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**CHARTWORK SQA ANSWERS.**

**March 2005**

Q1 1900hrs 51-26.7N 007-47.6W Co to steer 310 speed reqd 10.0kts

Q2 HT of Tide 2230hrs 1.6m, UKC at 1330hrs is 0.8m

Q4. 511' 270 and 297

**June 2005**

0400EP 55-31.8N 014-39.2W Tidal Stream 243 x 1.3kts

Q2. 7.20, 7.10 ii) 6.5 mean neap range

Q4. 252 T x 180' 13h50m

Q5. G/E 1 high

**October 2005**

Q1 2130 51-07.2N 004-30.6W Gyro error 2 low, Co to steer 044G, ETA 0006hrs, beam 136t

Q2 Ht of Tide 4.2m on a falling tide

Q4. 236(T) x 4644', eta 18<sup>th</sup> march-2142

Q5. Compass error 0.1 west, deviation 0.9 degrees west

**Nov 05**

Q1 2300 51-26.3N 004-26.2W Comp Co 124, 1hrs notice given at 2357hrs

Q2 minimum UKC is 3.9m time of min UKC is at LW time of 1001 on 25<sup>th</sup> Feb. Predicted Max tidal range is 5.9m

Q4. 270 x 144' 296 x 248' 000 x 100'

**March 2006**

Q1 1200DR 51-43.6N 006-58.8W EP 51-47.2N 006-49.4W Tide 068t x 1.8kts

Q4. 125.2' eta 11<sup>th</sup> July 1436

Q5. Gyro error 1 high

**July 06**

Q1 0800 51-19.2N 015-04.4E Comp Co 013, steaming speed 10.7kts

Q2 earliest time is 1614hrs on 8<sup>th</sup> March

Q4. 087 x 4937' 10<sup>th</sup> November 17h 54m

### **October 06**

Q1 0000 50-28.1N 002-05.1W, 0100EP 50-33.9N 001-46.4W rel brg 270

Q2 vessel can cross shoal between 0418-0914 ST on 20<sup>th</sup> March

Q4. 215 x 586' 20<sup>th</sup> 07h 18m

### **November 06**

Q1 2100 50-08.6N 002-09.8W Compass co 269 ETA at end of TSS 2301hrs

Q4. 254 x 2107' 3<sup>rd</sup>, 04h 57m

Q5. Az 114 gyro error 1 high

### **March 07**

Q1 1300 51-27.0N 004-43.5W Compass co 168 steaming speed 8.5kts

Q2 HW 26<sup>th</sup> Feb 1658hrs, height 6.9m min UKC of 1,1m occurs at 1340hrs 1<sup>st</sup> March

Q4. 259 x 5090' 291.3 hrs, 21<sup>st</sup> 08h 20m

### **July 07**

Q1 0715 36-35.7S 174-58.1E time of beam brg 0730 beam brg 265

Q2 earliest time v/l can enter is 2100hrs on 5<sup>th</sup> August

Q4. 090 x 197.3' eta 13<sup>th</sup> July 18h 40m

Q5. Gyro error 2 low

### **October 07**

Q1 0930dr 51-40.2N 007-15.9W 0930EP 51-39.8N 007-13.2W 1100EP 51-37.6N 007-15.8W

Q2 Height of Tide 1400ST on 13<sup>th</sup> April is 2.6m

Q4. 311 x 294' 22<sup>nd</sup> 10h 09m

### **November 07**

Q1 1400 36-46.4N 175-18.8E Gyro error 2low, gyro co 318, ETA waypoint 1706 9<sup>th</sup> Jan

Q2 Earliest time vessel can cross shoal is 0330hrs GMT on 30<sup>th</sup> Jan

Q4. 321 x 584' 16.4 kts

Q5. Deviation 1 west

### **March 08**

Q1 1400DR 41-43.3S 174-53.4E 1400 EP 41-42.1S 174-49.9E set 327 x 1.3kts (3.2dr) charted predicted tidal stream 353t x 0.5kts

Q2 Time and Hts of Sec port LW 1159 0.1m HW 1654 1.0m earliest time HW (1654) Height of tide required is 1.3m (cannot calculate time, outside 5/7hr)

Q4. 270 x 15 fl 180 x 215 w 16.26k f 23.32 w

Q5. Azimuth 070.8 gyro error 1 low

### **July 08**

Q1 1030 36-24.0S 175-18.7E deviation 5.5W Gr speed 13.53kts, Req'd | Comp Co 210, Req'd spd 11.6kts

Time of SBE/EOP is 11.38kts

Q2 Height of bridge above the land is 34.8m

Q4. 130 x 359.3' 270 x 26.4' (1.1kts) Q5- 1 degree Low

### **October 08**

Q1 Compass Co 263, time to a/c 2135hrs, tidal stream 252T x 2kts

Q2 Anticipated clearance 2.5m, earliest time 1554hrs, latest time 2059hrs ETA at power cables 1600hrs

Q4. 066 x 1721' 4<sup>th</sup> 01h 14m

### **November 08**

Q1 2110 51-48.2N 006-42.2W Compass Co 317, beam brg 047C predicted tidal stream 1330hrs

Q4. 040 x 4628' 10d 16h 03m 20<sup>th</sup> June 11h 33m ( daylight saving?)

Q5. Amplitude 271 gyro error 2 low, mag err 15 east deviation 1 west

### **March 09**

Q1 1030 50-25.6N 006-28.8W, Deviation 2 East, Compass Co to steer 085

Q2 14<sup>th</sup> July LW 2240zt ht 1.0 Hw 0440zt 6.5

15<sup>th</sup> July LW 2318zt ht 1.0 HW 0518zt 6.5

16<sup>th</sup> July LW 2354 ht 1.0 HW 0553 6.5

Q4. 5662' 11d 02h 55m 11<sup>th</sup> April 13h 55m

### **July 09**

Q1 CMG 026t, SMG 14.2kts, set 045t x 1.8kts, Gyro co 013, speed reqd 11.1kts, call time 1906

Q4. 208 x 295.6 18.8kts

**October 09**

Q1 0810DR 50-27.6N 000-24.6E, 1300EP 50-30.0N 000-37.2E, Compass Co 077

Q2 Clearance under bridge 1.8m, earliest time 0425hrs, latest time 1218hrs

Q4. 328 x 552' 22.1kts 000 x 22 (0.88kts)

**December 09**

Q1 0430 40-54.8S 174-23.0E CPA 2.8 to stbd, Beam Brg 200c, Comp co 154

Q2 Actual Ht of Tide 0.2m higher than predicted

Q4. 3846' 17.4 kts

### **March 10**

Q1 2330 50-43.4N 000-50.2E 2230 50-48.8N 001-02.8E time of transit 0039, brg 313.5C

Q4. 510.6' 10<sup>th</sup> Dec 19h 51m

Q5 amplitude 267.5 gyro error 1.5 low deviation 9.5 east

### **July 2010**

Q1 0630 40-17.7S 174-18.4E Gyro Co 168 Set 325 x 1.2kts (2.6) CPA 0917, 2.7'

Q2 Maximum Ht of Tide req'd 2.0 or 2.1, latest time 0522hrs

Q5. Deviation 2 West

### **October 10**

Q1 51-36.5N 004-50.5W Deviation 3<sup>o</sup> East Compass Co 162.5, est st time 2hr 43m, light will be first seen at luminous range 13.7'

Q2 2130 UKC is 12.2m, UKC at LW is 9.2m

Q4. 6233' 12<sup>th</sup> October 01-15

### **December 10**

Q1 Compass Co 044.5 req'd speed 9.8kts, set 080t x 1.8kts 50-43.4N, 000-50.2E

Q2 23<sup>rd</sup> Feb, LW 0153 0.6m HW 0815 1.4m, LW 1435 0.7m, HW 2039 1.2m

Q4. 4386' 6<sup>th</sup> May 08h 38m

### **February 2011**

Q1 Gyro 030, actual set 250t x 3.7kts. CMG 020 x 7.9 kts

Q2 earliest time 1902hrs 13<sup>th</sup> feb, latest time 0159hrs 14<sup>th</sup> feb

Q4. 111 x 110.6 16<sup>th</sup> May 17h 37m 16<sup>th</sup> May 15h 47m

### **March 2011**

Q1 35-29.4S 175-32.5E 293G 1937hrs 36-36.4S 174-59.4E 236G 9.7 kts

Q2 2040hrs

Q4. 256 x 6971' 17<sup>th</sup> Aug 00h 46m Q5. 0.1 West

Q5. Deviation 5.1E, card 7W

### **June 2011**

Q1 50-00N 002-49.2W, 50-05.4N 003-39.0W, 50-05.5N 003-29.4W

Q2 3.1m clearance

Q4. 299.2' 35h 00m Q5 9.3 East

Q5. Deviation 0.1 west

**July 2011**

Q1 119 x 4.8' 6 west 194 compass 2355hrs

Q2 echo sounder 4.6m

Q4. 097 x 5866 26<sup>th</sup> March 06h 44m

**October 2011.**

Q1. 49-56.0N 002-25.0W 49-57.5N 002-19.6W 032G x 11.4kts

Q2. 11.4m

Q4. 199 x 170.4 15.04kts

**December 2011.**

Q1. 51-44.6N 007-56.5W 066 x 9.2 (7.4kts) 0525hrs 330C 330T-330C

Q2. 1743

Q4. 8 days 01hr 2196.5'

Q5. 9.1 east, 2 hours

**February 2012**

Q1. 1430- 50 19.6N 000 02.6E 1600DR 50 29.7N 000 36.5E EP 50 29.4N 000 33.7E

1700 EP 50 29.0N 000 31.6E 083 true

Q2 0008-0605-1235-1841 3.1, 0.4, 3.4, 0.55

Q4. 307 true x 430.5 ETA 1<sup>st</sup> may 1749

**March 2012**

Q1. 51-28.8N 004-02.2W, Deviation 3 East, 238.4 (C) , ETA 1816, 346 relative

Q2. 0336, 16<sup>th</sup> March

Q4. 303.8(T) x 503.3, 20.97kts, set 270(T) x 1.22kts

### **May 2012**

Q1. 50-43.1N 000-53.6E, DR 50-36.5N 000-29.4E, EP 50-38.2N 000-32.6E, 040 x 2.7(1.1kts)

Q2. 1529hrs. Q4. 256.2deg x 586.9, 23.5 kts, set 090 x 38' 1.52kts

### **July 2012**

Q1. 51-23.0N 007-50.4W, 51-26.0N 007-53.8W, 357 Co

Q2. 4.8m, 2.34m at 0903hrs

Q4. 053.9 x 419.2' 18.23kts, set 090 x 1.08kts

Q5. Dev 7.1deg West

### **October 2012**

Q1. 41-51.5 S 174-17.2 E 031.4 Co 301.4deg Beam, 11.4kts

Q2. Not safe, 1405hrs

Q4. 2990' 13.11kts Q5. 1.9deg High

### **November 2012**

Q1. 36-25.2 S 175-26.2E 2239hrs, 1.6', 227.7 Co, 0035hrs

Q2. 1927hrs, Q4. 057.7deg, x 2453', 178hrs, 31<sup>st</sup> 2100hrs

Q5. 1.4 deg Low

### **February 2013**

Q1. a) 40-51.5S, 174-23.2E, b) 41-01.1S, 174-28.6E, c) 090 Rel

Q2. 0440, 1032, 1721, 2.6m, 0.2m, 4.85m Q4. 076T x 6132.9', 15<sup>th</sup> August, 1305hrs

### **March 2013**

Q1. A. 51-20.2N 003-58.6W G/E 1 low b. 259(G) c. fix 51-18.0N 004-24.2W DR 51-17.0N 004-27.1W

Actual SRD 056 x 2.2 drift, 1.8 rate

Q2. Safe to cross, HOTY at 0245 = 2.9m Q3 c 233 x 1.3kts neap tide

Q4. 068 x 200', 270 x 155' 16.3kts and 12.6kts

### **May 2013**

Q1. 236 x 1.8kts, 0836hrs, 060.8(c) Q4. 309.5' 24hrs, 22mins. Q5. 0858ut, 31<sup>st</sup> Dec, 242.5(T), 1/2low G/E, 17.5 East C/E, Dev 4.5 West



## July 2013

1. DR 51-50.1N 007-43.6W EP 51-45.7N 007-52.8W Q2. 1.0 +0.6m, and 0.9m Q3c 21.0  
4. 096 x 430.6' ETA 0621 24<sup>th</sup>

## October 2013

1. 36-43.5 S 175-07.4 E Gyro error 2 low, steer 020 gyro, range 13.2, slack tide  
Q3d-no no no no yes Q4. 1,813.4 1600hrs 8<sup>th</sup> Jan  
Q5 gyro 2 low, c/error 5west, deviation 10 west

## November 2013

1. 2140hrs 51-15.6 N 004-41.2 W 2200hrs 51-19.8 N 004-35.4 W 049.2 Co beam 319.2
2. 0.6m at 1635hrs 7<sup>th</sup> Jan. Q4. 1,451.8 1900hrs 9<sup>th</sup> July

## February 2014

1. 51-27.8N 007-07.9W 016 (c) 13.0kts, 026(c) beam, 12.3kts 2. 5.4m
4. 6,437m, 14d-13h-42m, 7<sup>th</sup> Sept 2300hrs. 5. 074.6(t) 0.6 low, 6.6 east

## March 2014

1. 264.5 C 302 x 1.0(0.9), 1.6', 0024hrs, 2. 8.7m, 3.2m, 0228hrs 3. 000 T x 119', 238.3 T x  
125.6', 21.9kts, 20.8kts

## June 2014

1. 41-14.9S, 174-21.4E, 2deg high, neaps 051 x 1.0kt, 142deg Gyro, 2158 ETA
2. 2.3m, 0945hrs and 1743hrs, 4. 126.7deg x 435.1m, eta 2300hrs 1<sup>st</sup> May.

## July 2014

1. 2 high, 50-41.4N, 002-52.2W, 281 x 0.9kt, 215gyro, t/s C and B 2. 2.5m graph, 2.0 Echo So.

## October 2014

1. 50-24N 003-25 003-24.9W, Dev 7E expected Dev 6-50E, 084T, 282 x 1.6 (3.2)
2. 2.8m, 1338, 1958. 4. 4129' 12<sup>th</sup> Oct 0845

## November 2014

1. 50-22.1N 000-8.6E DR 50-29.0N 000-56.8E EP 50-30.5N 000-55.2E
2. 14<sup>th</sup> 0940 5.4m, 2336 1.0m, 15<sup>th</sup> 1018 5.4m, 16<sup>th</sup> 0418 1.0m, 4. 5648' 0000hrs 1<sup>st</sup> July

## February 2015

1. 51-55.0N 007-34.0W, 060 x 15kts, 064.7C, 10.7kts, 11.8kts smg
2. 2.1mhot, 2052 10<sup>th</sup> LW 0306 11<sup>th</sup> HW, 2.8m and 1.2m, 0016hrs 11<sup>th</sup> May
- 4 306T 419.2' 16.8kts set 270 x 0.76kts
5. 130.2t, 0.8deg High

## March 2015

1. 50-21.6N 001-43.8W 019.8C, 2340hrs 2. 0829hrs,  
4 328t x 549.5' set 000t x 0.92kts, 5. Dev 2.1degW, from card 6deg E

## June 2015

Q1. 236.2 (C) 097 x 3.1kts 0612 hrs 5.2' Q2 hot 3.9m Q4 087t x 1043 1300hrs 2<sup>nd</sup> August.

Q5. 1.6 low Gyro error

## July 2015

1. 2deg Low, 51-37.6N 008-19.8W 51-43.6N 007-59.6W SRD 216 x 1.3 x 0.9 047G x 12.5kts
2. 2038hrs 4. 270 x 206.6 eta 1838hrs 5. 1932hrs 0.4Gyro error High

## October 2015

1. 50-35.5N 00-43.4E 1800EP 50-33.7N 00-34.8E 347.5(C)
2. 1130hrs 4.6m 1914hrs 0.6m Q3. Only track D ok Q4. 050t x 5,719' 2300hrs 7<sup>th</sup> Feb

## December 2015

1. 1140 51-29.7N 04-09.0W 1020 51-27.2N 04-29.6W 1218hrs at 1.2' beam 165C
2. Range 1.0m Duration 05-57m 4. 182.5' 13h 34m

