

## REQUEST FOR INFORMATION

RFI NUMBER	<b>NL-RFI-026</b>
ISSUE DATE (YY/MM/DD)	February 4, 2011
PRIORITY	H <input type="checkbox"/> M <input checked="" type="checkbox"/> X <input type="checkbox"/> L <input type="checkbox"/>
REQ'D RESPONSE DATE	February 18, 2011

### Hope Bay Mining Project

Subject:	Bentonite Powder Specifications	Project Zone/Area:	Doris North / North Dam
Company:	Nuna Logistics Ltd. (Nuna)	Station/Location:	
Attention:	Doug Fielding/Jerry Graham cc. SRK	Discipline:	Civil

AFE:		Specification Number:	6.2.4 (5)
Related Drawings:	SRK Dwg No. DN-ND-05	Related Documents:	SRK Technical Specifications Rev D

Related WBS Code	n/a	WBS Code Description:	n/a

### Information Request/Description of Issue/Approval Required:

Nuna would like confirmation on whether or not PDS 3/8" Bentonite Plug (see attached technical data sheet) would be a suitable substitute for the Bentonite powder specified in SRK technical specifications Rev D page 37 section 6.2.4 no. 5. There is currently a supply of PDS 3/8" Bentonite Plug on site.

### Proposed Corrective Action:

Utilize the PDS 3/8" Bentonite Plug for treating the seams of the GCL linear associated with the construction of the North Dam. Eliminating the need to ship more material to site.

Originator: Mike Price

Print:

*MP*  
Sign:

Feb 4/2011

Date:

Cost Impact	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Savings realized if materials on site can be utilized
Detailed Estimate attached	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Schedule Impact	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Source for Communication	<input type="checkbox"/> Owner Change <input type="checkbox"/> Vendor Change	<input type="checkbox"/> Clarification/Info <input type="checkbox"/> Designer Change <input checked="" type="checkbox"/> Constructor Change <input type="checkbox"/> Other

Note: RFI's are not authorized change documents and cannot be used to direct a change in contract requirements. If Newmont's response on the RFI has cost and/or schedule effect, it is the contractor's responsibility to immediately advise Newmont. Work undertaken without Newmont written authorization is at the contractor's risk and expense

☐ Corrective Action Approved

☐ Correct as Follows:

Response:
Bentonite chips cannot be used. Section 6.4.2 Paragraph 2 mentions each overlap should be treated with powdered bentonite...comprised of the same bentonite as used in the manufacture of the GCL. The bentonite shall be applied at the minimum rate of 0.4 kg/m of seam. Paragraph 2 does mention using Bentonite paste but it is realized under cold conditions this is impractical.
Responsible Newmont Representative: Lowell Wade
Print: <i>Lowell Wade</i> Sign: Date: February 4, 2011

**TECHNICAL DATA SHEET**

Environmental Grout &amp; Sealant

# PDSCo PLUG

PURE WESTERN BENTONITE CHIPS

**DESCRIPTION**

**PDSCo Plug** is western sodium bentonite chips. It is available in both 3/8" and 3/4" chips;

**APPLICATION**

**PDSCo Plug** is primarily used for sealing wells, borehole, and monitoring well construction. **PDSCo Plug** can be poured in the hole dry, no mixing required. Upon hydration forms a flexible gel-like mass which fills formation voids and prevents surface contaminants from reaching subsurface groundwater.

**USAGE CHART**

Hole Diameter	2.5"	3.5"	4"	4.5"	5"	5.5	6"	6.5"	8"	10"
Lbs/Ft	2.5#	5#	6.75#	8.5#	10.75#	12.5#	15.5#	20.5#	28#	41#
Ft of Seal/Bag	20	10	7.5	5.75	5	5	3.25	2.5	1.75	1.25

**NOTE:** These are dry weights and volumes. In use, the swelling of the pellets will increase the length of the seal (depending on hole condition).

**PACKAGING**

Available in 50 lb polyethylene bags.

**TYPICAL CHEMICAL ANALYSIS**

SiO <sub>2</sub>	52.70	-	54.80	%
Al <sub>2</sub> O <sub>3</sub>	18.70	-	19.60	%
Fe <sub>2</sub> O <sub>3</sub>	3.97	-	4.13	%
CaO	0.68	-	1.55	%
MgO	2.71	-	2.72	%
Na <sub>2</sub> O	2.72	-	3.69	%
K <sub>2</sub> O	0.58	-	0.60	%
TiO <sub>2</sub>	0.32	-	0.34	%

**SPECIFICATION**

<u>PROPERTY</u>	<u>TYPICAL ANALYSIS</u>		
Moisture	8	-	15 %
pH	7.9	-	8.6 %
Volumetric Swell	8	-	15 %



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