

# 2016 SCREENINGS

VOLUME 15 / ISSUE 2

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



*Submitted photo: Valley Gravel Sales Ltd. co-owner Alan McLean and consulting agrologist Dave Melnychuk on the reclaimed Valley Gravel Sales land on Huntingdon Road in West Abbotsford, which is now in agricultural production.*

## MARK YOUR CALENDAR!

**SEPTEMBER 20<sup>TH</sup>**

*Quail's Gate Winery  
Kelowna, BC*

**NOVEMBER 8<sup>TH</sup>**

*Screenings Deadline*

**NOVEMBER 30<sup>TH</sup>**

*Coast Victoria  
Harbourside Hotel  
Victoria, BC*

**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

*Leah Altizer, Writer*  
[leahaltizer@gmail.com](mailto:leahaltizer@gmail.com)

OR

*Paul Allard, Editor*  
[gravelbc@telus.net](mailto:gravelbc@telus.net)

T: 778-571-2670 F: 778-571-2680 [www.gravelbc.ca](http://www.gravelbc.ca)

## 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.

### INSIDE THIS ISSUE:

BCSSGA Committees .....	2
Valley Gravel Sales wins BC Mine Reclamation Award – Get Ready .....	3
The Future is Coming – An Introduction to API CK-4 and FA-4 .....	4
Aggregates – You Can't Build Without Them .....	5
NCSO now a National Designation .....	6
Bridging the Gap .....	7
Independent Contractors and Businesses Association Upcoming Courses .....	8
New Web Platform Launched to Make Mine Information More Accessible .....	9
BC Ministry of Mines Announces Further Updates to the Mining Code .....	10
BC Spill Response Regime .....	11
Email from Minister of Energy and Mines, Bill Bennett .....	12

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for new material is  
**November 8<sup>th</sup>**

SCREENINGS is always looking for useful information to pass on to our members! If you would like to write an article for 2016, or if you are an advertiser who would like to update your ad, the next deadline is **November 8<sup>th</sup>**. We look forward to your input!

## BCSSGA COMMITTEES

COMMITTEE NAME	CHAIR	OTHER MEMBERS
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Safety Committee	Paul Allard	Barry McLean, Bob Esau, Urvi Ramsoondar
Safety, Community Relations and Reclamation Awards	John Tiefenbacher	Trevor Ward, Paul Allard to administer
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Screenings Newsletter	Editor-Paul Allard	Writer: Leah Altizer Proofers: Jeff Watson. We need ideas from everyone!
Technical Training	John Tiefenbacher	Trevor Ward, Paul Allard to administer
Website Design/ Maintenance	Paul Allard	Steve Dimond
Scholarships	Bob Esau	Markus Kopper, David Durante – Paul Allard to administer
Membership Recruitment	<b>EVERYONE IN THE BCSSGA SHOULD HELP!</b>	
Social Media Committee	Tyson Craiggs	Barry McLean, Derek Holmes and Brent Palmer

## VALLEY GRAVEL SALES WINS BC MINE RECLAMATION AWARD – GET READY!

BY KURT LANGMANN, ALDERGROVE STAR

THIS ARTICLE ORIGINALLY APPEARED IN THE ALDERGROVE STAR ON DECEMBER 23, 2015.

A small family-owned gravel mining business in Aldergrove-Abbotsford is celebrating their big win of a provincial award usually reserved for the major mining companies.

On Dec. 4 the British Columbia Technical and Research Committee on Reclamation (TRCR) presented the annual Jake McDonald Mine Reclamation Award to Valley Gravel Sales Ltd. at a ceremony held in Vancouver.

The trophy, a 70 pound piece of jade mounted on a wooden base, now includes the Valley Gravel Sales name alongside major players such as Teck Resources and Highland Valley Copper.

"It's the first time it's been awarded to a small player like ourselves," said Barry McLean, who along with his brother Alan owns the Valley Gravel Sales business.

"One of our staff dubbed it the Stanley Cup of land reclamation."

The award is in recognition of Valley Gravel Sales work in reclaiming three Abbotsford gravel pit properties between 2010 and 2013 to a standard where agricultural capability is at least equal or superior to the agricultural capability prior to gravel extraction.

Those three properties in West Abbotsford, totaling 37 acres, were mined over the course of about a dozen years before three years' worth of work was put into the final reclamation process, which wrapped up in 2013.

Three feet of sand and screened topsoil was laid down to create ideal growing medium on the acreages, which have since been sold to farmers who now have it in agricultural production.

More than a million tonnes of gravel was removed before final reclamation. The topsoil had been stored on the property and the sand was screened from on-site material as well.

Barry and Alan said that approach has been the practice since their late father, Doug McLean started the company in 1973 alongside their older brothers Rod and Norm.

Alan joined the business in 1983, followed by Barry in 1995.

"Dad was a farmer at heart — dairy and beef cattle — and he believed in putting the land back in use for farming, even before the Agricultural Land Commission was created and all the new rules came into effect," said Alan.

"Land which is very steep or hilly or rocky can be mined and reclaimed, with the help of agrologists, hydrologists and



Brothers Barry and Alan McLean of Valley Gravel Sales Ltd. with the Jake McDonald Mine Reclamation Award.

— image credit: KURT LANGMANN PHOTO

engineers who assist in how to mine and finish the property. We just have to follow a set of drawings. Screening the topsoil is a lot more expensive but gives the best results."

Valley Gravel Sales supplies customers such as concrete manufacturers with washed sand and rock, mined from their properties in West Abbotsford.

The Metal Mine Reclamation Category Award was presented to Huckleberry Mines Limited for its habitat compensation works in the form of successful remediation of fishways in a local creek in the vicinity of the Huckleberry copper mine near Houston.

"By their successful balancing of job creation with environmental commitment, these companies exemplify B.C.'s dedication to responsible mining. I thank them for the important work they do in ensuring that B.C.'s mining industry earns the community acceptance that is necessary for a successful, sustainable mining industry," said Bill Bennett, Minister of Energy and Mines and Minister Responsible for Core Review.

"We are very pleased to recognize the innovation that is characterized by the award winners," said Jonathan Buchanan, Chair of the TRCR. "From reclaimed agricultural land in the Fraser Valley to revitalized water and terrain landscapes at one of B.C.'s metal mines, we are pleased to recognize two leaders in B.C. mine reclamation."



# THE FUTURE IS COMING

## AN INTRODUCTION TO API CK-4 AND FA-4

This December will see the largest change in Heavy Duty Diesel engine oil (HDDEO) specifications the industry has seen in its history, with the introduction of API CK-4 and FA-4 (originally known as PC-11).

Both oils are notably thinner, or lower viscosity (specifically FA-4 category oils), compared to those being used in the market at present. This reduces the amount of viscous drag from the oil in the engine, allowing them to run more efficiently and use less fuel. While thinner, the oils will also offer greater levels of protection.

### Why the change?

There are several drivers that have steered the introduction of PC-11 into action and which deserve explanation. The first driver is aligned to the greenhouse gas (GHG) emissions and fuel efficiency standards jointly proposed by the U.S. Environmental Protection Agency (EPA) and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA).

The second driver relates to engine test obsolescence. The current API CJ-4 oil specification (originally known as PC-10) has been the prevailing standard since 2006, however, testing procedures used to qualify CJ-4 type oils may not be the most representative of the current engines and hardware in the field.

The third driver is perhaps the most important of them all. The move toward PC-11 was at the request, some five years ago, of the Engine Manufacturers Association (EMA), who requested the API to develop a new oil category that could meet the demands of modern engines that were in development.

### CK-4 and FA-4: The differences

API CK-4 will be an upgrade to the current lubricant specification, and be completely backwards compatible with older diesel engine oil categories. CK-4 will be designed with improved oxidation resistance – thereby reducing long term oil degradation; shear stability – otherwise known as the ability to maintain fresh oil viscosity properties under high stress conditions; and aeration control – which is critical in modern high temperature engines.

API FA-4 will meet the new specification with the same improvements as CK-4 using only lower viscosity oil (specifically lower high temp high shear (HTHS)) in order to maximize fuel economy

without sacrificing engine protection. However, these oils will have limited backwards compatibility because some older engines are not designed to operate with such low HTHS viscosity oils.

### Impact on fleet owners

The introduction of PC-11 presents an opportunity to improve the efficiency and carbon footprint of HDDEO users, but also the potential to cut costs and increase the profitability of these operations.

It is true that PC-11 will not affect every business the same and some fleets will only see a small impact. For example, a business which operates with older equipment and different engine types may simply need to transition from the current API CJ-4 oils to CK-4 oils. This is most likely to apply to off-road vehicles used in environments such as mining and construction.

There is no doubt that 2016 is going to get very busy as maintenance teams begin preparing for this critical change in technology and getting their strategies into place. Given the split category within PC-11, understanding the recommended oils for a given engine and how to potentially manage the use of two lubricants will be crucial.

For those businesses with a mix of older and newer equipment and an ambition to realize the improvements that will come with PC-11, then a stock of both API CK-4 and FA-4 formulations may be best.

### What happens next?

OEMs are unlikely to finalize plans just yet as to whether they will use API CK-4 or FA-4 oils to certify their new engines and/or recommend them for service fill. We may well see engine manufacturers re-designing their engines to take advantage of the potential fuel savings of lower HTHS viscosity oils. The degree of flexibility will be an important question to answer for OEMs in the coming months.

While OEMs are working on their specifications, it is essential that HDDEO users begin preparations now to ensure that they are suitably equipped ahead of the first API CK-4 and FA-4 licence date of December 1st, 2016.

For more information and to answer the common questions about the introduction of API CK-4 and FA-4 oils, visit [www.herecomespc11.com](http://www.herecomespc11.com)

## AGGREGATES YOU CAN'T BUILD WITHOUT THEM



SUBMITTED BY JACK DAVIDSON, PRESIDENT, BC ROAD BUILDERS & HEAVY CONSTRUCTION ASSOCIATION

The BC Road Builders and Heavy Construction Association is recommending that the Provincial Government work with industry to support reasonable resource development. Unfortunately, the naysayers and NIMBYs have been quite effective in stalling some construction projects across BC, however what they don't understand is that the price of many of these inevitable construction projects will skyrocket with time.

Aggregates are part of everything: homes, schools, hospitals, roads and bridges, and the buildings we work in. They form the dams and the foundations for wind energy towers, and they provide the GHG-free electricity we all consume. Yet this sector is often under attack by very vocal, special interest groups that are well-organized and well-funded.

Despite the sensible and reasonable proposals for resource extraction programs and infrastructure construction, this group continues to shout "no" and present opposition at every turn. They are successful in gaining media attention, which often translates into political attention at the municipal level, and ignores the many social benefits (i.e. supply of essential building materials, job creation, reduction of harmful greenhouse gas emissions and building a stronger economy) focusing only on the negative attributes.

Leadership is needed to act on behalf of the quiet majority and support from provincial leaders is needed to move ahead on responsible resource and infrastructure projects that will help grow our economy and benefit all British Columbians. We must loudly oppose the self/special interest protesters that bring work to a halt and prevent our members from building a prosperous future for all British Columbians.

Our industry is losing ground because we have not been proactive in sharing the benefits of these projects and the important work we do. We need help to coordinate a vocal community of supporters who believe that responsible development helps cities and regions grow, and provides government with the resources they need to provide us all with the important services such as healthcare, education and social services we all depend on.

2016 will be a pivotal year as the future of many major projects hangs in the balance. Please work with and advise us on how we can help to change direction, become vocal and rally against the protesters. We want to build a solid future for all British Columbians by creating a thriving and prosperous economy.



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**2017**  
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## NCSO NOW A NATIONAL DESIGNATION

### SUBMITTED BY THE BC CONSTRUCTION SAFETY ALLIANCE

After several years of effort, the BCCSA's goal of bringing a National Construction Safety Officer (NCSO) designation to the province is about to become a reality, as members of the Canadian Federation of Construction Safety Associations have approved in principle a common designation and training program. The approval came at a recent CFCSA meeting in Halifax attended by Executive Director Mike McKenna and Director of Operations Tammy Oliver. "We are very pleased and excited to be able to make this announcement, which has been a long time coming but well worth the wait," said McKenna.

"This is something our members have been wanting for many years, for very good reasons." NCSO now a national designation.

For employers, the NCSO (which is considered to be an entry-level safety designation) represents an economical option that will be of particular benefit to those with fewer than 20 employees who either cannot afford or do not require a higher-level credential holder such as a Canadian Registered Safety Professional, McKenna says. It will also add to the pool of qualified professionals, thus helping to fill an identified gap in the industry, he adds.

For the safety professional, the designation represents a next level in safety knowledge and skills that will also greatly enhance mobility because NCSO holders will be able to work as safety officers on any job site in Canada, McKenna said. Those with sufficient industry

experience will also be able to challenge the Canadian Construction Association's Gold Seal safety exam.

Once adopted as the common standard (expected to happen before the year is out), the NCSO will replace a variety of provincial designations that are similar in nature. Here in BC, for example, it will be offered instead of the Construction Safety Specialist (CSS), a designation that BCCSA currently provides.

Although subject-matter experts are finalizing a common curriculum and deciding on core competencies, candidates will need to successfully complete all courses and exams, and pass a standardized national test. They will also need to be able to verify that they have at least 3 years of construction industry experience and Continued from page 1 have taken a leadership for safety excellence course (variations of which are offered by provincial health and safety associations). In all jurisdictions, additional testing will be required in order to meet different legislative safety regulations.

We will continue to provide updates to this story. In the meantime, if you would like further information, please go to [bccsa.ca](http://bccsa.ca) to be added to our NCSO e-mail list.



— 11<sup>th</sup> ANNUAL —  
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# INDEPENDENT CONTRACTORS AND BUSINESSES ASSOCIATION UPCOMING COURSES



## How to be a Better Manager

**OCT 25** - Burnaby

As a manager there are likely several 'unwritten' expectations of you. From getting things done right the first time to being a role model for the team. Learn about the processes and tools you should have in place in order to effectively manage your team and meet the expectations of those you report to.

This one-day workshop focuses on you as a manager and the skills you will need to be successful in your role. You will leave this course with an action plan for being a better manager.

## Change Order Management

**OCT 19** - Prince George

**NOV 10** - Kelowna

Changes are an inevitable part of the construction process but if not managed well, change orders can cause unnecessary project disruptions and lead to cost increases and schedule delays. This course will provide participants with best practices for successfully navigating this complex project management challenge.

## How To Be a Better Foreman

**DEC 1** - Victoria

**DEC 2** - Burnaby

**DEC 9** - Kelowna

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.

## Writing Effective Letters, Scope Documents, and Reports

**OCT 27** - Burnaby

**NOV 7** - Prince George

**NOV 21** - Kamloops

**DEC 5** - Victoria

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.

## Trenching and Excavation Safety Workshop

**SEP 28** - Burnaby

**OCT 26** - Kamloops

**NOV 3** - Terrace

**NOV 22** - Victoria

**NOV 30** - Prince George

The workshop walks participants through a comprehensive program that included what the WorkSafeBC Regulations & Guidelines state, safe work procedures and what to do if something goes wrong. It 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.





## NEW WEB PLATFORM LAUNCHED TO MAKE MINE INFORMATION MORE ACCESSIBLE

The Ministry of Energy and Mines (MEM) is committed to making information on permitted mine sites in British Columbia more accessible to interested parties. MEM has collaborated with the BC Environmental Assessment Office (EAO) to develop a new platform and has to date posted the following information online:

- Permits and amendments issued under the Mines Act for major mines that are currently operating or under construction
- MEM inspection reports (2013 onwards) for major mines that are currently operating or under construction
- Dam safety inspections/reviews for permitted major mines (2014 onwards)

Going forward, the design of this web platform will be refined, and information will be added on an ongoing basis. The first phase of development is limited to

documents that are currently available electronically. In the coming months, the following information will be posted:

- Permits and amendments issued under the Mines Act for all major mines in BC (i.e., closed mines and mines in care and maintenance in addition to those that are currently operating/under construction)
- Annual reclamation reports for permitted major mines
- Documents and reports associated with permit applications for major mines (2013 onwards)

Requests for specific documents not available online can be directed to the Ministry of Energy and Mines and/or to the Office of the Chief Information Officer (for requests made under the Freedom of Information and Protection of Privacy Act).

For more information, go to <https://mines.empr.gov.bc.ca/>



## BC MINISTRY OF MINES ANNOUNCES FURTHER UPDATES TO THE MINING CODE

BY SHANNON WATERS

THIS ARTICLE ORIGINALLY APPEARED ON MYPRINCEGEORGENOW.COM ON JULY 20, 2016

The provincial government says it's making progress toward ensuring a disaster like the Mt. Polley tailings pond breach never happens in BC again.

The Ministry of Energy and Mines announced changes to the Mining Code, based on seven recommendations made by an expert panel in the wake of the Mount Polley tailings pond breach.

Minister of Mines Bill Bennett says the new standards put BC at the top of the heap for safety when it comes to tailings storage facilities (TSF).

"These changes ensure that the mining code now includes design standards for TSFs that are tailored to the particular conditions that are encountered in BC. The changes for TSFs and dam safety emphasize the protection of the public and the environment."

Along with standardized designs, the recommendations require facilities with TSFs produce water balance and management plans and take steps to increase accountability and transparency.

"We will now require all existing mines in BC with TSFs to establish an independent review board by December 31, 2016," says Chief Inspector of Mines Al Hoffman. "Each mine will be required to submit an annual report that includes an overview of its independent tailings review board's activities and these will all be posted online."

The Ministry has now addressed 20 of 26 recommendations made by the Independent

Expert Engineering Panel in January of last year. Bennett says they intend to continue addressing the remaining recommendations.

"We're not done. Overall, we still have those 6 recommendations from the Chief Inspector of Mines report to implement and we have some of the recommendations from the Auditor General that we'll need to do some more work on as well. The health and safety portion of the code review is going to be ongoing and it will continue through this year. We have a target for all the revisions to the code dealing with health and safety to be done and enforced by 2017."

In May, the Auditor General released a scathing report on the Mt. Polley dam breach, laying the blame mostly with the Ministry of Energy and Mines.

Mining Minister Bill Bennett says the updates will have a real impact.

"I think what we have done here and what we will do in the next few months will prevent a major accident from happening with a TSF here in British Columbia. I'm absolutely convinced of that."

You can view a complete list of the combined 43 recommendation from the independent expert panel, the chief inspector of mines and the Office of the Auditor General at [http://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/mineral-exploration-mining/documents/health-and-safety/code-review/mp\\_recommendationstable\\_july2016\\_update\\_final.pdf](http://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/mineral-exploration-mining/documents/health-and-safety/code-review/mp_recommendationstable_july2016_update_final.pdf)





## BC SPILL RESPONSE REGIME

On May 10, after several days of debate, the BC Legislative Assembly passed the proposed changes to the Environmental Management Act, 2016, without change. Royal Assent was given on May 19, 2016. The new legislation can be accessed from the Legislative Assembly Progress of Bills table (Bill 21).

The proposed regime will ensure effective preparedness, response and recovery measures are in place for hazardous substance spills, from any source, and reflect over several years of engagement with industry, First Nations and local government. This legislation will:

- Establish new requirements for spill preparedness, response and recovery
- Create new offences and penalties
- Enable the certification of a Preparedness and Response Organization
- Increase transparency, participation and accountability

### Background

On June 15, 2015 the Province announced plans to proceed with developing and implementing a world-leading spill response regime.

Based on extensive consultation, the Ministry of Environment (Ministry) is updating the current spill preparedness and response in B.C. Enhanced government oversight and the addition of specific new rules and requirements are intended to confirm industry and government's ability to respond fast and effectively to spills anywhere in B.C.

The regime will enhance the preparedness, response and recovery actions taken for all types of spills that cause pollution or threaten public safety, regardless of their source, with pipelines being just one area of focus. Collaboration across industry sectors will work to ensure the safety of people, property and the environment (air, land and water) from spills.

### Design Principles

In June 2015, the Ministry announced seven agreed upon key elements for the design of this world-leading regime:

1. Polluter pays - this principle is already in effect

in B.C. and will not change. Companies that spill or pose the risk of having a spill should be responsible for the costs associated with preparing for and responding to a spill.

2. Risk-based requirements - all spillers will be required to meet new response requirements. The requirements for planning and preparedness will be based on a defined risk threshold which will consider toxicity and volume.
3. Avoids unnecessary duplication - recognizing there are some effective and collaborative spill response procedures in place in certain sectors, supplementation is still required to ensure environmental protection and also ensure British Columbia's system can be considered world-leading.
4. Fair and transparent process - government has committed to continued dialogue through consultation on the development of new legislation and regulations.
5. Opportunities for First Nations and communities in preparedness, response and recovery - active engagement by First Nations and communities on all aspects of a world-leading system are considered key to the successful design, implementation and operations.
6. Strong government oversight - new requirements will provide both clarity and certainty for spillers, meet public and First Nations expectations and maximize the protection of the environment.
7. Continuous improvement - government is committed to continuous improvement ensuring a sustainable world-leading system by applying lessons learned from exercises, incidents and other jurisdictions. Additionally, any technological innovations will continue to be adopted.

For more information, go to <http://www2.gov.bc.ca/gov/content/environment/air-land-water/spills-environmental-emergencies>



**RE: FVRD NOISE BYLAW NO.1181,2014 A BYLAW TO REGULATE COMMERCIAL AGGREGATE**

Mr. Scott Boshart  
President  
BC Stone, Sand and Gravel Association

Dear Mr. Boshart:

I am responding to your July 8, 2016 email sent to Mr. Brad Cox and ADM Peter Robb regarding your continued efforts representing the interests of BC Stone, Sand and Gravel Association (SSGA) members in relation to proposed Bylaw No. 1181, 2014 A Bylaw to Regulate Commercial Gravel Operations in the Electoral Areas of the Regional District (Bylaw).

After more than a decade of work by Fraser Valley Regional District (FVRD) staff, industry (as represented by the SSGA), and various government ministries, including the Ministry of Energy and Mines, the Bylaw was first submitted for ministerial approval in 2015. At that time, after considering the issues raised by the SSGA, I directed my staff to work to find a way forward and gain a better understanding of the SSGA's concerns, particularly as they relate to the Bylaw's prohibitive aspects. Ministry staff also worked with FVRD staff to find ways to address industry's concerns. This work has resulted in the version of the Bylaw submitted by the FVRD for ministerial approval on February 12, 2016.

The changes made to the 2016 version of the Bylaw attempt to address many of the concerns raised by industry. Despite the changes, the SSGA communicated two remaining concerns with the Bylaw at our meeting on May 7 - noise limits and grandfathering. These concerns were reiterated during a June 7 follow-up meeting with Ministry staff. My understanding is that the SSGA now accepts the current noise limit approach and has confirmed acceptance via the July 8 email from you.

With respect to grandfathering, the SSGA asserts in its July 8 email that if approved and adopted, Section 6 of the Bylaw will result in certain commercial aggregate operations being shut down. It is argued that because Section 6 of the Bylaw does not refer to processing that is authorized as a lawful non-conforming use under Section 528 of the Local Government Act (LGA), the section will prevent certain aggregate operations (for example, those that process as a non-conforming use under the LGA) from obtaining a soil removal permit under the Bylaw.

Based on the opinion of our solicitor, the Ministry does not view Section 6 of the Bylaw as preventing any commercial aggregate operation from obtaining a soil removal permit under the Bylaw. The section is not a prohibition or an authorization. The section clarifies that the Bylaw (and specifically, a soil removal permit issued under it) is not to be interpreted as allowing for processing if it is not already permitted in a zoning bylaw. Furthermore, FVRD staff has confirmed in writing that Section 6 is only intended to clarify that the Bylaw, as a regulatory bylaw, cannot authorize processing (a land use). The FVRD confirms that Section 6 would not, and could not, be used to deny a soil removal permit to a gravel operation that includes lawfully non-conforming, or "grandfathered," processing.

Thank you for your efforts on this matter and ongoing willingness to work with Ministry staff. I have decided to sign off on this bylaw.

Sincerely,

Bill Bennett  
Minister of Energy and Mines

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