APPENDIX A: Results
Test G 1.1

Dust generating sources

Respirable dust concentration, mg/m³

Intake Sample

0.33

0.63

0.18

0.43

Shaft

Workshop

Waste Tip

Reef Tip

Tip samples

0.47

0.43

Intake

Tip

Dust generating sources

0.33

0.18
Test G 1.2

- Intake sample
- Waste Tip
- Reef Tip
- Shaft
- Workshop
- Tip samples

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Intake</th>
<th>Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake</td>
<td>0.16</td>
<td>0.52</td>
</tr>
<tr>
<td>Reef Tip</td>
<td>0.23</td>
<td>0.65</td>
</tr>
<tr>
<td>Workshop</td>
<td>0.37</td>
<td>0.50</td>
</tr>
<tr>
<td>Tip samples</td>
<td>0.17</td>
<td></td>
</tr>
</tbody>
</table>
Test G 1.3

Dust generating sources

Respirable dust concentration, mg/m³

Intake Tip Return

Steel Support

Raise Bore-hole

Intake sample

Return sample

Tip samples

Internal orepasses

Graph showing respirable dust concentrations for Intake, Tip, and Return samples with values: 0.55, 0.69, 0.59, 0.68, 0.72.
Test G 1.4

Dust generating sources

Respirable dust concentration, mg/m³

Intake Tip Return

Return sample
Tip samples
Intake sample
Steel Support
Internal orepasses
Raise Bore-hole

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Intake</th>
<th>Tip</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.26</td>
<td>0.63</td>
<td>0.89</td>
</tr>
<tr>
<td></td>
<td>0.78</td>
<td>0.80</td>
<td></td>
</tr>
</tbody>
</table>
Test G 1.5

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Intake</th>
<th>Tip</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respirable dust concentration, mg/m³</td>
<td>0.37</td>
<td>0.81</td>
<td>0.71</td>
</tr>
<tr>
<td>Test G 1.5</td>
<td>1.5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dust generating sources

Respirable dust concentration, mg/m³

Intake sample
Crosscut sample
Footwall Drive
Intake
Cross-Cut
Return sample

Test G 1.6

- Intake: 1.58 mg/m³
- Heading: 0.50 mg/m³
- Return: 0.80 mg/m³
Test G 1.7

Respirable dust concentration, mg/m³

Dust generating sources

0.00 0.50 1.00

Intake 0.47 0.63

Heading 0.34 0.49 0.45
Dust generating sources

Respirable dust concentration, mg/m³

Intake  | Stope tip  | Stope

0.55   | 0.59       | 0.57 0.57

Test G 1.8

Ventilation Control Wall

Stope face samples

Tip sample

Intake sample
Respirable dust concentration, mg/m³

Return Stope tip Stope

Dust generating sources

Return sample
Tip sample

Ventilation Control Wall

Stope face samples

Test G 1.9

0 0.5 1 1.5 2

0 0.56 0.87 1.40

Return Stope tip Stope
Test G 2.1

Dust generating sources

Respirable dust concentration, mg/m³

Intake sample

Reef Tip 1

Reef Tip 2

Reef Tip 3

Reef tip sample

Intake sample
Intake sample

Shaft

Reef Tip 1
Reef Tip 2
Reef tip samples

Reef Transfer Box No. 1
Reef Transfer Box No. 2

Test G 2.2

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Intake Chutes</th>
<th>0.15</th>
<th>0.59</th>
<th>0.30</th>
<th>0.87</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust generating sources</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test G 2.2
Respirable dust concentrations, mg/m³:

- Transfer Chutes:
  - Reef Tip 1: 0.94 mg/m³
  - Reef Tip 2: 1.33 mg/m³

- Tip:
  - Reef Tip 1: 0.74 mg/m³
  - Reef Tip 2: 1.00 mg/m³
  - Reef Tip 3: 1.07 mg/m³

Test G 2.3

Diagram showing:
- Shaft with Reef Tip 1 and Reef Tip 2
- Reef Tip samples
- Transfer box samples
- Reef Transfer Box No. 1 and Reef Transfer Box No. 2
Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Transfer chutes</th>
<th>Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reef Transfer Box No. 1</td>
<td>3.43</td>
<td>3.03</td>
</tr>
<tr>
<td>Reef Tip 1</td>
<td>4.00</td>
<td>5.65</td>
</tr>
<tr>
<td>Reef Tip 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reef Transfer Box No. 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reef tip sample</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer box samples</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Test G 2.4
Test G 2.5

Dust generating sources

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Source</th>
<th>Intake</th>
<th>Heading</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test G 2.5</td>
<td>0.59</td>
<td>1.04</td>
<td>0.70</td>
</tr>
</tbody>
</table>

Intake sample

Heading sample

Return sample
Test G 2.6

Dust generating sources

Respirable dust concentration, mg/m³

Intake | Heading | Return

0.73 | 0.65 | 0.53
0.71 | 0.51 | 0.48

Return sample
Intake sample
Heading sample
Intake Stope-tip Return

Dust generating sources

Respirable dust concentration, mg/m^3

Panel 7

Panel 8

Test G 2.7

Intake

Return

Stope tip samples
Intake Stope tip Stope return

Dust generating sources

Respirable dust concentration, mg/m³

Panel 8

Panel 7

Test G 2.8
Intake sample

Reef tip samples

Dust generating sources

Respirable dust concentration, mg/m³

Test P 3.1

0.11 0.18

0.35 0.40

0.36
Test P 3.2

Respirable dust concentration, mg/m³

Dust generating sources

- Intake Tip

Reef tip samples Intake sample Reef tip sample
Test P 3.3

Respirable dust concentrations, mg/m³

Dust generating sources:
- Intake
- Orepass chute
- Dev. End Return

Concentrations:
- Intake: 0.25
- Orepass chute: 0.29, 0.54, 0.34
- Dev. End Return: 1.86

Intake sample
Transfer point samples
Return sample
Test P 3.5

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Intake</th>
<th>Transfer box</th>
<th>Heading</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.14</td>
<td>0.35</td>
<td>0.90</td>
<td>1.12</td>
</tr>
<tr>
<td></td>
<td>0.54</td>
<td>0.83</td>
<td>0.91</td>
<td>0.76</td>
</tr>
</tbody>
</table>

Intake sample
Transfer point samples
Ore pass
Ore pass
Ore pass
Heading samples
Return sample
Test P 3.6

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Intake</th>
<th>Transfer box</th>
<th>Heading</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test P 3.6</td>
<td>3.6</td>
<td>1.49</td>
<td>1.48</td>
<td>3.47</td>
</tr>
</tbody>
</table>

Ore pass

Transfer point samples

Heading samples

Intake sample

Return sample
Dust generating sources

<table>
<thead>
<tr>
<th>Location</th>
<th>Respirable dust concentration, mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake sample</td>
<td>0.28</td>
</tr>
<tr>
<td>Stop-stip</td>
<td>3.7</td>
</tr>
<tr>
<td>Dip Gully sample</td>
<td>2.63</td>
</tr>
<tr>
<td>Gully scraping</td>
<td>1.51</td>
</tr>
<tr>
<td>Return sample</td>
<td>1.71</td>
</tr>
</tbody>
</table>

Test P 3.7
Test P 3.8

Respirable dust concentration, mg/m³

Dust generating sources

- Intake
- Stop-tip
- Gully [scraping]
- Return

- Tip samples
- Winch
- Strike Gully
- Dip Gully
- Return sample
- Gully sample
- Gully sample

Values:

- Intake: 0.20, 0.20, 0.10
- Stop-tip: 0.59
- Gully [scraping]: 0.71
- Return: 0.63
Dust generating sources

- Intake: 0.28
- Stope-tip: 2.63
- Dip gully scraping: 1.34
- Dip gully: 1.38
- Return: 1.71

Test P 3.9

Respirable dust concentration, mg/m³

- Intake:
- Stope-tip: 2.63
- Dip gully scraping: 1.34
- Dip gully: 1.38
- Return: 1.71
Respirable dust concentration, mg/m³

Dust generating sources

- Shaft
- Intake
- Tip

Test P 4.1

Shaft Intake Tip

Dust generating sources

- Respirable dust concentration, mg/m³

Shaft
Reef Tip 2
Waste Tip
Reef Tip 1
Footwall Drive

Intake sample
Tip samples
Reef Tip 1
Waste Tip
Reef Tip 2
Tip sample
Shaft sample
### Test P 4.2

#### Dust Generating Sources

<table>
<thead>
<tr>
<th>Source</th>
<th>Belt Sample</th>
<th>Intake Sample</th>
<th>Heading Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respirable dust concentration, mg/m³</td>
<td>0.38</td>
<td>0.45</td>
<td>0.48</td>
</tr>
<tr>
<td></td>
<td>0.91</td>
<td>0.56</td>
<td>0.80</td>
</tr>
</tbody>
</table>

#### Diagram

- **Belt samples**
- **Cross-cut**
- **To 14 Level**
- **Conveyor belt**
- **Belt samples**
- **Heading samples**
- **Intake sample**
- **Cross-cut**
Test P 4.3

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Belt</th>
<th>Intake</th>
<th>Heading</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.30</td>
<td>1.69</td>
<td>1.74</td>
</tr>
<tr>
<td></td>
<td>0.25</td>
<td>2.09</td>
<td>1.71</td>
</tr>
<tr>
<td></td>
<td>0.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To 14 Level

Heading sample

Intake samples

Conveyor belt

Belt samples

Cross-cut
Test P 4.4

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Shaft</th>
<th>Belt</th>
<th>Intake</th>
<th>Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft</td>
<td>0.27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belt</td>
<td>0.63</td>
<td>0.62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intake</td>
<td>0.30</td>
<td></td>
<td>0.26</td>
<td></td>
</tr>
<tr>
<td>Tips</td>
<td>0.34</td>
<td></td>
<td></td>
<td>0.30</td>
</tr>
</tbody>
</table>

Decline to 13 Level

12 Level

Waste Tip

Reef Tip

Belt samples

Intake sample

Tip sample

Conveyor Belt

Access to 11 Level

Shaft sample

Waste Tip

Reef Tip
Test P 4.5

Dust generating sources

Respirable dust concentration, mg/m³

<table>
<thead>
<tr>
<th>Dust generating sources</th>
<th>Shaft</th>
<th>Belt</th>
<th>Intake</th>
<th>Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.01</td>
<td>0.44</td>
<td>0.15</td>
<td>0.19</td>
</tr>
</tbody>
</table>

Decline to 13 Level

Access to 11 Level

Waste Tip

Reef Tip

Shaft sample

Belt samples

Intake sample

Decline to 13 Level
Test P 4.6

Intake, Access Gully scraping Intake strike gully Return Strike Gully Return Face Dust generating sources

Respirable dust concentration, mg/m³

- Intake, Access
- Gully scraping
- Intake strike gully
- Return Strike Gully
- Return Face

Sample locations:
- Stope Inlet
- Access Raise
- Backfill Bags
- Gully Inlet sample
- Face Return Sample
- Gully samples
- Intake sample
Test P 5.2

Intake sample

Drilling

Drawpoints

Downstream sample-DS

Return Airway

Respirable dust concentration, mg/m³

Intake Drilling Orepass loading

0.60 3.28 -2.00 0.00 2.00 4.00

Dust generating sources

Intake Drilling Orepass loading

Test P 5.2
CRUSHER SITE

Intake Crusher Upstream Crusher Downstream

Dust generating sources

Respirable dust concentration, mg/m³

0.62 5.61 8.63

Test P 5.5

Crusher sample

CRUSHER SITE

Intake

Crusher return sample

RAW