination.

The use of these two [specific forms](#) is now a legal requirement under the Environmental Management.

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

Bid Request - Guidance for Characterizing Contamination at Upstream Oil and Gas Sites August 31, 2010

The Ministry of Environment is seeking a contractor to produce, in collaboration with agency and industry stakeholders, a guidance document for characterizing contamination at upstream oil and gas sites in British Columbia. The completed guidance document must be submitted to the ministry by March 31, 2011.

For more information on the bid request please access the BC Bid website at:
<http://www.bcbid.gov.bc.ca/open.dll/welcome/>.

The request for proposal code is RFPEMB11-080.

All proponents interested in responding to the proposal may wish to participate in a conference call on Thursday September 9, 2010 from 10 a.m. to 12 p.m.

Call details: Toll-free dial-in: 1-877-353-9184

Vancouver dial-in: 604-681-0260

Conference ID: 9029220 #

If you have any questions or comments please send them to Raymond.Ho@gov.bc.ca.

Colm Condon, MRM, RPBio, PAg
Risk Assessment Officer
Land Remediation Section
B.C. Ministry of Environment

[Residential Heating Oil Storage Tank Fact Sheet Updated](#)
[August 26, 2010](#)

Fact Sheet 32 has recently been revised to clarify ministry requirements and expectations during the removal and decommissioning of residential heating oil storage tanks. Additions to the fact sheet include:

- Reasons a property owner may remove a residential heating oil storage tank
- Updated links to relevant regulatory information
- Information on what can be done to avoid liability and minimize risks associated with these tanks
- Further clarification on ministry requirements during tank removal

We encourage you to refer to this document for current information. Fact Sheet 32 can be accessed on our website at: http://www.env.gov.bc.ca/epd/remediation/fact_sheets/

If you have any questions or comments please send them to site@gov.bc.ca.

Tyler O'Grady
Senior Contaminated Sites Officer
Land Remediation Section
Ministry of Environment

Stakeholder Comments for Draft Technical Guidance Documents 6 and 8 Now Posted.
July 28, 2010

Two new technical guidance documents for groundwater investigation and assessment were recently approved by the Director. Subsequently, a number of stakeholders have requested copies of the stakeholder comments and associated ministry responses used to formulate the final versions of these documents. This information has now been posted at the following links:

[Stakeholder Comments and Ministry Response on Draft TG#6 Guidance for Groundwater Use Determination at Contaminated Sites](#)

[Stakeholder Comments and Ministry Response on Draft TG#8 Guidance for Groundwater Investigation and Characterization](#)

If you have any questions or comments please send them to site@gov.bc.ca.

Vincent C. Hanemayer
Senior Contaminated Sites Officer

New Groundwater Guidance Approved.
July 16, 2010

Two new groundwater guidance documents have been approved.

[Technical Guidance 8: Groundwater Investigation and Characterization](#)

This document provides guidance for qualified professionals to use in investigating and characterizing groundwater at sites in British Columbia and for evaluating groundwater quality under the Contaminated Sites Regulation.

This guidance comes into effect February 1, 2011. Applications for contaminated sites services submitted after February 1, 2011 will be reviewed in accordance with this guidance. Applications received prior to February 1, 2011 will be reviewed in light of practices and policies currently in effect. However, where possible compliance with this guidance document is recommended.

[Technical Guidance 6: Groundwater Use Determination at Contaminated Sites](#)

The Contaminated Sites Regulation (the Regulation) contains requirements to ensure that groundwater at a site is suitable for current and future uses and is of adequate quality to protect adjacent water uses. Groundwater uses specified in the Regulation include aquatic life, drinking, irrigation and livestock watering. This document provides guidance to assist responsible parties and qualified professionals in the determination of groundwater use at sites in British Columbia.

This guidance replaces our former Technical Guidance 6 “Applying Water Quality Standards to Groundwater and Surface Water” last revised in June 2005.

This guidance comes into effect February 1, 2011. Applications for contaminated sites services submitted after February 1, 2011 will be reviewed in accordance with this amended guidance. Applications received prior to February 1, 2011 may apply one or the other of (not both) the June 2005 version of Technical Guidance 6 (Applying Water Quality Standards to Groundwater and Surface Water”) or this version (“Water Use Determination”) for determining water use at a site.

If you have any questions or comments please send them to remediationFAQs@gov.bc.ca.

Vincent C. Hanemayer
Senior Contaminated Sites Officer

Protocol 17 in Effect September 1, 2010
July 15, 2010

[Protocol 17: Requirements for Notifications of Independent Remediation and Offsite Migration](#) has been signed by the Director and is now posted on the Land Remediation website.

The protocol specifies what forms are to be used when notifying the ministry of commencement and/or completion of independent remediation or when notifying impacted parties and the ministry of off-site migration of contamination. The effective date of Protocol 17 is September 1, 2010.

If you have any questions or comments please send them to site@gov.bc.ca.

Vincent C. Hanemayer
Senior Contaminated Sites Officer

Request for Proposal: Development of a Framework for Redevelopment of Former BC Service Station Sites
July 6, 2010

Brownfield Renewal RFP for Development of Framework for Redevelopment of Former Service Stations in BC

This is to advise Cs-link subscribers of a Request for Proposal recently posted to BC Bid. The RFP seeks consulting services to assist in the development of a BC framework for former service stations. This piece of work supports the BC Brownfield Renewal Strategy.
<http://www.brownfieldrenewal.gov.bc.ca/>

The RFP is posted on BC Bid as : CLORB10001 Framework for the Redevelopment of Former Service Station Sites. <http://www.bcbid.gov.bc.ca/open.dll/welcome?language=En>

The RFP closing date is Thursday August 5, 2010 at 2:00pm and the contact for enquiries is Ginnie Holden, A/Manager, Brownfield Implementation at the Ministry of Agriculture and Lands (virginia.holden@gov.bc.ca).

Alan McCammon
Manager, Remediation Assurance & Brownfields

[Request for comments on contaminated sites documents](#)
[June 30, 2010](#)

The Land Remediation Section has just released two documents for public review and comment. Responses on both are due by August 31, 2010.

The first summarizes proposed modifications to Schedule B conditions in Approvals in Principle and risk-based Certificates of Compliance, along with a revised approach for determining reporting conditions in those contaminated sites legal instruments. The proposed approach and Schedule B examples are provided in the document [“Proposed Administrative Guidance Framework - Schedule B Conditions in Approvals in Principle and Risk-based Certificates of Compliance”](#). Please submit your comments and any questions you might have to siteremediation@gov.bc.ca by August 31, 2010.

The second is a report by Michael J. Sowinski, [“Environmental Liability Transfer in British Columbia. Evaluation and Recommendations for Options to Implement the 14th Principle.”](#) which advises on options for implementing the [Canadian Council of Ministers of the Environment 14th liability principle](#) for contaminated sites adopted nationally in 2006. The ministry is considering features of options 2 and 5, and possible future initiatives based on the work of the National Brownfields Association. Please submit your comments and any questions you might have to me at john.ward@gov.bc.ca by August 31, 2010.

John Ward
Manager, Operations Management
Land Remediation Section

[Extension of Time Period for EPH Equivalency to LEPH/HEPH](#)
[June 23, 2010](#)

For contaminated sites regulatory purposes the equivalency of extractable petroleum hydrocarbon (EPH) data with light extractable petroleum hydrocarbon (LEPH) and heavy

extractable petroleum hydrocarbon (HEPH) data has been extended indefinitely by the Director, *Environmental Management Act*.

Ministry guidance on this matter is contained in our [May 23, 2003 update clarifying hydrocarbon analytical methods and standards](#).

If you have any questions, please direct them to Glyn.Fox@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New Version of Protocol 6 in Effect June 21
June 16, 2010

Version 7 of [Protocol 6, “Eligibility of Applications for Review by Approved Professionals”](#) has been released on our website and will come into effect on Monday June 21. In addition to extensive reformatting, there have been several other important changes.

The protocol now links directly to new [Protocol 12, “Site Risk Classification, Reclassification and Reporting,”](#) with applications for contaminated sites legal instruments such as Certificates of Compliance for non-high risk sites being required to be submitted with the recommendation of an Approved Professional. As well, Approved Professionals are required to make recommendations for Determinations of Contaminated Site and Contaminated Soil Relocation Agreements for high risk sites.

Version 7 enables greater use of Approved Professionals by diverting certain applications for legal instruments to the Approved Professional process (instead of directly to the ministry) when a preapproval listed in Table 1 is obtained from a Director of Waste Management. Note that requests for preapproval must come with a completed [Contaminated Sites Services Application](#) form with the “Additional Services / Functions” box checked in the “Other Services” section in Part C of the form.

Also the protocol contains a new section listing requirements for Approved Professionals in the administration of site profiles and in site classification and reclassification.

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

CSAP Society Notice of 2010 Examination Schedule
June 16, 2010

The Contaminated Sites Approved Professional Society (CSAP Society) is accepting applications for the November 2010 sitting of qualifying examinations.

The application deadline is **July 5, 2010**.

The examination schedule is as follows:

- Tuesday, November 16, 2010 - Standards Assessment Technical Part
- Wednesday, November 17, 2010 - Regulatory Part
- Thursday, November 18, 2010 - Risk Assessment Technical Part

Further details are provided at the CSAP Society website at: <http://www.csapsociety.bc.ca/roster-of-approved-professionals/applicant-information.html>

Vincent C. Hanemayer
Senior Contaminated Sites Officer

May Consultation Workshop Presentations on Internet
June 14, 2010

Last month the Land Remediation Section conducted a workshop for over 150 participants on our current contaminated sites initiatives. The PowerPoint [workshop presentations](#) are now available on our website.

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New Site Profile Processing Procedures in Effect
June 1, 2010

Today the Land Remediation Section's new [procedures for processing site profile submissions](#) came into effect. Since draft 32 of this procedure document was released in 2008, there have been a few amendments made, and a [summary of the substantive changes](#) is provided together with the procedure document itself. Please consult our recent [Update](#) for a summary describing how the new site profile processing procedures work.

Our website has been updated to reflect the new site profile processing procedures by:

- Updating
 - [Administrative Guidance 1, “Completing and Submitting Site Profiles.”](#)
 - [Administrative Guidance 2, “Site Profile Processing Requirements for Municipalities and Approving Officers,”](#) and
 - [Administrative Guidance 6, “Site Profile Decisions and Requesting Releases Where Local Government Approvals are Required”](#)
- Updating Fact Sheets 19, [“The Site Profile System”](#) and 37, [“Site Profile Freeze and Release Provisions”](#)
- Adding [two new form letters](#) to our key topic on site profiles for our clients to use to request “no site investigation” decisions and requesting the release of local governments to approve applications for authorizations such as development permits

If you have any questions or comments please send them to siteprofiles@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New Site Risk Classification Protocol in Effect June 1, 2010

New procedures for classifying the risks that sites pose to human health and the environment came into effect today. They are provided in [Protocol 12, “Site Risk Classification, Reclassification and Reporting”](#) as well as associated [Protocol 11, “Upper Cap Concentrations of Substances Listed in the Contaminated Sites Regulation”](#) and [Protocol 16, “Determining the Presence and Mobility of Nonaqueous Phase Liquids and Odorous Substances.”](#) Summaries of the few substantive changes to these protocols since they were released on our website in early December 2009 are also provided. Please consult our recent [Update](#) for a summary describing how these documents are coordinated to assist in the classification of site risks.

CS e-Link subscribers should note a significant change to the site risk reclassification procedures in Protocol 12. In the version of that document released today, as described in section 6.0 a high risk site may be reclassified either as a “non-high risk site” or as a “risk managed high risk site.” In the previous version of Protocol 12, a high risk site could only be reclassified as a non-high risk site, and high risk sites remediated to the risk-based standards of the Contaminated Sites Regulation were not eligible to be reclassified.

Our website has been updated to reflect these new site risk classification procedures by:

- Adding [Administrative Guidance 10, “Site Risk Classification”](#) and amending [Administrative Guidance 3, “Applying for Contaminated Sites Services”](#)

- Updating Fact Sheets 45, "[Site Risk Classification](#)" and 46, "[Contaminated Sites Legal Instruments](#)"
- Adding the Site Risk Classification Report and Exposure Pathway Questionnaire to the [forms section](#) of our website
- Updating the Contaminated Sites Services Application, Notification of Independent Remediation and Notification of Likely or Actual Offsite Migration on the [forms section](#) of our website
- Adding a new [key topic on site risk classification](#) on our Land Remediation home page
- Creating a new e-mail address (SiteClassification@gov.bc.ca) for those who have questions and comments on site risk classification

Please note that the new protocols have a number of terms which still require definition. Those will be developed over the coming weeks and published in our ministry procedure "[Definitions and Acronyms for Contaminated Sites.](#)"

If you have any questions or comments please send them to SiteClassification@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

GeoEnviroLogic Courses Open for Registration May 28, 2010

We are a go for the June 2 and 3 Contaminated Sites Investigation course. Early bird pricing has been extended and the registration will remain open until the event (late registration is also possible at the venue). This hands-on course was our first course and has been one of our most well-received courses every year since 2002.

Early bird pricing for the June 4 Risk Assessment Symposium is also still available. Some of you had trouble registering for the symposium last week – the glitch you experienced has been fixed and registration should be a snap.

Hoping you'll join us in the last sessions before summer. Register at www.geoenvirologic.ca.

The GeoEnviroLogic Professional Development Team.

Megan Begley
Administration, GeoEnviroLogic Professional Development

www.geoenvirologic.ca
mbegley@shaw.ca

New Site Profile Processing Procedures in Effect June 1
May 26, 2010

We have just released an [Update](#) ([PDF/129 KB](#)) describing the basic features of our new procedures for ministry staff for processing site profiles. The procedures will be coming into effect on June 1.

Please note that a number of the hyperlinks in the update are to draft documents. Over the next week we expect to amend these hyperlinks so they link to final document versions.

In the meantime, if you have any questions or comments please send them to siteprofiles@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New Site Risk Classification Protocol in Effect June 1
May 26, 2010

We have just released an [Update](#) ([PDF/130 KB](#)) describing the basic features of new site risk classification procedures coming into effect on June 1. We suggest that you review this update to help prepare for the new requirements.

Please note that a number of the hyperlinks in the update are to draft documents. Over the next week we expect to amend these hyperlinks so they link to final document versions.

In the meantime, if you have any questions or comments please send them to Liliana.Jerade@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New Interim Aluminum, Iron and Manganese Drinking Water Standards
May 26, 2010

The Director of Waste Management has approved under the Environmental Management Act, new Interim Standards for Contaminated Sites – [Generic Numerical Drinking Water Standards for Aluminum, Iron and Manganese](#) ([PDF/283 KB](#)) with an effective date of June 1, 2010. These new standards replace the drinking water standards for aluminum, iron and manganese currently

listed in Schedule 6 of the Contaminated Sites Regulation. They will be in effect until May 31, 2011.

If you have any questions, please contact Glyn.Fox@gov.bc.ca.

[Draft Protocol 17 - Requirements for Notifications of Independent Remediation and Offsite Migration](#)
May 12, 2010

This message is to request your comments on draft Protocol 17, [“Requirements for Notifications of Independent Remediation and Offsite Migration”](#) (PDF/269 KB) by June 11.

This new protocol has a number of key features including:

- new exemptions from the duty to provide Notifications of Independent Remediation to the ministry, and
- forms for Notifications of Independent Remediation and Notifications of Offsite Migration.

The purpose of this protocol is to provide some regulatory relief for those carrying out independent remediation. It also will standardize the content and format of forms required to report on the independent remediation of sites and on the offsite migration of substances from sites.

We look forward to receiving your comments by June 11.

If you have any questions or comments please send them to me at John.Ward@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

[Registration Reminder for Vancouver Update and Consultation](#)
May 10, 2010

In follow-up to our recent message about the Land Remediation Section's update and consultation session on May 19-20, 2009 in Vancouver, please note that the registration limit of 3 people per firm has now been removed. If you plan to register, please do so as soon as possible to ensure that space is available.

Agenda

A final [agenda](#) (PDF/81 KB) for the consultation is now posted on the ministry's website. As

indicated in our CS e-Link message dated April 21, 2010, the workshop is broken into two sessions. Session 1 will provide general information regarding the implementation of various documents including those related to site risk classification and site profile processing. There will also be numerous presentations regarding additional initiatives that the Land Remediation Section has been working on. Session 2 will provide more technical guidance on implementing key site risk classification protocols and further discussion on Technical Guidance 6, “Groundwater Use Determination at Contaminated Sites.” Guidance and discussion during this session will be geared toward Approved Professionals.

Registration

The [registration](#) (PDF/110 KB) form is available on our website. Please note the ministry's two-day consultation in Vancouver is limited to 185 attendees per session and space may become limited. A fee of \$200 per attendee for session 1 and \$75 per attendee for session 2 is applicable. Registration will be confirmed on a first-come first-serve basis.

Questions

If you have any questions about registration for the consultation session, please contact [Michele Parker](#).

Kelli Larsen
Senior Contaminated Sites Officer
Land Remediation Section
Environmental Management Branch

New Guidance and Fact Sheets Available May 3, 2010

We have just released a new administrative guidance document and two new fact sheets on our website.

[Administrative Guidance 9, “Independent Remediation of Contaminated Sites”](#) (PDF/246 KB) describes the legal requirements for independent remediation under the Environmental Management Act, as well as the ministry’s expectations when this remedial approach is used. The document should be reviewed carefully by consultants and contractors who carry out independent remediation including, for example, contractors who remediate leaking underground storage tanks at residential properties.

[Fact Sheet 45, “Site Risk Classification”](#) (PDF/131 KB) explains the requirements for classifying the risks that sites pose to human health and the environment under [Protocol 12, “Site Risk Classification, Reclassification and Reporting.”](#) (PDF/830 KB) Protocol 12 will come into effect on June 1 and will be used in several procedures and protocols under the provincial contaminated sites legal regime.

[Fact Sheet 46, “Contaminated Sites Legal Instruments”](#) (PDF/165 KB) summarizes the various types of legal instruments (such as Certificates of Compliance) which may be obtained under Parts 4 and 5 of the Environmental Management Act, and why and how they may be obtained.

If you have any questions or comments please send them to site@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

New GeoEnviroLogic Professional Development Seminars April 29, 2010

GeoEnviroLogic Professional Development is at it again. Registration is now open for the following professional development seminars:

- Workshops on Human Health and Ecological Risk Assessment, May 17 and 18, 2010, Vancouver BC
- Contaminated Sites Investigation: Planning, Field Sampling, and Interpretation, June 2 and 3, 2010, Burnaby BC
- Fifth Annual Risk Assessment Symposium: Bridging Science, Practice, and Policy, June 4, 2010, Vancouver BC

Full details, including draft agendas, and a link to online registration are available at www.geoenvirologic.ca.

Thanks!

Megan Begley
Administration, GeoEnviroLogic Professional Development

www.geoenvirologic.ca
mbegley@shaw.ca

Land Remediation Section Consultation Session May 19 / 20 April 21, 2010

The ministry's Land Remediation Section is pleased to advise that we will be hosting a two-day contaminated sites stakeholder update and consultation session May 19 and 20, 2010.

Location

The meetings will be held in the Fletcher Challenge Theatre (Room 1900) at SFU Harbour

Centre, 515 West Hastings Street, Vancouver, B.C. More information about the venue is available [here](#).

Topics

In Session 1, ministry representatives will provide general information regarding the implementation of various documents related to the following subject areas:

- Site risk classification
- Site profile processing
- Director's interim standards for drinking water (aluminum, iron and manganese)
- Soil relocation technical guidance for salt

Current plans for Session 1 also include presentations and discussions regarding additional initiatives the Land Remediation Section has been working on, including those in the following areas:

- Groundwater guidance
- Detailed risk assessment
- B.C. Brownfield Renewal

The session will also provide an overview of proposed amendments to the contaminated sites legal regime and the Section's Annual Report for 2008/09.

Session 2 will provide more technical guidance on implementing key Protocols (6, 12 and 16) and further discussion on Technical Guidance 6. Guidance and discussion during this session will be geared toward Approved Professionals.

Agenda

A [draft agenda](#) for the consultation session is posted on the ministry's website.

Registration

Registration will begin on April 22, 2010. The [registration form](#) is available on our website. Registration will be confirmed on a first-come first-served basis and registration will not be confirmed until payment is received. Please make your cheque payable to the "Minister of Finance". Please note there are two sessions available. Each session will be restricted to 185 attendees and space may become limited.

Fees are as follows:

Session 1 (May 19 all day and May 20 am only) - \$200 per attendee – we ask that stakeholders limit registration for session 1 to three spaces per firm.

Session 2 (May 20 pm only) - \$75 per attendee, recommended for Approved Professionals

Questions

If you have any questions about registration for the consultation session, please contact [Michele Parker](#).

Kelli Larsen
Senior Contaminated Sites Officer
Land Remediation Section

Notification About Errors in Protocol 11
April 19, 2010

Please note that Protocol 11, “Upper Cap Concentrations for Substances Listed in the Contaminated Sites Regulation” contains two upper cap concentration errors. In deriving upper cap concentrations for VPHw6-10 and EPHw10-19, a 10 times multiplier was incorrectly applied to the existing Schedule 6 aquatic life water use standards of the Regulation. Consequently, the aquatic life upper cap concentrations provided in Protocol 11, Table 5, “Human and Environmental Health Water Exposure Upper Cap Concentrations” for VPHw6-10 and EPHw10-19 are 10-fold larger than appropriate.

The correct aquatic life upper cap concentrations for VPHw6-10 and EPHw10-19 are 15 000 ug/L and 5 000 ug/L respectively. These, together with any other necessary minor corrections, will be made before June 1, 2010, the effective date for this protocol.

If you have any questions, please contact Glyn.Fox@gov.bc.ca.

John Ward
Manager, Operations Management
Land Remediation Section

GeoEnviroLogic Sediment Solutions Seminar
February 17, 2010

We have been requested to send the following announcement to our subscribers.

General registration is now open for GeoEnviroLogic Professional Development’s *Sediment Solutions Seminar – Vancouver 2010*. Register Online through www.geoenvirologic.ca.

You may have heard of sediment caps that failed, seen “preferred” remedies change, or watched dredging projects that left the sediment surface in worse condition than before. If you deal with sediment, you know it takes an excellent pilot to stay clear of the rocks and save millions. GeoEnviroLogic Professional Development is proud to announce the Sediment Solutions Seminar – Vancouver 2010, a one-day event disseminating the latest in integrated approaches for cost-effective sediment assessment, management, and closure.

Our **panel of international experts** will show you how to chart the right course and navigate treacherous waters with a steady hand at the helm. If you deal with waterfront property transfer,

industrial water lot use, or historic water lot impacts, you can't afford to miss this event. The seminar conveniently precedes the [Globe 2010 Trade Fair and Conference on Business](#) and the Environment in Vancouver.

Need more details? A draft **program, confirmed speakers, registration fees**, and more have been **posted to** www.geoenvirologic.ca. An early bird discount is in effect until March 5.

Thank you for your strong interest in this seminar. We are really looking forward to this one!

Other Upcoming Seminars

May 6 and 7 in Vancouver: Two-day Human Health and Ecological Risk Assessment Workshop

From fundamentals to practice, including hands-on calculations using BC case studies. For contaminated sites practitioners of all professions. Learn the how-to for risk assessment in BC. Excellent primer for the Risk Symposium held four weeks later on June 4th.

June 2 and 3 in Burnaby: Contaminated Site Investigation: Planning, Field Sampling, and Interpretation

Two companion seminars providing training in investigation of contaminated sites: Day 1 - Soil and Groundwater Sampling and Day 2 - Sampling of Soil Vapour and Other Media.

June 4 in Vancouver: Fifth Annual Risk Symposium

These annual symposia bring together professionals from the field of contaminated sites risk assessment to share ideas and debate risk assessment as practiced in BC. The Fifth annual 2010 symposium will involve presentations on special topics of interest.

September 30 and October 1 in Fort St. John (tentative date): Contaminated Sites in the Oil and Gas Sector in Northeast B.C.

The third session of contaminated sites seminars to be held in Fort St. John will focus on contaminated sites issues for the oil and gas sector, and the interconnection between the Contaminated Site Regulation and the Oil and Gas Regulation.

Sincerely,

The GeoEnviroLogic PD Team

C/O

Megan Begley

mbegley@shaw.ca

www.geoenvirologic.ca

Clean Tech Funding Available
February 1, 2010

We have been requested to send the following announcement to our subscribers.

If you have a new, innovative clean technology, Sustainable Development Technology Canada (SDTC) wants to hear from you.

**SDTC's SD Tech Fund™ is accepting Statements of Interest
from February 24 to April 21, 2010**

The SD Tech Fund™ invests in late-stage development and pre-commercial demonstration of clean technologies by Canadian companies. For more information please visit:

<http://www.sdtec.ca/en/SOIinfo.htm>

John Ward
Manager, Operations Management
Land Remediation Section

On behalf of:

Patrice Breton
Director, Communications
Sustainable Development Technology Canada
p.breton@sdtec.ca
<http://www.sdtec.ca>

Additional Responses to Technical FAQs Released
January 20, 2010

We have recently released responses to over 20 new technical FAQs on our website at <http://www.env.gov.bc.ca/epd/remediation/faq/index.htm>. They have been added under the following headings:

Subject Area	Additional FAQ Numbers
Contaminated Sites Legal Instruments	
General	5
Approval in Principle	6, 7
Contaminated Soil Relocation Agreement	13 - 16
Determination of Contaminated Site	2
Applications Through Protocol 6	1, 2

Discharge Authorizations	1, 2
General	8 - 10
Standards	7 - 16

If you have any questions or comments please send them to remediationFAQs@gov.bc.ca

John Ward
Manager, Operations Management
Land Remediation Section
Ministry of Environment

BCIT Brownfield Redevelopment Courses January 7, 2010

We have been requested to send the following announcement to our subscribers.

The School of Construction and the Environment at the British Columbia Institute of Technology (BCIT) is continuing its series of courses in brownfield redevelopment in support of B.C.'s brownfield renewal strategy.

The purpose of the program is to provide current and prospective practitioners in the brownfield redevelopment industry with the relevant knowledge and skills within an interdisciplinary framework. The suite of part time studies courses will include an introduction to brownfield redevelopment, planning and environment, legal and finance, technical and environmental strategies, and land development and real estate of brownfield redevelopments.

The Introduction to Brownfield Redevelopment will be held on January 29th, 2010 at the BCIT Downtown Campus. Further details can be found at <http://www.bcit.ca/study/courses/eeng0101>.

For further information, contact Steve Finn, Program Head, BCIT Brownfield Redevelopment Program at steve_finn@bcit.ca or visit <http://commons.bcit.ca/brownfield>.

GeoEnviroLogic: Registration for February Workshops January 6, 2010

We have been requested to send the following announcement to our subscribers.

Kick off your new year with a boost of professional development!

Fundamentals and Beyond the Data
February 1, 2 and 3, 2010 in Pre-Olympic Vancouver

Registration is now open at www.geoenvirologic.ca for the 7th ANNUAL February Workshop Series on contaminated sites issues for practitioners, site owners/managers, regulators, planners and others. This year we offer two workshops.

Day 1 provides you with the fundamentals of contaminated sites science, engineering and regulation.

The second workshop, on Days 2 and 3, takes investigation and interpretation of site contamination to a new level, giving you an in-depth understanding of what really matters – the use of a Conceptual Site Model to comprehend key problems, identify feasible solutions and resolve the real issues.

Both workshops are taught by senior contaminated sites experts and provide ample opportunity for participation through worked examples and group discussions. Take only one workshop or both - the choice is yours. Full details and registration are at www.geoenvirologic.ca.

Mark your calendar!

Sediment Solutions Seminar – Vancouver 2010

March 23, 2010 in Post-Olympic Vancouver

There are 50 people on the list to receive advanced notice of registration for the Sediment Solutions Seminar – Vancouver 2010, a one-day event disseminating the latest in integrated approaches for cost-effective sediment assessment, management, and closure. Our panel of international experts will show you how to chart the right course and navigate treacherous waters with a steady hand at the helm.

If you deal with waterfront property transfer, industrial water lot use, or historic water lot impacts, you can't afford to miss this event.

If you are interested in this unique seminar and if you have not already done so, reply to this e-mail to have your name added to an Advanced Registration List. Those on the list will get a one-week head-start on registration, which is scheduled to open in January, 2010. Group and government/agency pricing will also be available. Keep your eye on www.geoenvirologic.ca for details.

On behalf of the GeoEnviroLogic PD team, I wish you the happiest of new years and thank you for a great 2009.

Megan

Megan Begley
Administration, GeoEnviroLogic Professional Development