

SOCIETY OF CONTAMINATED SITES APPROVED PROFESSIONALS OF BC

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SOCIETY OF CONTAMINATED SITES APPROVED PROFESSIONALS OF BC

ANNUAL REPORT 2018-19



OUR VISION

CSAP Society, a trusted resource for sound environmental stewardship.

OUR GOAL

- Building Awareness
- Sustainability
- Building the Value of the Society
- Education / Outreach
- Proactive influence with Ministry of Environment

ABOUT US

The Contaminated Sites Approved Professionals Society (CSAP Society) is an independent organization that is mandated by the Provincial Government, through the Ministry of Environment and Climate Change Strategy, to review environmental certification applications (submissions) made under the Environmental Management Act and Contaminated Sites Regulation and more specifically, Protocol 6.

The purpose of the society beyond the review of submissions includes cooperating and consulting with other professional and scientific bodies, stakeholders, local and provincial governments. Upholding and protecting the public's interest by ensuring the integrity, objectivity and expertise of members is important to the society.

In BC, the Ministry of Environment and Climate Change Strategy is responsible for regulations detailing safe and legal levels of soil and water contaminants.

Members of the CSAP Society are qualified to review all non-high risk environmental certification applications to ensure these regulations are being met.

They perform an important role for the government and for landowners by addressing potential contamination issues in a timely manner which helps advance redevelopment projects. All non-high risk sites seeking a ministry Certificate of Compliance must be reviewed by a Contaminated Site Approved Professional.

MEETING ACTIVITY 2018 / 2019

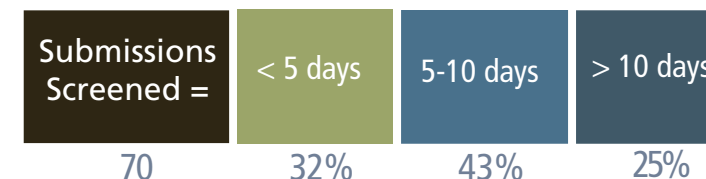
| DIRECTOR, INTERNAL & STANDING COMMITTEE MEETINGS | |
|--|---|
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| EXAM PROCESS MEETINGS | |
| 2 | LEAD EXAM MEETINGS |
| 2 | NUMERICAL EXAM WORKSHOP |
| 1 | NUMERICAL EXAM WRITING WORKSHOP |
| 2 | REGULATORY EXAM WORKSHOP |
| 1 | REGULATORY EXAM WRITING WORKSHOP |
| 2 | RISK EXAM WORKSHOP |
| 1 | RISK EXAM WRITING WORKSHOP |

TOTAL NUMBER OF MEETINGS = 70

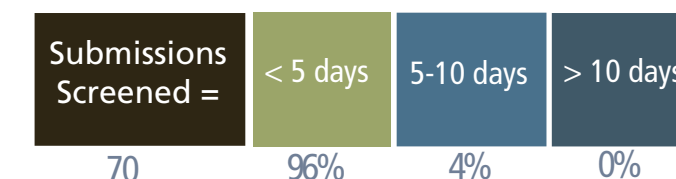
INSTRUMENT OVERVIEW 2018-2019



SUBMISSIONS DETAILED SCREENING TIME



SUBMISSIONS PRELIMINARY SCREENING TIME



Note: Approved Professionals Response time and Ministry of Environment time to release instruments not included.

SPECIAL THANKS TO OUR STAFF



Left to right - Janet, Nelly, Anna

Nelly Pomareda, Operations Coordinator

Anna Popova, Administrative Screener

Janet Phipps, Communications Consultant



GOVERNANCE COMMITTEE



Chair: Trish Miller,
M.Sc., R.P.Bio.

MEMBERS:

Andrea Akelaitis LLP (ENV Appointed)
Robin Jones, M.A.Sc., M.B.A., P.Eng., (Past President)
Cindy Ott, P.Ag., Geo.L, P.Chem., (Past President)
Greg Sutherland, Ph.D., R.P.Bio. (Past President)

COMMITTEE PURPOSE

The purpose of the Committee is oversight for the effective functioning of the Board of Directors and the committees, task forces, and any other work undertaken by the Board. The Committee is responsible for the assessment, development and recommendation to the Board for approval of governance principles, policies and practices for the functioning of the Board and Society.

OVERVIEW & ACCOMPLISHMENTS

The Committee took on a diversity of tasks this past year to support effective functioning of CSAP. Following up on last year's strategy for on-going operation of CSAP while our Executive Director (ED) was on leave, the Committee worked with our ED to develop a Succession Plan for our ED. The plan, which was approved by the Board, includes: i) a communications plan, ii) CSAP staff and Board roles and responsibilities, iii) detailed job description, iv) vital information summary, v) annual calendar of events. While our ED is back and healthy, the process of succession planning was useful for the ED, staff and the Board and has prepared CSAP for change in the future.

The Committee also took on review and updating of the CSAP Vision and Mission Statements at the request of the Board. The Committee reviewed statements from like organizations and narrowed down the wording that describes who we are in simple statements. The revised Vision and Mission Statements have been submitted to the Board for their approval and will be displayed in the CSAP office when finalized.

The Committee also has begun a process of reviewing updates to the terms of reference (TOR) and guidance for the various CSAP Committees. The TRC revised and updated their guidance and TOR and submitted them for review by the Governance Committee. Feedback was provided and the document was submitted to the Board for Approval.

The Committee was productive because of the contributions from Cindy, Andrea, Robin and Greg.

DISCIPLINE COMMITTEE



Chair: Tara Siemens-Kennedy, MET,
P.Chem., Director

MEMBERS:

Michael Geraghty, M.Sc., P. Geo
Chuck Jochems, P.Eng.
Vijay Kallur, M.Sc., FEC, P.Eng.
Dave Newton, P.Geo.
Alan Walker, M.Sc., P.Eng.

COMMITTEE PURPOSE

The Discipline Committee, on behalf of the Board, reviews complaints, and determines remedial measures for submissions found deficient through the Performance Assessment process.



OVERVIEW

In 2018/2019 the Discipline Committee continued to review remedial measures for submissions determined to be deficient through the Performance Assessment Committee.

In recent years we have been unable to use the remedial measure requiring that another Approved Professional (AP) review an APs work and co-sign the Summary of Site Condition. As such, and after hearing the concerns of our members regarding the current remedial measures, the committee has also initiated the process of identifying 'new' remedial measures. This work is underway, and we advise members prior to putting the any changes into place.

Remedial measures were assessed for five submissions found deficient by the Performance Assessment Committee.

No written complaints requiring disciplinary action were submitted to CSAP this year.

DISCIPLINE GUIDELINES

<https://csapsociety.bc.ca/members/discipline/>

CSAP AT A GLANCE

MEMBERSHIP BY SPECIALITY

- 93 Numerical Standards Specialists
- 17 Risk-based Standards Specialists
- 6 Numerical Standards / Risk-based Standards Specialists
- 116 = TOTAL MEMBERS**

BETTERING THE INDUSTRY

As part of the Society's commitment to bettering the industry, reviews of technical documents are undertaken at the request of the Ministry, Stakeholders as well as internally generated. White Papers and other projects designed to enhance our members' knowledge are conducted annually, the results of which are posted to the CSAP website.

Technical reviews completed: 73
Special projects completed: 31

RECENT ACCOMPLISHMENTS

CSAP Society established a new Detailed Screening Sub-Committee to review Screening issues and update the Screening tools with input from the Ministry of Environment and Climate Change Strategy.

CSAP announced the Mike Macfarlane Scholarship Award. This scholarship is named in honor of Past Director of Land Remediation Section Mike Macfarlane. In keeping with Mike's philosophy, this scholarship will be awarded to applicants who demonstrate innovation and forward-thinking.

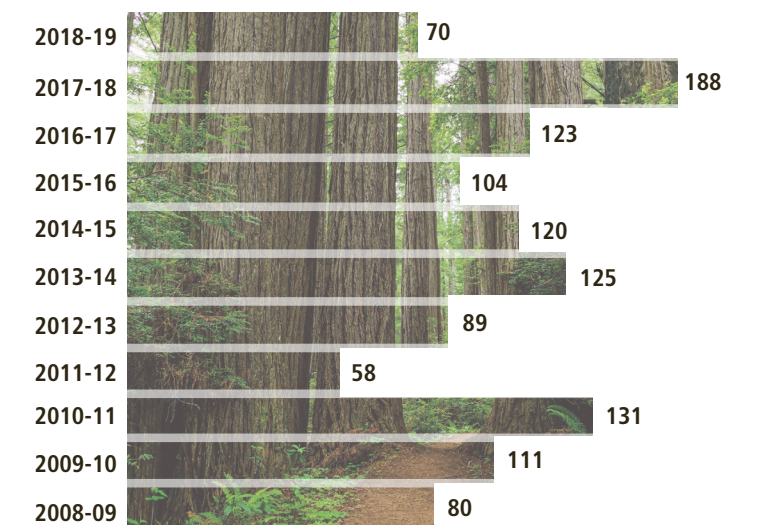


SUBMISSIONS PROCESSED UNDER PROTOCOL 6

Protocol 6: Eligibility of Applications for Review by Approved Professionals (APs), sets out the activities and recommendations that are required when making a submission on a non-high risk site. The site risk classification is determined by completing a Site Risk Classification form.

Starting July 1, 2008, the Society began processing submissions under ENV Protocol 6.

SUBMISSIONS PROCESSED ANNUALLY



SUBMISSIONS RECEIVED BY SECTOR

| | 2018-19 | 2017-18 | 2016-17 |
|------------------|-----------|------------|------------|
| Commercial | 48 | 133 | 74 |
| Municipality | 5 | 5 | 3 |
| Oil & Gas | 8 | 32 | 19 |
| BC & Crown Corps | 9 | 18 | 27 |
| TOTAL | 70 | 188 | 123 |

QUALITY ASSURANCE

To achieve consistently high standards among Approved Professionals, each submission receives a detailed administrative peer screening. Random audits are conducted on 1 in 8 submissions. These audits, or performance assessments, provide valuable feedback to the Approved Professional, serve as a check on the submissions process, and form the basis for continuous improvement.

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DETAILED SCREENING SUB-COMMITTEE



Chair: Bob Symington, P.Geo.

Peggy Evans, Manager, Risk Assessment & Remediation
Kerri Skelly, Manager, Risk Assessment & Remediation
Eva Gerencher, M.Sc., P.Ag.,
David Newton, P.Geo.
Tara Siemens-Kennedy, MET, P.Chem., Director
Anna Popova, Administrative Screener

COMMITTEE PURPOSE

The DSC was established in 2014 to design and implement a Submission Screening Process to be undertaken by CSAP on behalf of ENV. The DSC meets to review Screening issues and ENV feedback to fine tune and update the Screening tools and to disseminate this information to the membership.

OVERVIEW

In the past year, the DSC has been meeting regularly with the ENV to discuss the Screening process and Screening tools. Results of these reviews have resulted in amendments to the Screening spreadsheets and to the Screening Guidance.

In addition, the DSC has taken on the task of updating Procedure 12: Procedures for preparing and issuing contaminated sites legal instruments. Procedure 12 has been edited to reflect the Omnibus updates to the CSR and currently is with the ENV for review.

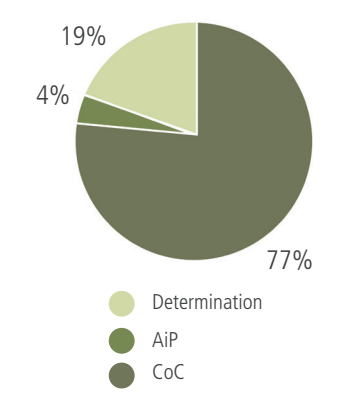
The DSC has also updated the Regulatory Instrument Templates. The Instrument Templates contain example Clause 1 and Clause 2 conditions used by APs in preparing their submissions, and it was noted that these clauses did not reflect the Omnibus changes to the CSR or ENV requirements. These updated templates are currently being reviewed internally prior to submission to ENV for their review.

DETAILED SCREENING

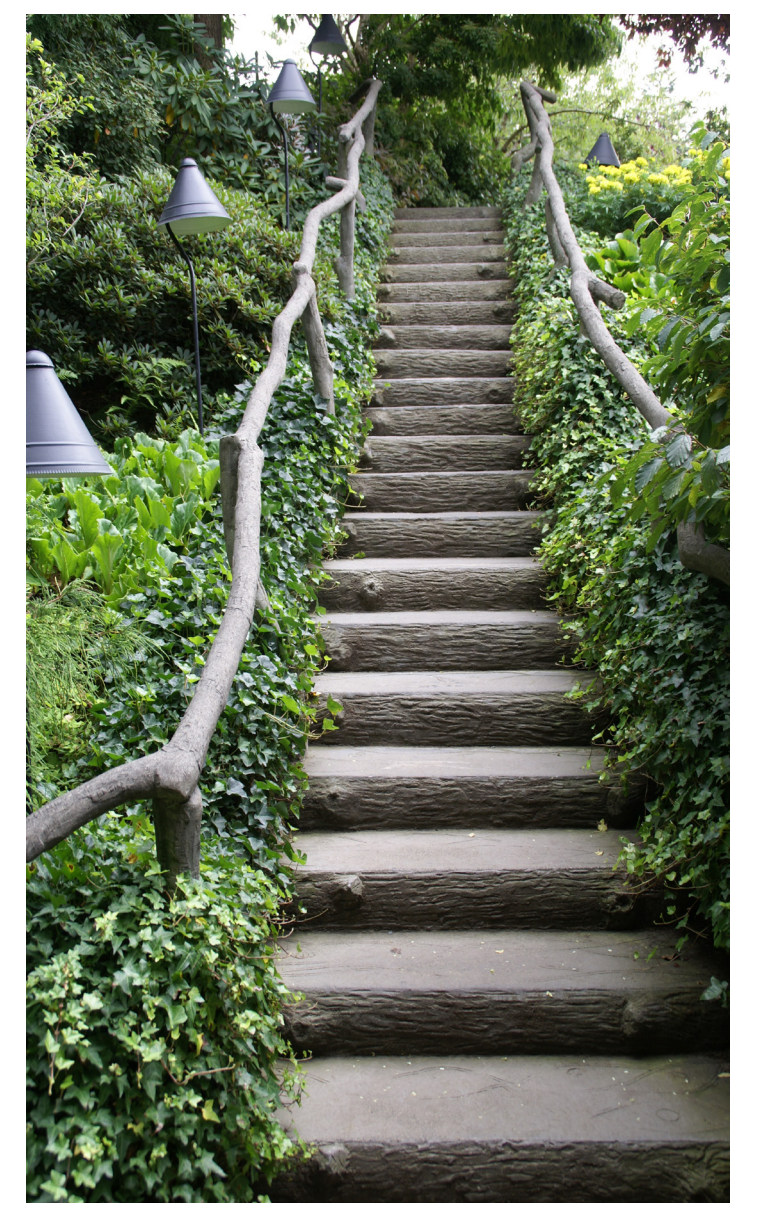
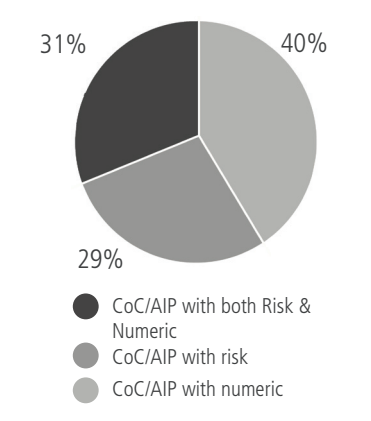
<https://csapsociety.bc.ca/members/guidelines/submission-screening/>

http://csapsociety.bc.ca/wp-content/uploads/CSAP-Admin-and-Detailed-Screening-Guidance-_July-2018-Current.pdf

POST OMNIBUS INSTRUMENT TYPES (52 REVIEWED)



TYPES OF STANDARDS IN COCS/AIPS POST OMNIBUS (52 REVIEWED)



PERFORMANCE ASSESSMENT



MEMBERS:

- Chuck Jochems, P.Eng.
- Ingo Lambrecht, P.Geo
- Duncan Macdonald, P.Eng.
- Trish Miller, M.Sc., R. P. Bio.
- Dave Mitchell, Ph.D., P.Eng.
- Tara Siemens-Kennedy, MET, P.Chem.

Chair: Eva Gerencher, M.Sc., P.Ag., Director

COMMITTEE PURPOSE

The Performance Assessment Committee (PAC) is responsible for ensuring that Approved Professional (AP) submissions recommending issuance of Contaminated Sites Regulation legal instruments meet quality assurance criteria as set out in the Performance Assessment (PA) Guidelines and Ministry of Environment & Climate Change (ENV) requirements. The PAC conducts review of one in eight submissions and others as selected on the recommendation of the Board and ENV or as a remedial measure for a previous assessment.



OVERVIEW

The PAC, together with the Detailed Screening Sub-Committee, completed screening of the 70 submissions received by CSAP in 2018-19 and undertook 12 performance assessments with timelines and outcomes summarized in the statistics. Initiatives completed or underway in 2018-19 include:

- Implementation of a process for information sharing on performance assessment findings and reporting to support the recommendation to improve transparency between ENV and CSAP in the Province's Professional Reliance Review (June 2018).
- Engagement with ENV to clarify expectations for completeness and accuracy of submissions for legal instruments; and to assess opportunities for acceptance of professional judgement within ENV's technical and administrative guidance and procedures for Protocol 6 submissions.
- Updating the PA Guidelines to ensure the assessment process is clear and consistent.
- Compiling and communicating "Lessons Learned" and regulatory changes to assist members with their submissions.

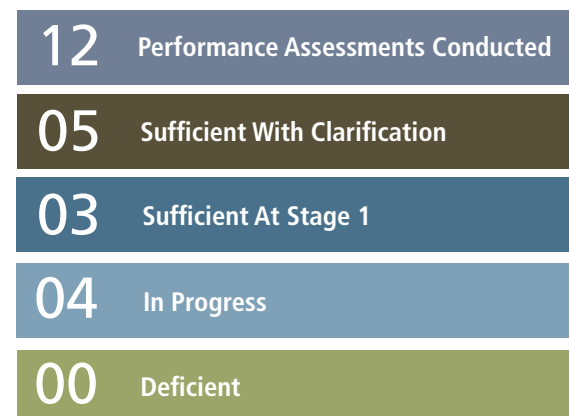
- Updating the PA Guidelines to ensure the assessment process is clear and consistent.
- Compiling and communicating "Lessons Learned" and regulatory changes to assist members with their submissions.

The PAC is grateful to ENV for the many opportunities for engagement regarding the performance assessment process and submission quality. Continuous improvement for the performance assessment process depends on the valued feedback of CSAP members and stakeholders and we encourage your continued input through surveys and comments.

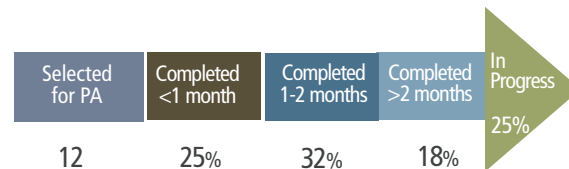
PERFORMANCE ASSESSMENT STATISTICS



PERFORMANCE ASSESSMENT CONDUCTED



PERFORMANCE ASSESSMENT TIMELINES



Note: Approved Professionals Response time and Ministry of Environment time to release instruments not included.

PERFORMANCE ASSESSMENT

<https://csapsociety.bc.ca/members/performance-assessment/>

MESSAGE FROM THE MINISTRY



On behalf of my colleagues at the Ministry of Environment and Climate Change Strategy, I wish to extend my sincere appreciation to all members of the Contaminated Sites Approved Professionals (CSAP) Society, for their ongoing support and dedication towards remediation of contaminated sites in British Columbia.

In addition to the ongoing implementation of the Stage 10/11 amendments to the Contaminated Sites Regulation, a twelfth stage of amendments addressed updating of Schedule 1.1 of the regulation, updating of terminology associated with wide area remediation plans, and several housekeeping changes. Based on feedback from stakeholders and CSAP members, a number of protocols were also updated.

The ministry is pleased with the progress made this year to prepare proposed amendments to the Environmental Management Act addressing the identification of contaminated sites in BC. Much has been learned since 1997 under the present site profile process and the opportunities for streamlining are well understood. The proposed changes are intended to increase efficiency and decrease the number of sites requiring a statutory decision maker's attention. Ultimately, this will result in more sites being investigated and remediated, and decreased risk to human health and the environment.

Close on the tail of the Site Identification Legislative Review Project is the ministry's review of BC's soil relocation provisions which are proposed to update and streamline the regulatory approach, increase transparency, and improve the ministry's ability to carry out compliance verification and enforcement. The objective of the Soil Relocation Legislative Review Project is to prevent the creation of contaminated sites due to soil relocation.

In 2018, the ministry issued 166 legal instruments and received Notifications of Independent Remediation for over 600 sites. Many of these instruments were processed based on the recommendations of CSAP members and the quality of remediation at these sites benefitted from the participation of these Approved Professionals.

The ministry remains confident and proud of the work completed by the CSAP Society and its members. The Working Groups within CSAP have played an integral role in contributing to the ministry's service plan with advice, support and funding. The ministry anticipates collaborating on future initiatives in the area of sustainable remediation and planning for the impacts of climate change on the remediation of contaminated sites in BC.

My thanks to Peter Reid, CSAP President; Catherine Schachtel, CSAP Executive Director; the CSAP Board of Directors; CSAP staff; and the members of the CSAP Committees and Working Groups, for their contributions and achievements in 2018.

Alan McCammon

A/Director, Land Remediation Section

BOARD OF DIRECTORS



Back row (left to right): Guy Patrick, Tony Gillett, Andrew Sorensen, Anne Bancroft-Jones, Andrea Akelaitis, Tara Siemens-Kennedy, Vince Hanemayer, Patrick Johnstone
Front row (left to right): Trish Miller, Eva Gerencher, Peter Reid, Beth Power

APPOINTED DIRECTORS

Andrea Akelaitis, LLB
Environmental Representative

Anne Bancroft-Jones, M.Sc., RPP
Industry Representative

Vincent Hanemayer, P.Eng.
Ministry Representative

Patrick Johnstone, P.Geo.
Local Government Representative

PARENT ORGANIZATION DIRECTORS

Eva Gerencher, M.Sc., P.Ag.
Chair, Performance Assessment Committee
BCIA

Tony Gillett, P.Eng.
Vice-President, Chair, Membership Committee
EGBC

Beth Power, M.Sc., R.P.Bio.
Chair, Technical Review Committee
CAB

DIRECTORS AT LARGE

Trish Miller, M.Sc., R.P.Bio.
Chair, Governance Committee

Guy Patrick, M.Sc., P.Eng.
Chair, Professional Development
Sub-Committee

Peter Reid, M.Eng., M.B.A., P.Eng.
President

Tara Siemens-Kennedy, P. Chem., MET
Chair, Discipline Committee

Andrew Sorensen, P.Eng.
Secretary & Treasurer

TECHNICAL REVIEW



MEMBERS:

Gary Lin, Ph.D., P. Eng.
Ian Mitchell, P.Geo.
Guy Patrick, M.Sc., P.Eng.
Jeff Taylor, P.Eng.
Christine Thomas, M.Sc.,
R. P. Bio.

**Chair: Beth Power, M.Sc.,
R.P.Bio., Director**

COMMITTEE PURPOSE

The Technical Review Committee manages the Technical Review Process, the CSAP Scholarship Program, the CSAP Small Special Project Funding Program and other technical issues on behalf of CSAP.

OVERVIEW

When requested, we conduct technical reviews from internal (e.g. CSAP Board of Directors, CSAP Committees) or external parties (e.g. BCENV). The TRC also conducts Special Projects to address AP-related issues and guidance.



TECHNICAL STUDIES

<https://csapsociety.bc.ca/members/professional-development/technical-studies/>

In 2018, three scholarships were awarded to graduate students whose research is related to contaminated sites:

Timothy S. Bientjes – Ecological Restoration, BCIT

John Morra – Environmental Toxicology, SFU (Mike Macfarlane Award recipient)

Darian Weber – Ecological Restoration, SFU



ACCOMPLISHMENTS

In 2018/19, CSAP completed the following Special Projects:

- Review draft of Tool kit #3: Framework for Evaluation of Remediation Options for Petroleum Hydrocarbon Sites – Remedial Technology Tool Kit
- Review draft of Tool kit #4: Methods & Tools for Sustainable Remediation of Petroleum Hydrocarbon Sites
- Leachate Test Verification (Laboratory Evaluation of Leachate Tests)
- Consolidated CSAP Questions & Answers

The following technical reviews are underway:

- Contaminated Soil Relocation Q&A
- Summary of vapour scenarios with high risk conditions
- Operational definition of where sensitive and typical sediment quality standards apply

The following Special Projects are due for completion shortly:

- PFOS Site Investigation Guidance
- Update to CSAP Soil Vapour Guidance

We thank everyone involved for working together to develop guidance and tools for AP practice. When finalized, TRC project reports are available on the CSAP website. Going forward, the focus for 2019/20 will be a small portfolio of Special Projects and addressing technical issues as they arise.

PROFESSIONAL DEVELOPMENT SUB-COMMITTEE



Chair: Guy Patrick M.Sc., P.Eng., Director

MEMBERS:

Art Hildebrand, P.Eng.
Lori Larsen, P.Ag.
Robert McLenehan, P.Eng.
James Smith, R.P. Bio.
Bob Symington, P. Geo.
John Taylor, P.Eng.

sustainability in remediation and risk management, as well as continuing to develop and deliver additional training webinars. We are also considering offering learning opportunities for our members, such as a hands on, face-to-face workshop on "Making a Submission", and "Using the New Submissions Manager". Please take a moment to give us feedback on this and other topics of interest. Thank you!

AGM 2018

| ATTENDEES | NUMBER | % |
|-----------|--------|-----|
| MEMBERS | 90 | 83% |

FALL PD WORKSHOP 2018

CSAPs Fall Professional Development Workshop unites our members and the boarder community. Some of the country's leading practitioners attend and present on a board range of relevant topics in the contaminated land sector. Members and Non-members are welcome to take participate in CSAPs interactive Fall PD Workshops.

| ATTENDEES | NUMBER | % |
|-------------|--------|------|
| MEMBERS | 88 | 67% |
| NON-MEMBERS | 44 | 33% |
| TOTAL | 132 | 100% |

MEMBERS UPDATE 2018/2019

The Member's Update allows CSAP to communicate changes, news, events, and updates from the Ministry of Environment and Climate Change on a quarterly basis. The Member's Update contains information on requirements to making a successful submission.

| SUBSCRIBERS | # OF SUBSCRIBERS |
|-------------|------------------|
| MEMBERS | 124 |
| NON-MEMBERS | 113 |

PD WEBINARS

<https://csapsociety.bc.ca/members/pd-webinars/>

COMMITTEE PURPOSE

The Professional Development Committee works diligently to provide learning opportunities for our members, bringing together expertise, experience and knowledge to support high professional standards and foster innovation.



OVERVIEW & ACCOMPLISHMENTS

Our work over the past year has included planning for last year's Fall PD Workshop and this AGM, preparation and delivery of new webinars, and support to the CSAP team overseeing the upgrade of the CSAP Submission Manager. We are looking forward to the launch of the revised Submission Manager sometime in the early Fall of 2019.

The Fall PD Workshop last November offered another informative look at "Lessons Learned" from Performance Assessments, information on the Detailed Screening process, and Ministry updates on various issues including groundwater background and amendments to Certificates. Technical sessions focused on climate change ("What's Climate Got to do With It?"), and we dove in to exciting topics and discussions around sea level rise, impacts on infrastructure, and effects on contaminated sites.

In the upcoming year, we plan to build on the momentum on climate change issues, delving into the topic of

MESSAGE FROM THE PRESIDENT



**Peter Reid
M.Eng., M.B.A., P.Eng.**

One year post Omnibus and the backlog of applications has been finally processed. We have settled into the routine of processing applications under the new regulations. We are all learning the practical implications of all the new substances being added with the Omnibus regulations along with the labs designing and accrediting new testing procedures.

The Professional Reliance Review came out last year and CSAP is working with the Ministry of Environment and Climate Change Strategy on the two recommendations applicable to them. It is always good to have an outside party complete a review and offer areas of improvement.

Our members continue to work on remediating, revitalizing and renewing sites throughout British Columbia. I understand that many of us are busy navigating the new standards and

bringing remediation projects to a close but I hope you are not too busy to take some time to relax and re-energize with friends and families. We should all take some time to enjoy "Supernatural British Columbia" at mountain scale instead of "1,3,5 tri-methyl-I-wish-I-did-not-waste-that" at the part per billion scale.

Finally, I would like to thank you for providing me the opportunity to serve you as president. I have learned much in the past two years and the society has grown. I look forward to settling down, doing more CSAP submissions, creating places for people to work, and places for people to live in the great province that we all share together.

Peter Reid, President

MESSAGE FROM EXECUTIVE DIRECTOR



**Catherine Schachtel
B.Ed.**

The Omnibus changes certainly remains a huge influence on the landscape, the volume of submissions received by CSAP in 2018 -19 was well below expectations even though many APs reported they were actively engaged. Nevertheless, CSAP continued to streamline the Performance Assessment (PA) process by adding several defined timelines to ensure that PAs proceed in a timely manner.

The Detailed Screening group is working to update the instrument Schedule B clauses and has provided a draft Procedure 12 for review by the Ministry.

CSAP completed a "website refresh" and our quarterly Members Update continues to enjoy strong readership of 56%.

Several practical webinars are planned, fall 2019, to provide practical advice on how to provide the information that the detailed screening requires by walking through the detailed screening sheet and the Summary of Site Condition. We also expect our online submission manager to be fully updated and back on-line in the fall.

I would like to thank the Directors who are stepping down this year; Peter Reid has been an enthusiastic, thoughtful President from the school of "getting things done", and Andrew Sorensen our "steady state" Secretary/Treasurer. They will be missed. I hope Peter will join other past Presidents on the Governance Committee.

Catherine Schachtel.

MEMBERSHIP COMMITTEE



MEMBERS:

Tadd Berger, M.Sc., EP, P. Ag.
Paul Embregts, P.Eng.
Tom Frkovich, P.Geo.
Michael Gill, P.Eng.
Raminder Grewal, P.Eng.
Simone Mol, Ph. D, P. Chem.
Sam Reimer, P. Ag. (Vice Chair)

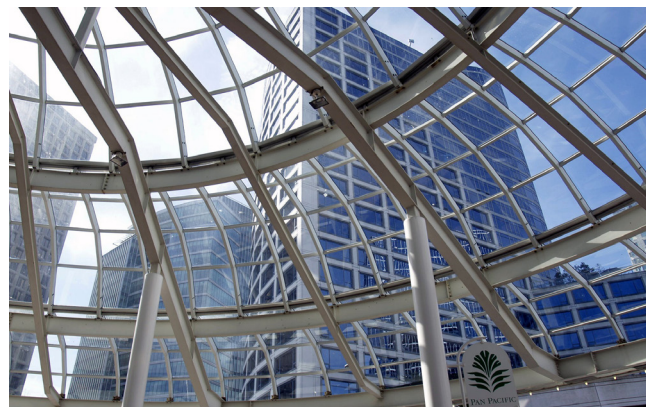
Chair: Tony Gillett, P.Eng., Vice President

COMMITTEE PURPOSE

- Administer the membership application and examination process;
- Verify that existing members maintain their qualifications

OVERVIEW

In 2018/19 the committee finalized revisions to the Membership Guidelines and CSAP Application forms in order to simplify the process for new applicants (work begun in 2017). The most recent versions of these documents are available on the CSAP Website. Building on this work the committee has focused on developing tools to support experience reviewers to simplify and standardize the review process. Additionally, the committee reviewed a variety of membership related policy issues at the request of the board and provided feedback to the board for further deliberation and decision making.



ACCOMPLISHMENTS

The committee developed new tools to support applicants and experience reviewers, including:

- Minor revisions to the Membership Guidelines and Examination Application Form for consistency;
- Updated FAQ list for new applicants regarding the application process;
- Preparation of additional example projects to provide guidance to new applicants on how to complete the work experience details section of their application;

- Definition of a "minimally competent candidate" to provide guidance to experience reviewers;
- Updated Experience Reviewer Recommendation form to clarify the basis for recommending an applicant to write the exam (or not) and clarify options for clarifying information or obtaining additional information from a candidate to support their application.

IMPORTANT DATES

Membership Fees Due – June 9, 2019
Examination Application Deadline (new candidates) – Jun 9/19
Examination Application Deadline (Members) – Sep 8/19
Exam Development Workshop – Sep 10, 11, 12, 13, 17, 18, 2019

Examinations:

- o **Technical (Numeric)** – Nov 5, 2019
- o **Regulatory** – Nov 6, 2019
- o **Technical (Risk)** – Nov 7, 2019

MEMBERSHIP STATISTICS

As of March 31, 2019, there were 116 APs (93 numerical standards APs; 17 risk-based standards APs; and 6 Dual Classification, 6 Associate Members, 32 APs renewed and 1 retired member.

NEW & RETIRING MEMBERS

Congratulations to the following candidates who have successfully completed the CSAP experience Review and Examination process, and have been appointed to the Roster on January 25th, 2019.

Numerical Standards Approved Professionals:

Sumeet Dogra, P.Eng
 Erin Robson, M.Eng., P.Eng

Risk Assessment Approved Professionals:

Michelle Anderson, R.P.Bio., P.Chem

Dual Classification (Numerical and Risk) Approved Professionals:

Blair King, R. P. Bio., P. Chem

Retiring Member:

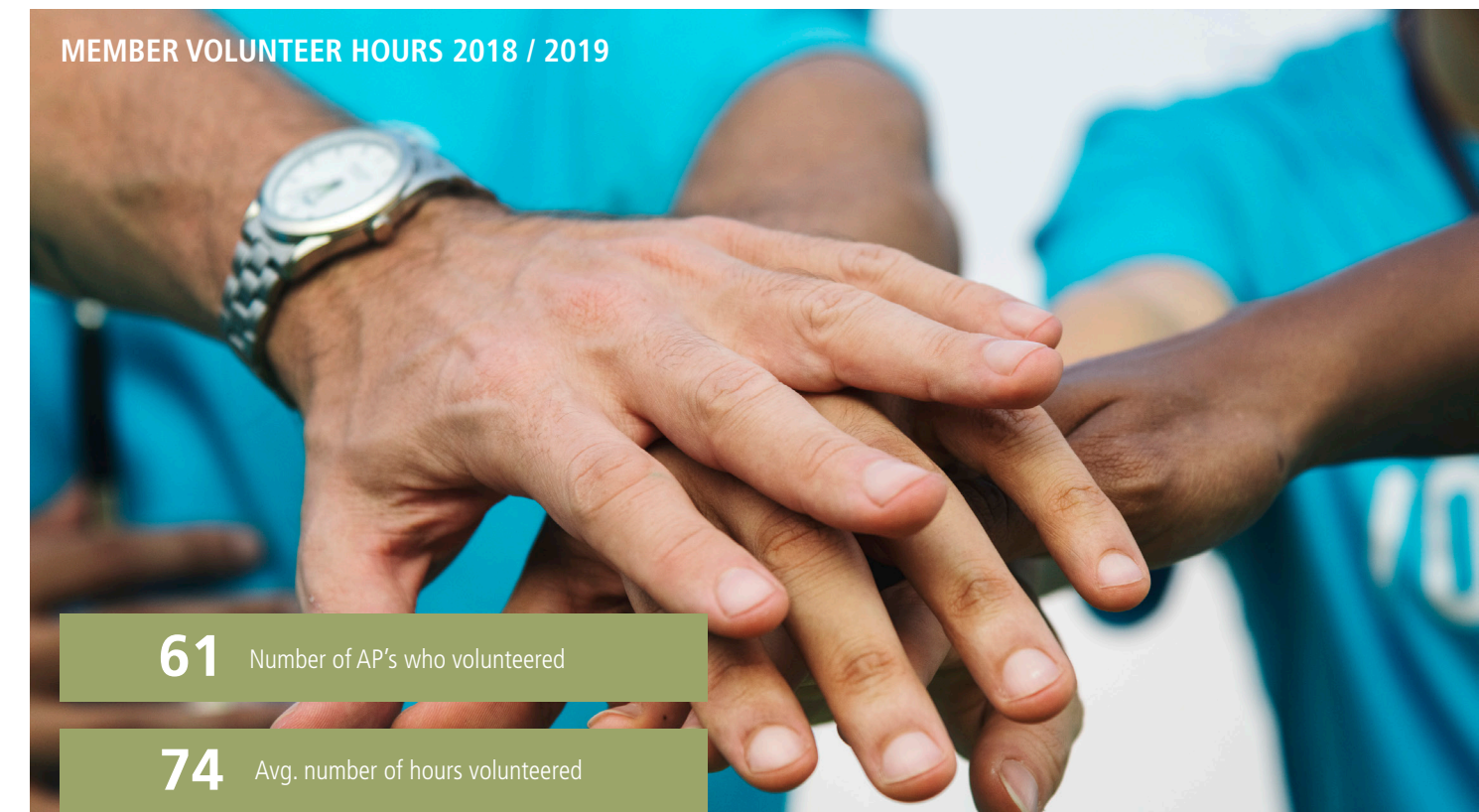
Paul Webb, P.Geo.

BY PROFESSIONAL ORGANIZATION AFFILIATION

- 84** Engineers and Geoscientists of BC
- 18** College of Applied Biology
- 14** BC Institute of Agrology
- 5** Association of the Chemical Profession of BC

MEMBER PARTICIPANTS 2018 / 2019

| | | | | | |
|---------------------|------------------|------------------|----------------------|-------------------|-------------------|
| Mark Adamson | Michael Geraghty | Ingolf Lambrecht | Ian Mitchell | James Smith | Paul Webb |
| Patrick Allard | Eva Gerencher | Lori Larsen | Simone Mol | Andrew Sorensen | Jim West |
| Tadd Berger | Michael Gill | Gary Lin | Dave Newton | Scott Steer | Jason Wilkins |
| Marc Cameron | Tony Gillett | Philip Lowery | Reg North | Greg Sutherland | Dave Williams |
| Patricia Carmichael | Raminder Grewal | Duncan Macdonald | Cindy Ott | Bob Symington | Ross Wilson |
| Jason Christensen | Gary Hamilton | Jim Malick | Guy Patrick | Jeff Taylor | Reidar Zapf-Gilje |
| Greg Danyluk | Craig Harris | Bonnie Marks | Beth Power | John Taylor | Diane Zorn |
| John DeCesare | Ian Hers | Ian Marsh | Stefan Quaglia | Christine Thomas | |
| Rob Dickin | Art Hildebrand | Blair McDonald | Lesley Reid | David Tiplady | |
| Brand Dorman | Martin Jarman | Michael McLeay | Peter Reid | Ajay Tumber | |
| Colin Dunwoody | Chuck Jochems | Robert McLenehan | Sam Reimer | Gabriel Viehweger | |
| Paul Embregts | Robin Jones | Trish Miller | Tara Siemens-Kennedy | Audrey Wagenaar | |
| Tom Frkovich | Blair King | Dave Mitchell | Michael Sloan | Alan Walker | |



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