

**METER ERROR REPORT****FINAL**

Reconcile?	Y
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Safety Issue?	N
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Thesis Report No.	
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**1. EXECUTIVE SUMMARY**

SITE NAME	Maelor	
LDZ	WN (WWU)	
START DATE (actual)	15 <sup>th</sup> March 2021	
LAST GOOD DATE		
END DATE	27 <sup>th</sup> April 2023	
SIZE OF ERROR (No reconciliation required if under 0.1%)	0.156% under registration (20.54 GWh)	
ESTIMATE – Y/N?	N	
ROOT CAUSE	Incorrect K Factors used in the Omni flow computer	
ANALYSIS	Application of Meter Calibration Curve	
METER TYPE	USM	
AUTHOR	J Hill	
CHECKED BY	C Litster	
ACCEPTED BY NETWORK		
RECONCILIATION	Distribution	Transportation

## 2. BACKGROUND

Maelor Offtake has duty/standby ultrasonic meter streams, using a gas chromatograph for RD and CV determination and PTZ correction. Following the identification of the same issue during a metering audit at another site and subsequent checks of all WWU sites, it was identified that the k-factors had been entered in reverse order to the frequencies entered in the Omni. It has been found the error occurred during the reinstatement of meters 20041020 and 20041021 after their removal and re-calibration, and that the k-factors and associated frequencies from the calibration certificates were entered into the Omni flow computer in the reverse order. The error was corrected in the flow computer shortly after discovery of the issue on 27<sup>th</sup> April 2023.

## 3. ERROR QUANTIFICATION AND IMPACT

Using the meter calibration curve, the k-factors for the incorrect frequencies used were calculated. The applied and corrected k-factors were then used to determine the applied and corrected volume and hence percentage volume error for each incorrect frequency used.

The volumetric error was calculated as the difference between the recorded and corrected volumes.

The overall error is an under-registration of 0.156% (20.54 GWh)

It is recommended that the error be reconciled using the daily correction factors table in Appendix A.

## 4. CAUSES

Human error in reading and entering values from the calibration certificate to the Omni flow computer.

## 5. RECOMMENDATIONS AND LEARNING

Peer review of k-factor and frequency entries for existing and new USM/turbine installations.

## REFERENCES

Gemini data

HPMIS Database

Meter 20041020 calibration certificate

Meter 20041021 calibration certificate

**VERSION HISTORY**

<i>Version</i>	<i>Changes</i>	<i>Author</i>	<i>Date</i>
<i>0</i>	<i>First Issue</i>	<i>J Hill</i>	<i>26/06/2023</i>
<i>1</i>	<i>Second Issue</i>	<i>J Hill</i>	<i>22/11/2023</i>
<i>2</i>	<i>Third Issue (Incorrect MTRB density)</i>	<i>J Hill</i>	<i>06/02/2024</i>

**DISTRIBUTION**

*Wales & West Utilities*

**APPENDIX A – Daily Corrected Flows**

Gas Date	Daily Correction Factor
16/03/2021	1.001898
17/03/2021	1.001932
18/03/2021	1.001717
19/03/2021	1.001900
20/03/2021	1.001872
21/03/2021	1.001873
22/03/2021	1.001940
23/03/2021	1.001962
24/03/2021	1.001892
25/03/2021	1.001893
26/03/2021	1.001920
27/03/2021	1.001882
28/03/2021	1.001856
29/03/2021	1.001798
30/03/2021	1.001752
31/03/2021	1.001437

Gas Date	Daily Correction Factor
01/04/2021	1.001810
02/04/2021	1.001830
03/04/2021	1.001843
04/04/2021	1.001833
05/04/2021	1.001898
06/04/2021	1.001970
07/04/2021	1.001995
08/04/2021	1.001886
09/04/2021	1.001944
10/04/2021	1.001918
11/04/2021	1.001930
12/04/2021	1.001985
13/04/2021	1.001952
14/04/2021	1.001898
15/04/2021	1.001879
16/04/2021	1.001844
17/04/2021	1.001818
18/04/2021	1.001801
19/04/2021	1.001766
20/04/2021	1.001796
21/04/2021	1.001757
22/04/2021	1.001762
23/04/2021	1.001754
24/04/2021	1.001713
25/04/2021	1.001662
26/04/2021	1.001759
27/04/2021	1.001811
28/04/2021	1.001864
29/04/2021	1.001831
30/04/2021	1.001852

Gas Date	Daily Correction Factor
01/05/2021	1.001824
02/05/2021	1.001891
03/05/2021	1.001961
04/05/2021	1.001924
05/05/2021	1.001940
06/05/2021	1.001891
07/05/2021	1.001854
08/05/2021	1.001844
09/05/2021	1.001771
10/05/2021	1.001787
11/05/2021	1.001782
12/05/2021	1.001828
13/05/2021	1.001832
14/05/2021	1.001805
15/05/2021	1.001795
16/05/2021	1.001778
17/05/2021	1.001782
18/05/2021	1.001717
19/05/2021	1.001603
20/05/2021	1.001797
21/05/2021	1.001855
22/05/2021	1.001794
23/05/2021	1.001845
24/05/2021	1.001835
25/05/2021	1.001818
26/05/2021	1.001599
27/05/2021	1.001409
28/05/2021	1.001366
29/05/2021	1.000954
30/05/2021	1.000869
31/05/2021	1.000527

Gas Date	Daily Correction Factor
01/06/2021	1.000554
02/06/2021	1.000308
03/06/2021	1.000571
04/06/2021	1.000949
05/06/2021	1.000796
06/06/2021	1.001063
07/06/2021	1.000840
08/06/2021	1.000937
09/06/2021	1.000176
10/06/2021	1.000219
11/06/2021	1.000650
12/06/2021	1.000304
13/06/2021	1.000008
14/06/2021	1.000137
15/06/2021	1.000407
16/06/2021	1.000268
17/06/2021	1.000573
18/06/2021	1.000498
19/06/2021	1.000218
20/06/2021	1.000382
21/06/2021	1.000443
22/06/2021	1.000497
23/06/2021	1.000727
24/06/2021	1.000660
25/06/2021	1.001413
26/06/2021	1.000575
27/06/2021	1.000083
28/06/2021	1.000833
29/06/2021	1.000695
30/06/2021	1.000341

Gas Date	Daily Correction Factor
01/07/2021	1.000669
02/07/2021	1.000671
03/07/2021	1.000172
04/07/2021	1.000210
05/07/2021	1.000323
06/07/2021	1.000863
07/07/2021	1.000643
08/07/2021	1.000787
09/07/2021	1.001159
10/07/2021	1.000616
11/07/2021	1.001039
12/07/2021	1.001057
13/07/2021	1.000866
14/07/2021	1.000234
15/07/2021	1.000545
16/07/2021	1.000463
17/07/2021	1.000035
18/07/2021	0.999920
19/07/2021	1.000072
20/07/2021	1.000442
21/07/2021	1.000446
22/07/2021	0.999982
23/07/2021	1.000115
24/07/2021	0.999911
25/07/2021	1.000014
26/07/2021	1.000394
27/07/2021	1.000474
28/07/2021	1.000647
29/07/2021	1.000745
30/07/2021	1.000813
31/07/2021	1.000272

Gas Date	Daily Correction Factor
01/08/2021	1.000427
02/08/2021	1.000488
03/08/2021	1.000197
04/08/2021	0.999967
05/08/2021	1.000114
06/08/2021	1.000190
07/08/2021	1.000662
08/08/2021	1.000658
09/08/2021	1.000729
10/08/2021	1.000618
11/08/2021	1.000589
12/08/2021	1.000873
13/08/2021	1.000400
14/08/2021	1.000491
15/08/2021	1.000479
16/08/2021	1.000728
17/08/2021	1.000815
18/08/2021	1.000891
19/08/2021	1.000834
20/08/2021	1.000926
21/08/2021	1.000852
22/08/2021	1.000688
23/08/2021	1.000651
24/08/2021	1.000555
25/08/2021	1.000459
26/08/2021	1.000809
27/08/2021	1.000909
28/08/2021	1.000362
29/08/2021	1.000219
30/08/2021	1.000878
31/08/2021	1.001229

Gas Date	Daily Correction Factor
01/09/2021	1.001326
02/09/2021	1.001167
03/09/2021	1.001068
04/09/2021	1.000402
05/09/2021	1.000441
06/09/2021	1.000646
07/09/2021	1.001240
08/09/2021	1.001340
09/09/2021	1.001117
10/09/2021	1.001237
11/09/2021	1.001207
12/09/2021	1.001413
13/09/2021	1.001692
14/09/2021	1.001753
15/09/2021	1.001590
16/09/2021	1.001306
17/09/2021	1.001303
18/09/2021	1.000921
19/09/2021	1.001185
20/09/2021	1.001267
21/09/2021	1.001592
22/09/2021	1.001565
23/09/2021	1.001592
24/09/2021	1.000934
25/09/2021	1.001400
26/09/2021	1.001452
27/09/2021	1.001325
28/09/2021	1.001765
29/09/2021	1.001795
30/09/2021	1.001804

Gas Date	Daily Correction Factor
01/10/2021	1.001801
02/10/2021	1.001845
03/10/2021	1.001831
04/10/2021	1.001846
05/10/2021	1.001851
06/10/2021	1.001825
07/10/2021	1.001691
08/10/2021	1.001523
09/10/2021	1.000915
10/10/2021	1.000798
11/10/2021	1.001481
12/10/2021	1.001622
13/10/2021	1.001690
14/10/2021	1.001732
15/10/2021	1.001595
16/10/2021	1.001756
17/10/2021	1.001512
18/10/2021	1.001759
19/10/2021	1.001315
20/10/2021	1.001769
21/10/2021	1.001828
22/10/2021	1.001826
23/10/2021	1.001789
24/10/2021	1.001786
25/10/2021	1.001768
26/10/2021	1.001697
27/10/2021	1.001701
28/10/2021	1.001762
29/10/2021	1.001659
30/10/2021	1.001766
31/10/2021	1.001776

Gas Date	Daily Correction Factor
01/11/2021	1.001882
02/11/2021	1.001897
03/11/2021	1.001953
04/11/2021	1.001911
05/11/2021	1.001894
06/11/2021	1.001805
07/11/2021	1.001850
08/11/2021	1.001904
09/11/2021	1.001795
10/11/2021	1.001853
11/11/2021	1.001822
12/11/2021	1.001836
13/11/2021	1.001828
14/11/2021	1.001818
15/11/2021	1.001871
16/11/2021	1.001835
17/11/2021	1.001864
18/11/2021	1.001878
19/11/2021	1.001744
20/11/2021	1.001832
21/11/2021	1.001900
22/11/2021	1.001967
23/11/2021	1.001978
24/11/2021	1.001971
25/11/2021	1.002000
26/11/2021	1.002031
27/11/2021	1.001983
28/11/2021	1.002049
29/11/2021	1.001937
30/11/2021	1.001959

Gas Date	Daily Correction Factor
01/12/2021	1.002011
02/12/2021	1.002010
03/12/2021	1.002022
04/12/2021	1.002002
05/12/2021	1.002020
06/12/2021	1.001950
07/12/2021	1.001911
08/12/2021	1.001959
09/12/2021	1.002046
10/12/2021	1.002011
11/12/2021	1.001960
12/12/2021	1.001846
13/12/2021	1.001966
14/12/2021	1.001948
15/12/2021	1.001915
16/12/2021	1.001934
17/12/2021	1.001940
18/12/2021	1.001931
19/12/2021	1.001989
20/12/2021	1.002000
21/12/2021	1.002037
22/12/2021	1.001986
23/12/2021	1.001939
24/12/2021	1.001909
25/12/2021	1.001918
26/12/2021	1.001955
27/12/2021	1.001877
28/12/2021	1.001841
29/12/2021	1.001839
30/12/2021	1.001812
31/12/2021	1.001676

Gas Date	Daily Correction Factor
01/01/2022	1.001745
02/01/2022	1.001816
03/01/2022	1.001908
04/01/2022	1.002005
05/01/2022	1.002004
06/01/2022	1.001955
07/01/2022	1.002025
08/01/2022	1.002029
09/01/2022	1.001979
10/01/2022	1.001979
11/01/2022	1.002006
12/01/2022	1.002024
13/01/2022	1.002048
14/01/2022	1.002055
15/01/2022	1.002009
16/01/2022	1.001998
17/01/2022	1.002009
18/01/2022	1.001910
19/01/2022	1.001959
20/01/2022	1.002014
21/01/2022	1.002022
22/01/2022	1.001974
23/01/2022	1.001947
24/01/2022	1.001984
25/01/2022	1.001988
26/01/2022	1.001993
27/01/2022	1.001924
28/01/2022	1.001989
29/01/2022	1.001906
30/01/2022	1.001952
31/01/2022	1.002006

Gas Date	Daily Correction Factor
01/02/2022	1.001923
02/02/2022	1.001889
03/02/2022	1.001905
04/02/2022	1.001970
05/02/2022	1.001975
06/02/2022	1.001958
07/02/2022	1.001987
08/02/2022	1.001884
09/02/2022	1.001922
10/02/2022	1.001954
11/02/2022	1.001976
12/02/2022	1.001960
13/02/2022	1.001905
14/02/2022	1.001944
15/02/2022	1.001919
16/02/2022	1.001890
17/02/2022	1.001960
18/02/2022	1.002013
19/02/2022	1.002004
20/02/2022	1.002022
21/02/2022	1.002016
22/02/2022	1.001929
23/02/2022	1.001923
24/02/2022	1.001993
25/02/2022	1.001971
26/02/2022	1.001914
27/02/2022	1.001898
28/02/2022	1.001909

Gas Date	Daily Correction Factor
01/03/2022	1.001931
02/03/2022	1.001959
03/03/2022	1.001941
04/03/2022	1.001909
05/03/2022	1.001889
06/03/2022	1.001883
07/03/2022	1.001980
08/03/2022	1.001934
09/03/2022	1.001880
10/03/2022	1.001870
11/03/2022	1.001868
12/03/2022	1.001822
13/03/2022	1.001885
14/03/2022	1.001887
15/03/2022	1.001851
16/03/2022	1.001861
17/03/2022	1.001858
18/03/2022	1.001736
19/03/2022	1.001758
20/03/2022	1.001823
21/03/2022	1.001858
22/03/2022	1.001584
23/03/2022	1.001676
24/03/2022	1.001739
25/03/2022	1.001584
26/03/2022	1.001551
27/03/2022	1.001472
28/03/2022	1.001581
29/03/2022	1.001720
30/03/2022	1.001869
31/03/2022	1.001939

Gas Date	Daily Correction Factor
01/04/2022	1.001873
02/04/2022	1.001841
03/04/2022	1.001835
04/04/2022	1.001814
05/04/2022	1.001780
06/04/2022	1.001803
07/04/2022	1.001864
08/04/2022	1.001814
09/04/2022	1.001817
10/04/2022	1.001787
11/04/2022	1.001774
12/04/2022	1.001789
13/04/2022	1.001650
14/04/2022	1.001727
15/04/2022	1.001599
16/04/2022	1.001016
17/04/2022	1.001311
18/04/2022	1.001726
19/04/2022	1.001596
20/04/2022	1.001163
21/04/2022	1.000981
22/04/2022	1.001327
23/04/2022	1.001512
24/04/2022	1.001449
25/04/2022	1.001576
26/04/2022	1.001440
27/04/2022	1.001545
28/04/2022	1.001750
29/04/2022	1.001698
30/04/2022	1.001176

Gas Date	Daily Correction Factor
01/05/2022	1.001688
02/05/2022	1.001703
03/05/2022	1.001653
04/05/2022	1.001510
05/05/2022	1.001215
06/05/2022	1.000942
07/05/2022	1.001235
08/05/2022	1.000877
09/05/2022	1.001178
10/05/2022	1.001404
11/05/2022	1.001172
12/05/2022	1.001206
13/05/2022	1.001251
14/05/2022	1.000349
15/05/2022	1.000336
16/05/2022	1.000832
17/05/2022	1.000683
18/05/2022	1.000706
19/05/2022	1.000944
20/05/2022	1.000754
21/05/2022	1.001077
22/05/2022	1.000719
23/05/2022	1.001025
24/05/2022	1.000833
25/05/2022	1.000680
26/05/2022	1.000822
27/05/2022	1.000631
28/05/2022	1.000834
29/05/2022	1.000696
30/05/2022	1.001072
31/05/2022	1.001077



Gas Date	Daily Correction Factor
01/06/2022	1.000674
02/06/2022	1.000629
03/06/2022	1.000331
04/06/2022	1.000152
05/06/2022	1.001118
06/06/2022	1.000757
07/06/2022	1.000078
08/06/2022	1.000172
09/06/2022	1.000376
10/06/2022	1.000231
11/06/2022	1.000173
12/06/2022	1.000387
13/06/2022	1.000819
14/06/2022	1.000299
15/06/2022	1.000568
16/06/2022	1.000221
17/06/2022	1.000018
18/06/2022	1.000815
19/06/2022	1.000363
20/06/2022	1.000304
21/06/2022	0.999995
22/06/2022	0.999876
23/06/2022	0.999932
24/06/2022	1.000518
25/06/2022	1.000003
26/06/2022	0.999991
27/06/2022	1.000225
28/06/2022	1.000049
29/06/2022	1.000403
30/06/2022	1.000789

Gas Date	Daily Correction Factor
01/07/2022	1.000330
02/07/2022	1.000217
03/07/2022	1.000201
04/07/2022	1.000055
05/07/2022	1.000096
06/07/2022	1.000423
07/07/2022	0.999934
08/07/2022	1.000328
09/07/2022	1.000098
10/07/2022	0.999800
11/07/2022	1.000039
12/07/2022	1.000027
13/07/2022	0.999988
14/07/2022	1.000058
15/07/2022	0.999962
16/07/2022	0.999789
17/07/2022	0.999645
18/07/2022	0.999830
19/07/2022	1.000037
20/07/2022	0.999833
21/07/2022	0.999912
22/07/2022	0.999952
23/07/2022	0.999836
24/07/2022	0.999677
25/07/2022	0.999725
26/07/2022	1.000338
27/07/2022	1.000248
28/07/2022	1.000174
29/07/2022	1.000195
30/07/2022	1.000100
31/07/2022	0.999988

Gas Date	Daily Correction Factor
01/08/2022	0.999720
02/08/2022	0.999749
03/08/2022	0.999838
04/08/2022	0.999996
05/08/2022	0.999926
06/08/2022	0.999801
07/08/2022	0.999692
08/08/2022	0.999659
09/08/2022	0.999777
10/08/2022	0.999743
11/08/2022	1.000645
12/08/2022	1.000607
13/08/2022	0.999642
14/08/2022	0.999802
15/08/2022	1.000252
16/08/2022	0.999759
17/08/2022	1.000133
18/08/2022	0.999919
19/08/2022	0.999749
20/08/2022	0.999703
21/08/2022	0.999840
22/08/2022	0.999779
23/08/2022	1.000447
24/08/2022	1.000593
25/08/2022	1.000443
26/08/2022	1.000203
27/08/2022	0.999834
28/08/2022	0.999761
29/08/2022	0.999941
30/08/2022	0.999849
31/08/2022	0.999900

Gas Date	Daily Correction Factor
01/09/2022	1.000123
02/09/2022	1.000159
03/09/2022	0.999821
04/09/2022	1.000049
05/09/2022	0.999962
06/09/2022	1.000020
07/09/2022	0.999997
08/09/2022	0.999940
09/09/2022	0.999793
10/09/2022	0.999837
11/09/2022	0.999856
12/09/2022	1.000046
13/09/2022	1.000341
14/09/2022	1.000462
15/09/2022	1.000173
16/09/2022	1.000215
17/09/2022	1.000061
18/09/2022	1.000224
19/09/2022	0.999939
20/09/2022	1.000244
21/09/2022	1.000361
22/09/2022	1.000634
23/09/2022	1.000453
24/09/2022	1.000200
25/09/2022	1.000953
26/09/2022	1.000688
27/09/2022	1.001311
28/09/2022	1.001441
29/09/2022	1.001246
30/09/2022	1.001607

Gas Date	Daily Correction Factor
01/10/2022	1.000933
02/10/2022	1.000605
03/10/2022	1.001346
04/10/2022	1.000685
05/10/2022	1.001227
06/10/2022	1.000742
07/10/2022	1.001061
08/10/2022	1.000942
09/10/2022	1.001325
10/10/2022	1.001427
11/10/2022	1.001321
12/10/2022	1.001136
13/10/2022	1.001300
14/10/2022	1.000990
15/10/2022	1.001328
16/10/2022	1.001475
17/10/2022	1.001161
18/10/2022	1.000993
19/10/2022	1.001050
20/10/2022	1.001193
21/10/2022	1.001150
22/10/2022	1.000493
23/10/2022	1.000736
24/10/2022	1.000827
25/10/2022	1.000725
26/10/2022	1.000652
27/10/2022	1.000828
28/10/2022	1.000683
29/10/2022	1.000953
30/10/2022	1.000743
31/10/2022	1.001100

Gas Date	Daily Correction Factor
01/11/2022	1.001475
02/11/2022	1.001723
03/11/2022	1.001789
04/11/2022	1.001774
05/11/2022	1.001775
06/11/2022	1.001763
07/11/2022	1.001768
08/11/2022	1.001741
09/11/2022	1.001759
10/11/2022	1.001747
11/11/2022	1.001688
12/11/2022	1.001339
13/11/2022	1.001514
14/11/2022	1.001680
15/11/2022	1.001811
16/11/2022	1.001808
17/11/2022	1.001846
18/11/2022	1.001800
19/11/2022	1.001782
20/11/2022	1.001790
21/11/2022	1.001904
22/11/2022	1.001825
23/11/2022	1.001842
24/11/2022	1.001861
25/11/2022	1.001826
26/11/2022	1.001826
27/11/2022	1.001801
28/11/2022	1.001889
29/11/2022	1.001936
30/11/2022	1.001937

Gas Date	Daily Correction Factor
01/12/2022	1.001936
02/12/2022	1.001927
03/12/2022	1.001908
04/12/2022	1.001909
05/12/2022	1.001898
06/12/2022	1.001970
07/12/2022	1.001987
08/12/2022	1.001974
09/12/2022	1.002016
10/12/2022	1.001972
11/12/2022	1.001985
12/12/2022	1.001879
13/12/2022	1.002033
14/12/2022	1.001973
15/12/2022	1.001950
16/12/2022	1.002011
17/12/2022	1.001942
18/12/2022	1.001971
19/12/2022	1.001852
20/12/2022	1.001849
21/12/2022	1.001873
22/12/2022	1.001883
23/12/2022	1.001832
24/12/2022	1.001810
25/12/2022	1.001805
26/12/2022	1.001871
27/12/2022	1.001861
28/12/2022	1.001849
29/12/2022	1.001839
30/12/2022	1.001843
31/12/2022	1.001843

Gas Date	Daily Correction Factor
01/01/2023	1.001829
02/01/2023	1.001864
03/01/2023	1.001892
04/01/2023	1.001832
05/01/2023	1.001796
06/01/2023	1.001777
07/01/2023	1.001815
08/01/2023	1.001869
09/01/2023	1.001919
10/01/2023	1.001913
11/01/2023	1.001896
12/01/2023	1.001878
13/01/2023	1.001888
14/01/2023	1.001879
15/01/2023	1.001934
16/01/2023	1.001946
17/01/2023	1.001980
18/01/2023	1.001936
19/01/2023	1.001956
20/01/2023	1.001928
21/01/2023	1.001962
22/01/2023	1.001943
23/01/2023	1.001950
24/01/2023	1.001946
25/01/2023	1.001905
26/01/2023	1.001915
27/01/2023	1.001918
28/01/2023	1.001870
29/01/2023	1.001874
30/01/2023	1.001895
31/01/2023	1.001870

Gas Date	Daily Correction Factor
01/02/2023	1.001903
02/02/2023	1.001843
03/02/2023	1.001824
04/02/2023	1.001828
05/02/2023	1.001861
06/02/2023	1.001913
07/02/2023	1.001909
08/02/2023	1.001899
09/02/2023	1.001873
10/02/2023	1.001879
11/02/2023	1.001802
12/02/2023	1.001837
13/02/2023	1.001847
14/02/2023	1.001865
15/02/2023	1.001881
16/02/2023	1.001791
17/02/2023	1.001768
18/02/2023	1.001778
19/02/2023	1.001775
20/02/2023	1.001796
21/02/2023	1.001778
22/02/2023	1.001845
23/02/2023	1.001831
24/02/2023	1.001829
25/02/2023	1.001872
26/02/2023	1.001836
27/02/2023	1.001879
28/02/2023	1.001875

Gas Date	Daily Correction Factor
01/03/2023	1.001908
02/03/2023	1.001897
03/03/2023	1.001978
04/03/2023	1.001912
05/03/2023	1.001930
06/03/2023	1.001914
07/03/2023	1.001889
08/03/2023	1.001973
09/03/2023	1.002014
10/03/2023	1.001957
11/03/2023	1.001930
12/03/2023	1.001855
13/03/2023	1.001850
14/03/2023	1.001905
15/03/2023	1.001929
16/03/2023	1.001865
17/03/2023	1.001791
18/03/2023	1.001776
19/03/2023	1.001799
20/03/2023	1.001817
21/03/2023	1.001822
22/03/2023	1.001816
23/03/2023	1.001829
24/03/2023	1.001825
25/03/2023	1.001791
26/03/2023	1.001812
27/03/2023	1.001820
28/03/2023	1.001839
29/03/2023	1.001801
30/03/2023	1.001782
31/03/2023	1.001788

Gas Date	Daily Correction Factor
01/04/2023	1.001537
02/04/2023	1.001733
03/04/2023	1.001776
04/04/2023	1.001750
05/04/2023	1.001780
06/04/2023	1.001596
07/04/2023	1.001559
08/04/2023	1.001357
09/04/2023	1.001488
10/04/2023	1.001763
11/04/2023	1.001834
12/04/2023	1.001895
13/04/2023	1.001820
14/04/2023	1.001794
15/04/2023	1.001456
16/04/2023	1.001625
17/04/2023	1.001551
18/04/2023	1.001460
19/04/2023	1.001646
20/04/2023	1.001574
21/04/2023	1.001617
22/04/2023	1.001655
23/04/2023	1.001628
24/04/2023	1.001744
25/04/2023	1.001607
26/04/2023	1.001618
27/04/2023	1.001681

