

# **Elko Coking Coal Project**

British Columbia, Canada

ASX : PAK May 2016

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#### **Competent Person Statement**

The information in this document that relates to JORC 2012 Resources based on information compiled by Mr. Dwight Kinnes, B.Sc Colorado State University, Geology, who is a Member of a Recognised Overseas Professional Organisation (ROPO) included in a list promulgated by the ASX from time to time, being the Society for Mining, Metallurgy, and Exploration and American Institute of Professional Geologists – Cert. No. 10244.

Mr Kinnes is Principal Consultant/President of Highland GeoComputing, LLC and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration by them and to the activity which they are undertaking to qualify as a 'Competent Person' as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012). Mr Kinnes consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

### **Overview**



### PAK is an emerging coking coal company with a world class deposit

- Elko is a significant resource given;
  - Size
  - Quality
  - Location
- Elko contains JORC 2012 resources;
  - Inferred
  - Indicated
  - Measured
- Elko has strong fundamentals;
  - Low start up cost
  - Access exiting infrastructure
  - Access South East Asia Markets



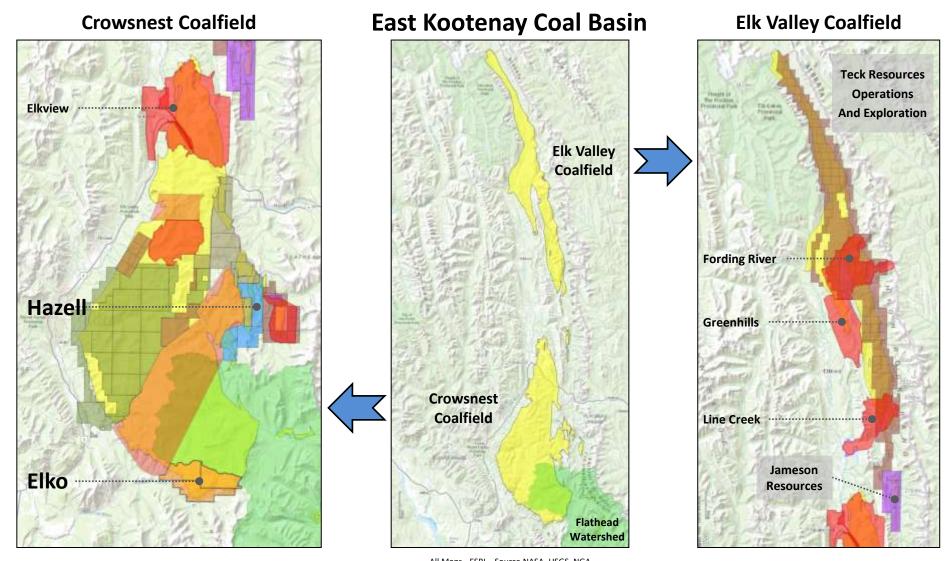
| Product                   | Geology                  | JORC Resource | Mining                    | Logistics                             | Japanese Endorsement                      |
|---------------------------|--------------------------|---------------|---------------------------|---------------------------------------|---|
| Hard Coking +<br>PCI Coal | 5 x thick mineable seams | 257.5Mt       | Underground with Open Cut | Existing Rail and Port Infrastructure | Historical Metallurgical testing complete |
| $\checkmark$              | $\checkmark$             | $\checkmark$  | $\checkmark$              | $\checkmark$                          | $\checkmark$                              |



# **East Kootenay Regional Setting**



East Kootenay Coal Basin has annual coal sales of over 27Mt

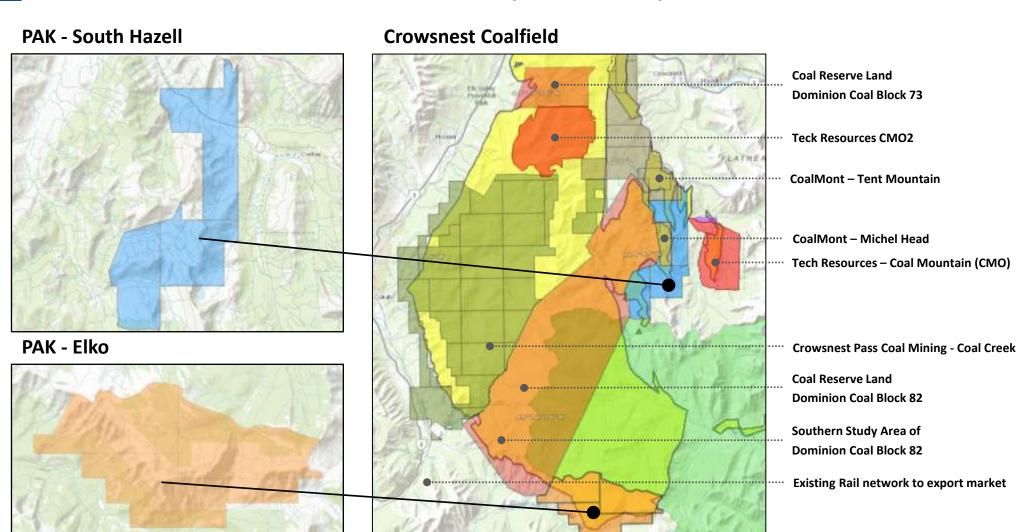




### PAK 100% Owned BC Coal Licences



PAK has 6 Coal Licences in the Crowsnest Coalfield adjacent to Tier1 operations



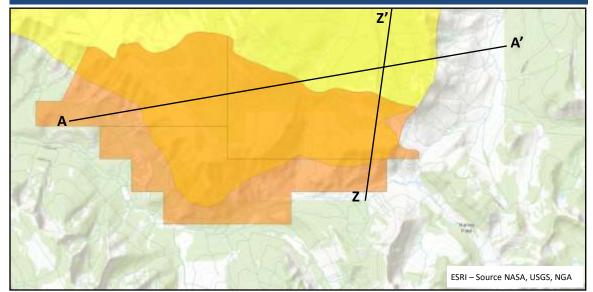


## Geology

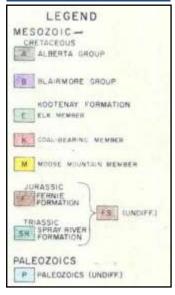
# Pacific American Coal

### Existing data supports low cost entry with long term underground operation

### **Structural Geology Supportive of Underground Operation**



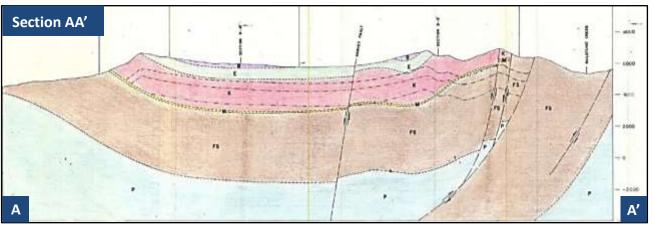
#### **Coal Report 339**

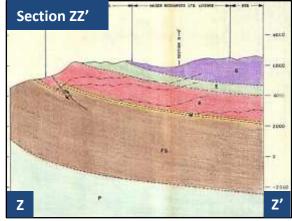


### **Mining Options**

The project has the potential to a support short-term open cut mine and longer term underground operations

Structural geology and geo-technical data are to gathered through planned exploration activity to support mine design.









### **Substantial JORC Resources**



### Elko contains the second largest coal resource in the Crowsnest Coalfield

- 257.5Mt JORC resource confirmed through
  - Datamining BC Coal Report and
  - Confirmatory ground truthing and survey.
- Three coal seams identified having the potential to produce a hard coking coal product.
- Five coal seams with thickness ranging between 2.6m and 5.0 m
- Additional resource potential
  - Within the Elko Project and,
  - Immediately adjacent to the Elko Project.

| JORC 2012 Resources (MT) |       |  |  |  |  |  |  |  |  |
|--------------------------|-------|--|--|--|--|--|--|--|--|
| Measured                 | 19.2  |  |  |  |  |  |  |  |  |
| Inferred                 | 57.0  |  |  |  |  |  |  |  |  |
| Indicated                | 181.3 |  |  |  |  |  |  |  |  |
| Total Resource           | 257.5 |  |  |  |  |  |  |  |  |

| Company  | Project        | Resource |
|----------|----------------|----------|
| Teck     | Elkview        | 730 Mt   |
| PAK      | ELKO           | 257 Mt   |
| CoalMont | Loop Ridge     | 154 Mt   |
| Jameson  | Crown Mountain | 99 Mt    |
| PAK*     | South Hazell   | 86 Mt    |
| Teck     | Coal Mountain  | 80 Mt    |
| CoalMont | Michel Head    | 30 Mt    |
| CoalMont | Tent Mountain  | 11 Mt    |

\*PAK have stated Exploration Targets

Tech - http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/InformationCirculars/Documents/IC2015-

2/Exploration%20and%20Mining%20in%20BC%202014.pdf

ameson - http://www.jamesonresources.com.au/index.php/investor-centre/asx-announcements?task=document.download&id=



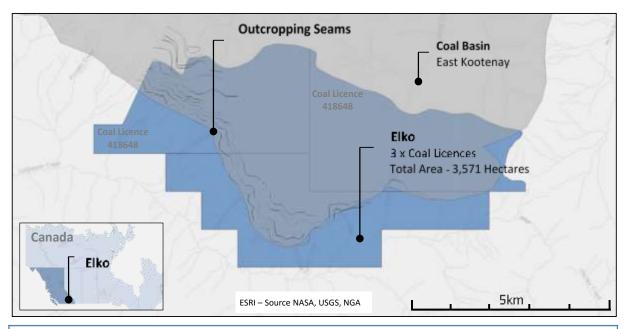


# **Indicates Hard Coking Coal**

### High quality coking coal



- Historical coal analysis depicts a high quality coking coal product
- Broadly, the upper coal seams have FSI ranging from 7-9 with low sulphur and ash
- The Elko coal compares favourably with benchmark coals from around the world including Peak Downs
- Coal seams 6 & 7 have been tested extensively by six Japanese steel mills
  - Nippon Steel & Sumitomo
  - JFE Holdings
  - Kobelco
- PAK focusing on marketing Elko coking coal into the South East Asian region due to suitability and favourable location.



| BC Coal Adit Quality |        |           |       |      |      |     |     |  |  |  |  |  |  |  |
|----------------------|--------|-----------|-------|------|------|-----|-----|--|--|--|--|--|--|--|
| Adit                 | Seam   | Sample    | Clean |      |      |     |     |  |  |  |  |  |  |  |
|                      | Seam   | thickness | Ash   | VM   | FC   | S   | FSI |  |  |  |  |  |  |  |
| F-5                  | 7 Seam | 5.9 m     | 3.9   | 21.9 | 74.3 | 0.5 | 7.5 |  |  |  |  |  |  |  |
| F-6                  | 6 Seam | 3.0 m     | 6.3   | 21.3 | 72.4 | 0.6 | 8.0 |  |  |  |  |  |  |  |
| F-4                  | 5 Seam | 11.2 m    | 7.4   | 21.5 | 71.1 | 0.5 | 6.0 |  |  |  |  |  |  |  |
| F-3                  | 4 Seam | 6.7 m     | 8.4   | 19.6 | 72.0 | 0.4 | 5.0 |  |  |  |  |  |  |  |
| F-2                  | 3 Seam | 12.2 m    | 11.3  | 17.7 | 71.0 | 0.7 | 2.5 |  |  |  |  |  |  |  |
| F-1                  | 1 Seam | 14.0m     | 10.4  | 18.0 | 71.6 | 0.8 | 1.0 |  |  |  |  |  |  |  |





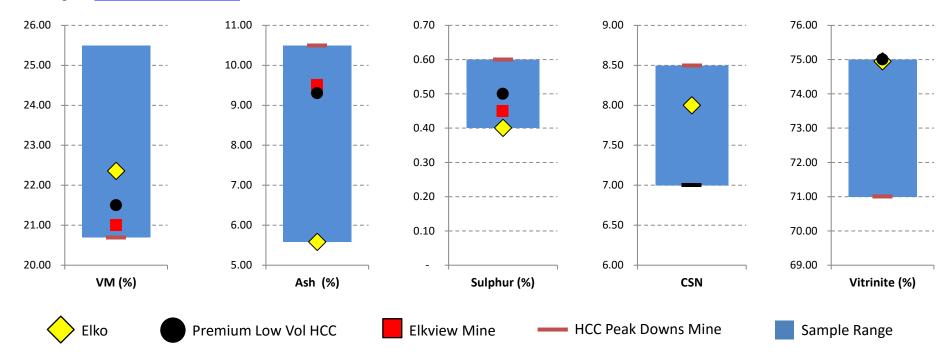
## **Coal Benchmarking and Marketing**



### **Favourable quality characterisitcs**

- The Elko Seams 5/6 & 7 compare favourably with benchmark coals from around the world including Peak Downs
- Adjacent to the Elko Project, blending studies by Mitsui state a high quality coking coal product
- Market Focus of Elko Product will be the Asian Market, leveraging existing acceptance of Canadian Coal. Total Exports †
  - Asia 73.4%
  - Europe and the Middle East 13.3%
  - US 13.4%

#### <sup>+</sup> 2011 Figures Coal Association of Canada



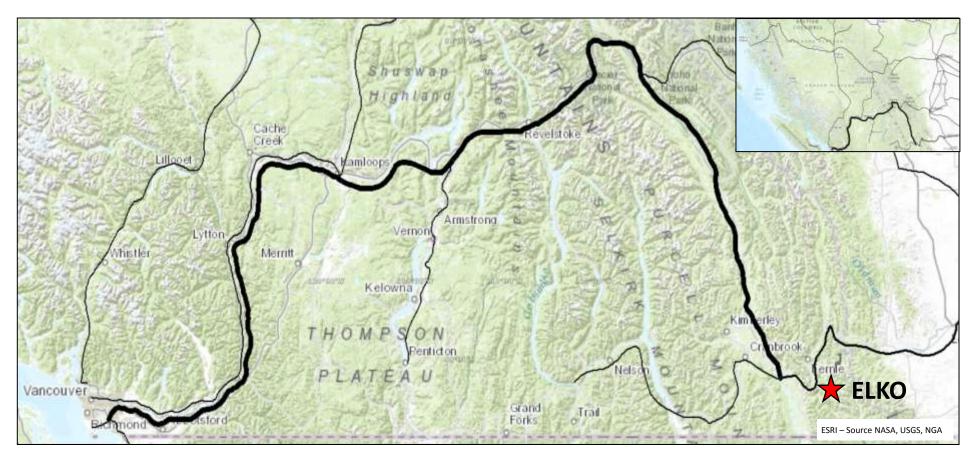




### **Established Infrastructure**



### **Existing infrastructure with optionality**



#### **LOGISTICS RAIL**

Road transport to rail head 20 km
Rail to Port of Vancouver 1,000 km
Alternative Route to Prince Rupert / Kitimat 2,000 km

### **Rail Freight Providers**

Eastbound bulk haulage agreements are available

Bulk rail provider to Vancouver – Canadian Pacific Railway

Bulk rail provider to Price Rupert – Canadian National Railway





### **Port Optionality**

### Multi-User facilities available for export shipping



### **Logistics Port**

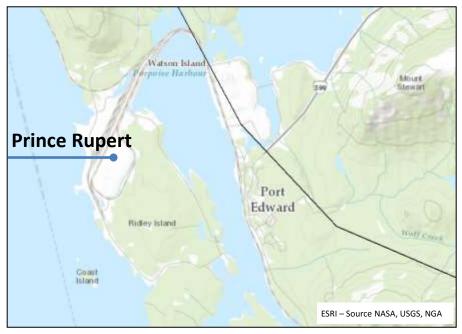
Vancouver offers access to 3 bulk coal port terminals

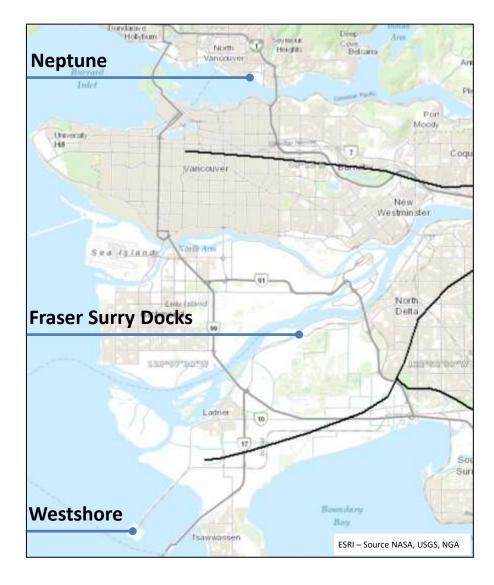
Westshore Capacity 33.0Mt Neptune Terminals Capacity 12.5Mt

(expanding to 18.5Mt)

Fraser Surry Docks Planned Capacity 4Mt

Prince Rupert offers access to the Ridley Island Terminal with annual capacity of 12Mt and storage of 1.2Mt







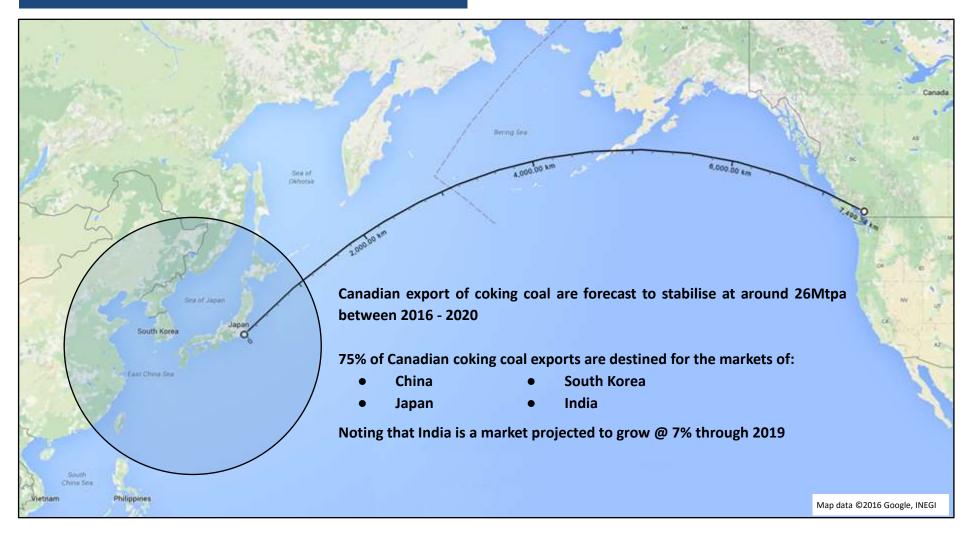


# **Target Markets**





### Focus markets located on the Pacific rim





### **Schedule**



4 year development schedule to first coal, coming on stream as markets rebalance

### **Development Pathway**

| Kootenay - Elko                        |  | 2015 |          |    | 2016 |    |    | 2017 |    |    |    | 2018 |    |    |    | 2019 |    |    |    |    |
|--|--|------|----------|----|------|----|----|------|----|----|----|------|----|----|----|------|----|----|----|----|
|  |  | Q2   | Q3       | Q4 | Q1   | Q2 | Q3 | Q4   | Q1 | Q2 | Q3 | Q4   | Q1 | Q2 | Q3 | Q4   | Q1 | Q2 | Q3 | Q4 |
| Application - Coal Exploration Licence |  |      |          | ✓  |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Renewal                                |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| BC Mines & Energy Approval             |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| First Nation Contact                   |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| First Nation Consultation              |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Notice of Work Permit                  |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Develop Project Plan                   |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Resource reporting                     |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Exploration                            |  |      | <b>√</b> |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Concept studies                        |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Reserve reporting                      |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Pre Feasibility Studies                |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Feasibility Studies                    |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Funding                                |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Project development                    |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |
| Commence Operations                    |  |      |          |    |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |



### **Use of Funds**

# Pacific American Coal

### A staged funding approach to take Elko to Feasibility

### **Stage 1 - Concept Study Phase**

Spent to date Circa \$250k

\$400k projected to compete Concept Study

Access / Infrastructure / utilities / Mine layout / initial works / future exploration program / OPEX & CAPEX, notice of works, archaeological and anthropologic field studies

**Objective** – Demonstrate the fundamentals of a multi-million tonne operation – Attract an investment partner

### Stage 2 – Pre-feasibility Study Phase

\$4.0m projected to complete Pre-Feasibility Study

Drilling program – resource definition, geotechnical and structural geology, permits and agreements, resource reporting, front end engineering, metallurgical studies, First nation engagement

**Objective** – Demonstrate the economic fundamentals of the project

### Stage 3 – Feasibility Study Phase

\$5.0m projected to complete Feasibility Study

Marketing, engineering design, vendor budgets, contracts preparation, CAPEX and OPEX optimisation, HR requirements, FN co-operative agreements

Objective – Project definition capable of attracting project funding

## **Board and Management**

# Pacific American Coal

### **Experienced growing mining companies**

#### Geoffrey Hill, Chairman, B.Ec, MBA, FCPA, FAICD

Geoffrey Hill currently serves as the Chairman of Pacific American Coal and is a founder and the Chairman of Texas and Oklahoma Coal Co. He is currently Chairman of International Pacific Securities (IPS) and a principal of Hill Sherlock and Willis. Mr Hill has over 30 years' experience in merchant banking with extensive experience in the resources industry.

### Simon Bird, Director, B.Acc. (Hons) FCPA FAICD

Simon Bird is an accomplished senior executive and company director with over 30 years of experience in Africa, Europe and Australia. Simon's career includes six years with PWC and time in the resources, financial services, property, infrastructure and agricultural sectors. Mr Bird currently holds non-executive director and Chairman roles on ASX listed resource companies.

### Paul Chappell, Director, B.Com, FCPA, MAICD

Paul Chappell has more than 30 years in the coal industry, including as a Director in trading international commodities. He has substantial board experience in coal exploration, development and mining. He has extensive experience in Asian, Latin American and European coal markets.

### Mark Sykes, Chief Executive Officer, B.Eng (Mining), MMEE

Mark Sykes is an experienced Mining Engineer with operations and project management experience with 25 years experience. Mark has worked in operational and management roles in both underground and open cut coal mines in Australia

#### **Dom Hill, Business Development Manager**

Dom Hill bases his time between Dallas and Vancouver and is responsible for project identification, acquisition and investor relations engagement. Dom has recently been involved with developing and delivering the Elko exploration program.



### **Local Partners**

### Partnered with recognized consultants



### **TECHNICAL**







### **ACCOUNTING**





### **LEGAL**





### **EXPLORATION AND GEOLOGICAL**

Highland GeoComputing, LLC

