

**ERRATA for**  
**PE Mining and Mineral Processing Practice Exam**  
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**Revisions are shown in red.**

**Question 11:**

A company mining borates has the following reserve:

<b>JORC Compliant Mineral Resource Estimate</b>						
<b>Resources</b>	<b>MMT</b>	<b>B<sub>2</sub>O<sub>3</sub>%</b>	<b>H<sub>3</sub>BO<sub>3</sub>%</b>	<b>Li ppm</b>	<b>B<sub>2</sub>O<sub>3</sub> MMT</b>	<b>H<sub>3</sub>BO<sub>3</sub> MMT</b>
Measured	38.81	6.70	11.91	379	2.61	4.63
Indicated	19.72	6.40	11.36	343	1.26	2.24
Total M&I	58.59	6.60	11.72	367	3.87	6.87
Inferred	61.85	6.43	11.42	322	3.98	7.07
Total M, I, & I	120.44	6.51	11.57	344	7.84	13.93

After future review and engineering **evaluation**, the project is economically profitable at the review grade cutoff used in the resource calculation. The company wants to move the 13.93 **MMT** of H<sub>3</sub>BO<sub>3</sub> in the resource to reserves as permissible under NI 43-101.

Consultants have calculated the in situ extraction of the borates at 70% with a metallurgical recovery of 90%. Based on this information, the reserve (**MMT** of H<sub>3</sub>BO<sub>3</sub>) is most nearly:

**Question 31:**

Identify the **predominant** direction of material displacement.

**Question 78:**

Given:

Ideal settling conditions exist.

Free settling

$$S_{\text{water}} = 1.0 \text{ g/cm}^3$$

$$S_{\text{solids}} = 2.65 \text{ g/cm}^3$$

$$\mu_{\text{water}} = 0.01 \text{ poise}$$

$$1 \text{ cm/sec} = 14.76 \text{ gpm/ft}^2$$

**Solution 11:**

$$M + I \text{ H}_3\text{BO}_3 = 6.87 \times 0.7 = 4.81 \text{ MMT}$$

**Solution 17:**

**Rainfall has the least influence on production for in situ recovery.**