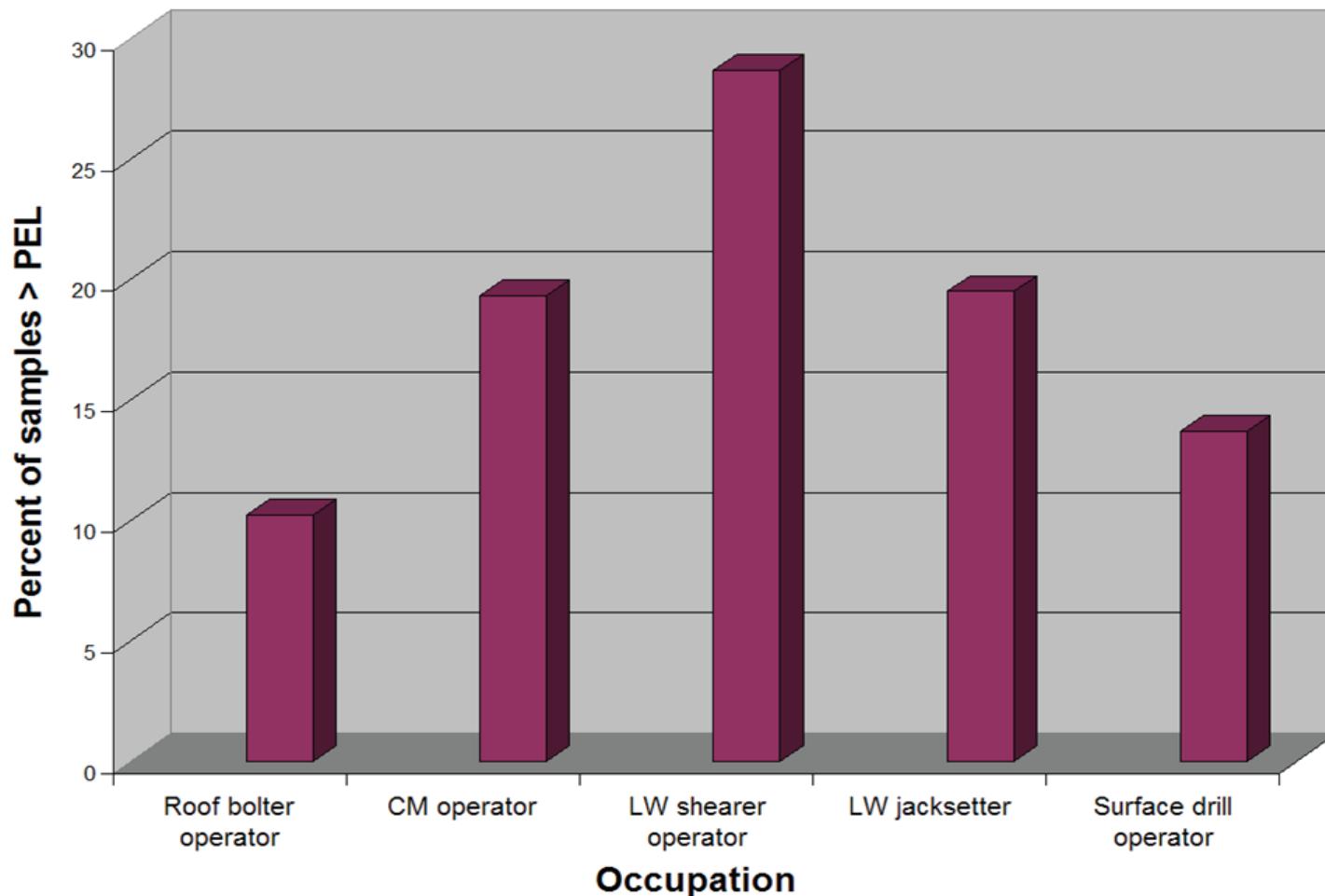


# Health Division Overview

October 23, 2014

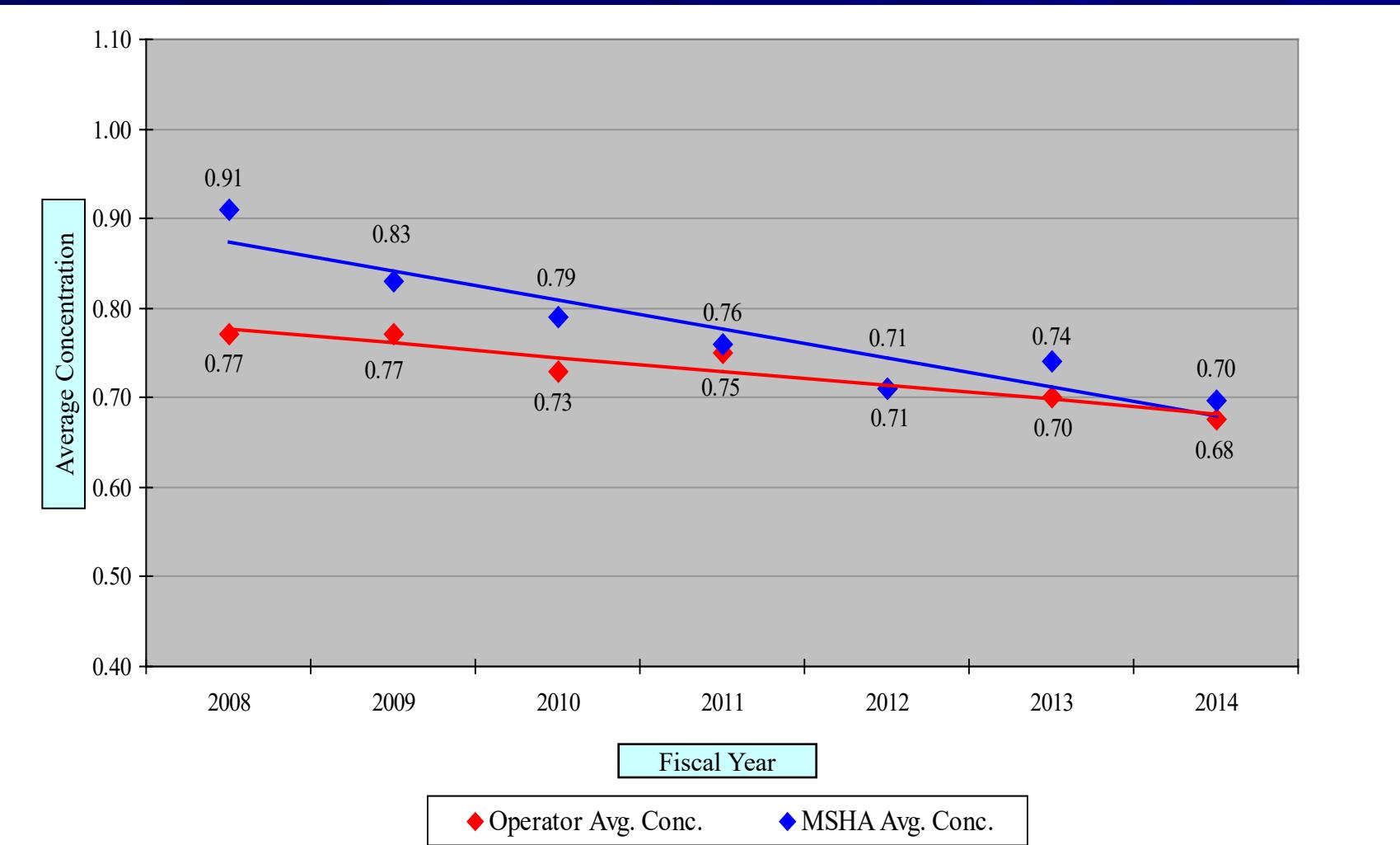
## Percentage of MSHA inspector samples during 2003–2007 that exceeded reduced PELs



# Respirable Dust

# Underground Mines

## Average Dust Concentration by Fiscal Year



# Producing DWPs by Occupation Type and Status Date

## October 20, 2014

District	Original Entity Status Date:	Bulldozer Operator		Highwall Drill Operator		Other Occupations		Total
		Before 8/1/14	After 8/1/14	Before 8/1/14	After 8/1/14	Before 8/1/14	After 8/1/14	
2		39	215	3	158	29	6	450
3		7	56	3	28	3		97
4		12	124	7	88	7		238
5		7	47	5	31	1	1	92
6		15	118	4	80	9		226
7		17	123	7	84	6	2	239
8		4	96	1	49	14		164
9		2	37		47	5	9	100
10		1	33		9		3	46
11		4	78	10	42	5		139
12		5	80		54	5	1	145
Nation		113	1007	40	670	84	22	1,936
Total DWPs Established Due to the New Rule to Date:								1,823

\* Includes all producing DWPs entered into the MSHA Data Warehouse as of 10/6/14.

Note: Most of the new DWPs established after 8/1/2014 have a status date effective 10/1/2014. 128 of the DWPs originally established prior to 8/1/2014 have a current entity status date after 8/1/2014. 93 Bulldozer Operators and 31 Highwall Drill Operators were re-established.

# Dust Sample Counts by Sample Type

## August 1 – September 30, 2014

### Total Count and Counts Exceeding Dust Standards, ECV Values\* and 100 µg/m<sup>3</sup> Quartz

Sample Type	Sample Type Code	Operator Samples						MSHA Samples						
		Total	Exceed Std		Exceed ECV		Total	Exceed Std		Exceed ECV		Exceed 100 µg/m <sup>3</sup> Qtz		
			Valid	#	%	#		#	%	#	%	#	%	
DO	1	2,411	59	<b>2.4</b>		34	<b>1.4</b>	360	11	<b>3.1</b>	7	<b>1.9</b>	4	<b>1.1</b>
NDO	2	6						1,439	15	<b>1.0</b>	6	<b>0.4</b>		
DA	3	739	8	<b>1.1</b>		6	<b>0.8</b>	389	6	<b>1.5</b>	3	<b>0.8</b>	4	<b>1.0</b>
DWP	4							198	1	<b>0.5</b>			4	<b>2.0</b>
PART 90	5	45	2	<b>4.4</b>		2	<b>4.4</b>	35	1	<b>2.9</b>	1	<b>2.9</b>		
NDA	6							30	1	<b>3.3</b>				
INTAKE	7							346	2	<b>0.6</b>	2	<b>0.6</b>		
NDWP	8							1,452	1	<b>0.1</b>	1	<b>0.1</b>		
INVALID	0							6						
<b>Total:</b>		<b>3,201</b>	<b>69</b>	<b>2.2</b>		<b>42</b>	<b>1.3</b>	<b>4,255</b>	<b>38</b>	<b>0.9</b>	<b>20</b>	<b>0.5</b>	<b>12</b>	<b>0.3</b>

\* Uses CMDPSU ECV values and the applicable dust standard for each sample.

# Citations Issued Since August 1, 2014

- 19 citations issued based on MSHA Single Shift Sampling
- 6 citations issued based on Operator Consecutive Shift Sampling

# Dust Sample Counts by Sample Type

## August 1 – September 30, 2014

### Total Count and Counts Exceeding 2016 Dust Standards and ECV Values\*\*

Sample Type	Sample Type Code	Operator Samples						MSHA Samples					
		Total	Exceed Std		Exceed ECV		Total	Exceed Std		Exceed ECV		Total	Valid
			Valid	#	%	#		Valid	#	%	#		
DO	1	2,411	126	<b>5.2</b>		76	<b>3.2</b>	360	18	<b>5.0</b>	11	<b>3.1</b>	
NDO	2	6						1,439	37	<b>2.6</b>	20	<b>1.4</b>	
DA	3	739	19	<b>2.6</b>		8	<b>1.1</b>	389	16	<b>4.1</b>	8	<b>2.1</b>	
DWP	4							198	2	<b>1.0</b>			
PART 90	5	45	4	<b>8.9</b>		3	<b>6.7</b>	35	4	<b>11.4</b>	2	<b>5.7</b>	
NDA	6							30	1	<b>3.3</b>			
INTAKE	7							346	7	<b>2.0</b>	3	<b>0.9</b>	
NDWP	8							1,452	4	<b>0.3</b>	3	<b>0.2</b>	
INVALID	0							6					
<b>Total:</b>		<b>3,201</b>	<b>149</b>	<b>4.7</b>		<b>87</b>	<b>2.7</b>	<b>4,255</b>	<b>89</b>	<b>2.1</b>	<b>47</b>	<b>1.1</b>	

\*\* Applies maximum base dust standard of 1.5 mg/m<sup>3</sup> for MMU, DA and DWP samples and 0.5 mg/m<sup>3</sup> for intake air and Part 90 miner samples. Uses CPDM ECV values for operator face area and Part 90 miner occupational samples, and CMDPSU ECV values for other samples.