

Request for Proposals to Train Ministry Contaminated Sites Staff  
December 04, 2000

The Ministry of Environment, Lands and Parks is seeking a firm to develop a comprehensive contaminated sites training workshop which will include both a classroom and a field demonstration component for ministry staff.

The areas to be covered are: site audits, field screening techniques, soil sampling, groundwater sampling and surface water sampling methodologies. Topics to be covered must include drilling techniques, soil vapour sampling and remedial technologies; such as, air sparging, soil vapour extraction and bioremediation. The field demonstration will (as a minimum) include hands on use of instruments, monitors, etc.

The proponent delivering the training will have demonstrable experience in remediation of contaminated sites in British Columbia.

The workshop should be four to five consecutive days long and must be delivered before March 31, 2001. The closing date and time are: 10/January/2001 at 4:30 PM Pacific Time

For further details, please go to the following Web address:

[http://www.bcbid.gov.bc.ca/data/itqs/48\\_PPR01-060.htm](http://www.bcbid.gov.bc.ca/data/itqs/48_PPR01-060.htm)

John E.H. Ward  
Manager, Environmental Remediation and Integrated Pest Management  
Pollution Prevention and Remediation Branch, BC Environment

New Web Address for Instructions on Subscribing to CS e-Link  
November 29, 2000

In the message I sent you today about the new Contaminated Sites Program Web site, under the signature block, I provided a Web address for instructions on how to subscribe to the CS e-Link message system.

With the new Web site has come a new Web address for these CS e-Link instructions. They are now located at: <http://wwwd.env.gov.bc.ca/epd/remediation/cselink/index.htm>

Please disregard the old Web address for this update. It no longer is functioning.

John E.H. Ward  
Manager, Environmental Remediation and Integrated Pest Management  
Pollution Prevention and Remediation Branch, BC Environment

New Convenient Way to Search the Site Registry Paying by VISA or MasterCard  
August 4, 2000

This is to inform you about a convenient new Internet service from KeyInfoBC using Land Title PID and address to search BC Environment's Site Registry.

The Site Registry is a record of information about the environmental condition of land -- specifically on sites which have been investigated and cleaned up since BC Environment began recording this activity. It documents milestones in the site cleanup process, and provides public access to this information.

KeyInfoBC is especially easy to use, because you just need a credit card to pay for the service - you don't need an account with BC OnLine. And your search results will arrive in about 1 hour if you provide an e-mail address. This saves a lot of time and effort for those who only need information from the Site Registry occasionally. Here's how it works.

- \* The first step is to go to the Internet address <http://www.keyinfobcathome.com/> on your computer. This page describes the general types of services KeyInfoBC offers.
- \* Next, click on the title "Homes & Properties." This page shows all the searches KeyInfoBC offers for information on homes and properties. The Site Registry is listed in the second last section.
- \* Then click on "Search for Environmental Site Registry Information" or view the free sample Site Registry report by clicking on "annotated sample Site Registry report."
- \* There are two types of Site Registry searches available through KeyInfoBC -- a Land Title Parcel Identifier Number (PID) search and an address search.
- \* With each you can do a basic search to see a list of sites in the Site Registry matching the PID or address, or you can obtain additional information for the listed sites in a Synopsis or Details report.
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- \* Following screens allow you to fill out the Land Title PID number or address for the property you want to search.
- \* The next screen shows the charges for your search. Note that for each type of report, there is an additional charge of \$5 above the normal fee paid to BC OnLine.
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For additional information on the Site Registry, see our fact sheets "The Site Registry" ([http://www.elp.gov.bc.ca/epd/remediation/fact\\_sheets/pdf/fs20.pdf](http://www.elp.gov.bc.ca/epd/remediation/fact_sheets/pdf/fs20.pdf)) and "Why Search the Site Registry" ([http://www.elp.gov.bc.ca/epd/remediation/fact\\_sheets/pdf/fs24.pdf](http://www.elp.gov.bc.ca/epd/remediation/fact_sheets/pdf/fs24.pdf))

For additional information on KeyInfoBC, customers can obtain free help by calling the KeyInfoBC toll free customer Help Desk line at 1-888-970-7771 from 9:00 am to 5:00 pm (Pacific Time), Monday through Friday (except statutory holidays).

John E.H. Ward  
Manager  
Environmental Remediation and Integrated Pest Management  
BC Environment

[Status of Headquarters Contaminated Sites Program Report Reviews Now on the Internet](#)  
June 20, 2000

This is to announce the availability of information on the Internet about the status of the review of contaminated sites reports by headquarters BC Environment Contaminated Sites Program staff.

The information includes the Site ID number, the name of the staff member involved, the common name of the site assigned by ministry staff, the city where the site is located, the title of the report, the date it was received by the ministry, the date the review started, the target date for review completion and details on the status of the review.

You can access this information through the Contaminated Sites Internet home page under the heading "How to Obtain BC Environment Information on Contaminated Sites". It can also be accessed through the "What's new" button at the top of that page.

The information will be updated regularly, and will be expanded to include other ministry regions if it proves to be useful for clients and other stakeholders, and can be managed with the staff resources the ministry has available.

John E.H. Ward  
Manager  
Environmental Remediation and Integrated Pest Management  
BC Environment

[New Information on Contaminated Sites Regulation Fees and Second Stage Amendments](#)  
May 19, 2000

The following new documents have recently been made available on the ministry's contaminated sites home page on the Internet :

1) Update on Contaminated Sites. Progress on a Second Stage Contaminated Sites Regulation Amendment, April 4, 2000

This update describes recent progress of the ministry and contaminated sites stakeholders to review the Contaminated Sites Regulation. It is available at:

<http://www.elp.gov.bc.ca/epd/remediation/updates/archives/4apr00.htm>

The reader may also wish to consult our update dated 99/7/28, which describes the first stage amendment of this regulation made in July 1999. It is available at:  
<http://www.env.gov.bc.ca/epd/epdpa/iwhc/uocsfsa.html>

## 2) Facts on Contaminated Sites. 25. Fees for Contaminated Sites Services

This fact sheet explains the details of the fee component of the regulation, and how it works. It is available at: [http://www.elp.gov.bc.ca/epd/remediation/fact\\_sheets/pdf/fs25.pdf](http://www.elp.gov.bc.ca/epd/remediation/fact_sheets/pdf/fs25.pdf)

Other contaminated sites documents can be accessed from the Contaminated Sites Program's home page on the Internet at: <http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

John Ward  
Manager  
Environmental Remediation and Integrated Pest Management  
BC Environment

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John E.H. Ward  
Manager  
Environmental Remediation and Integrated Pest Management  
BC Environment

New Information on Contaminated Sites Regulation Fees and Second Stage Amendments  
May 19, 2000

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John Ward

Manager

Environmental Remediation and Integrated Pest Management

BC Environment

New Internet Addresses for Information on Contaminated Sites  
November 28, 2001

On November 20, 2001, I circulated a CS e-Link message which informed environmental consultants and their clients of a web site providing guidance on preparing and submitting applications for contaminated sites services in the Lower Mainland Region. Since then, the ministry has revised its web site URLs. The URL of the web site providing guidance on preparing and submitting applications for contaminated sites services in the Lower Mainland Region has now been changed to:

<http://www.env.gov.bc.ca/epd/remediation/guidance/index.htm>

Please also note that the URLs for the ministry home page and the Contaminated Sites Program home page have been changed to:

Ministry page: <http://www.gov.bc.ca/env/>

Contaminated Sites Program: <http://www.env.gov.bc.ca/epd/remediation/cs101.htm>

If you require any further information on the Lower Mainland Region guidance, please send a message to Alan McCammon at [Alan.Mccammon@gems6.gov.bc.ca](mailto:Alan.Mccammon@gems6.gov.bc.ca)

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

Guidance Available for Lower Mainland Contaminated Sites Consultants and Clients  
November 20, 2001

Alan McCammon, Contaminated Sites Head in our Lower Mainland Region, has asked me to remind environmental consultants and their clients that the following web site provides guidance on preparing and submitting applications for contaminated sites services in the Lower Mainland Region:

<http://www.env.gov.bc.ca/epd/remediation/guidance/index.htm>

If you require any further information, please send a message to Alan directly at [Alan.Mccammon@gems6.gov.bc.ca](mailto:Alan.Mccammon@gems6.gov.bc.ca)

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

Mines Framework Agreement Now on Web  
October 30, 2001

A new interministry agreement entitled "Framework Agreement for the Regulation of Coal and Mineral Mine Sites" is now available on our web site at:

[http://www.env.gov.bc.ca/epd/industrial/mining/guidance\\_agree.htm](http://www.env.gov.bc.ca/epd/industrial/mining/guidance_agree.htm)

This agreement is intended to support responsible mining in British Columbia through co-ordinated regulation by the Ministries of Energy and Mines, and Water, Land and Air Protection. It's objective is to minimize duplication between the Mines Act and Waste Management Act, to provide for timely authorizations, and to clarify liability issues.

In order for the Framework Agreement to be fully realized, legislative amendments are required, and are currently being developed. The agreement reflects the findings and recommendations of a report entitled "External Review of Mine Reclamation and Environmental Protection Under the Mines Act and Waste Management Act", written by Patricia Houlihan and Jim Titerle on January 31, 2001, which can be viewed on the web at

[http://www.env.gov.bc.ca/epd/remediation/annual\\_reports/index.htm](http://www.env.gov.bc.ca/epd/remediation/annual_reports/index.htm).

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

Report on Liability Provisions for Mine Site Contamination Released  
September 28, 2001

A new report by Jim Titerle and Patricia Houlihan entitled "External Review of Mine Reclamation and Environmental Protection Under the Mines Act and the Waste Management Act" is now available on the Contaminated Sites Program web site at:

[http://www.env.gov.bc.ca/epd/remediation/annual\\_reports/index.htm](http://www.env.gov.bc.ca/epd/remediation/annual_reports/index.htm)

It reviews the liability provisions regarding mine site contamination under the Mines Act, and under Part 4 of the Waste Management Act and the Contaminated Sites Regulation. The report makes recommendations with a view to ensuring that these statutes meet environmental protection objectives while fostering a sustainable mining industry.

Ministry staff are working with representatives of the Ministry of Energy and Mines to review options for streamlining legislation to address the report's recommendations.

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

[Request for Comments on Draft Revised Protocol for Petroleum Hydrocarbons in Water](#)  
[September 21, 2001](#)

A revised draft of Protocol 7, the "Protocol For Regulation of Petroleum Hydrocarbons in Water under the Contaminated Sites and Special Waste Regulations." has been posted for review and comment on the Ministry web site at

[http://www.elp.gov.bc.ca/epd/epdpa/contam\\_sites/draft\\_documents/index.html](http://www.elp.gov.bc.ca/epd/epdpa/contam_sites/draft_documents/index.html).

This protocol establishes a regulatory process whereby the leachate quality standards for benzene, toluene, ethylbenzene and xylenes listed in the Special Waste Regulation are substituted by the numerical water standards for petroleum hydrocarbons listed in the Contaminated Sites Regulation.

Please forward any comments regarding this draft protocol on or before October 22, 2001, by conventional mail, FAX, or e-mail to:

Duncan Ferguson, P.Eng.  
A/Head - Site Information, Investigations & Standards  
BC Ministry of Water, Land & Air Protection  
P.O. Box 9342, Stn Prov Govt  
Victoria, BC V8W 9M1  
Tel: (250)387-9950  
FAX: (250)387-9935  
E-mail: [duncan.ferguson@gems8.gov.bc.ca](mailto:duncan.ferguson@gems8.gov.bc.ca)

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

[New Procedures Approved for Resubmission Fees and Requiring Additional Remediation](#)  
[September 18, 2001](#)

The Director of Waste Management has approved two new contaminated sites procedures:

- \* Procedure Regarding Exercise of Powers to Require Additional Remediation
- \* Levying Surcharges for Processing Resubmitted Reports

They were developed in collaboration with the Contaminated Sites Implementation Committee, were subject to a public review process completed last spring, and came into effect on August 30, 2001. You can view them on the Internet at:

[http://www.env.gov.bc.ca/epd/remediation/policy\\_procedure\\_protocol/index.htm](http://www.env.gov.bc.ca/epd/remediation/policy_procedure_protocol/index.htm)

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

**New Analytical Method for Strong Acid Leachable Metals (SALM)**  
June 21, 2001

The Director of Waste Management has approved "CSR Analytical Method 8 - Strong Acid Leachable Metals (SALM) in Soil" for contaminated sites regulatory purposes. The new method, which takes effect on June 26, 2001, can be downloaded from:  
[http://www.env.gov.bc.ca/epd/remediation/analytical\\_methods/index.htm](http://www.env.gov.bc.ca/epd/remediation/analytical_methods/index.htm). It will standardize acid extraction methodology for use in the analysis of metals in soil.

A number of BC and Alberta laboratories have experience with the new method. A list of these laboratories can be downloaded from:  
[http://www.env.gov.bc.ca/epd/remediation/analytical\\_methods/acid\\_leachable\\_metals\\_01.htm](http://www.env.gov.bc.ca/epd/remediation/analytical_methods/acid_leachable_metals_01.htm)

John E.H. Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
BC Ministry of Water, Land and Air Protection

**Contaminated Sites Statistics Guidance and Report Review Backlog Summary Now Available  
on the Internet**  
April 27, 2001

The Statistics for Contaminated Sites page of BC Environment's contaminated sites Internet site  
<http://www.env.gov.bc.ca/epd/remediation/guidance/technical/pdf/tg12.pdf>

has now been modified to include links to the 16 referenced guidance documents. These were developed by FSS International for BC Environment in 1995 and have recently been updated to reflect the current contaminated sites legal and regulatory regime. They are available in .pdf format only and must be viewed using an Adobe Acrobat Reader. A link to download an Adobe Acrobat reader is included.

Also new on the web is the "Contaminated Sites Program Backlog Report" at:  
[http://www.env.gov.bc.ca/epd/epdpa/contam\\_sites/status\\_of\\_report\\_reviews/backlog\\_report.html](http://www.env.gov.bc.ca/epd/epdpa/contam_sites/status_of_report_reviews/backlog_report.html)

This summarizes the number of outstanding requests for service submitted to the Contaminated Sites Program, and the duration of the backlog in weeks before such requests are processed, for

both regional offices and headquarters. We expect that focussing on these performance measures will help reduce delays and backlogs, and will improve service to our clients.

For additional information, contact Duncan Ferguson at (250)387-9950 or [Duncan.Ferguson@gems8.gov.bc.ca](mailto:Duncan.Ferguson@gems8.gov.bc.ca)

John E.H. Ward  
Manager, Contaminated Sites and Integrated Pest Management  
Pollution Prevention and Remediation Branch, BC Environment

[BC Environment Background Soil Quality Database Now on the Internet](#)  
[April 10, 2001](#)

The BC Environment background soil quality database is now available on the internet at: <http://www.env.gov.bc.ca/epd/remediation/guidance/technical/pdf/tg17.pdf>

Recently we obtained background soil quality data for selected metals from all the ministry's administrative regions in the province. Also, we collected background soil quality data for Greater Vancouver within our Lower Mainland Region, in recognition of the very active redevelopment of commercial and industrial property occurring in that area. The data have now been compiled and organized to contain:

- \* detailed information on background sampling site locations,
- \* soil sample digestion analytical results for metals (nitric perchloric and aqua regia digestion),
- \* soil sample analytical results for selected organic and miscellaneous parameters
- \* a regional statistical summary for metals.

This background soil quality data has been used in the adjustment of contaminated sites soil quality standards in the Contaminated Sites Regulation, and is used by technical experts to calculate regional background soil quality estimates for use under the regulation.

For additional information, contact Duncan Ferguson at (250)387-9950 or [Duncan.Ferguson@gems8.gov.bc.ca](mailto:Duncan.Ferguson@gems8.gov.bc.ca)

John E.H. Ward  
Manager, Contaminated Sites and Integrated Pest Management  
Pollution Prevention and Remediation Branch, BC Environment

Revised Update on Obtaining Information on Contaminated Sites in BC  
March 9, 2001

The document entitled "How to Obtain BC Environment Information on Contaminated Sites", found in the Updates on Contaminated Sites section of the Contaminated Sites web site has been revised. It is located on the web at: <http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

The revised document gives details on the updated Contaminated Sites web pages and well as other methods by which information on contaminated sites in BC can be obtained.

Also please be advised that as of March 14, 2001, the Internet service KeyInfoBC will be discontinued. This means that KeyInfoBC will no longer be available to search BC Environment's Site Registry. Online searches of the Site Registry are still available through BC OnLine at <http://www.bconline.gov.bc.ca/> or can be obtained through private title search companies (see Title Service in the Yellow Pages).

John E.H. Ward  
Manager, Contaminated Sites and Integrated Pest Management  
Pollution Prevention and Remediation Branch, BC Environment

New Update Describing Progress in Cleaning Up Contaminated Sites in British Columbia.  
February 15, 2001

A new ministry publication in our series of updates indicates that British Columbia is making significant progress in cleaning up contaminated sites, and as a result, in improving human health and environmental protection. It has just been placed on our Contaminated Sites Program Internet site at: <http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

Please contact me if you would like to discuss any of the information in this update.

John E.H. Ward  
Manager  
Contaminated Sites and Integrated Pest Management  
BC Environment

Draft Ministry Procedures Now Available for Public Review and Comment  
January 10, 2001

BC Environment's Contaminated Sites Program is proposing new procedures dealing with report resubmission surcharges and the powers of ministry staff to require additional remediation after site cleanups have been certified by the ministry. These draft procedures have been reviewed by the Contaminated Sites Implementation Committee and are now available for a 90 day public

review and comment period. They can be found on our web site at:  
<http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

Comments received from the public will be considered along with those from other government and private sector stakeholders before they are finalized. All comments received before April 16, 2001, will be considered. Please send your comments to the E-mail address [site@gems6.gov.bc.ca](mailto:site@gems6.gov.bc.ca) or by mail/courier to:

Duncan Ferguson, P.Eng.  
A/Head, Site Information, Investigations and Standards  
Pollution Prevention and Remediation Branch, BC Environment  
PO Box 9342 Stn Prov Govt, Victoria BC V8W 9M1  
Phone (250) 387-9950 Fax (250) 387-9935

John E.H. Ward  
Manager, Environmental Remediation and Integrated Pest Management  
Pollution Prevention and Remediation Branch, BC Environment

## Contaminated Sites Services Application Process Streamlined

December 17, 2002

The Director of Waste Management recently streamlined the contaminated sites services application process. The changes improve the way applications for Approvals in Principle, Certificates of Compliance, and other services are administered by ministry staff, by focussing on casefile review turnaround times. Further information is available by checking out the ["New Services Application Process"](#) (160 KB) update.

## New Protocol for Site-specific Cadmium and Zinc Water Quality Standards

December 9, 2002

The Director of Waste Management has approved a new ["Protocol 10"](#) for developing site-specific water quality standards to protect freshwater aquatic life for cadmium and zinc, for water hardness up to 500 mg/L as CaCO<sub>3</sub>.

## Results of Audits of Submissions from the Roster of Professional Experts Available

December 4, 2002

In keeping with the ministry's enhanced emphasis on checking functions through increased monitoring, auditing and public reporting, findings of our random audits of submissions from the [Roster of Professional Experts](#) are now available for review at the link above.

## Analytical Method for Aliphatic / Aromatic Extractable Hydrocarbons by Silica gel Approved

December 2, 2002

The Director of Waste Management has approved for contaminated sites regulatory purposes a new analytical method entitled ["Aliphatic/Aromatic Separation of Extractable Petroleum Hydrocarbons in Solids or Water by Silica Gel Fractionation"](#) . It takes effect on March 1, 2003.

## Procedure for Mines Cost Recovery Fees Consolidates Provisions in Bill 32

November 5, 2002

The Director of Waste Management has approved a new procedure entitled Contaminated Sites Cost Recovery Fees for Mines. It has been created for the convenience of our Contaminated Sites Program staff, to consolidate the mines fees provisions adopted in the *Waste Management Amendment Act* (Bill 32) on May 10, 2002. There are no new provisions in this procedure beyond those already contained in Bill 32.

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

## Request for Comments on Draft Protocol for Cadmium and Zinc Water Quality Standards

October 31, 2002

The ministry is requesting comments on a [draft protocol](#) which provides a method to develop site-specific water quality standards for cadmium and zinc to protect freshwater aquatic life. A table of pre-calculated, pre-approved aquatic life protective site-specific water quality standards for cadmium and zinc for water hardness up to 500 mg/L as CaCO<sub>3</sub> is also provided. The comment period closes November 30, 2002.

Please send your comments to Glyn Fox.

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

## Request for Comments on Sediment Quality Criteria Documents

October 25, 2002

This message requests comments by December 13, 2002, on three draft documents recently prepared for British Columbia's Sediment Technical Committee:

- Criteria for Managing Contaminated Sediment in British Columbia (draft)
- Criteria for Managing Contaminated Sediment in British Columbia - Technical Appendix (draft)

- A Guidance Manual to Support the Assessment of Contaminated Sediments in Freshwater, Estuarine, and Marine Ecosystems (draft)

The [draft reports](#) may be viewed.

Please send your comments on the reports by December 13, 2002 to Mike Macfarlane, Manager, Contaminated Sites Review Project.

The primary purpose of this message is to elicit broad stakeholder review and comment pertaining to the scientific credibility of the proposed draft sediment quality values and ancillary technical support and guidance described within the reports. They are being posted for scientific and stakeholder review purposes only. The draft criteria have not been finalized for regulatory purposes and are subject to change. The ministry has made no decision related to the final form (i.e. standards, guidelines, criteria or screens) the proposed values and associated guidance will take.

The ministry is also evaluating the option of a stakeholder workshop as a forum for discussion. No dates have been established for a workshop as yet, however, stakeholder feedback on this option is being sought.

British Columbia's Federal/Provincial Technical Committee on the Development of Sediment Quality Criteria for Assessing and Managing Contaminated Sites was established in January 1998. Known as the Sediment Technical Committee, it consists of representatives of the British Columbia Ministry of Water, Land, and Air Protection (BCWLAP), Environment Canada (EC), and Fisheries and Oceans Canada (DFO). It was charged with the task of developing:

- a joint federal-provincial framework for assessing and managing contaminated sediments;
- a guidance manual to support the design and implementation of sediment quality assessments at contaminated sites; and
- Sediment Quality Criteria (SedQC) to support the management of contaminated sediments.

Environment Canada, Fisheries and Oceans Canada and the ministry are committed to a periodic review of these criteria and the approach used to establish them, in order to ensure that they are consistent with the best scientific information available at the time. The agencies acknowledge the lack of regional data contained in the databases used to establish the proposed sediment quality criteria and agree that these draft documents are the first step to developing a "made in B.C." sediment criteria.

The agencies have also suggested that the proposed values be re-evaluated after a three year period to ensure the scientific merits of the criteria remain valid and reflect new data and analysis methods as they become available. This three year review is consistent with the existing review timeline of the Contaminated Site Regulation. Accordingly, the following options are under consideration:

- Environment Canada in consultation with DFO, would establish and maintain a regional sediment chemistry/effects database (REG-SCED) for the purposes of facilitating the re-assessment of the sediment values at year three.
- Responsible Parties would be required to collect confirmatory bioassays following remediation at a Typical Contaminated (TSC) site, and these data would be used to evaluate the adequacy of the TSC criteria at the 3 year review. These data would not be used for regulatory purposes. Environment Canada and DFO may be able to complement this requirement by taking samples on a limited basis at some sites.
- The ministry would develop a sediment section as an addendum to its "Recommended Guidance and Checklist for Tier 1 Ecological Risk Assessment of Contaminated Sites in British Columbia, March 1997." This work would be completed as time and ministry budgets permit.

Please contact Mike Macfarlane if you have any questions.

John E.H. Ward  
 Head, Legislation and Finance Unit  
 Contaminated Sites Program  
 Ministry of Environment

### New Provincial Background Estimate for Cobalt in Water

October 22, 2002

On October 4, the following information was sent by Eric Partridge, Director of Waste Management, to Regional Managers in the ministry's Environmental Protection Division. It provides a provincial background groundwater value for cobalt, to address issues arising from amended cobalt water quality standards in the Contaminated Sites Regulation, passed last February. Here is the information sent by Eric on cobalt:

- Recent analysis of province wide groundwater monitoring well data indicates that the normal background concentration of cobalt in groundwater is approximately 20 µg/l (i.e. a grand mean for provincial data of 21.1 µg/l with lower and upper 95% confidence limits of 14.7 and 27.6 µg/l respectively).
- This estimate is based on relatively limited data obtained for monitoring wells located primarily in the Vancouver Island, Lower Mainland and Southern Interior regions of BC. This provincial estimate is subject to change should additional data from other regions within the province become available at a future date.
- In accordance with section 11 (3) of the Contaminated Sites Regulation, a site containing cobalt in water in excess of the Schedule 6 aquatic life standard (9 µg/l) but less than the provincial background estimate (20 µg/l) for cobalt is not a contaminated site. In applying this release, managers should be satisfied that the concentration of cobalt at a site does not include any contribution from local human made point sources and cannot

reasonably be attributed to commercial or industrial activities which may have occurred at the site

Please contact Glyn Fox or Doug Walton for further advice.

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

**Discussion Paper: Qualification Requirements for the Contaminated Sites Roster of Professional Experts**  
September 4, 2002

A subcommittee of the Contaminated Sites Roster Steering Committee was formed to critically review the current criteria and process used to recommend the appointment of individuals to the Contaminated Sites Roster of Professional Experts. A discussion paper, available at <http://www.apeg.bc.ca/>, presents the findings of this subcommittee. The recommendations made therein, as well as the comments received in response to the issues raised in this paper, will be considered by the Roster Steering Committee. Feedback in writing, from all interested individuals and groups, is requested by September 15th, 2002. Details on the method for providing feedback are contained within the paper.

John Ward  
A/Manager  
Toxics, Special Waste and Pesticides  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

**Minister's Advisory Panel on Contaminated Sites**  
June 12, 2002

On May 14, 2002, Joyce Murray, Minister of Water, Land and Air Protection appointed an advisory panel to carry out a review of the contaminated sites provisions in Part 4 of the Waste Management Act and the Contaminated Sites Regulation. The Panel has been asked to review of number of key components of the contaminated sites regime and will consult with citizens and stakeholders to determine their needs and expectations.

The Panel will report to the Minister in September 2002. The recommendations of the Panel will be used to develop a new policy framework for the regulation of contaminated sites in British Columbia and will be used to inform subsequent legislative changes required for the Spring 2003 Legislative session and consequential regulatory changes.

The Panel's Terms of Reference, a Request for Submissions and Comments from Interested Citizens and Stakeholders, and the Panel's schedule, together with biographical notes on each Panel member, are available at the following web address:

<http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

If you would like to contact the Panel directly, please contact:

Margaret Eriksson, Chair  
Advisory Panel on Contaminated Sites  
Suite 400, 601 West Broadway  
Vancouver BC V5Z 4C2  
Phone: (604) 675-6969 Fax: (604) 675-6947

The ministry's contact on panel business is Mike Macfarlane, who may be reached by telephone at (250) 356-0557 or by e-mail at [mike.macfarlane@gems2.gov.bc.ca](mailto:mike.macfarlane@gems2.gov.bc.ca).

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

**External Report Review Process Revised**  
May 15, 2002

Site owners and operators who want ministry approval of their site investigation or remediation reports and plans have three options to have their reports reviewed. The options include review by:

- \* ministry staff;
- \* external reviewers; or
- \* members of the roster of professional experts.

This message is to alert you to some recent changes that have been made to the second of these options -- the external review process.

The Waste Management Act and Contaminated Sites Regulation have provisions that allow the ministry to contract out report reviews to qualified external consultants. This provides clients with timely service by requiring the external reviewers to complete their report reviews for the ministry within specified times.

The changes to the process are described in revised "Fact Sheet 22. External Report Review Option: Summary of Fees and Time Schedule," which appears on our Internet site at:

[http://www.env.gov.bc.ca/epd/remediation/fact\\_sheets/index.htm](http://www.env.gov.bc.ca/epd/remediation/fact_sheets/index.htm)

Key changes include:

- \* the requirement that external reviewers must be members of the Roster of Professional Experts; and
- \* amended fees -- those for small, simple sites have generally increased, while those for large complex sites have generally decreased.

Please contact me if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

[Mines Amendments to Waste Management Act Explained in Detail](#)  
May 13, 2002

Last Friday I sent CS e-Link subscribers a message summarizing key amendments to the Waste Management Act made on May 9, 2002.

The purpose of this followup message is to direct you to a more detailed explanation of the amendments as they affect the mining industry in British Columbia. "Fact Sheet 12. Highlights for the Mining Industry" has been completely revised to discuss these amendments, and appears at the following Internet address:

[http://www.env.gov.bc.ca/epd/remediation/fact\\_sheets/index.htm](http://www.env.gov.bc.ca/epd/remediation/fact_sheets/index.htm)

The full text of the amendments appears at: [http://www.leg.bc.ca/37th3rd/3rd\\_read/gov32-3.htm](http://www.leg.bc.ca/37th3rd/3rd_read/gov32-3.htm)

Please contact me if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

Waste Management Amendment Act (Bill 32) Now in Effect  
May 10, 2002

Royal assent was provided to the Waste Management Amendment Act (Bill 32) yesterday to amend and improve the contaminated sites process in British Columbia. The amendments appear at the following Internet address:

[http://www.leg.bc.ca/37th3rd/3rd\\_read/gov32-3.htm](http://www.leg.bc.ca/37th3rd/3rd_read/gov32-3.htm)

A new update from the ministry's Contaminated Sites Program explains the highlights and is available on the Internet at:

<http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

The amendments eliminate overlaps between the Mines Act, administered by the Ministry of Energy and Mines, and the Waste Management Act, administered by the Ministry of Water, Land and Air Protection, while maintaining strong environmental and human health protection standards. The amended legislation formalizes the mines framework agreement signed last July by the two ministries, to address concerns by the mining industry over the need to comply with two sets of rules for contaminated mine sites.

This ministry retains responsibility for the regulation of contamination at historic mine sites, for hydrocarbon and chemical spills and the discharge of other substances to the environment at mine sites. In most cases, the reclamation and remediation of mines will now be handled directly by the Ministry of Energy and Mines.

The amendments also eliminate disincentives to the transfer of mine ownership by limiting the liability of past owners of mines for contamination and ensuring that it is passed on to current owners. Companies are expected to be encouraged by the amendments to re-use historic mine sites.

Early next week I expect to send you a revised version of "Fact Sheet 12. Highlights for the Mining Industry" which explains in greater detail the amendments as they relate to mines.

With these amendments, clarity is brought to a procedure set out in the Waste Management Act that allows people filing a legal action to recover the costs of remediation from those who caused the contamination. In the past, the procedure resulted in conflicting court decisions about the prerequisites for filing a legal action.

Also, the requirements have been clarified in a number of statutes linked to the Waste Management Act for authorizations sought for various activities usually associated with the development of lands which may be contaminated. These amendments also contain four new provisions which streamline the development of lands which may be contaminated.

Please contact me if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

New version of Protocol 7 issued  
April 30, 2002

The Director of Waste Management has authorized a new version of Protocol 7: "Protocol for Regulation of Petroleum Hydrocarbons in Water under the Special Waste and Contaminated Sites Regulation".

It has been written and issued under the authority of the Special Waste Regulation. It revokes and replaces the former version of Protocol 7 issued on July 19, 1999, under the authority of the Contaminated Sites Regulation.

This new version clarifies the conditions under which water exceeding the leachate quality standards of the Special Waste Regulation for benzene, ethylbenzene, toluene and xylenes is exempted from the regulatory regime of the Special Waste Regulation and is instead managed in accordance with the regulatory requirements of the Contaminated Sites Regulation.

This revised protocol will take effect May 13, 2002. Both the new and the current protocol are available at:

[http://www.env.gov.bc.ca/epd/remediation/policy\\_procedure\\_protocol/protocols/pdf/protocol\\_7.pdf](http://www.env.gov.bc.ca/epd/remediation/policy_procedure_protocol/protocols/pdf/protocol_7.pdf)

Please contact Dr. Glyn Fox at [glyn.fox@gems3.gov.bc.ca](mailto:glyn.fox@gems3.gov.bc.ca) if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

New Developments on the Roster of Professional Experts  
April 29, 2010

On February 7, I sent out a call for nominations of a lay representative to the Roster Steering Committee under the contaminated sites provisions of the Waste Management Act.

I am pleased to inform you that Ms. Patricia Houlihan was appointed by the Director of Waste Management as the lay representative to the roster steering committee on April 9, 2002. Background information about Ms. Houlihan is provided at the following web address:

[http://wlapwww.gov.bc.ca/epd/epdpa/contam\\_sites/roster/lay\\_representative\\_selected.html](http://wlapwww.gov.bc.ca/epd/epdpa/contam_sites/roster/lay_representative_selected.html)

The role of a lay representative is to:

- \* sit as a voting member of the Roster Steering Committee in respect of all matters, processes and deliberations brought before the Roster Steering Committee other than those related to specific investigations or audits,
- \* sit as a non-voting member of the Roster Steering Committee in respect of all matters, processes and deliberations brought before the Roster Steering Committee that relate to specific investigations or audits, and
- \* offer advice and comment to the Roster Steering Committee in respect of all matters, processes and deliberations brought before the Roster Steering Committee and to provide a lay perspective to those deliberations.

The Roster of Professional Experts is a list of professionals within private industry who have demonstrated through examination and experience an expert level of knowledge in technical and regulatory aspects of contaminated site assessment, remediation and management. The Roster Steering Committee is responsible for the administration and management of the Roster of Professional Experts.

The functions of the lay representative have been incorporated in section 3.5 of the revised ministry Procedures for the Roster of Professional Experts under the Contaminated Sites Regulation at:

[http://www.env.gov.bc.ca/epd/remediation/policy\\_procedure\\_protocol/procedure/pdf/roster\\_procedure.pdf](http://www.env.gov.bc.ca/epd/remediation/policy_procedure_protocol/procedure/pdf/roster_procedure.pdf)

For further information regarding the Roster and Roster Steering Committee, you can consult the following web address:

[http://www.env.gov.bc.ca/epd/remediation/fact\\_sheets/pdf/fs30.pdf](http://www.env.gov.bc.ca/epd/remediation/fact_sheets/pdf/fs30.pdf)

Please contact me if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

[Correction to Consolidation of Contaminated Sites Regulation](#)  
[March 5, 2002](#)

Yesterday I wrote to inform you about a new consolidated version of the Contaminated Sites Regulation, current as of February 21, 2002, on our web site. One of our subscribers noted that the matrix numerical soil standards for benzo[a]pyrene in schedule 5 had been inadvertently omitted. This matrix has now been replaced and the entire consolidated regulation updated. It appears at the same web address:

[http://www.env.gov.bc.ca/epd/remediation/leg\\_regs/csr.htm](http://www.env.gov.bc.ca/epd/remediation/leg_regs/csr.htm)

Please contact me if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

[New Search Function Available for Contaminated Sites Web Pages](#)  
[March 4, 2002](#)

You can now search the ministry's contaminated sites web pages using a search function tailored specifically for our Contaminated Sites Program's section of the ministry's Internet site. The function can be accessed by clicking on "Search" in the top menu bar, for any of the contaminated sites documents. Also, it may be located at the following web address: [Search](#)

To narrow your search to target specific information you need, you can use the advanced search functions.

Please feel welcome to contact me if you have any comments or questions.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

[Consolidated Version of the Contaminated Sites Regulation Now on the Internet](#)  
[March 4, 2002](#)

This CS e-Link message is to inform you that a consolidated version of the Contaminated Sites Regulation, current as of February 21, 2002, is now on our web site. It, together with the specific amendments to the regulation made on February 4, appear at the following web address:

[http://www.env.gov.bc.ca/epd/remediation/standards\\_criteria/index.htm](http://www.env.gov.bc.ca/epd/remediation/standards_criteria/index.htm)

Please contact me if you have any questions or comments.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

[New Director's Standards for Methyl Tertiary Butyl Ether \(MTBE\) Under the Contaminated Sites Regulation](#)  
[February 19, 2002](#)

Eric Partridge, the ministry's Director of Waste Management under the Waste Management Act, approved the "Water Quality Standards for Methyl Tertiary Butyl Ether (MTBE)" today. They come into effect on March 1st, 2002, and can be found on our web site at:

[http://www.env.gov.bc.ca/epd/remediation/standards\\_criteria/index.htm](http://www.env.gov.bc.ca/epd/remediation/standards_criteria/index.htm)

Director's standards have the same legal standing as the numerical soil and water standards listed in Schedules 4, 5 and 6 of the Contaminated Sites Regulation. They will be consolidated into the schedules of numerical standards of the Contaminated Sites Regulation as the opportunity arises.

These standards were derived from ministry water quality guidelines for MTBE which were approved, after a public comment period, in July 2001. They are located at the following web address:

<http://wlapwww.gov.bc.ca/wat/wq/BCguidelines/mtbe.html>

Comments on the water quality guidelines for MTBE received from stakeholders during consultations on the proposed Director's Standards for MTBE under the Contaminated Sites Regulation have been forwarded to the ministry's water quality staff for review. If changes to the ministry's MTBE water quality guidelines for MTBE are appropriate, the standards for MTBE under the Contaminated Sites Regulation will be reviewed and amended as appropriate.

Please feel welcome to contact me if you have any comments or questions.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

Clarification of Notification of Neighbours Provisions in Contaminated Sites Regulation  
February 14, 2002

Dear Contaminated Sites Stakeholders: Since the second stage amendments to the Contaminated Sites Regulation came into effect on February 4, 2002, a number of people have questioned the application of the new requirements for notification of neighbours about the migration of substances onto the neighbour's site. These new provisions now appear in section 57 and 60.1 of the regulation:

Notifications for Independent Remediation

57 (1) A responsible person who carries out independent remediation of a site pursuant to section 28 (1) of the Act must, if the responsible person knows that one or more substances has migrated or is likely to have migrated to a neighbouring site and is or is likely causing contamination of the neighbouring site, provide the notification described in subsection (1.1).

(1.1) The responsible person must provide written notification to the person or persons who own the neighbouring site and a copy of the notification to the manager, within 15 days after the responsible person becomes aware of the migration or likely migration of each substance to the neighbouring site, giving

- (a) the name and address of the person or persons who own the site or sites to be remediated,
- (b) the name, address and telephone number of the person to contact regarding the remediation activities to be undertaken at the site, and
- (c) a general description of the nature of the migration or likely migration of each substance.

Notification of neighbouring site owners after site investigations

60.1(1) A responsible person who carries out a site investigation that discloses that one or more substances has migrated or is likely to have migrated to a neighbouring site and is or is likely causing contamination of the neighbouring site must provide written notification described in subsection (2).

(2) The responsible person for the investigated site must provide written notification to the person or persons who own the neighbouring site and a copy of the notification to the manager, within 15 days after the responsible person becomes aware of the migration or likely migration of each substance to the neighbouring site, giving

(a) the name and address of the person or persons who own the investigated site,

(b) the name, address and telephone number of the person to contact regarding the investigation, and

(c) a general description of the nature of the migration or likely migration of each substance.

Callers have wondered if the requirement to provide written notification to a neighbouring site owner (with a copy to the manager) applies to independent remediation or a site investigation that has already been completed.

I have consulted with several legal advisors, who have provided the following interpretation:

\* There is no requirement in either of these new provisions for a responsible person to provide notification to a neighbouring site owner (with a copy to the manager) if a site investigation or independent remediation was completed by February 4, 2002.

\* There is a requirement to provide notification to a neighbouring site owner (with a copy to the manager), if a site investigation or independent remediation was underway on February 4, 2002, and that disclose that one or more substances has migrated or is likely to have migrated to a neighbouring site, and is or is likely causing contamination of the neighbouring site.

\* There is a requirement to provide notification to a neighbouring site owner (with a copy to the manager), if a site investigation or independent remediation is underway at any time after February 4, 2002, and that disclose that one or more substances has migrated or is likely to have migrated to a neighbouring site, and is or is likely causing contamination of the neighbouring site.

In simple terms, this means that the notification of migration is required for site investigations and independent remediation underway on or after February 4, 2002, but not before that date.

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

Call for Nominations: Appointment of Lay Representative to Roster Steering Committee  
February 7, 2002

The Director of Waste Management is seeking to appoint a lay representative to the Roster Steering Committee for the Roster of Professional Experts.

#### The Roster of Professional Experts

The Roster of Professional Experts is a listing of professionals within private industry who have demonstrated through examination and experience an expert level of knowledge in technical and regulatory aspects of contaminated site assessment, remediation and management. These experts, on appointment to the roster by the Director of Waste Management, are authorized under sections 47(1) or (4) or 49(1) of the Contaminated Sites Regulation to make recommendations to the ministry concerning the issuing of Determinations of Contaminated Site, and Approvals in Principle, Certificates of Compliance and Contaminated Soil Relocation Agreements for low to moderate risk sites.

#### The Roster Steering Committee

The Roster Steering Committee is responsible for the administration and management of the Roster of Professional Experts. The Committee's duties include examining and verifying the qualifications of roster candidates, recommending appointments to the roster and performing audits and investigations of roster members.

#### Qualifications of Lay Representative

To be considered for appointment as the lay representative, candidates should:

- \* Have a good understanding of normal committee process and administration,
- \* Have an understanding of the functions of self regulating bodies,
- \* Not be an employee of the Provincial government,
- \* Not represent an industry association, and
- \* Not work in a field related to contaminated sites management.

#### Nominations

Individuals, associations or groups may nominate anyone they believe might meet the above qualifications and be interested in serving as the lay representative.

Nominations including the name and contact particulars of the individual concerned should be forwarded by March 1st, 2002, to:

Glyn R. Fox, Ph.D.  
Senior Risk Assessment Officer  
Environmental Management Branch  
Environmental Protection Division

Ministry of Water, Land and Air Protection  
PO Box 9342 Stn Prov Govt  
Victoria BC V8W 9M1

e-mail: Glyn.Fox@gems3.gov.bc.ca

We look forward to receiving your nominations.

John E.H. Ward  
Head, Contaminated Sites  
Ministry of Water, Land and Air Protection

### Second Stage Amendments to the Contaminated Sites Regulation Passed January 10, 2002

On February 4, the province's process for cleaning up contaminated sites was improved and human health standards were updated, based on the best available science. The changes make it simpler and faster for contaminated sites to be cleaned up by landowners and other responsible parties, while ensuring strict environmental standards are met. This has been achieved through second stage amendments to the Contaminated Sites Regulation, which involve:

- \* Keeping cleanup standards current and based on the latest information about contaminants and their effects on the environment and human health.
- \* Requiring owners of contaminated sites to notify their neighbours if contamination is migrating onto their neighbours' property, which will prevent residents being left unaware of contamination and public health being put at risk.
- \* Allowing biological measures like blood lead levels to be used as standards for cleaning up contaminated sites, which will improve the assessment process.
- \* Giving qualified environmental consultants a bigger role in determining if a site is contaminated, which will reduce the amount of time needed for businesses to obtain certification that a site has been cleaned up.

The amendments can be viewed at:

<http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

They follow the completion of a required three year review of the 1997 Contaminated Sites Regulation to determine if changes were needed based on advances in science, law and the management of contaminated sites.

A wide range of stakeholders - including representatives from business, industry, environmental groups, public health, local governments and academia - worked with the ministry on reviewing

and improving the regulation. A new Contaminated Sites Program update summarizes the key changes to the regulation made in this package, and includes an appendix with details:

<http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

To view the remainder of the Contaminated Sites Regulation, excluding these most recent amendments, click on the following link: <http://www.env.gov.bc.ca/epd/remediation/cs101.htm>

John E.H. Ward  
Head, Contaminated Sites  
Environmental Management Branch  
Ministry of Water, Land and Air Protection

[Request for Comments on Proposed Director's Water Standards for MTBE](#)  
[January 9, 2002](#)

This is to request your comments on proposed new Director's numerical water standards for methyl tertiary butyl ether (MTBE) under the Contaminated Sites Regulation. They can be found on our web site at:

<http://www.env.gov.bc.ca/epd/remediation/updates/index.htm>

The proposed Director's standards for MTBE have already been reviewed by Ministry of Water, Land and Air Protection Regional Pollution Prevention staff and by the multistakeholder Contaminated Sites Implementation Committee.

This document would be used in the assessment and remediation of MTBE sites under the Contaminated Sites Regulation. The standards would have the same legal standing as those Generic Numerical Water Standards listed in Schedule 6 of the Contaminated Sites Regulation.

Please respond to Duncan Ferguson with your comments by February 11, 2002.

John Ward  
Manager, Contaminated Sites  
Pollution Prevention and Remediation Branch  
Ministry of Water, Land and Air Protection

## Policy Guidance and Draft Procedure for Determining Financial Security at Contaminated Sites in B.C.

December 17, 2003

Earlier this year, the Contaminated Sites Program retained Grant Thornton to provide advice on financial security at contaminated sites in British Columbia. Their final report and an accompanying decision matrix are posted on the Program web site for your review and comment. You will also find a draft procedure for determining financial security. All three documents are [available](#).

Please forward your submissions to John Ward by January 31, 2004:

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

### Extension of Time Period for EPH Equivalency to LEPH/HEPH

December 17, 2003

To allow time for the BC Laboratory Quality Assurance Advisory Committee - Technical Subcommittee and the Science Advisory Board for Contaminated Sites in British Columbia to resolve issues related to the equivalency of EPH and LEPH/HEPH analytical methods and results, the Director has instructed that the period during which such results will be deemed equivalent for contaminated sites regulatory purposes be extended to July 1, 2004.

For additional information see the document titled "[Clarification on Hydrocarbon Analytical Methods and Standards](#)" (160 KB). If you have any questions, please direct them to:

Glyn Fox  
Head, Science and Standards Unit  
Contaminated Sites Program  
Ministry of Environment

### Contaminated Sites Fees Amended

December 1, 2003

In January 2003 the Minister's Advisory Panel on Contaminated Sites recommended that fees for regulatory services must be clear, reasonable and proportionate with the services provided. In

addition, the Panel suggested market-level hourly rates when program personnel provide professional services. In tandem with a government-wide review of fees and licences, and in response to the ministry's Service Plan, the Contaminated Sites Program compared its fees with costs of delivering the program. This comparison revealed that fee revenues did not cover Program costs.

On December 1, the fees for the ministry's contaminated sites services were revised. The changes enhance government recovery of costs of program delivery. This has been achieved through amendments to the Contaminated Sites Regulation, which involve several key changes:

- consolidating and reducing the number of existing fees;
- increasing fees and introducing new fees;
- and providing fees both in lump sum and hourly rate format.

The amendments can be [downloaded](#).

A new [Contaminated Sites Program update](#) summarizes the key changes to the Regulation.

Please direct any enquiries on these amendments to:

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

### [Proposed Changes to EMA and CSR Dealing with Contaminated Sites](#)

October 23, 2003

Please read the following important update from Mike Macfarlane, Manager, Contaminated Sites Review Project:

Bill 57 was passed on October 21, 2003 and represented the first of an anticipated series of legislative amendments to the contaminated sites regulatory regime. The changes will further the Ministry's New Era Commitments and Service Plan goals to improve upon the current regime and are directed to ensuring sites are cleaned up and put back into productive use in a system that is efficient, timely, fair, and accountable.

The ministry is proposing to make the following legislative amendments to the contaminated sites provisions of the Environmental Management Act:

1. an amendment to remove the reference to "hazardous waste" from the definition of a "contaminated site" and "contamination" to reduce inconsistencies between the Contaminated Sites Regulation and proposed Hazardous Waste Regulation;

2. amendments to streamline the site profile process;
3. provisions to include the introduction of a notice of commencement of site investigation;
4. amendments to reduce Ministry oversight and improve remediation timelines due to greater involvement of qualified professionals in the administration of non-high-risk contaminated sites;
5. amendments to introduce two new statutory instruments, a "Record of Site Condition" and a "Letter of No Further Action" to provide more complete information to the ministry and public; and
6. provisions to create a fund known as the Land Remediation Fund to administer, monitor, support and encourage the remediation of brownfields in the province.

In respect of items 2 and 4 above, the Ministry has prepared two discussion papers on:

- proposed changes to the process which triggers mandatory site investigation; and
- proposed changes to the contaminated sites remediation process

The amendments proposed are intended to streamline the current contaminated sites legislation and process. The effects of these changes will ultimately be realized through a combination of changes to the regulation and the development of new protocols that will be done in partnership with industry, the Roster of Professional Experts and Science Advisory Board on a priority basis.

The Ministry welcomes your comments on these proposed amendments but requests that you provide submissions by November 21, 2003 to:

Mike Macfarlane  
Manager, Contaminated Sites Review Project  
Contaminated Sites Program  
Ministry of Environment

[Science Advisory Board Website](#)

October 22, 2003

The Science Advisory Board for Contaminated Sites in British Columbia (SAB) has now established their website at: <http://www.sabcs.chem.uvic.ca/>.

Subscribers to CS e-link are encouraged to visit the SAB's new website.

The website provides details related to the SAB Society including: a listing of the Society's Board of Directors, Terms of Reference for the SAB, activities and projects and a self-nomination form for scientists interested in joining the Society.

## Revised Laboratory Methods Manual Posted to Web

October 21, 2003

The ministry's Laboratory Services Section has revised the BC Laboratory Methods Manual and posted the new manual to the [ministry's lab services site](#).

Please note that the new methods manual incorporates several new or revised analytical methods (e.g. Chromium VI, hot water soluble boron) which will come into effect for Contaminated Sites regulatory purposes effective December 1, 2003.

Questions related to the new manual should be directed to:

[Steve Horvath](#)

Laboratory Services Officer  
Laboratory Services Section  
Air, Water & Climate Change Branch  
Environmental protection Division  
Ministry of Water, Land & Air Protection

## Request for Expressions of Interest - LEP Prof Dev Subcommittee

September 30, 2003

The Roster Steering Committee are soliciting participants for a Licensed Environmental Professional Development Subcommittee.

Please reply directly to Megan Begley, Roster Steering Committee Coordinator, if you have any questions.

Thanks,

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## Request for Comments - NSTS and Site-specific Standards

July 16, 2003

New documents on Nonscheduled Toxic Substances (NSTS) and Site-specific Numerical Water Quality Standards for VPHw and LEPHw have been posted to the Contaminated Sites Program internet site at <http://www.env.gov.bc.ca/epd/hazwaste/index.htm>

We welcome your comments.

Simon Shutter  
A/Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Water, Land and Air Protection

## Interim Equivalency of EPH, and LEPH and HEPH Petroleum Hydrocarbon Analytical Methods

June 6, 2003

In recognition of the common industry practice to equate extractable petroleum hydrocarbon (EPH) analytical results with light extractable petroleum hydrocarbon (LEPH) and heavy extractable petroleum hydrocarbon (HEPH) data, and to allow sites which may have been so characterized to be reviewed by the ministry, the Director of Waste Management has approved the equivalency of EPH, and LEPH and HEPH methods, until January 1, 2004.

Full details are provided in our [May 23, 2003 update](#) (163 KB).

Please contact [Glyn Fox](#) if you have any questions.

## Request for Comments on Draft Protocol 9. Determining Background Groundwater Quality

June 6, 2003

The ministry is requesting comments on a draft protocol which provides a method for determining local background concentrations in groundwater. It is intended to assist persons conducting remediation pursuant to the Waste Management Act at sites with local background concentrations of a substance or substances above numerical water quality standards. While this draft protocol is not intended to allow unrestricted water uses at sites where concentrations of a substance are representative of the local background groundwater concentration, it does provide a release from the requirement to undertake remediation at such a site.

The proposed protocol may be viewed under the heading "[Protocol 9 - Determining Background Groundwater Quality](#)".

The comment period closes on July 9, 2003. Please send your comments to the following address:

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

### [Key Changes to Contaminated Sites Regime Introduced and Advisory Panel Report Released](#)

May 14, 2003

The Government of British Columbia has introduced key legislative changes to the provincial contaminated sites regime. The proposed new rules were introduced as part of Bill 57, the government's new *Environmental Management Act*. They are expected to come into effect when amendments to regulations are finalized later this year.

For further information refer to our Minister's Advisory Panel on Contaminated Sites page.

### [Temporary Process Approved for Characterizing Sites for MTBE](#)

April 17, 2003

A temporary process has been approved by the Director of Waste Management for the characterization of sites where methyl tertiary-butyl ether (MTBE) is a potential contaminant of concern. It is in effect until October 31, 2003, and has four key components:

- A continuing requirement to characterize MTBE in surface water and groundwater.
- A conditional release from the need to characterize MTBE levels in soil.
- Specified conditions under which Certificates of Compliance may be issued for MTBE in soil.
- Instructions on the applicability of the roster of professional experts process to sites with MTBE.

For further information on the temporary MTBE process check out the [April 15th Update](#) (166 KB).

## [New Administrative Process for Contaminated Soil Relocation Agreement Applications](#)

April 4, 2003

This is to request those clients who are applying for the approval of a Contaminated Soil Relocation Agreement under the Contaminated Sites Regulation to provide a completed Contaminated Sites Services Application with their submission package. Please note that the application packages should now be sent directly to our Client Information Officer, as described below.

The ministry's administrative procedures for dealing with the submission of contaminated sites applications, reports and plans were changed as of January 1, 2003 as described in an update

The update did not specifically mention new procedures for Contaminated Soil Relocation Agreements, and this message is to provide additional details.

First, all Contaminated Soil Relocation Agreement application packages must contain a completed Contaminated Sites Services Application form.

Second, all Contaminated Soil Relocation Agreement application packages must be sent, without a fee payment, to the Client Information Officer.

Note that clients will receive an invoice for the fees once the correct fees payable have been determined by our staff, following an initial quality assurance review of the application package.

If you have any questions about this new process, they may be directed to the Client Information Officer.

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

## [Roster of Professional Experts Invites Public to Attend Future Meetings](#)

March 20, 2003

The public has been invited to attend future open sessions of the Roster of Professional Experts. Please check out the following link to the letter of invitation for further details.

## [Contaminated Sites Administrative Guidance Documents 3 and 5 Updated](#)

February 24, 2003

This is to inform you that the Contaminated Sites Program's Administrative Guidance documents 3 and 5 have been revised. The amendments reflect recent changes made to streamline the administration and review of contaminated sites casefile submissions.

Administrative Guidance 3, entitled "Applying to the Ministry for Contaminated Sites Services and Site-Specific Information Requests" informs our clients and stakeholders how to obtain services through our new Client Information Officer. My CS e-Link message of December 17 last year explains in detail how the service application process has been streamlined.

Administrative Guidance 5, "Professional Expert Recommendations Relating to Low to Moderate Risk Sites" has been revised to update the submission requirements for members on the Roster of Professional Experts. The amendments are in response to major revisions to Protocol 6, "Determining the Role of the Roster of Professional Experts", which were announced in my January 9 message to stakeholders.

Please contact John E.H. Ward if you have any questions.

John E.H. Ward  
Head, Legislation and Finance Unit  
Contaminated Sites Program  
Ministry of Environment

## [Protocol 6 Revised to Allow More Sites to be Processed by Rostered Environmental Consultants](#)

January 9, 2003

The Director of Waste Management has approved a major revision [now superseded - see latest version] to the Contaminated Sites Regulation's Protocol 6, which defines the sites eligible for review by environmental consultants on the roster of professional experts. We expect that these changes will lead to a significantly higher proportion of sites being signed off through roster submissions to the ministry.

## Extension of Time Period for EPH Equivalency to LEPH/HEPH

December 17, 2004

A report "[Liability Protection for Approved Professionals in British Columbia](#)" has been written for the ministry by the legal firm Birchall Northey. If you have any questions or comments, please send them to [John Ward](#).

We invite qualified consultants to apply before the closing date of June 16, 2006, at 14:00.

Alan McCammon  
Manager, Brownfields / Olympics  
Land Remediation Section

## The Next Step to Backlog Reduction

November 2, 2004

This cs-elink message is to remind all stakeholders that:

Effective November 1, 2004, and under the authority of the new *Environmental Management Act*, all applications eligible under Protocol 6 shall be submitted as roster submissions by approved professionals. Please see <http://www.env.gov.bc.ca/epd/hazwaste/index.htm> for further clarification of application eligibility.

Vincent C. Hanemayer  
Senior Contaminated Sites Officer

## Licensed Environmental Professional - Request for Qualifications

October 19, 2004

This cs-elink message is to remind all stakeholders that:

The Roster Steering Committee is soliciting requests for qualifications for:

Project Manager, Practice Guideline Development - Deadline: Nov. 1, 2004.  
Professional Exam Setting Services - Deadline: Nov. 8, 2004.

For additional information on these postings, please link to the following web page:

<http://www.apeg.bc.ca/>

Vince Hanemayer  
Senior Contaminated Sites Officer

### [Sep. 28 Workshop on Contaminated Sites Legislation and Policy Development Proceedings](#)

October 19, 2004

The presentations provided by Contaminated Sites Program staff, the Science Advisory Board, and the Roster Steering Committee at the Sep. 28 workshop are now available on the What's New page on the CSP website.

[http://www.env.gov.bc.ca/epd/remediation/whats\\_new/index.htm](http://www.env.gov.bc.ca/epd/remediation/whats_new/index.htm)

Vince Hanemayer  
Senior Contaminated Sites Officer

### [Proceedings of Workshop on Contaminated Sites Legislation and Policy Development](#)

October 1, 2004

As promised at the [workshop](#), and for those unable to attend, you can download (in read-only power point format) the [Contaminated Sites Program presentations](#), the [Roster Steering Committee presentation](#) and the [Science Advisory Board presentations](#). In addition, the Contaminated Sites Program has prepared a [paper](#) that provides more detail on the recent and future changes.

We hope to post a record of the questions and answers at the workshop in the near future.

Workshop on Contaminated Sites Legislation and Policy Development and Forum for Contaminated Sites Practitioners September 8, 2004

This CS e-Link provides update information on the Workshop on Contaminated Sites Legislation and Policy Development and Forum for Contaminated Sites Practitioners.

#### **General Information**

Both events will be held at the Fletcher Challenge Theatre (Room 1900) located at the SFU Harbour Centre campus in downtown Vancouver, BC. Start times for both events will be between 8 and 9 am. The agendas for both events will be distributed once finalized. Participants who have not yet registered (see below) for either event are requested to do so by September 10, 2004.

General information on the event location, parking and TransLink access can be accessed [here](#). (Note: a map of the theatre location can be accessed at the "Rooms and Facilities" link located at the top of the above webpage).

## **Workshop on Contaminated Sites Legislation and Policy Development**

### **Forum for Contaminated Sites Practitioners**

- The date of the forum has been changed to Wednesday, October 6, 2004 due to a facility scheduling conflict. We apologize for any inconvenience this may have caused.
- We have received a limited number of comments and queries from practitioners and others for discussion at the forum. These range from the process of addressing off-site contamination to standards/guidelines for the assessment and remediation of salt impacted sites. Other issues raised have related to administrative processes as specified in guidance documents and protocols. Over the next week, we encourage all participants to consider and provide any other topics and/or any interpretative related questions for discussion at the forum. These are requested by September 17, 2004 to allow for internal consideration and preparation of a response. Topics not addressed at the forum will be logged and a response prepared following the forum.

Please email [George Szefer](#) if you have not yet registered to attend the forum and/or if you have any suggested topics, questions or comments.

### [Contaminated Sites Regulation Standards Amendments](#)

September 14, 2004

In our July 28, 2004 announcement, we provided links to the contaminated sites legislation on our ministry website and the Queen's Printer website. Since that time, the Queen's Printer has added the appended schedules, that contain standards and other information, to the Contaminated Sites Regulation (CSR). We hope to have Adobe Acrobat (PDF) versions of the schedules available shortly.

Changes to the standards can be summarized as follows:

- An aquatic life standard for calcium was added to Schedule 6. (This occurred inadvertently and erroneously and the number was repealed by a minister's order last week).
- Director's standards for MTBE and nonscheduled toxic substances as well as criteria for sediments have been added to the CSR schedules. This was necessary because the new legislation states that all director's standards and criteria cease to have effect one year after they have been made (see EMA 63.1(3)).
- Many of the substances in the schedules have been rearranged so that the groupings are consistent across the schedules.

- Standards for radioactive substances have been removed since the Ministry of Health leads the provincial regulation of radioactive substances.
- A number of instances of the NS (no standard specified) acronym have been removed from the matrix standard for mercury in Schedule 5 since they were not applicable for the specified land uses.

We have received some comments from stakeholders on typographical errors that occurred during publication. We appreciate this input and welcome any other comments on the new legislation. Please direct your enquiries to Mike Macfarlane, project manager of the Contaminated Sites Review ([Mike.Macfarlane@gov.bc.ca](mailto:Mike.Macfarlane@gov.bc.ca))

[To take your name off this distribution list, send an email to [majordomo@majordomo.env.gov.bc.ca](mailto:majordomo@majordomo.env.gov.bc.ca) with the words "unsubscribe cselink-1" in the first line of the body of the message.

### [Workshop on Contaminated Sites Legislation and Policy Development and Forum for Contaminated Sites Practitioners](#)

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Workshop on Contaminated Sites Legislation and Policy Development

- Please email [simon.shutter@gems4.gov.bc.ca](mailto:simon.shutter@gems4.gov.bc.ca) if you have not yet registered to attend the workshop.

Forum for Contaminated Sites Practitioners

- The date of the forum has been changed to Wednesday, October 6, 2004 due to a facility scheduling conflict. We apologize for any inconvenience this may have caused.

- We have received a limited number of comments and queries from practitioners and others for discussion at the forum. These range from the process of addressing off-site contamination to standards / guidelines for the assessment and remediation of salt impacted sites. Other issues raised have related to administrative processes as specified in guidance documents and protocols. Over the next week, we encourage all participants to consider and provide any other topics and / or any interpretive related questions for discussion at the forum. These are requested by September 17, 2004 to allow for internal consideration and preparation of a response. Topics not addressed at the forum will be logged and a response prepared following the forum.
- Please email [george.szefer@gov.bc.ca](mailto:george.szefer@gov.bc.ca) if you have not yet registered to attend the forum and / or if you have any suggested topics, questions or comments.

### [British Columbia's Proposed Licensed Environmental Professional Framework](#)

September 7, 2004

Please see following notice from the Roster Steering Committee (RSC) and LEP Development Subcommittee.

The draft framework for the LEP System in British Columbia, which provides preliminary details on important features of the new system, is now posted to the [APEGBC website](#) for public review and comment.

Please submit comments to [Megan Begley](#) by September 30, 2004.

Simon Shutter Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

### [Invitation to an Open Meeting of the Roster of Approved Professionals - Sep. 9, 2004](#)

August 24, 2004

Please see another notice from the Roster Steering Committee (RSC) and LEP Development Subcommittee.

An open meeting of the Roster will be held on September 9, 2004 from 9:30 am to 12:00 pm followed by a lunch. Details on the agenda and location will follow shortly.

Online registration for this event is now available at the following link:

<https://host.softworks.ca/AGate3/?f=APEGBC.0015>

If you have any questions, please do not hesitate to contact me.

Lise-Anne Vershinin  
Ph:604-412-4876  
Email: lvershinin@apeg.bc.ca

### Site Information Request Process Streamlined

August 23, 2004

A key improvement has been made to the site information request process with the introduction of amendments to the provincial contaminated sites regime in July. It will result in savings for those requesting information on sites in B.C.

We have amalgamated the two processes used for obtaining information on sites. The "site-specific information request" and "electronic site registry search" application forms have been combined - now one form, the "site information request" form will be used.

Under the old site-specific information request process, a fee of \$200 was charged for most searches for single sites. Now if a client wants the ministry to conduct a search, it will usually be done by the ministry on the electronic site registry, providing the same information, at about half the cost.

You may download the new site information request application form at:  
<http://www.env.gov.bc.ca/epd/remediation/forms/index.htm>

Clients will still have the option of performing electronic site registry searches themselves if they have a BC Online account, or of hiring a firm to do a search on their behalf. The BC Online website is located at: <https://www.bconline.gov.bc.ca/>.

For further details, please contact the Site Information Advisor at (250) 953-3855.

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## Upcoming Contaminated Sites Events

August 13, 2004

This CS e-Link provides notice of two upcoming contaminated sites events sponsored by the Contaminated Sites Program. Both events will be held in Vancouver and there will be no charge to attend. Depending on the response, we may host similar meetings in other parts of the province.

### **Workshop on Contaminated Sites Legislation and Policy Development**

The ministry is planning to hold a workshop to provide an overview of the recent, as well as upcoming, contaminated sites legislation and policy work. The workshop is scheduled for a full day on Tuesday, September 28, 2004 and is open to all stakeholders and the general public. Representatives from the Roster Steering Committee and the Science Advisory Board will also be present to update us on their work. Please email [simon.shutter@gems4.gov.bc.ca](mailto:simon.shutter@gems4.gov.bc.ca) if you plan to attend this workshop.

### **Forum for Contaminated Sites Practitioners**

As a separate event from the legislation workshop, the ministry is also planning a forum for contaminated sites practitioners. The purpose of the forum is to discuss ways the ministry can improve communication with, and education of, contaminated sites practitioners. The focus of the forum will be to hear what practitioners have to say, and therefore participation by practitioners will be very important in this regard. The forum is scheduled as a half day (possibly full day) event on Thursday, October 7, 2004. Stakeholders and the general public are also welcome to attend. Tentative topics include an overview of the contaminated sites program, information on the web, legislation and policy education, common issues in ministry reviews / roster audits, and interpretation issues.

We are requesting suggested topics and / or any interpretative related questions from practitioners in advance. This will maximize our ability to provide helpful answers and information at the forum.

Please email [george.szefer@gov.bc.ca](mailto:george.szefer@gov.bc.ca) if you plan to attend this forum and include any suggested topics, questions or comments.

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## New Contaminated Sites Legislation on Web

July 28, 2004

In our July 9 email, we announced the recent changes to the *Environmental Management Act* and the Contaminated Sites Regulation. We appreciate your patience while the government works to provide improved access to this legislation. You can now view annotated, consolidated versions of both EMA (Part 4) and the CSR through our contaminated sites program website. Existing documentation on our website will be updated shortly to reflect these changes.

In addition, Protocol 6 - Eligibility of Applications for Review by Approved Professionals - has been revised. Highlights include:

- For approvals in principle the timeframe for completion of remediation has been increased from 2 to 5 years.
- Eligibility for roster review of local background soil estimates based on regional background soil levels now allowed. Local background soil and water estimates by other means continues to require ministry pre-approval.
- Eligibility for roster review of part of a site clarified.
- Language has been updated to reflect recent changes to EMA and the CSR.

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## Deadline for Roster Application Extended to July 22

July 12, 2004

In consideration of the update sent late last week, the Roster Steering Committee has agreed to extend the application deadline for the next exam to Thursday, July 22. Please see the following link for exam information:

<http://www.env.gov.bc.ca/epd/remediation/roster/>

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## Amendments to Contaminated Sites Legislation

July 9, 2004

Over the past year, the Ministry of Water, Land and Air Protection has been drafting a number of legislative changes that are intended to improve our laws and standards. For contaminated sites, this work culminated in amendments to the Contaminated Sites Regulation, which were approved yesterday by the Lieutenant Governor.

The CSR amendments and a number of other Orders-in-Council approved this week, bring into force the *Environmental Management Act* (passed as Bill 57, October of 2003), create the new Waste Discharge Regulation and bring into force select provisions of a subsequent EMA amendment (Bill 13 - passed April 19, 2004). The *Waste Management Act* is repealed.

Over the next few days and weeks we will be providing more information on the background and implications of these recent changes. The Queen's Printer and Attorney General's ministry are working hard to publish the amendments and we will advise you as soon as they become available. We appreciate your patience as we roll out this new legislation.

Further amendments to EMA and the CSR are anticipated as the Ministry moves forward with its commitment to improving the contaminated sites regime in British Columbia.

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## Contaminated Sites Update - Next Steps Towards Backlog Reduction

July 9, 2004

This contaminated sites update is to advise you of the ministry's next steps to reduce application backlogs and to focus our limited resources on high-risk contaminated sites.

The ministry's latest Service Plan reaffirms the high priority that we have placed on reduction of the contaminated sites application backlog. For some time now, the ministry has been actively encouraging applicants to take advantage of the roster and external review options to minimize review turnaround times. In addition, the ministry has re-directed some applications to external and other review contractors at increased cost to the ministry. These and other efforts during recent years have reduced the backlog to a limited extent only.

Therefore, to further reduce the backlog, improve client service and meet Service Plan targets, the ministry is taking additional action including the following two key steps:

- Effective July 15, 2004, all eligible applications shall be submitted either as roster submissions or for external contract review. Eligible applications are those that qualify under Protocol 6 for the roster process and those that are eligible for external contract review including site investigations, remediation plans and confirmation of remediation reports. Please see <http://www.env.gov.bc.ca/epd/remediation/updates/index.htm> for further clarification of application eligibility; and
- Effective November 1, 2004, and under the authority of the new *Environmental Management Act*, all applications for low to moderate risk sites shall be submitted as roster submissions.

By taking these actions and continuing to improve our internal processing efficiencies, we anticipate a positive effect on backlog reduction. The number of applications that will be reviewed by those other than ministry staff will increase and review timelines will decrease.

Please see <http://www.env.gov.bc.ca/epd/remediation/updates/index.htm> for an overview of these changes and for answers to some of the questions you may have.

We hope the information in this contaminated sites update will help you plan your ongoing and future site investigation and remediation projects. We look forward to your continued assistance in eliminating the backlog of non high-risk contaminated sites applications.

Alan W. McCammon  
Assistant Director  
Contaminated Sites Program

### [Call for Comments on "Screening Risk Assessment - Level 1" and Other Announcements](#)

July 6, 2004

Please note the call for comments on two documents, prepared by the Science Advisory Board (SAB):

- Screening Risk Assessment - Level 1
- Report of the EPH/LEPH/HEPH Task Force

See [http://www.env.gov.bc.ca/epd/remediation/draft\\_documents/index.htm](http://www.env.gov.bc.ca/epd/remediation/draft_documents/index.htm) for links and instructions for responding.

Also, a new analytical method for silica gel cleanup of EPH has been posted to:  
[http://www.env.gov.bc.ca/epd/remediation/analytical\\_methods/index.htm](http://www.env.gov.bc.ca/epd/remediation/analytical_methods/index.htm)

Simon Shutter  
Head, Industry and Government Initiatives

Contaminated Sites Program  
Ministry of Environment

[APEGBC Discussion Forum: Roster of Professional Experts and Licensed Environmental Professionals](#)

June 15, 2004

Please see another notice from the Roster Steering Committee (RSC) and LEP Development Subcommittee.

A discussion forum on the Roster of Professional Experts and Licensed Environmental Professionals is now available from the [APEGBC Contaminated Sites website](#). To enter, click the "Discussion Forum" link along the right-hand side of the screen.

The parameters of the forum are clearly defined. Should any questionable content appear on this forum, it will be removed by the administrator.

Lise-Anne Vershinin  
A/Project Manager, LEP Development  
lvershinin@apeg.bc.ca

[Recommendations for a "Licensed" Environmental Professional System for Contaminated Sites in B.C.](#)

June 15, 2004

Please see following notice from the Roster Steering Committee (RSC) and LEP Development Subcommittee.

Recommendations for a "Licensed" Environmental Professional System for Contaminated Sites in British Columbia.

The Roster Steering Committee has been working diligently to establish a document outlining a Recommended LEP System for Contaminated Sites in British Columbia. The document in DRAFT form has been posted to the [APEGBC - Contaminated Sites website](#).

The draft document is linked under the "Important Announcements" section and on the right-hand side of the page under "Roster Steering Committee".

The document was developed based on the "Development of a New Contaminated Site Development Process in BC" survey which was completed in March 2004. The results of the survey were graphed and analysed and the trends were captured in this Proposal.

Please review and e-mail comments to my attention by June 28, 2004. Once comments are received and reviewed, the next milestone will be to present a finalized recommendation to the Ministry.

Lise-Anne Vershinin  
A/Project Manager, LEP Development  
lvershinin@apeg.bc.ca

### [Short Course Announcement - Director's Criteria for Contaminated Sediments](#)

April 6, 2004

Short Course on the Applications of the Director's Criteria for Managing Contaminated Sediments in British Columbia

On June 7 and 8, 2004, the Sustainable Fisheries Foundation (in conjunction with B.C. Water, Land and Air Protection) will be convening a short course on the applications of the recently released Director's Criteria for assessing and managing contaminated sediments in B.C. This short course will be convened at the Harbour Towers Hotel and Suites in Victoria, and will:

- Describe the purpose of the Director's Criteria;
- Describe the framework for assessing and managing contaminated sediments in the province;
- Provide background information on designing and implementing investigations of sediment quality conditions;
- Describe the numerical sediment quality criteria and their intended applications; and
- Present a series of case studies that illustrate how the criteria should be applied at contaminated sites.

Space is limited to first 100 registrants.

For more information on the workshop and a registration form, please visit the [Sustainable Fisheries Foundation](#) website.

Vincent Hanemayer  
Senior Contaminated Sites Officer

## New Criteria for Management of Contaminated Sediments

March 11, 2004

The Director of Waste Management has now approved the Director's criteria and 4 Volume Technical Guidance for dealing with the Management of Contaminated Sediments at Contaminated Sites under the Contaminated Sites Regulation.

These criteria and guidance came into effect for Contaminated Sites regulatory purposes March 5, 2004. These documents supersede the draft criteria and guidance posted for public and stakeholder comment in 2002 and replace previous ministry policy and advice related to the assessment and management of sediments at contaminated sites.

Copies of the criteria, guidance and the ministry's response to comments received on previous drafts of these documents can be downloaded from:

<http://www.env.gov.bc.ca/epd/remediation/guidance/index.htm> and  
[http://www.env.gov.bc.ca/epd/remediation/standards\\_criteria/index.htm](http://www.env.gov.bc.ca/epd/remediation/standards_criteria/index.htm)

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program

### Questionnaire on a New Licensed Environmental Professional (LEP) System for Contaminated Sites in B.C.

February 24, 2004

Please see following notice from the Roster Steering Committee (RSC) and LEP Development Subcommittee.

Important Questionnaire on New Contaminated Site Review Process for Completion by March 12, 2004.

The Roster Steering Committee and its LEP Development Subcommittee have issued a background document and questionnaire to further analyze and seek input on the key issues surrounding the development of a new contaminated site review process in B.C. The results of this important questionnaire will complete Stage 1 of the Roster Steering Committee's LEP development work and will form the basis for the type of LEP system that will be developed under Stage 2.

You are strongly encouraged to take 30 minutes to read the background document and complete the questionnaire, available at <http://www.apeg.bc.ca/index.html> (see link under "Important Announcements"), before March 12, 2004. If you will be observing the March 9 meeting of the Roster of Professional Experts, at which the background document and questionnaire will be

presented and further discussed, you are advised to delay responding to the questionnaire until after the meeting. If you have not already registered for the March 9 meeting and would like to, you may do so on-line from the link provided above.

Please feel free to forward this e-mail to others you feel should complete the questionnaire.

Megan Begley  
Project Manager, LEP Development  
APEGBC  
200-4010 Regent Street  
Burnaby BC V5C 6N2

Phone: 604-430-8058  
Fax: 604-430-8085  
<http://www.apeg.bc.ca/index.html>

### Protocol 9: Determining Background Groundwater Quality

February 4, 2004

The Director of Waste Management has approved Protocol 9: Determining Background Groundwater Quality. This protocol provides a procedure for determining local background concentrations in groundwater. It is intended to assist persons conducting remediation where local background concentrations of a substance or substances are above numerical water quality standards. In the protocol, concentrations of a substance that occur naturally in a geographic area are considered to be representative of background concentrations. The protocol may be found at [http://www.env.gov.bc.ca/epd/remediation/policy\\_procedure\\_protocol/index.htm#2](http://www.env.gov.bc.ca/epd/remediation/policy_procedure_protocol/index.htm#2) and complements Protocol 4: Determining Background Soil Quality, available at the same web location.

It is anticipated that the use of this protocol by rostered experts will be addressed through revisions to Protocol 6 (Determining the Role of the Roster of Professional Experts).

Please contact Peggy Evans ([Peggy.Evans@gov.bc.ca](mailto:Peggy.Evans@gov.bc.ca) or 250-356-8386) or Steve Dankevy ([Stephen.Dankevy@gov.bc.ca](mailto:Stephen.Dankevy@gov.bc.ca) or 604-582-5209) if you have any questions or comments.

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

February

## Standard for Nonscheduled Toxic Substances (NSTS)

February 4, 2004

The Director of Waste Management has now approved a Director's standard and technical guidance dealing with Nonscheduled Toxic Substances (NSTS)

This new standard and guidance, which came into effect for Contaminated Sites regulatory purposes January 30, 2004, supersedes previous ministry policy and advice related to nonscheduled toxic substances.

Copies of the standard, guidance and the ministry's response to comments received on previous draft NSTS documents are available at <http://www.env.gov.bc.ca/epd/remediation/index.htm>.

It is anticipated that the use of these new standards by rostered experts will be addressed through revisions to Protocol 6 (Determining the Role of the Roster of Professional Experts).

Questions related to these documents should be routed to:

Glyn Fox  
Head, Science & Standards Unit  
Contaminated Sites Program  
Ministry of Environment

February

## Screening Level Risk Assessment - Request from the Science Advisory Board for Contaminated Sites

January 30, 2004

The Science Advisory Board for Contaminated Sites in British Columbia (SAB) is developing screening risk assessment methodology and guidance for use in the ministry's proposed new regime for contaminated sites management in the province.

To assist the SAB in developing this new tool, the SAB is seeking information and input from CS e-Link subscribers.

To learn more about the screening risk assessment project and for details related to the input being sought by the SAB, please visit the SAB website at <http://www.sabcs.chem.uvic.ca/>

Simon Shutter  
Head, Industry and Government Initiatives  
Contaminated Sites Program  
Ministry of Environment

## [Report on Liability Protection for Approved Professionals Now Available](#)

October 25, 2005

A report "[Liability Protection for Approved Professionals in British Columbia](#)" has been written for the ministry by the legal firm Birchall Northey. If you have any questions or comments, please send them to [John Ward](#).

We invite qualified consultants to apply before the closing date of June 16, 2006, at 14:00.

Alan McCammon  
Manager, Brownfields / Olympics  
Land Remediation Section

## [Updated Site Information Request Application Form](#)

June 16, 2005

We have recently clarified the Site Information Request Application form to make it simpler for clients to use. If you apply for site information using this form, it would be appreciated if you would use this new version, which can be [downloaded](#).

Please contact [Chris Dalley](#) if you have any questions or comments.

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

June 8, 2005

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 to July 1, 2006 by the Director, Environmental Management Act.

Ministry guidance on this matter is contained in the [May 23, 2003 Update](#) regarding Clarification on Hydrocarbon Analytical Methods and Standards.

If you have any questions, please direct them to [Katherine O'Leary](#)

Water Quality Standard for Cobalt amended March 8, 2005

By minister's order, the Contaminated Sites Regulation (CSR) Schedule 6 water quality standard for cobalt to protect aquatic life has been amended from 9 µg/l to 40 µg/l. This change in standard is effective immediately.

The CSR Schedule 6 water quality standard for cobalt to protect aquatic life has been changed to reflect recent updating of the ministry's aquatic life ambient water quality guideline for cobalt. The ambient water quality guideline was changed on the basis of the ministry's review of new scientific studies which indicate cobalt is not as toxic to aquatic organisms as was previously believed.

If you have any questions related to the new standard please contact [Glyn Fox](#)

### [RSC Updates Regarding the Roster of Professional Experts and Licensed Environmental Professional \(LEP\)](#)

January 11, 2005

Please note the following information from the Roster Steering Committee.

Please take note of the following updates regarding the [Roster of Professional Experts and Licensed Environmental Professional \(LEP\)](#). A newsletter providing a more general update will be distributed in the coming weeks.

#### **Roster of Professional Experts Examination**

The Spring examination schedule and application documents have been posted [here](#). The materials posted provide detail on many changes to Roster eligibility requirements, the application process and the examination. Perhaps the biggest change is the inclusion of a new category of Roster expert: Risk Assessment Specialist. Individuals who qualified under the old system are now referred to as Standards Assessment Specialists. The application deadline for the Spring 2005 sitting of the examination is January 27, 2005.

#### **LEP Framework Report**

The LEP Framework Report, outlining important features of the proposed LEP system has been submitted to the Ministry of Environment for comment and approval. The final version, as well as a summary table compiling comments received in response to the draft report and the response to those comments, are posted [here](#).

#### **Questions**

If you have any questions on the above or on any other aspect of the Roster Steering Committee's work, please don't hesitate in contacting me.

Wishing you a great 2005,

Megan Begley  
Project Manager, LEP Development