

# **FLOAT AND SINK PROFICIENCY TESTING**

## **REPORT FIVE**

Revision: 00

## **Final report**

**FEBRUARY 2017**

**PARTICIPANT:**

**SCHEME COORDINATOR: K PILLAY**

**CHECKED BY: R BABOOLAL (SCHEME MANAGER)**

### EXECUTIVE SUMMARY

1. Twelve samples were sent out to participants with eleven result submissions.
2. Iterative statistics not applied due to data limitation
3. Observations at the differing densities

DENSITY	COMMENTS
1.30	No outliers were detected on the yields and the ash determination. The yields varied considerably with a standard deviation of 3.11 and the mean and median differing 1.92. The range was also high at 9.69. Participants are urged to apply utmost care in this at this density, although improvement has been made to date from the previous rounds. The ash results have also improved with the mean and median not differing by much at 6.54 and 6.28 respectively
1.40	The yields at this density are also still quite varied with a standard deviation of 4.40, however this is an improvement on the previous round of 8.07. There has been a great improvement on the ash determination although 2 outliers were detected. The mean and median compared well with a difference of 0.18. The range was 1.44 which is also a huge improvement from the previous rounds
1.50	Although no outliers were detected, the standard deviation on the yields was high as well and the range. The range was 29.61 and the difference between the mean and median was 2.27. The ash determination was well done with the average and median differing by 0.30 and an even z-score trend
1.60	Large variance observed on the yields with a standard deviation of 3.09 but an improvement on the previous result of 4.04. The consistency of the ash determination was very good with the standard deviation of 1.07 and an RSD of 5%
1.70	One extreme outlier was detected and should be investigated on the yields. An even z-score trend was obtained and the mean and median were acceptable. The ash RSD was at 8% indicating generally acceptable/comparable results
1.80	Two outliers were detected each on the yields and the ash determination. The overall yields were low in keeping with this density. Ash results were very good with a standard deviation of 0.92 and an RSD of 2.3%. One participant did not obtain a yield on this density and should investigate
Sink 1.80	Two participants did not obtain sinks, this should be investigated. The rest that reported , indicated consistent sinks. The ash had one outlier, but acceptable results on the ash determination with an RSD of 4%

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Dear

Thank you for your participation in the Coal Concepts Float and Sink **FEBRUARY 2017** proficiency testing scheme.

Your laboratory code is **XX**

All results are totally confidential. Any results in ***bold, italics, underlined*** are outliers. Where applicable, the most extreme outliers have been eliminated from calculation of averages using the Grubbs estimate for outliers.

Please take note of the following:

1. Z-scores between -1 and +1 is deemed acceptable
2. Z-scores between -2 and -3 should serve as a warning that the analysis result could get worse
3. Z-scores between +2 and +3 should also serve as a warning that analysis results could get worse.
4. Z- scores lower than -3 and exceeding +3 should warrant an investigation
6. All calculations can be made available upon request

The Coal Concepts scheme adheres to the requirements of ISO/IEC 17043:2010 – Conformity assessment – General requirements for proficiency testing.

Please find results attached together with Z-score trends.

Best Regards

R Baboolal

**LIST OF PARTICIPANTS IN ALPHABETICAL ORDER**

ALS Witlab
Bureau Veritas Inspectorate Laboratories - Middelburg
Bureau Veritas Inspectorate Laboratories - Tendele
Bureau Veritas Minerals Pty Ltd – Brendale, Australia
Bureau Veritas Inspectorate Laboratories – ZAC Mine
Intertek - Mozambique
Noko Analytical Services - Witbank
SABS Secunda Laboratory
SGS - Trichardt Laboratory
SGS – Witbank laboratory
Sibonisiwe Coal Laboratory Services
Umzamo Analytical Services

**1. TYPE OF SAMPLE USED**

The coal used in this proficiency testing round was washed bituminous coal with low ash. Low ash coal was selected so that yields across the spectrum could be obtained

**2. PREPARATION OF SAMPLE**

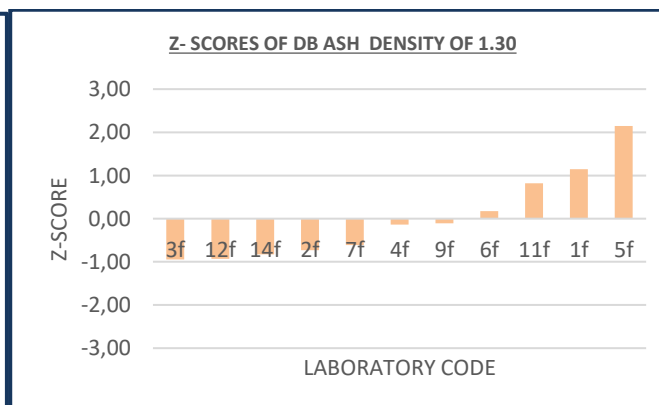
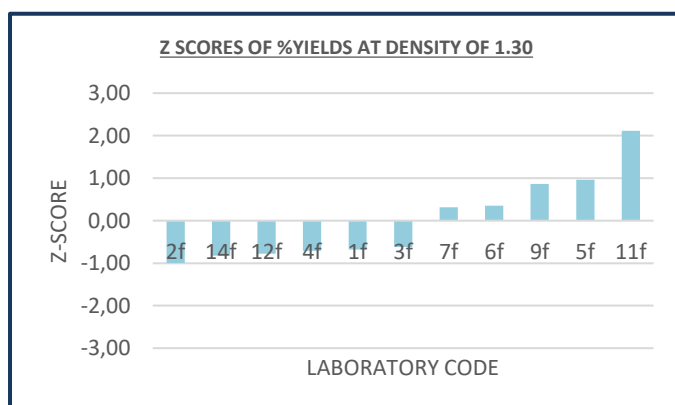
Approximately 100kg's of sample with an approximate topline of 50mm was sourced. This was crushed to approximately 12 mm using a jaw crusher. The bulk sample was mixed on a concrete floor using a spade. Ten by 10l buckets was placed near the bulk samples. Using the spade, small increments of the bulk sample were placed into each of the buckets. This was done until all the buckets contained about 10kgs of coal.

### 3. RESULTS

#### 3.1 YIELDS AND ASH RESULTS AT DENSITY OF 1.30

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT F1.30				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	0,21	2,20	-0,68
	2f	0,12	1,21	-1,00
	3f	0,23	2,40	-0,62
	4f	0,20	2,10	-0,71
	5f	0,70	7,30	0,96
	6f	0,53	5,40	0,35
	7f	0,51	5,30	0,32
	9f	0,68	7,00	0,86
	11f	1,05	10,90	2,12
	12f	0,18	1,90	-0,78
	14f	0,17	1,76	-0,82
<b>NUMBER OF RESULTS</b>	-	10	10	-
<b>OUTLIERS</b>	-	0	0	-
<b>AVERAGE</b>	-	0,42	4,32	-
<b>STD DEVIATION</b>	-	0,30	3,11	-
<b>MEDIAN</b>	-	0,23	2,40	-

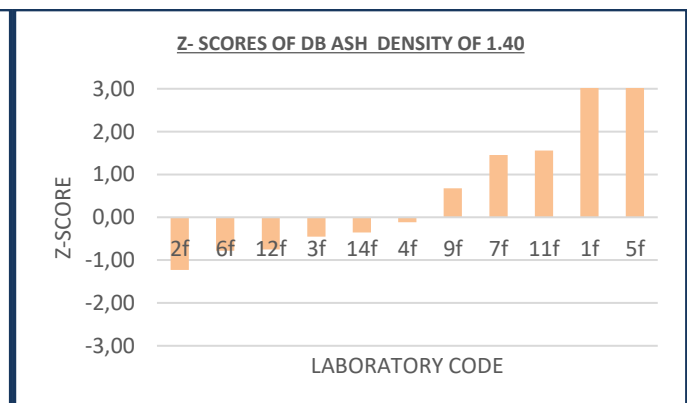
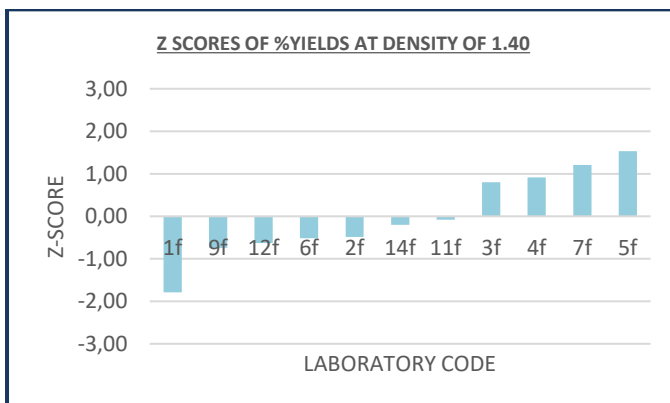
COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Density at 1.30)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1f	2,90	8,50	8,75	1,14
	2f	2,40	5,00	5,12	-0,73
	3f	2,10	4,60	4,70	-0,95
	4f	2,80	6,10	6,28	-0,13
	5f	1,90	10,50	10,70	2,15
	6f	1,10	6,80	6,88	0,18
	7f	2,70	5,20	5,34	-0,61
	9f	1,90	6,20	6,32	-0,11
	11f	2,52	7,92	8,12	0,82
	12f	2,80	4,60	4,73	-0,93
	14f	2,70	4,80	4,93	-0,83
<b>NUMBER OF RESULTS</b>	-	11	11	11	-
<b>OUTLIERS</b>	-	-	0	0	-
<b>AVERAGE</b>	-	2,35	6,38	6,54	-
<b>STD DEVIATION</b>	-	-	1,90	1,94	-
<b>MEDIAN</b>	-	-	6,10	6,28	-



## 3.2 YIELDS AND ASH RESULTS AT DENSITY OF 1.40

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT F1.40				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	1,87	19,70	-1,79
	2f	2,46	25,43	-0,49
	3f	2,98	31,10	0,80
	4f	3,01	31,60	0,91
	5f	3,30	34,30	1,53
	6f	2,48	25,30	-0,52
	7f	3,17	32,90	1,21
	9f	2,36	24,30	-0,75
	11f	2,62	27,21	-0,08
	12f	2,38	24,80	-0,63
	14f	2,59	26,71	-0,20
<b>NUMBER OF RESULTS</b>	-	11	11	-
<b>OUTLIERS</b>	-	0	0	-
<b>AVERAGE</b>	-	2,66	27,58	-
<b>STD DEVIATION</b>	-	0,42	4,40	-
<b>MEDIAN</b>	-	2,59	26,71	-

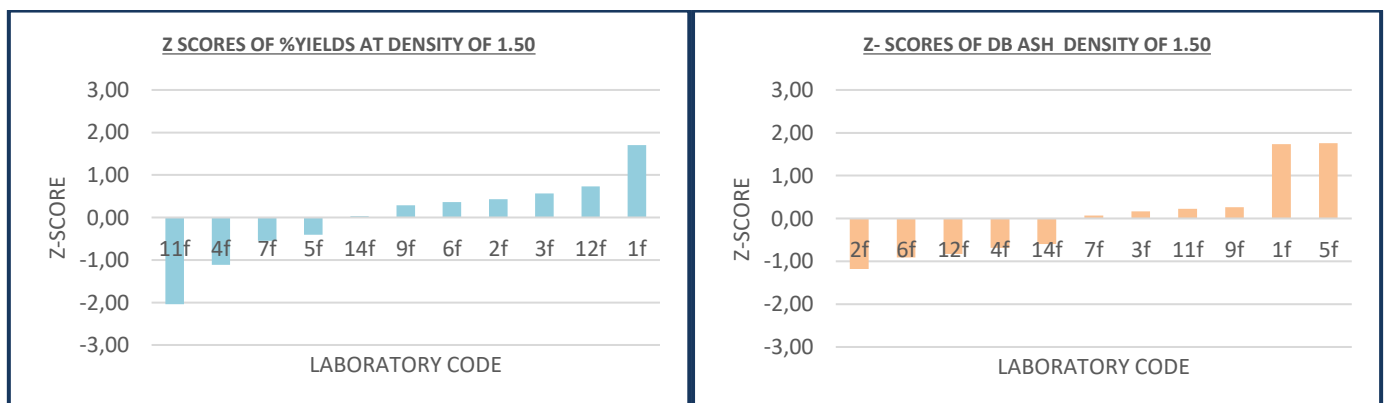
COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Density at 1.40)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	<b>1f</b>	2,60	<b>11,10</b>	<b>11,40</b>	<b>4,98</b>
	2f	2,20	8,00	8,18	-1,23
	3f	2,10	8,40	8,58	-0,45
	4f	2,90	8,50	8,75	-0,12
	<b>5f</b>	2,00	<b>15,00</b>	<b>15,31</b>	<b>12,52</b>
	6f	1,30	8,30	8,41	-0,78
	7f	2,80	9,30	9,57	1,45
	9f	1,80	9,00	9,16	0,67
	11f	3,35	9,30	9,62	1,56
	12f	2,70	8,20	8,43	-0,75
	14f	2,70	8,40	8,63	-0,35
<b>NUMBER OF RESULTS</b>	-	11	11	11	-
<b>OUTLIERS</b>	-	-	2	2	-
<b>AVERAGE</b>	-	2,40	8,60	8,82	-
<b>STD DEVIATION</b>	-	-	0,48	0,52	-
<b>MEDIAN</b>	-	-	8,40	8,63	-



## 3.3 YIELDS AND ASH RESULTS AT DENSITY OF 1.50

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT F1.50				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	5,60	59,00	1,70
	2f	4,74	48,95	0,43
	3f	4,80	50,00	0,56
	4f	3,51	36,70	-1,11
	5f	4,07	42,30	-0,41
	6f	4,75	48,40	0,36
	7f	3,97	41,20	-0,55
	9f	4,64	47,80	0,29
	11f	2,83	29,39	-2,04
	12f	4,91	51,30	0,73
	14f	4,44	45,75	0,03
<b>NUMBER OF RESULTS</b>	-	11	11	-
<b>OUTLIERS</b>	-	0	0	-
<b>AVERAGE</b>	-	4,39	45,53	-
<b>STD DEVIATION</b>	-	0,76	7,92	-
<b>MEDIAN</b>	-	4,64	47,80	-

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Density at 1.50)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1f	2,4	17,80	18,24	1,74
	2f	2,10	12,90	13,18	-1,18
	3f	2,00	15,20	15,51	0,16
	4f	3,10	13,60	14,04	-0,69
	5f	2,60	17,80	18,28	1,76
	6f	1,80	13,40	13,65	-0,91
	7f	2,90	14,90	15,35	0,07
	9f	1,80	15,40	15,68	0,26
	11f	3,09	15,13	15,61	0,22
	12f	2,80	13,40	13,79	-0,83
	14f	2,80	13,80	14,20	-0,59
<b>NUMBER OF RESULTS</b>	-	11	11	11	-
<b>OUTLIERS</b>	-	-	0	0	-
<b>AVERAGE</b>	-	2,49	14,85	15,23	-
<b>STD DEVIATION</b>	-	-	1,69	1,73	-
<b>MEDIAN</b>			14,90	15,35	-

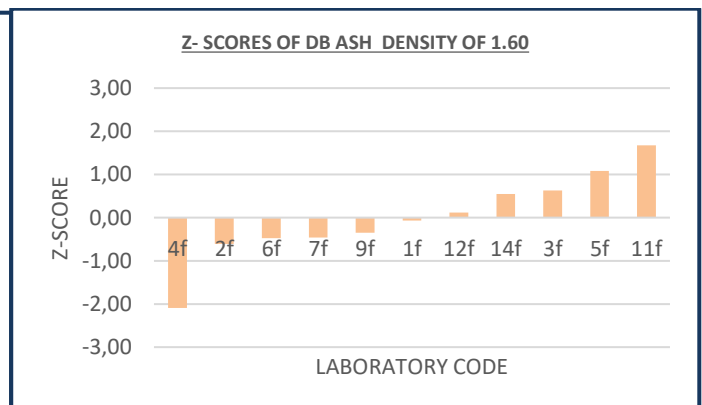
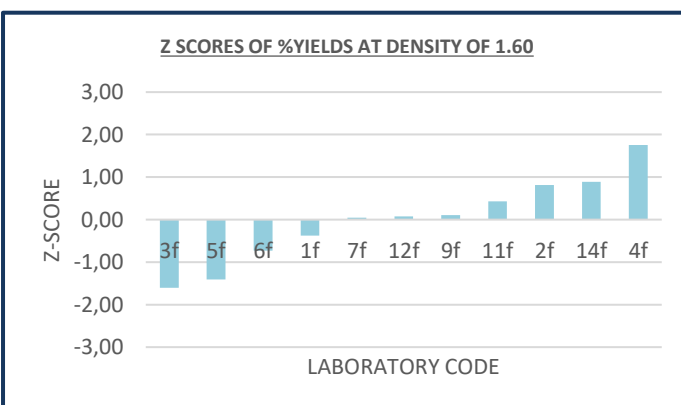




## 3.4 YIELDS AND ASH RESULTS AT DENSITY OF 1.60

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT F1.60				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	1,56	16,40	-0,38
	2f	1,94	20,07	0,81
	3f	1,21	12,60	-1,61
	4f	2,19	23,00	1,76
	5f	1,27	13,20	-1,41
	6f	1,50	15,30	-0,73
	7f	1,70	17,70	0,04
	9f	1,74	17,90	0,11
	11f	1,82	18,90	0,43
	12f	1,71	17,80	0,08
	14f	1,97	20,32	0,89
<b>NUMBER OF RESULTS</b>	-	11	11	-
<b>OUTLIERS</b>	-	0	0	-
<b>AVERAGE</b>	-	1,69	17,56	-
<b>STD DEVIATION</b>	-	0,30	3,09	-
<b>MEDIAN</b>	-	1,71	17,80	-

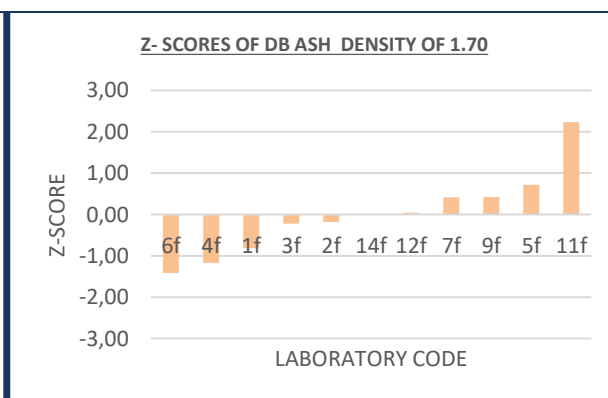
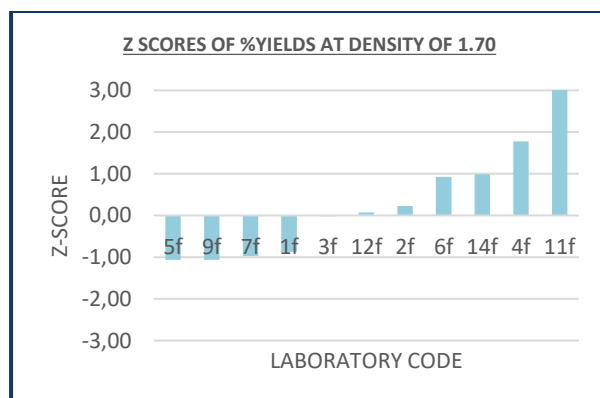
COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Density at 1.60)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1f	2,4	21,80	22,34	-0,07
	2f	2,10	21,30	21,76	-0,61
	3f	2,10	22,60	23,08	0,63
	4f	2,80	19,60	20,16	-2,09
	5f	2,00	23,10	23,57	1,08
	6f	1,80	21,50	21,89	-0,48
	7f	2,80	21,30	21,91	-0,46
	9f	1,50	21,70	22,03	-0,35
	11f	2,87	23,51	24,20	1,67
	12f	2,80	21,90	22,53	0,11
	14f	2,60	22,40	23,00	0,55
<b>NUMBER OF RESULTS</b>	-	11	11	11	-
<b>OUTLIERS</b>	-	-	0	0	-
<b>AVERAGE</b>	-	2,34	21,88	22,41	-
<b>STD DEVIATION</b>	-	-	1,05	1,07	-
<b>MEDIAN</b>	-	-	21,80	22,34	-



## 3.5 YIELDS AND ASH RESULTS AT DENSITY OF 1.70

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT F1.70				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	0,20	2,10	-0,87
	2f	0,32	3,26	0,22
	3f	0,29	3,00	-0,02
	4f	0,47	4,90	1,78
	5f	0,18	1,90	-1,06
	6f	0,39	4,00	0,92
	7f	0,20	2,00	-0,97
	9f	0,18	1,90	-1,06
	<b>11f</b>	<b>1,31</b>	<b>13,60</b>	<b>10,01</b>
	12f	0,29	3,10	0,07
	14f	0,39	4,07	0,99
<b>NUMBER OF RESULTS</b>	-	11	11	-
<b>OUTLIERS</b>	-	1	1	-
<b>AVERAGE</b>	-	0,29	3,02	-
<b>STD DEVIATION</b>	-	0,10	1,06	-
<b>MEDIAN</b>	-	0,29	3,05	-

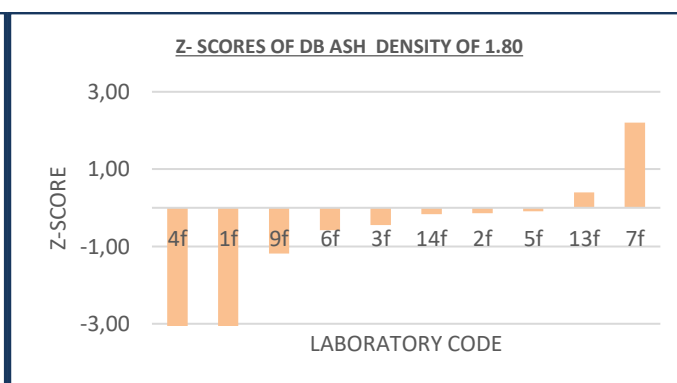
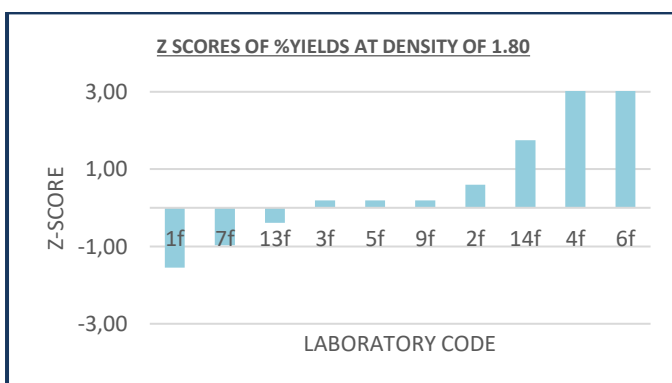
COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Density at 1.70)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	1f	2,40	28,90	29,61	-0,82
	2f	2,00	30,60	31,22	-0,18
	3f	2,00	30,50	31,12	-0,22
	4f	2,80	27,90	28,70	-1,18
	5f	1,80	32,90	33,50	0,71
	6f	1,40	27,70	28,09	-1,42
	7f	2,60	31,90	32,75	0,42
	9f	2,00	32,10	32,76	0,42
	11f	2,46	36,45	37,37	2,23
	12f	2,50	31,00	31,79	0,04
	14f	2,50	30,90	31,69	0,00
<b>NUMBER OF RESULTS</b>	-	11	11	11	-
<b>OUTLIERS</b>	-	-	0	0	-
<b>AVERAGE</b>	-	2,22	30,99	31,69	-
<b>STD DEVIATION</b>	-	-	2,46	2,54	-
<b>MEDIAN</b>	-	-	30,90	31,69	-



## 3.6 YIELDS AND ASH RESULTS AT DENSITY OF 1.80

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT F1.80				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	0,03	0,30	-1,55
	2f	0,07	0,67	0,59
	3f	0,06	0,60	0,19
	<b>4f</b>	<b>0,12</b>	<b>1,30</b>	<b>4,24</b>
	5f	0,06	0,60	0,19
	<b>6f</b>	<b>0,16</b>	<b>1,60</b>	<b>5,97</b>
	7f	0,04	0,40	-0,97
	9f	0,06	0,60	0,19
	13f	0,05	0,50	-0,39
	14f	0,08	0,87	1,75
NUMBER OF RESULTS	-	10	10	-
OUTLIERS	-	2	2	-
AVERAGE	-	0,06	0,57	-
STD DEVIATION	-	0,02	0,17	-
MEDIAN	-	0,06	0,60	-

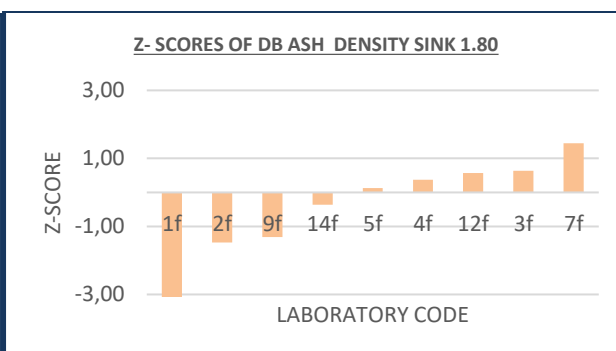
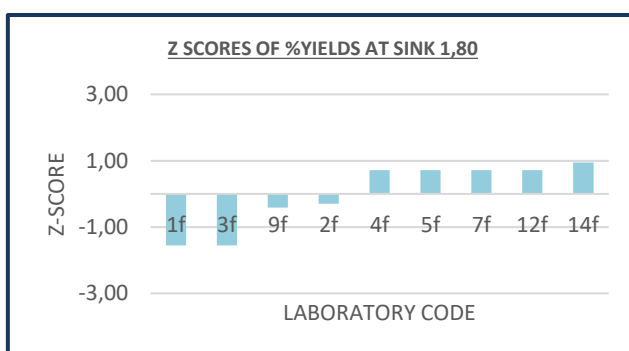
COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Density at 1.80)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	<b>1f</b>	2,30	<b>33,90</b>	<b>34,70</b>	<b>-5,58</b>
	2f	2,00	38,90	39,69	-0,14
	3f	1,80	38,70	39,41	-0,45
	<b>4f</b>	2,50	<b>32,80</b>	<b>33,64</b>	<b>-6,73</b>
	5f	1,60	39,10	39,74	-0,09
	6f	1,00	38,90	39,29	-0,58
	7f	2,50	40,80	41,85	2,20
	9f	1,90	38,00	38,74	-1,18
	13f	2,20	39,30	40,18	0,39
	14f	2,2	38,80	39,67	-0,16
NUMBER OF RESULTS	-	10	10	10	-
OUTLIERS	-	-	2	2	-
AVERAGE	-	2,00	39,06	39,82	-
STD DEVIATION	-	-	0,80	0,92	-
MEDIAN	-	-	38,90	39,68	-



## 3.7 YIELDS AND ASH RESULTS AT DENSITY OF SINK 1.80

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017				
ANALYTICAL PARAMETER : YIELDS AT Si 1.80				
	LAB ID	MASS (Kg)	%YIELD	Z-SCORE (of % yield)
	1f	0,03	0,30	-1,55
	2f	0,04	0,41	-0,30
	3f	0,03	0,30	-1,55
	4f	0,05	0,50	0,72
	5f	0,05	0,50	0,72
	7f	0,05	0,50	0,72
	9f	0,04	0,40	-0,42
	12f	0,05	0,50	0,72
	14f	0,05	0,52	0,94
NUMBER OF RESULTS	-	9	9	-
OUTLIERS	-	0	0	-
AVERAGE	-	0,04	0,44	-
STD DEVIATION	-	0,01	0,09	-
MEDIAN	-	0,05	0,50	-

COAL CONCEPTS - PROFICIENCY TESTING - FEBRUARY 2017					
ANALYTICAL PARAMETER : ISO ASH (%) (Sink portion after density1.80)					
	LAB ID	MOISTURE IN ANALYSIS SAMPLE (%)	AIR DRY	DRY BASE	Z-SCORE (DRY BASE)
	<u>1f</u>	2,2	<u>42,80</u>	<u>43,76</u>	<u>-4,23</u>
	2f	2,00	48,10	49,08	-1,47
	3f	1,60	52,30	53,15	0,64
	4f	1,80	51,70	52,65	0,38
	5f	1,30	51,50	52,18	0,13
	7f	2,20	53,50	54,70	1,44
	9f	1,40	48,70	49,39	-1,31
	12f	2,30	51,80	53,02	0,57
	14f	1,80	50,30	51,22	-0,36
NUMBER OF RESULTS	-	9	9	9	-
OUTLIERS	-	-	1	1	-
AVERAGE	-	1,84	50,99	51,92	-
STD DEVIATION	-	-	1,83	1,93	-
MEDIAN	-	-	51,60	52,41	-



#### 4. CONCLUSION

Generally acceptable/comparable results were obtained. There has been a major improvement from the previous rounds. The variability on the yields at the lower densities is still high though and greater focus on this aspect is required.

The ash results are very good considering this is obtained from a washed fraction (sampling). (If the compounding contributions from sample preparation and testing errors are taken into account as well.)

The use of non-parametric statistics is still being investigated, in order to provide more meaningful interpretation of results.

#### COAL CONCEPTS: Terms and Conditions

##### Return of results:

Laboratories participate in proficiency testing programs on the understanding that they will be sharing their results and information **anonymously** with other laboratories performing the same analysis. No return of results compromises the spirit of the programs, and reports will not be sent to laboratories unless they return results. Payment in full is required from all laboratories enrolling whether they return results or not.

##### Errors in Participant Proficiency Testing Results:

Proficiency testing reports should reflect the level of accuracy that a regular testing client would receive.

If a participant finds an error in their proficiency testing results, they may notify us in writing and change their submission **PRIOR** to the due date for return.

Changes after this time will not be accepted.

Coal Concepts' reports results *as submitted* by participants.

On occasion, it seems as though participants have mixed up the samples or not processed the samples according to the instructions. Coal Concepts cannot make assumptions of this nature and change results 'to suit'. We also cannot compromise the integrity of the programs by suggesting to some participants that they should review their results prior to the due date. (This is unfair to other participants) It is the responsibility of the participants to check all aspects of the program, including sample identification, preparation, testing instructions, calculations and reporting of the results prior to results submission.

If samples are not in good condition on arrival to the participant laboratory, Coal Concepts must be notified in writing IMMEDIATELY, as often samples can be replaced in good time. Claims about samples received in bad condition will not be accepted after the report has been issued.

##### Late Enrolments and Late Results:

Late enrolment requests cannot always be accommodated, as sample manufacture must be scheduled well in advance to the shipping date of the program to allow all necessary quality assurance activities to be carried out.

Shipping of PT materials and evaluating test results from PTPs out of cycle with the mainstream programs is considerably time consuming and therefore costly.

In order not to disadvantage participants able to comply with time frames, Coal Concepts may charge a late fee in the following circumstances:

Requests that Coal concepts staff enters results on behalf of participants

Requests to record results after the due date

Requests for PTP participation that is out of cycle with the scheduled dates

##### Shipping fees and Customs clearance:

Costs incurred for shipping samples and clearance of same through customs are the responsibility of the participating laboratory unless otherwise indicated

##### Non-payment of fees:

Coal Concepts retains the right to withhold reports and/or test materials and services when invoices are outstanding.

##### Confidentiality of results:

All data and information received by Coal Concepts from its clients are considered confidential unless the client has given express permission to pass on information.

##### Definitions:

The dictionary definitions of "collusion" and "falsification" are as follows.

· *Collusion*: A secret agreement or cooperation for a fraudulent or deceitful purpose.

· *Falsification*: Deliberately changing something to be false. In proficiency testing terms, collusion is comparing data (and perhaps changing data) to fit in with a believed "correct" result. This is contrary to the spirit of proficiency testing programs, which are issued with the intention of providing an objective comparison of a laboratory's performance with others. Coal Concepts tries to minimise the occurrence of collusion by being aware that laboratories should be objective when they report their results, and should therefore not know the intended results at the time they are reporting to us.

Answers are not provided to clients until results have been submitted.

To prevent collusion and falsification our advice to clients is:

DON'T confer with others about PT samples or results.

DO accept the fact that everyone makes errors.

DON'T average the results or opinions of every person in the laboratory before selecting the answer to be submitted. Instead, use one of the answers AS SUBMITTED to you and take advantage of the Coal Concepts internal QA services and submit all answers generated by the technicians.

DO have confidence in your own results.

Proficiency Testing (PT) is a compulsory part of laboratory accreditation, but it is also an important tool for giving you confidence in your results. "Enhancing" your PT results with assistance from another participant cannot increase confidence in your laboratory's performance.

Coal concepts' testing staff are not told what the expected results are, nor what we are expecting.

We subject ALL results to analysis, even if they are different.

The staff have the right to check that the results we enter on their behalf are correctly transcribed.

Clients are always welcome to contact Coal Concepts to seek advice or information about collusion or falsification of data.

##### Policy for Participant Appeal of PT Performance Assessment:

If participants disagree with their performance assessment in a proficiency report, they should inform Coal Concepts in writing.

The response will include Coal Concepts interpretation of the outcome of the reassessment and an explanation of that outcome. (For example, explanation of a calculation, or the rationale for the outcome of the evaluation.)

If a mistake has been made by Coal Concepts, it will be dealt with via Coal Concepts' non-conformance system.

##### Liability

In no event shall a party's liability to the other party for direct damages exceed an amount equal to the value of the amount for the PT Programme, under that specific month