



GUIDELINES SCREENINGS

VOLUME 16 / ISSUE 1

THE PUBLICATION OF THE **BRITISH COLUMBIA STONE, SAND & GRAVEL ASSOCIATION**



British Columbia Stone, Sand & Gravel Association

When the BCSSGA (Formerly known as the APABC) was formed in 1988, the association produced a set of objectives and, in the years following, augmented this with the drafting of a Mission Statement. The BC Stone, Sand & Gravel Association acts as the voice of the sand & gravel and quarried rock industry in BC. The BCSSGA is a non-profit organization that is registered under the Societies Act and is governed by its constitution and bylaws.

BCSSGA OBJECTIVES

As originally set out in 1988

1. To make the Association visible to the Provincial Government in order to facilitate the development of aggregate reserves and mines. The BCSSGA (APABC) has developed a Mission Statement that exemplifies its commitment to operating within the guidelines established by the Provincial Government responsible for Aggregate Mining.
2. To communicate the facts of Wealth Creation of the sand & gravel & quarried rock Industry, through taxation on property and income, and the legacy of redevelopment of aggregate mines after they are depleted, to the municipalities

hosting the aggregate mine, into reusable, productive developments for their citizens.

3. The BCSSGA encourages all of its members to participate in the development of Government policies that directly affect the sand & gravel & quarried rock Industry, through participation in the political systems, both Provincial and Municipal. The BCSSGA would like to see both forms of Government and Industry participate in the development of policies that will encourage investment in the sustainable development of BC's sand & gravel and quarried rock resources.
4. The BCSSGA provides an efficient and effective network for the exchange of information within the sand & gravel & quarried rock industry throughout B.C.
5. The BCSSGA encourages the on-line education of the sand & gravel & quarried rock Industry, to those who seek knowledge about our Industry, through the creation of SAFETY & EDUCATION materials that will be accessible on the Internet to all British Columbians.
6. The BCSSGA encourages the exchange of information between all Mining related industries throughout Canada, the United States of America and Europe. It is by exchanging this knowledge that Associations grow and prosper, and provide direction for their members.

BCSSGA

Mission Statement

TO ENCOURAGE the formulation of Government policies that support investment in the sustainable development of British Columbia's Aggregate Resource.

TO PROVIDE a network for the effective exchange of information within the Aggregate Industry throughout British Columbia.

TO COMMUNICATE the economic importance and environmentally responsible nature of the Aggregate Industry to the Public and to Government.

TO PROMOTE the exchange of information between the various mining-related associations throughout Canada.

TO PROVIDE cost effective services to a broad range of Industry Members within British Columbia.

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BCSSGA COMMITTEES

| COMMITTEE NAME | CHAIR | OTHER MEMBERS |
|---------------------------------|-------------------------------------|---|
| Action Committee | Derek Holmes | Jack Davidson, Chuck Willms, Scott Boshart |
| Financial Committee | Barry McLean | |
| Safety Committee | Dan Warrington | Dani Miller, Nikki Keith, Barry McLean |
| BC Construction Safety Alliance | | Paul Allard Ex-Officio |
| Screenings Newsletter | Paul Allard | Proofers: Jeff Watson. We need ideas from everyone! |
| Scholarships | Bob Esau | Markus Kopper, David Durante |
| Environmental Sustainability | Chen Mei | Dani Miller |
| Membership Recruitment | Everyone in the BCSSGA SHOULD HELP! | |
| Social Media Committee | Tyson Craiggs | Barry McLean, Derek Holmes |

MEMBERSHIP Has its Benefits!

CHECK OUT THESE FANTASTIC PROGRAMS AVAILABLE TO BCSSGA MEMBERS.



**WILSON M. BECK
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With over 30 years of construction insurance experience, Wilson M. Beck Insurance Services Inc. has a client portfolio that includes general contractors, developers, construction managers, civil contractors, and virtually every sub-trade that services the construction industry. We have the expertise to discuss emerging industry issues with underwriters such as silica exclusions and pyrite exposures and provide general liability extensions such as Rip and Tear coverage.

For information, please contact Nikki Keith, CAIB - Vice President

nkeith@wmbeck.com or 604-437-6200.



EMPLOYEE BENEFITS PLAN: WHAT'S IN IT FOR ME?

Our employee benefits program, with Tom Castonguay of ICBA Benefits Services Ltd., is now going into its fourth year with moderate success and your support is greatly appreciated.... Thank you!

The program is a revenue generator for the BCSSGA and each time one of our member's signs on, the BCSSGA receives a share of the ongoing commission. The additional revenues are a welcome supplement to membership fees and help fund operations and new initiatives.

In most cases your group can simply appoint 'Tom' as the broker on record of your existing plan - without changing insurance companies. Revenues are then re-directed to support BCSSGA.

Your support is important as we take on more initiatives and is deeply valued.

THE NEXT DEADLINE

for new material is
August 8th

SCREENINGS is always looking for useful information to pass on to our members! If you would like to write an article in 2017, or if you are an advertiser who would like to update your ad, the deadlines for 2017 are: **August 8th** & **November 8th**. We look forward to your input!

SCREENINGS is published by the BCSSGA as a service to its members. Statements expressed herein do not necessarily reflect the views of the BCSSGA or its sponsors.

To submit story ideas contact *Paul Allard, Editor, gravelbc@telus.net*

T: 778-571-2670 F: 778-571-2680 www.gravelbc.ca

A WORD FROM THE EDITOR

2017 is proving to be a challenging year for our aggregate (sand & gravel & quarried rock) sector, with the deployment of the Water Sustainability Act, the re-writing of the Health, Safety & Reclamation Code for Mines in BC, new mine permitting fees and various forms of challenges being presented by Regional Districts and Municipalities around the Province of BC.

The BCSSGA's membership continues to engage with the Province to ask them to make the responsibility for all mining activity, including the aggregate industry, to be a Provincial responsibility, and not place that burden on a Regional District or Municipality, as those Government agencies are not equipped to manage the aggregate industry in BC, with current staffing shortages.

I would love to hear from you from wherever you are in Canada, the USA or Europe, so please take a few minutes and send me a story about your Association, your company or a story about overcoming all the odds to make a successful business in the aggregate industry.

We all know that aggregate producers around the Province of BC are big supporters of local sports teams, local arts programs and educational programs for everyone in their communities and beyond. They typically run open houses to help the school aged children understand the sand & gravel and quarried rock industry and the valuable contributions that the industry makes to their neighbourhoods.

We are all familiar with the use of asphalt roadways, concrete sidewalks, house foundations, apartment towers and high rise office buildings. We use ready-mixed concrete to construct our schools, hospitals and sports complexes, every day, and that means we are constantly in need of aggregate products

to construct this new infrastructure and to repair the existing infrastructure, on a daily basis.

The aggregate industry is a vital part of your everyday life and contributes to the well-being of all British Columbians on a constant, regular, every day basis. The industry continues to grow as demand for sand & gravel & quarried rock continues to grow with every passing year. British Columbians consume more than 50 million tonnes of aggregates every year. That's just about one tandem truck load for every man, woman and child in BC! Every year!

The industry is the foundation of all construction work done in BC and supports safe, sustainable construction practices throughout the Province.

I invite you to visit our newly revamped web site at www.gravelbc.ca and send any comments to me at gravelbc@telus.net . I also invite you to submit an article about the aggregate industry in whatever part of the world you are in.

Thank you for visiting our newsletter and please reach out and tell us about your experiences with the aggregate industry as a Producer or as a Supplier of goods and services. I look forward to hearing from you and starting a dialogue about the aggregate industry with you.

Thank you,



Paul Allard - Editor



BCCSA'S SILICA CONTROL TOOL NOW "LIVE"!

-BY JACKIE BROWN ON BEHALF OF THE BC CONSTRUCTION SAFETY ALLIANCE



Walk onto any construction site and you're bound to encounter silica dust, well recognized as potential occupational disease hazard. Until recently, controlling exposures to the substance had been kind of hit and miss: contractors knew it was a problem but weren't always sure when, how, or even if they had to deal with it.

Now, thanks to generous support from the BC Construction Safety Alliance's (BCCSA) Research Development and Opportunity Fund, companies have access to a free, made-in-BC computerized solution that can be used to quickly and easily assess the risks and identify precautions required to protect workers.

Developed by the BCCSA in conjunction with WorkSafeBC and researchers from the University of British Columbia, the first-of-its-kind web-based Silica Control Tool (ST) brings into one place existing monitoring data gathered from an array of industry surveys and studies on worker exposures to silica dust. As users enter project-related information (including such variables as weather conditions and existing control mechanisms) into the online platform, the ST draws on the extensive database to create an exposure control plan (ECP) that fits the job and affords worker protection in line with WorkSafeBC regulations.

The ST, which can be accessed via computer or smartphone, is available at www.silicacontroltool.com. After creating a password, users have full access to all its features.

"We are very pleased and proud to announce the release of the Silica Tool, which has been three years in the making and offers easy-to-generate, real-time solutions to a long-standing issue for the construction industry," said Mike McKenna, Executive Director of the BCCSA. "Silica is everywhere but managing it can be challenging, especially for projects of shorter durations. This tool will go a long way towards removing the uncertainty."

Although it's only been "live" since April 10, all indications point to the ST being a winner when it comes to quickly, easily, and concisely managing silica dust exposure. Among its proponents so far is Anita Riddell, Safety Manager of Scansa Construction Ltd. in Victoria, who had been "eagerly awaiting" the roll out of a tool that promised to take the guesswork out of silica planning. "Prior to the ST, we used standardized forms to develop ECPs for each project, but there was always a chance of missing a step in the controls and information process," says Riddell. "With the ST, everything is in one place and it's impossible to advance to the next level until the previous one has been completed. As a concrete-based company, we will be using this tool as part of our daily planning."

Echoing Riddell's positive assessment is Gina Huber, Health & Safety Coordinator for Conroy Exteriors in Kelowna. Huber put the ST to the test for the first time on a recent

project that involved cutting fibre cement siding. "We got clear statements about the risks, exposure levels, and precautions we needed to take," she said. "The ECP was easy to read, and follow—especially for the installers—and navigating the site was super easy. This is going to save a lot of administrative time because I can simply go online when we have a new job, fill out the information, and print off the ECP for workers to review and take to site."

For both Huber and Riddell, the ST performed beyond pre-launch publicity and expectations. Indeed, it is expected to be a game changer for many companies.

The release of the ST—a first of its kind in BC and Canada—coincides with and was driven by WorkSafeBC's May 1, 2017 update of the OH&S Regulation to clarify employer requirements for protecting workers from silica dust and allow creation of ECPs based on existing monitoring data. Back in 2013, when WorkSafeBC announced the planned change, BCCSA's Mike McKenna and Jeff Lyth (former senior safety advisor, who played a key role during the early stages of development) began brainstorming about how to ensure contractors would be able to effectively respond. They eventually connected with Hugh Davies, Associate Professor of Occupational and Environmental Health at UBC's School of Population and Public Health, who is Principal Investigator for the Canadian Workplace Exposure Database Project.

Although the original idea was to help contractors source the Internet and other sources for existing silica dust exposure data they could use to develop an ECP, it soon became apparent the data available was inadequate. Discussions then turned to collecting and bringing as much data as possible into one place and creating an easy-to-use on-line tool. The Silica Control Tool Committee was created and included McKenna and Lyth; Davies, Don Schouten and Colin Murray from WorkSafeBC; and Project Manager Nancy Harwood of the Harwood Safety Group.

WorkSafeBC Vice-President of Prevention Services, Al Johnson, said the key to the project's eventual success was the tripartite approach. "This was essential. BCCSA guided the project from a needs and application basis, providing insight into what the employers required; UBC provided academic and research support to source and develop the data for coding, information, and mitigation categories; and WorkSafeBC provided technical, development, and review support that included establishing data validation criteria and a process to ensure all sourced data was accurate and applicable to the tool and in line with the occupational exposure limits (OELs) and regulatory requirements."

When asked if the ST could be expanded to include risk assessment and mitigation strategies for other hazardous materials, such as lead, Johnson said a number of considerations would first need to be met. But he agreed the idea has potential.

WELCOME NEW MEMBERS

The Wajax story is one of successful diversification from its modest beginning in 1858 as a small mechanical equipment repair shop to its present cutting-edge position in several industrial sectors. Over the years, Wajax has excelled at developing its expertise by consistently applying high standards of quality and service in every one of its sectors of activity.

We are constantly seeking new opportunities to put our expertise to work. Today, Wajax has evolved into a multi-line distributor of heavy equipment, with additional business ventures involving industrial components and diesel engines. Nationally, Wajax represents one of the largest dealer networks in Canada, boasting over 117 branch locations and 2300 employees.

Wajax operates within many industrial sectors with a dedicated team of specially trained Sales and Product Support Representatives to serve you. This ensures that Wajax has the specialized and focused

expertise to service your needs to provide timely and practical solutions to meet your needs.

As the second largest segment in Canada in the construction market, Wajax is pleased to announce the addition of Hitachi Wheel Loaders to their national distribution product portfolio.

The new Wheel Loader products range in capacity from the ZW50 at .75 cubic yards to the ZW550-5 at 9.0 cubic yards, providing a significant product range supporting a variety of applications in the construction, oil & gas, aggregate, governmental, mining, forestry, and waste & recycling industries.

All of us at Wajax are excited to be a part of the BC Stone, Sand and Gravel Association. We look forward to being an active member; formulating strong synergistic relationships that power the association into meeting and exceeding its' objectives.

HAYER & BOECKER'S HYDRO-CLEAN 1000 WASH PLANT

Haver & Boecker, a leading equipment manufacturer and solutions provider in aggregates and mining applications, introduced the skid-mounted Hydro-Clean 1000 Wash Plant as a complete solution. In addition to a Hydro-Clean 1000 washing system combined with a Tyler L-Class vibrating rinse screen, Haver & Boecker now offers semi-portability by mounting the complete system on a custom skid structure. The opportunity to purchase the three components together saves operations months of time they would have spent on designing and building a skid structure for a wash plant. The new package delivers maximum serviceability in a small footprint.

Haver & Boecker showcased the Hydro-Clean 1000 Wash Plant, at CON-EXPO-CON/AGG 2017 in Las Vegas.

"We're always looking for ways to solve our customers' problems and improve their productivity and efficiency," said Karen Thompson, president of Haver & Boecker Canada. Haver & Boecker combines the Hydro-Clean 1000, a single-deck, linear-stroke, 6-by-16-foot Tyler L-Class horizontal vibrating rinse screen and a skid structure to create the compact wash plant. The system processes as much as 200 tph of sellable product with its short retention times; using minimal water and power. During the cleaning process, the washed material works its way down the HC1000's drum and exits onto a discharge conveyor that leads to the L-Class wash screen.

The vibrating screen removes any remaining dirt or clay still on the stone as it fractionates the material. Haver & Boecker engineers drew on their extensive experience to design and build a skid structure perfectly suited for the semi-portable system.

Taking feed material as large as 6 inches (150 millimeters) into its 40-inch vertical drum, the Hydro-Clean 1000 employs 2,000 psi high-pressure nozzles, rotating at 90 rpm, to remove silt and clay particles as small as 63 microns from mineral mixtures.

The wash plant's other major component, the L-Class vibrating screen, uses a double-shaft overhead drive system, with direct-mounted motors, to provide multiple speed and stroke combinations in a compact design. With a horizontal screen, material spends more time on the deck for optimal cleanliness.

The HC1000 Wash Plant includes serviceability features for maximum convenience and safety. Haver & Boecker manufactures the plant with stairs, eliminating the dangers of carrying parts and tools up ladders. In addition, mechanics can easily use the plant's catwalks and platforms to reach service points, such as spray nozzles.

Haver & Boecker can engineer wash plants to customer specifications by, for example, including a different size or type of vibrating screen, more decks or different Hydro-Clean model.

FWS GROUP OF COMPANIES

FWS Group of Companies commenced operations over 60 years ago with origins based in conventional general contracting. Since then we have evolved into one of Canada's leading design builders, providing services in Ag-Industrial, Energy and Bulk Material Handling sectors.

FWS has developed an effective and proven project execution model that involves a fully integrated approach to Design-Build. Whereas many contractors purport to be performing "Design-Build" work, FWS differentiates itself by maintaining a large in-house team of experienced engineers and design professionals that work collaboratively with our clients and construction team, from project concept to detailed design, to achieve high quality, cost effective design and construction execution results.

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- Dust Control

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We view today's satisfied customers as tomorrow's growth opportunities. Our ongoing commitment to the customer and the FWS principles of precision, professionalism, efficiency and quality control are all hallmarks of our success.

Please contact us for more information.

ONE QUARRY JOB CREATES NEARLY FIVE OTHERS

-BY PATRICK DUNNE, NSSGA, COMMUNICATIONS DIRECTOR

Each job in a quarry supports nearly five jobs in other industries and sectors, and this multiplier effect is found at the local and state levels. This is just one of the many facts found by the Washington, DC based Phoenix Center, which released an economic analysis of exactly how a stone, sand or gravel operation impacts jobs, tax revenues, other businesses and other key economic indicators in a community.

The economic impact of the natural aggregates industry; a national, state, and county analysis was conducted by George Ford, Ph.D., Chief economist at the Phoenix Center and quantify as the current impact of the aggregates industry on the broader economy and sheds light on how an expansion of the industry perhaps for new infrastructure spending might ripple through the economy.

"If you create opportunity in a county next door, that income comes back. It creates a feedback loop this study helps to see how specific operation can affect any nearby community", said Ford

A lot of the economic benefits can be attributed

to the salaries from the aggregate industry which are higher than the national average wages.

According to the analysis, not only does the aggregates industry generates \$27 billion in annual sales and employees 100,000 workers at above average wages, the economic activity in the sector has large effects on other industries the industry also supports \$122, billion in national sales, \$32 billion in national earnings and between 364,000 and 600,000 jobs across a wide range of occupations and industries.

In many cases the benefits of a quarry are similar at the state level. Because aggregates are consumed by housing and construction projects within 50 miles of the quarry that produced them, these products literally shape their communities.

Read the full report a <http://www.Phoenix-center.org/scorecards>

INDEPENDENT CONTRACTORS AND BUSINESSES ASSOCIATION UPCOMING COURSES



ICBA Contribution for Screenings edition June 2017.

Effective Management Skills

Jun 19 – Kelowna

Jul 11 – Prince George

Aug 17 – Burnaby

This course is for all managers, supervisors, team leaders or anyone who is responsible for achieving results through people and who want to bring the best out in people. Participants will deepen their understanding of motivation, engagement, delegation / empowerment and practical feedback skills in this interactive (NO role plays), high energy and thought-provoking seminar. Participants will learn proven, powerful and practical strategies and techniques that will last a life-time and can be applied the next day.

Writing Effective Letters, Scope Documents, and Reports

Sep 12 – Burnaby

Oct 23 – Kamloops

Nov 27 – Prince George

Potential clients often judge you based on whether you can clearly articulate the services you provide. Clients may skim your documents, so you need to ensure that your content is organized and that your key points stand out. Your writing ability is important. This seminar is focused on helping you to do exactly that: to write more effectively. You'll learn to tailor your writing for your audience and purpose. You'll apply the strategies required for effective scope documents, letters, and reports. In addition, you'll also incorporate key principles for editing and revising your documents.

How To Be a Better Foreman

Oct 26 – Victoria

Oct 27 – Burnaby

Many great trades people take a foreman position and fail. Not for lack of skills or drive but simply for lack of guidance on how to be a great foreman. This 1-day course gives participants the fundamentals of field leadership, organization, crew morale, efficiency, and productivity.

Trenching and Excavation Safety Workshop

Jun 23 – Victoria

The workshop walks participants through a comprehensive program that covers shoring, benching, sloping and shielding systems. It also includes a section on location of underground utilities and the geotechnical and structural engineered documentation requirements.

Negotiation Skills

Jul 17 – Victoria

Many individuals often fail in negotiation not because they are unable to get an agreement, but because they walk away from the table when they could have done much better. In this seminar you will learn a proven, practical step-by-step approach to win-win negotiations and how to protect yourself from "hardball" negotiators.

Time Management

Jul 18 – Victoria

When working on a project, timing is essential. If you get behind on one part of the project, the entire thing can be set back hours, or even days. In this workshop you will gain a new mindset, skill-set and tool-set that will optimize your personal productivity learning how to produce greater results in less time. Improved time management skills mean increased productivity, met deadlines, and a positive impact on all aspects of your business.

Incident Investigations

Sep 13 – Burnaby

Oct 27 – Victoria

WorkSafeBC's amendment to Bill 9 includes two major changes to the requirements for employer incident investigations. At the end of the sessions participants will have an understanding of the requirements for investigating incidents, the tools required to undertake an adequate investigation, methods involved in successful interviews, identifying incident causes and completing incident reports.



GROWN IN GRAVEL

-BY BILL LANGER

Like hydroponic systems, gravel and aggregate cultures have created alternative options for plant growth.

Those of you who pay attention to details may have noticed that I have a different puppy with me in the photo at the top of the page. Rosie went to the Rainbow bridge last June. Our new puppy is named Keiki – Hawaiian for little one. Actually, a keiki is an offshoot from an orchid. My wife, Pam, grows orchids, and this year, she planted her Vanda orchids in glass beads.

All plants, including orchids, require water, light, air, and essential nutrients to grow, reproduce, and perform other critical activities—whether they are grown in soil or not. In hydroponics (water culture), plants are grown with their roots in water. However, Pam used glass beads, so she was using a technique more akin to gravel-culture or aggregate-culture.

Sometimes growing plants in aggregates is preferred to the hydroponic method because the aggregate helps to support the roots. The aggregate is held in the same type of tank as is used for a water culture system. The nutrient solution is held in a separate tank and pumped into the aggregate tank to moisten the roots as needed. After the aggregate has been flooded, it is drained to provide aeration. Enough water and nutrients cling to the aggregate and roots to supply the plant until the next flooding.

I told Pam that this is not new. A case in point was the gravel-culture installation of the Army Air Forces on Ascension Island in the South Atlantic toward the end of World War II. That tiny volcanic island has a climate characterized by mild temperatures and low rainfall; conditions that result in the generation of practically no agricultural soil.

The island is so isolated that the large military garrison placed there could only be provided with the essential dietary staples such as grains, meat, and milk products. Fruits and vegetables were either canned, dried, or dehydrated items. Yuck! This was not only bad for morale, but perhaps even to the health of troops. The problem was deemed important enough to justify a determined effort to provide such items as fresh tomatoes, lettuce, peppers, radishes, and cucumbers.

Because there was no soil on the island to use conventional growing methods, an aggregate culture installation, using a local gravel, was authorized for the soilless production of fresh salad crops. That operation still stands out as an example of the successful application of aggregate culture in locations devoid of natural soils.

More recently, aggregate culture has found an application in the production of nursery stock. The Missouri Gravel Bed (MGB) is a method of handling bare root nursery stock where, during the spring, dormant plants are placed with their bare roots in a irrigated bed of gravel and held for up to a year before planting bare root (in full leaf) in the landscape. The key to MGB is that root growth in gravel is very fibrous and, unlike with healed-in plants, few roots are damaged when plants are removed from the gravel. Don't let the name confuse you. Missouri gravel bed gardening has spread well beyond Missouri. Some places have even created community gravel bed nurseries for area residents.

Aggregate culture is yet another environmentally friendly application of gravel. And just in case you were wondering, yes, an orchid can make a keiki when it is planted in gravel—or glass beads.



Photo by: David Ryan



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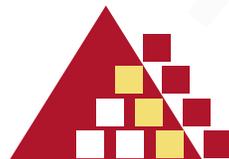
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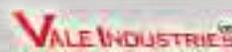
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PRESS RELEASE OF THE BC STONE, SAND & GRAVEL ASSOCIATION

JUNE 2ND, 2017

At its recent Annual General Meeting held on May 25th, 2017, the BC Stone, Sand & Gravel Association elected and appointed its new Board of Directors and Executive Committee.

ELECTED AND APPOINTED TO THE EXECUTIVE COMMITTEE WERE:

Derek Holmes – *President*
BURNCO Rock Products

Tyson Craiggs – *1st Vice President*
Mission Ridge Aggregates

Nikki Keith – *Secretary*
Wilson M. Beck Insurance Services

Barry McLean – *Treasurer*
Valley Gravel Sales

Scott Boshart – *Past President*
Woodbrook Aggregates

ELECTED TO THE BOARD OF DIRECTORS WERE:

Brian Butler
Butler Bros. Supplies

Barry Chalmers
Island Crushing

Bob Esau
Pitt River Quarries

Todd James
Liebherr Canada

Bryan Kirkness
Western Explosives

Chen Mei
Lafarge Holcim

Dani Miller

Mainland Sand & Gravel

Brent Palmer
MountainSide Quarries Group

Kevin Spenst
Mainland Sand & Gravel

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