# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD11 | 75.91 | 1 | Line 5 Straights of Mackinac - West Loop | -23.99 | Master GW# 11 |
| GWD21 | 96.70 | 1 | Line 5 Straights of Mackinac - West Loop | -2.63 | Master GW# 21 |
| GWD31 | 101.95 | 1 | Line 5 Straights of Mackinac - West Loop | 2.66 | Master GW# 31 |
| GWD41 | 102.85 | 1 | Line 5 Straights of Mackinac - West Loop | 3.57 | Master GW# 41 |
| GWD51 | 105.16 | 1 | Line 5 Straights of Mackinac - West Loop | 5.88 | Master GW# 51 |
| GWD61 | 108.11 | 1 | Line 5 Straights of Mackinac - West Loop | 9.07 | Master GW# 61 |
| GWD71 | 121.65 | 1 | Line 5 Straights of Mackinac - West Loop | 23.09 | Master GW# 71 |
| GWD81 | 126.38 | 1 | Line 5 Straights of Mackinac - West Loop | 27.84 | Master GW# 81 |
| GWD91 | 141.31 | 1 | Line 5 Straights of Mackinac - West Loop | 41.88 | Master GW# 91 |
| GWD101 | 155.75 | 1 | Line 5 Straights of Mackinac - West Loop | 56.14 | Master GW# 101 |
| GWD111 | 162.82 | 1 | Line 5 Straights of Mackinac - West Loop | 63.03 | Master GW# 111 |
| GWD121 | 177.54 | 1 | Line 5 Straights of Mackinac - West Loop | 77.62 | Master GW# 121 |
| GWD125 | 180.87 | 1 | Line 5 Straights of Mackinac - West Loop | 80.70 | Master GW# 131 |
| GWD160 | 209.08 | 1 | Line 5 Straights of Mackinac - West Loop | 108.50 | Master GW# 160 |
| GWD170 | 236.67 | 1 | Line 5 Straights of Mackinac - West Loop | 136.08 | Master GW# 170 |
| GWD180 | 264.45 | 1 | Line 5 Straights of Mackinac - West Loop | 163.51 | Master GW# 180 |
| GWD190 | 286.45 | 1 | Line 5 Straights of Mackinac - West Loop | 186.13 | Master GW# 190 |
| GWD200 | 313.37 | 1 | Line 5 Straights of Mackinac - West Loop | 212.56 | Master GW# 200 |
| GWD210 | 340.21 | 1 | Line 5 Straights of Mackinac - West Loop | 239.49 | Master GW# 210 |
| GWD220 | 362.50 | 1 | Line 5 Straights of Mackinac - West Loop | 261.71 | Master GW# 220 |
| GWD230 | 389.12 | 1 | Line 5 Straights of Mackinac - West Loop | 288.15 | Master GW# 230 |
| GWD240 | 414.73 | 1 | Line 5 Straights of Mackinac - West Loop | 314.25 | Master GW# 240 |
| GWD250 | 441.15 | 1 | Line 5 Straights of Mackinac - West Loop | 341.14 | Master GW# 250 |
| GWD260 | 461.54 | 1 | Line 5 Straights of Mackinac - West Loop | 361.89 | Master GW# 260 |
| GWD270 | 487.69 | 1 | Line 5 Straights of Mackinac - West Loop | 387.89 | Master GW# 270 |
| GWD280 | 514.48 | 1 | Line 5 Straights of Mackinac - West Loop | 415.01 | Master GW# 280 |
| GWD290 | 537.15 | 1 | Line 5 Straights of Mackinac - West Loop | 437.81 | Master GW# 290 |
| GWD300 | 562.92 | 1 | Line 5 Straights of Mackinac - West Loop | 464.13 | Master GW# 300 |
| GWD310 | 587.71 | 1 | Line 5 Straights of Mackinac - West Loop | 489.12 | Master GW# 310 |
| GWD320 | 612.90 | 1 | Line 5 Straights of Mackinac - West Loop | 514.75 | Master GW# 320 |

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Datum: WGS 84
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BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD330 | 638.35 | 1 | Line 5 Straights of Mackinac - West Loop | 539.93 | Master GW# 330 |
| GWD340 | 664.15 | 1 | Line 5 Straights of Mackinac - West Loop | 565.72 | Master GW# 340 |
| GWD350 | 671.35 | 1 | Line 5 Straights of Mackinac - West Loop | 573.05 | Master GW# 350 |
| GWD360 | 697.89 | 1 | Line 5 Straights of Mackinac - West Loop | 599.62 | Master GW# 360 |
| GWD370 | 725.10 | 1 | Line 5 Straights of Mackinac - West Loop | 626.69 | Master GW# 370 |
| GWD380 | 752.22 | 1 | Line 5 Straights of Mackinac - West Loop | 654.09 | Master GW# 380 |
| GWD390 | 780.41 | 1 | Line 5 Straights of Mackinac - West Loop | 682.26 | Master GW# 390 |
| GWD400 | 806.57 | 1 | Line 5 Straights of Mackinac - West Loop | 708.75 | Master GW# 400 |
| GWD410 | 831.12 | 1 | Line 5 Straights of Mackinac - West Loop | 733.59 | Master GW# 410 |
| GWD420 | 856.66 | 1 | Line 5 Straights of Mackinac - West Loop | 759.01 | Master GW# 420 |
| GWD430 | 880.26 | 1 | Line 5 Straights of Mackinac - West Loop | 782.84 | Master GW# 430 |
| GWD440 | 907.47 | 1 | Line 5 Straights of Mackinac - West Loop | 810.50 | Master GW# 440 |
| GWD450 | 930.65 | 1 | Line 5 Straights of Mackinac - West Loop | 834.20 | Master GW# 450 |
| GWD460 | 953.88 | 1 | Line 5 Straights of Mackinac - West Loop | 857.68 | Master GW# 460 |
| GWD470 | 981.15 | 1 | Line 5 Straights of Mackinac - West Loop | 885.49 | Master GW# 470 |
| GWD480 | 1,000.67 | 1 | Line 5 Straights of Mackinac - West Loop | 905.18 | Master GW# 480 |
| GWD490 | 1,026.55 | 1 | Line 5 Straights of Mackinac - West Loop | 932.05 | Master GW# 490 |
| GWD500 | 1,049.69 | 1 | Line 5 Straights of Mackinac - West Loop | 956.16 | Master GW# 500 |
| GWD510 | 1,077.38 | 1 | Line 5 Straights of Mackinac - West Loop | 983.80 | Master GW# 510 |
| GWD520 | 1,102.91 | 1 | Line 5 Straights of Mackinac - West Loop | 1,010.24 | Master GW# 520 |
| GWD530 | 1,128.13 | 1 | Line 5 Straights of Mackinac - West Loop | 1,035.64 | Master GW# 530 |
| GWD540 | 1,148.60 | 1 | Line 5 Straights of Mackinac - West Loop | 1,056.59 | Master GW# 540 |
| GWD550 | 1,174.86 | 1 | Line 5 Straights of Mackinac - West Loop | 1,083.11 | Master GW# 550 |
| GWD560 | 1,201.61 | 1 | Line 5 Straights of Mackinac - West Loop | 1,109.95 | Master GW# 560 |
| GWD570 | 1,228.19 | 1 | Line 5 Straights of Mackinac - West Loop | 1,136.73 | Master GW# 570 |
| GWD580 | 1,251.00 | 1 | Line 5 Straights of Mackinac - West Loop | 1,159.75 | Master GW# 580 |
| GWD590 | 1,275.60 | 1 | Line 5 Straights of Mackinac - West Loop | 1,184.46 | Master GW# 590 |
| GWD600 | 1,301.52 | 1 | Line 5 Straights of Mackinac - West Loop | 1,210.43 | Master GW# 600 |
| GWD610 | 1,322.12 | 1 | Line 5 Straights of Mackinac - West Loop | 1,231.39 | Master GW# 610 |
| GWD620 | 1,350.03 | 1 | Line 5 Straights of Mackinac - West Loop | 1,258.89 | Master GW# 620 |

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| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD630 | 1,374.05 | 1 | Line 5 Straights of Mackinac - West Loop | 1,283.07 | Master GW# 630 |
| GWD640 | 1,397.56 | 1 | Line 5 Straights of Mackinac - West Loop | 1,307.09 | Master GW# 640 |
| GWD650 | 1,417.58 | 1 | Line 5 Straights of Mackinac - West Loop | 1,326.99 | Master GW# 650 |
| GWD660 | 1,444.37 | 1 | Line 5 Straights of Mackinac - West Loop | 1,353.78 | Master GW# 660 |
| GWD670 | 1,464.77 | 1 | Line 5 Straights of Mackinac - West Loop | 1,374.70 | Master GW# 670 |
| GWD680 | 1,492.18 | 1 | Line 5 Straights of Mackinac - West Loop | 1,402.48 | Master GW# 680 |
| GWD690 | 1,516.36 | 1 | Line 5 Straights of Mackinac - West Loop | 1,426.74 | Master GW# 690 |
| GWD700 | 1,543.14 | 1 | Line 5 Straights of Mackinac - West Loop | 1,453.81 | Master GW# 700 |
| GWD710 | 1,567.43 | 1 | Line 5 Straights of Mackinac - West Loop | 1,478.29 | Master GW# 710 |
| GWD720 | 1,594.02 | 1 | Line 5 Straights of Mackinac - West Loop | 1,505.03 | Master GW# 720 |
| GWD730 | 1,621.07 | 1 | Line 5 Straights of Mackinac - West Loop | 1,532.30 | Master GW# 730 |
| GWD740 | 1,647.31 | 1 | Line 5 Straights of Mackinac - West Loop | 1,559.27 | Master GW# 740 |
| GWD750 | 1,673.00 | 1 | Line 5 Straights of Mackinac - West Loop | 1,584.75 | Master GW# 750 |
| GWD760 | 1,695.73 | 1 | Line 5 Straights of Mackinac - West Loop | 1,607.51 | Master GW# 760 |
| GWD770 | 1,722.37 | 1 | Line 5 Straights of Mackinac - West Loop | 1,634.22 | Master GW# 770 |
| GWD780 | 1,750.11 | 1 | Line 5 Straights of Mackinac - West Loop | 1,662.02 | Master GW# 780 |
| GWD790 | 1,776.49 | 1 | Line 5 Straights of Mackinac - West Loop | 1,688.61 | Master GW# 790 |
| GWD800 | 1,795.06 | 1 | Line 5 Straights of Mackinac - West Loop | 1,706.96 | Master GW# 800 |
| GWD810 | 1,821.26 | 1 | Line 5 Straights of Mackinac - West Loop | 1,733.10 | Master GW# 810 |
| GWD820 | 1,848.27 | 1 | Line 5 Straights of Mackinac - West Loop | 1,760.09 | Master GW# 820 |
| GWD830 | 1,876.46 | 1 | Line 5 Straights of Mackinac - West Loop | 1,787.93 | Master GW# 830 |
| GWD840 | 1,903.75 | 1 | Line 5 Straights of Mackinac - West Loop | 1,815.16 | Master GW# 840 |
| GWD850 | 1,924.60 | 1 | Line 5 Straights of Mackinac - West Loop | 1,836.29 | Master GW# 850 |
| GWD860 | 1,950.45 | 1 | Line 5 Straights of Mackinac - West Loop | 1,862.23 | Master GW# 860 |
| GWD870 | 1,978.87 | 1 | Line 5 Straights of Mackinac - West Loop | 1,889.93 | Master GW# 870 |
| GWD880 | 2,006.71 | 1 | Line 5 Straights of Mackinac - West Loop | 1,917.32 | Master GW# 880 |
| GWD890 | 2,030.08 | 1 | Line 5 Straights of Mackinac - West Loop | 1,940.82 | Master GW# 890 |
| GWD900 | 2,055.21 | 1 | Line 5 Straights of Mackinac - West Loop | 1,966.20 | Master GW# 900 |
| GWD910 | 2,081.90 | 1 | Line 5 Straights of Mackinac - West Loop | 1,992.95 | Master GW# 910 |
| GWD920 | 2,107.03 | 1 | Line 5 Straights of Mackinac - West Loop | 2,018.14 | Master GW# 920 |

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| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD930 | 2,133.11 | 1 | Line 5 Straights of Mackinac - West Loop | 2,044.27 | Master GW# 930 |
| GWD940 | 2,160.29 | 1 | Line 5 Straights of Mackinac - West Loop | 2,071.77 | Master GW# 940 |
| GWD950 | 2,185.57 | 1 | Line 5 Straights of Mackinac - West Loop | 2,096.78 | Master GW# 950 |
| GWD960 | 2,213.16 | 1 | Line 5 Straights of Mackinac - West Loop | 2,124.53 | Master GW# 960 |
| GWD970 | 2,241.49 | 1 | Line 5 Straights of Mackinac - West Loop | 2,152.39 | Master GW# 970 |
| GWD980 | 2,269.20 | 1 | Line 5 Straights of Mackinac - West Loop | 2,179.88 | Master GW# 980 |
| GWD990 | 2,288.49 | 1 | Line 5 Straights of Mackinac - West Loop | 2,199.95 | Master GW# 990 |
| GWD1000 | 2,315.89 | 1 | Line 5 Straights of Mackinac - West Loop | 2,227.04 | Master GW# 1000 |
| GWD1010 | 2,343.82 | 1 | Line 5 Straights of Mackinac - West Loop | 2,254.80 | Master GW# 1010 |
| GWD1020 | 2,370.95 | 1 | Line 5 Straights of Mackinac - West Loop | 2,282.41 | Master GW# 1020 |
| GWD1030 | 2,398.83 | 1 | Line 5 Straights of Mackinac - West Loop | 2,309.90 | Master GW# 1030 |
| GWD1040 | 2,426.32 | 1 | Line 5 Straights of Mackinac - West Loop | 2,337.15 | Master GW# 1040 |
| GWD1050 | 2,452.35 | 1 | Line 5 Straights of Mackinac - West Loop | 2,363.29 | Master GW# 1050 |
| GWD1060 | 2,479.44 | 1 | Line 5 Straights of Mackinac - West Loop | 2,390.18 | Master GW# 1060 |
| GWD1070 | 2,506.47 | 1 | Line 5 Straights of Mackinac - West Loop | 2,417.26 | Master GW# 1070 |
| GWD1080 | 2,529.50 | 1 | Line 5 Straights of Mackinac - West Loop | 2,440.28 | Master GW# 1080 |
| GWD1090 | 2,554.85 | 1 | Line 5 Straights of Mackinac - West Loop | 2,465.46 | Master GW# 1090 |
| GWD1100 | 2,580.53 | 1 | Line 5 Straights of Mackinac - West Loop | 2,491.28 | Master GW# 1100 |
| GWD1110 | 2,608.25 | 1 | Line 5 Straights of Mackinac - West Loop | 2,518.68 | Master GW# 1110 |
| GWD1120 | 2,634.85 | 1 | Line 5 Straights of Mackinac - West Loop | 2,545.39 | Master GW# 1120 |
| GWD1130 | 2,661.25 | 1 | Line 5 Straights of Mackinac - West Loop | 2,572.18 | Master GW# 1130 |
| GWD1140 | 2,682.76 | 1 | Line 5 Straights of Mackinac - West Loop | 2,594.41 | Master GW# 1140 |
| GWD1150 | 2,706.37 | 1 | Line 5 Straights of Mackinac - West Loop | 2,618.16 | Master GW# 1150 |
| GWD1160 | 2,729.18 | 1 | Line 5 Straights of Mackinac - West Loop | 2,640.81 | Master GW# 1160 |
| GWD1170 | 2,753.94 | 1 | Line 5 Straights of Mackinac - West Loop | 2,665.67 | Master GW# 1170 |
| GWD1180 | 2,778.70 | 1 | Line 5 Straights of Mackinac - West Loop | 2,690.87 | Master GW# 1180 |
| GWD1190 | 2,802.32 | 1 | Line 5 Straights of Mackinac - West Loop | 2,714.90 | Master GW# 1190 |
| GWD1200 | 2,825.38 | 1 | Line 5 Straights of Mackinac - West Loop | 2,738.51 | Master GW# 1200 |
| GWD1210 | 2,851.76 | 1 | Line 5 Straights of Mackinac - West Loop | 2,765.16 | Master GW# 1210 |
| GWD1220 | 2,877.94 | 1 | Line 5 Straights of Mackinac - West Loop | 2,791.68 | Master GW# 1220 |

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Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD1230 | 2,896.88 | 1 | Line 5 Straights of Mackinac - West Loop | 2,811.72 | Master GW# 1230 |
| GWD1240 | 2,919.35 | 1 | Line 5 Straights of Mackinac - West Loop | 2,833.60 | Master GW# 1240 |
| GWD1250 | 2,945.98 | 1 | Line 5 Straights of Mackinac - West Loop | 2,860.37 | Master GW# 1250 |
| GWD1260 | 2,967.66 | 1 | Line 5 Straights of Mackinac - West Loop | 2,882.74 | Master GW# 1260 |
| GWD1270 | 2,993.33 | 1 | Line 5 Straights of Mackinac - West Loop | 2,908.53 | Master GW# 1270 |
| GWD1280 | 3,020.20 | 1 | Line 5 Straights of Mackinac - West Loop | 2,935.53 | Master GW# 1280 |
| GWD1290 | 3,046.55 | 1 | Line 5 Straights of Mackinac - West Loop | 2,961.68 | Master GW# 1290 |
| GWD1300 | 3,067.78 | 1 | Line 5 Straights of Mackinac - West Loop | 2,982.95 | Master GW# 1300 |
| GWD1310 | 3,093.63 | 1 | Line 5 Straights of Mackinac - West Loop | 3,008.46 | Master GW# 1310 |
| GWD1320 | 3,120.49 | 1 | Line 5 Straights of Mackinac - West Loop | 3,035.49 | Master GW# 1320 |
| GWD1330 | 3,145.87 | 1 | Line 5 Straights of Mackinac - West Loop | 3,060.98 | Master GW# 1330 |
| GWD1340 | 3,173.45 | 1 | Line 5 Straights of Mackinac - West Loop | 3,088.43 | Master GW# 1340 |
| GWD1350 | 3,199.59 | 1 | Line 5 Straights of Mackinac - West Loop | 3,114.82 | Master GW# 1350 |
| GWD1360 | 3,225.39 | 1 | Line 5 Straights of Mackinac - West Loop | 3,140.37 | Master GW# 1360 |
| GWD1370 | 3,252.96 | 1 | Line 5 Straights of Mackinac - West Loop | 3,168.40 | Master GW# 1370 |
| GWD1380 | 3,279.25 | 1 | Line 5 Straights of Mackinac - West Loop | 3,194.91 | Master GW# 1380 |
| GWD1390 | 3,303.54 | 1 | Line 5 Straights of Mackinac - West Loop | 3,219.43 | Master GW# 1390 |
| GWD1400 | 3,328.07 | 1 | Line 5 Straights of Mackinac - West Loop | 3,243.99 | Master GW# 1400 |
| GWD1410 | 3,355.15 | 1 | Line 5 Straights of Mackinac - West Loop | 3,270.81 | Master GW# 1410 |
| GWD1420 | 3,381.91 | 1 | Line 5 Straights of Mackinac - West Loop | 3,297.61 | Master GW# 1420 |
| GWD1430 | 3,406.98 | 1 | Line 5 Straights of Mackinac - West Loop | 3,322.50 | Master GW# 1430 |
| GWD1440 | 3,435.56 | 1 | Line 5 Straights of Mackinac - West Loop | 3,350.66 | Master GW# 1440 |
| GWD1450 | 3,459.84 | 1 | Line 5 Straights of Mackinac - West Loop | 3,374.95 | Master GW# 1450 |
| GWD1460 | 3,486.84 | 1 | Line 5 Straights of Mackinac - West Loop | 3,401.55 | Master GW# 1460 |
| GWD1470 | 3,508.92 | 1 | Line 5 Straights of Mackinac - West Loop | 3,423.55 | Master GW# 1470 |
| GWD1480 | 3,533.14 | 1 | Line 5 Straights of Mackinac - West Loop | 3,447.51 | Master GW# 1480 |
| GWD1490 | 3,559.09 | 1 | Line 5 Straights of Mackinac - West Loop | 3,473.39 | Master GW# 1490 |
| GWD1500 | 3,587.07 | 1 | Line 5 Straights of Mackinac - West Loop | 3,500.97 | Master GW# 1500 |
| GWD1510 | 3,611.48 | 1 | Line 5 Straights of Mackinac - West Loop | 3,525.09 | Master GW# 1510 |
| GWD1520 | 3,638.29 | 1 | Line 5 Straights of Mackinac - West Loop | 3,551.64 | Master GW# 1520 |

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|---|---|---|---|---|---|
| GWD1530 | 3,657.77 | 1 | Line 5 Straights of Mackinac - West Loop | 3,571.15 | Master GW# 1530 |
| GWD1540 | 3,682.66 | 1 | Line 5 Straights of Mackinac - West Loop | 3,595.80 | Master GW# 1540 |
| GWD1550 | 3,709.69 | 1 | Line 5 Straights of Mackinac - West Loop | 3,623.36 | Master GW# 1550 |
| GWD1560 | 3,737.48 | 1 | Line 5 Straights of Mackinac - West Loop | 3,650.60 | Master GW# 1560 |
| GWD1570 | 3,765.14 | 1 | Line 5 Straights of Mackinac - West Loop | 3,678.05 | Master GW# 1570 |
| GWD1580 | 3,792.02 | 1 | Line 5 Straights of Mackinac - West Loop | 3,704.72 | Master GW# 1580 |
| GWD1590 | 3,818.55 | 1 | Line 5 Straights of Mackinac - West Loop | 3,730.71 | Master GW# 1590 |
| GWD1600 | 3,843.70 | 1 | Line 5 Straights of Mackinac - West Loop | 3,755.57 | Master GW# 1600 |
| GWD1610 | 3,866.50 | 1 | Line 5 Straights of Mackinac - West Loop | 3,778.19 | Master GW# 1610 |
| GWD1620 | 3,889.02 | 1 | Line 5 Straights of Mackinac - West Loop | 3,800.11 | Master GW# 1620 |
| GWD1630 | 3,917.17 | 1 | Line 5 Straights of Mackinac - West Loop | 3,828.27 | Master GW# 1630 |
| GWD1640 | 3,942.91 | 1 | Line 5 Straights of Mackinac - West Loop | 3,853.93 | Master GW# 1640 |
| GWD1650 | 3,965.53 | 1 | Line 5 Straights of Mackinac - West Loop | 3,876.23 | Master GW# 1650 |
| GWD1660 | 3,990.50 | 1 | Line 5 Straights of Mackinac - West Loop | 3,902.08 | Master GW# 1660 |
| GWD1670 | 4,015.30 | 1 | Line 5 Straights of Mackinac - West Loop | 3,925.81 | Master GW# 1670 |
| GWD1680 | 4,042.38 | 1 | Line 5 Straights of Mackinac - West Loop | 3,952.32 | Master GW# 1680 |
| GWD1690 | 4,068.99 | 1 | Line 5 Straights of Mackinac - West Loop | 3,978.55 | Master GW# 1690 |
| GWD1700 | 4,095.98 | 1 | Line 5 Straights of Mackinac - West Loop | 4,005.95 | Master GW# 1700 |
| GWD1710 | 4,115.24 | 1 | Line 5 Straights of Mackinac - West Loop | 4,024.35 | Master GW# 1710 |
| GWD1720 | 4,141.12 | 1 | Line 5 Straights of Mackinac - West Loop | 4,049.96 | Master GW# 1720 |
| GWD1730 | 4,168.12 | 1 | Line 5 Straights of Mackinac - West Loop | 4,076.19 | Master GW# 1730 |
| GWD1740 | 4,195.58 | 1 | Line 5 Straights of Mackinac - West Loop | 4,103.58 | Master GW# 1740 |
| GWD1750 | 4,224.04 | 1 | Line 5 Straights of Mackinac - West Loop | 4,131.58 | Master GW# 1750 |
| GWD1760 | 4,250.05 | 1 | Line 5 Straights of Mackinac - West Loop | 4,158.23 | Master GW# 1760 |
| GWD1770 | 4,277.19 | 1 | Line 5 Straights of Mackinac - West Loop | 4,184.71 | Master GW# 1770 |
| GWD1780 | 4,304.87 | 1 | Line 5 Straights of Mackinac - West Loop | 4,211.86 | Master GW# 1780 |
| GWD1790 | 4,329.96 | 1 | Line 5 Straights of Mackinac - West Loop | 4,237.05 | Master GW# 1790 |
| GWD1800 | 4,356.92 | 1 | Line 5 Straights of Mackinac - West Loop | 4,263.73 | Master GW# 1800 |
| GWD1810 | 4,384.18 | 1 | Line 5 Straights of Mackinac - West Loop | 4,290.82 | Master GW# 1810 |
| GWD1820 | 4,409.49 | 1 | Line 5 Straights of Mackinac - West Loop | 4,315.80 | Master GW# 1820 |

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|---|---|---|---|---|---|
| GWD1830 | 4,435.71 | 1 | Line 5 Straights of Mackinac - West Loop | 4,341.52 | Master GW# 1830 |
| GWD1840 | 4,460.96 | 1 | Line 5 Straights of Mackinac - West Loop | 4,366.68 | Master GW# 1840 |
| GWD1850 | 4,481.97 | 1 | Line 5 Straights of Mackinac - West Loop | 4,387.27 | Master GW# 1850 |
| GWD1860 | 4,506.52 | 1 | Line 5 Straights of Mackinac - West Loop | 4,411.53 | Master GW# 1860 |
| GWD1870 | 4,533.05 | 1 | Line 5 Straights of Mackinac - West Loop | 4,437.68 | Master GW# 1870 |
| GWD1880 | 4,559.88 | 1 | Line 5 Straights of Mackinac - West Loop | 4,464.16 | Master GW# 1880 |
| GWD1890 | 4,587.02 | 1 | Line 5 Straights of Mackinac - West Loop | 4,491.19 | Master GW# 1890 |
| GWD1900 | 4,609.10 | 1 | Line 5 Straights of Mackinac - West Loop | 4,512.60 | Master GW# 1900 |
| GWD1910 | 4,636.45 | 1 | Line 5 Straights of Mackinac - West Loop | 4,540.07 | Master GW# 1910 |
| GWD1920 | 4,664.02 | 1 | Line 5 Straights of Mackinac - West Loop | 4,566.85 | Master GW# 1920 |
| GWD1930 | 4,691.38 | 1 | Line 5 Straights of Mackinac - West Loop | 4,593.91 | Master GW# 1930 |
| GWD1940 | 4,718.85 | 1 | Line 5 Straights of Mackinac - West Loop | 4,621.08 | Master GW# 1940 |
| GWD1950 | 4,746.70 | 1 | Line 5 Straights of Mackinac - West Loop | 4,648.78 | Master GW# 1950 |
| GWD1960 | 4,773.49 | 1 | Line 5 Straights of Mackinac - West Loop | 4,675.12 | Master GW# 1960 |
| GWD1970 | 4,800.06 | 1 | Line 5 Straights of Mackinac - West Loop | 4,701.27 | Master GW# 1970 |
| GWD1980 | 4,825.83 | 1 | Line 5 Straights of Mackinac - West Loop | 4,726.36 | Master GW# 1980 |
| GWD1990 | 4,852.71 | 1 | Line 5 Straights of Mackinac - West Loop | 4,753.20 | Master GW# 1990 |
| GWD2000 | 4,874.41 | 1 | Line 5 Straights of Mackinac - West Loop | 4,774.63 | Master GW# 2000 |
| GWD2010 | 4,900.51 | 1 | Line 5 Straights of Mackinac - West Loop | 4,800.84 | Master GW# 2010 |
| GWD2020 | 4,927.89 | 1 | Line 5 Straights of Mackinac - West Loop | 4,827.90 | Master GW# 2020 |
| GWD2030 | 4,954.54 | 1 | Line 5 Straights of Mackinac - West Loop | 4,854.22 | Master GW# 2030 |
| GWD2040 | 4,977.59 | 1 | Line 5 Straights of Mackinac - West Loop | 4,876.96 | Master GW# 2040 |
| GWD2050 | 5,005.40 | 1 | Line 5 Straights of Mackinac - West Loop | 4,904.32 | Master GW# 2050 |
| GWD2060 | 5,031.40 | 1 | Line 5 Straights of Mackinac - West Loop | 4,930.35 | Master GW# 2060 |
| GWD2070 | 5,059.54 | 1 | Line 5 Straights of Mackinac - West Loop | 4,957.75 | Master GW# 2070 |
| GWD2080 | 5,086.76 | 1 | Line 5 Straights of Mackinac - West Loop | 4,984.80 | Master GW# 2080 |
| GWD2090 | 5,113.33 | 1 | Line 5 Straights of Mackinac - West Loop | 5,011.46 | Master GW# 2090 |
| GWD2100 | 5,133.88 | 1 | Line 5 Straights of Mackinac - West Loop | 5,031.81 | Master GW# 2100 |
| GWD2110 | 5,161.80 | 1 | Line 5 Straights of Mackinac - West Loop | 5,059.27 | Master GW# 2110 |
| GWD2120 | 5,187.64 | 1 | Line 5 Straights of Mackinac - West Loop | 5,084.76 | Master GW# 2120 |



ENBDNR0001292

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD2130 | 5,212.75 | 1 | Line 5 Straights of Mackinac - West Loop | 5,109.82 | Master GW# 2130 |
| GWD2140 | 5,238.95 | 1 | Line 5 Straights of Mackinac - West Loop | 5,135.42 | Master GW# 2140 |
| GWD2150 | 5,262.34 | 1 | Line 5 Straights of Mackinac - West Loop | 5,159.32 | Master GW# 2150 |
| GWD2160 | 5,290.16 | 1 | Line 5 Straights of Mackinac - West Loop | 5,186.47 | Master GW# 2160 |
| GWD2170 | 5,316.80 | 1 | Line 5 Straights of Mackinac - West Loop | 5,213.06 | Master GW# 2170 |
| GWD2180 | 5,342.57 | 1 | Line 5 Straights of Mackinac - West Loop | 5,238.57 | Master GW# 2180 |
| GWD2190 | 5,367.95 | 1 | Line 5 Straights of Mackinac - West Loop | 5,263.59 | Master GW# 2190 |
| GWD2200 | 5,393.09 | 1 | Line 5 Straights of Mackinac - West Loop | 5,288.93 | Master GW# 2200 |
| GWD2210 | 5,420.53 | 1 | Line 5 Straights of Mackinac - West Loop | 5,315.60 | Master GW# 2210 |
| GWD2220 | 5,447.56 | 1 | Line 5 Straights of Mackinac - West Loop | 5,342.78 | Master GW# 2220 |
| GWD2230 | 5,474.84 | 1 | Line 5 Straights of Mackinac - West Loop | 5,369.79 | Master GW# 2230 |
| GWD2240 | 5,498.42 | 1 | Line 5 Straights of Mackinac - West Loop | 5,393.34 | Master GW# 2240 |
| GWD2250 | 5,525.34 | 1 | Line 5 Straights of Mackinac - West Loop | 5,420.30 | Master GW# 2250 |
| GWD2260 | 5,552.46 | 1 | Line 5 Straights of Mackinac - West Loop | 5,447.17 | Master GW# 2260 |
| GWD2270 | 5,573.58 | 1 | Line 5 Straights of Mackinac - West Loop | 5,468.57 | Master GW# 2270 |
| GWD2280 | 5,599.72 | 1 | Line 5 Straights of Mackinac - West Loop | 5,494.60 | Master GW# 2280 |
| GWD2290 | 5,627.00 | 1 | Line 5 Straights of Mackinac - West Loop | 5,522.17 | Master GW# 2290 |
| GWD2300 | 5,652.32 | 1 | Line 5 Straights of Mackinac - West Loop | 5,547.42 | Master GW# 2300 |
| GWD2310 | 5,679.64 | 1 | Line 5 Straights of Mackinac - West Loop | 5,574.91 | Master GW# 2310 |
| GWD2320 | 5,705.53 | 1 | Line 5 Straights of Mackinac - West Loop | 5,600.52 | Master GW# 2320 |
| GWD2330 | 5,732.29 | 1 | Line 5 Straights of Mackinac - West Loop | 5,627.75 | Master GW# 2330 |
| GWD2340 | 5,759.62 | 1 | Line 5 Straights of Mackinac - West Loop | 5,654.49 | Master GW# 2340 |
| GWD2350 | 5,786.35 | 1 | Line 5 Straights of Mackinac - West Loop | 5,681.23 | Master GW# 2350 |
| GWD2360 | 5,811.83 | 1 | Line 5 Straights of Mackinac - West Loop | 5,706.85 | Master GW# 2360 |
| GWD2370 | 5,838.83 | 1 | Line 5 Straights of Mackinac - West Loop | 5,733.70 | Master GW# 2370 |
| GWD2380 | 5,862.87 | 1 | Line 5 Straights of Mackinac - West Loop | 5,757.85 | Master GW# 2380 |
| GWD2390 | 5,889.93 | 1 | Line 5 Straights of Mackinac - West Loop | 5,784.63 | Master GW# 2390 |
| GWD2400 | 5,910.13 | 1 | Line 5 Straights of Mackinac - West Loop | 5,804.90 | Master GW# 2400 |
| GWD2410 | 5,934.64 | 1 | Line 5 Straights of Mackinac - West Loop | 5,829.30 | Master GW# 2410 |
| GWD2420 | 5,960.31 | 1 | Line 5 Straights of Mackinac - West Loop | 5,854.80 | Master GW# 2420 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD2430 | 5,985.44 | 1 | Line 5 Straights of Mackinac - West Loop | 5,879.64 | Master GW# 2430 |
| GWD2440 | 6,007.35 | 1 | Line 5 Straights of Mackinac - West Loop | 5,901.22 | Master GW# 2440 |
| GWD2450 | 6,035.20 | 1 | Line 5 Straights of Mackinac - West Loop | 5,927.84 | Master GW# 2450 |
| GWD2460 | 6,061.44 | 1 | Line 5 Straights of Mackinac - West Loop | 5,954.13 | Master GW# 2460 |
| GWD2470 | 6,088.71 | 1 | Line 5 Straights of Mackinac - West Loop | 5,981.18 | Master GW# 2470 |
| GWD2480 | 6,114.50 | 1 | Line 5 Straights of Mackinac - West Loop | 6,007.10 | Master GW# 2480 |
| GWD2490 | 6,142.49 | 1 | Line 5 Straights of Mackinac - West Loop | 6,034.71 | Master GW# 2490 |
| GWD2500 | 6,168.73 | 1 | Line 5 Straights of Mackinac - West Loop | 6,060.76 | Master GW# 2500 |
| GWD2510 | 6,193.87 | 1 | Line 5 Straights of Mackinac - West Loop | 6,085.94 | Master GW# 2510 |
| GWD2520 | 6,216.63 | 1 | Line 5 Straights of Mackinac - West Loop | 6,108.03 | Master GW# 2520 |
| GWD2530 | 6,244.36 | 1 | Line 5 Straights of Mackinac - West Loop | 6,135.24 | Master GW# 2530 |
| GWD2540 | 6,270.87 | 1 | Line 5 Straights of Mackinac - West Loop | 6,161.44 | Master GW# 2540 |
| GWD2550 | 6,297.93 | 1 | Line 5 Straights of Mackinac - West Loop | 6,188.56 | Master GW# 2550 |
| GWD2560 | 6,326.05 | 1 | Line 5 Straights of Mackinac - West Loop | 6,215.82 | Master GW# 2560 |
| GWD2570 | 6,351.89 | 1 | Line 5 Straights of Mackinac - West Loop | 6,241.63 | Master GW# 2570 |
| GWD2580 | 6,380.08 | 1 | Line 5 Straights of Mackinac - West Loop | 6,269.69 | Master GW# 2580 |
| GWD2590 | 6,407.90 | 1 | Line 5 Straights of Mackinac - West Loop | 6,297.48 | Master GW# 2590 |
| GWD2600 | 6,429.38 | 1 | Line 5 Straights of Mackinac - West Loop | 6,318.44 | Master GW# 2600 |
| GWD2610 | 6,455.60 | 1 | Line 5 Straights of Mackinac - West Loop | 6,344.88 | Master GW# 2610 |
| GWD2620 | 6,482.31 | 1 | Line 5 Straights of Mackinac - West Loop | 6,371.35 | Master GW# 2620 |
| GWD2630 | 6,505.83 | 1 | Line 5 Straights of Mackinac - West Loop | 6,394.59 | Master GW# 2630 |
| GWD2640 | 6,532.97 | 1 | Line 5 Straights of Mackinac - West Loop | 6,421.29 | Master GW# 2640 |
| GWD2650 | 6,559.35 | 1 | Line 5 Straights of Mackinac - West Loop | 6,447.47 | Master GW# 2650 |
| GWD2660 | 6,586.23 | 1 | Line 5 Straights of Mackinac - West Loop | 6,473.89 | Master GW# 2660 |
| GWD2670 | 6,613.78 | 1 | Line 5 Straights of Mackinac - West Loop | 6,500.92 | Master GW# 2670 |
| GWD2680 | 6,641.23 | 1 | Line 5 Straights of Mackinac - West Loop | 6,528.05 | Master GW# 2680 |
| GWD2690 | 6,667.94 | 1 | Line 5 Straights of Mackinac - West Loop | 6,554.15 | Master GW# 2690 |
| GWD2700 | 6,695.58 | 1 | Line 5 Straights of Mackinac - West Loop | 6,581.41 | Master GW# 2700 |
| GWD2710 | 6,723.63 | 1 | Line 5 Straights of Mackinac - West Loop | 6,608.80 | Master GW# 2710 |
| GWD2720 | 6,751.84 | 1 | Line 5 Straights of Mackinac - West Loop | 6,636.52 | Master GW# 2720 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD2730 | 6,777.38 | 1 | Line 5 Straights of Mackinac - West Loop | 6,662.01 | Master GW# 2730 |
| GWD2740 | 6,803.54 | 1 | Line 5 Straights of Mackinac - West Loop | 6,687.42 | Master GW# 2740 |
| GWD2750 | 6,824.49 | 1 | Line 5 Straights of Mackinac - West Loop | 6,708.21 | Master GW# 2750 |
| GWD2760 | 6,853.12 | 1 | Line 5 Straights of Mackinac - West Loop | 6,736.12 | Master GW# 2760 |
| GWD2770 | 6,881.10 | 1 | Line 5 Straights of Mackinac - West Loop | 6,763.46 | Master GW# 2770 |
| GWD2780 | 6,907.59 | 1 | Line 5 Straights of Mackinac - West Loop | 6,789.83 | Master GW# 2780 |
| GWD2790 | 6,933.13 | 1 | Line 5 Straights of Mackinac - West Loop | 6,814.97 | Master GW# 2790 |
| GWD2800 | 6,959.31 | 1 | Line 5 Straights of Mackinac - West Loop | 6,840.83 | Master GW# 2800 |
| GWD2810 | 6,982.92 | 1 | Line 5 Straights of Mackinac - West Loop | 6,864.00 | Master GW# 2810 |
| GWD2820 | 7,008.00 | 1 | Line 5 Straights of Mackinac - West Loop | 6,888.65 | Master GW# 2820 |
| GWD2830 | 7,035.26 | 1 | Line 5 Straights of Mackinac - West Loop | 6,915.46 | Master GW# 2830 |
| GWD2840 | 7,062.84 | 1 | Line 5 Straights of Mackinac - West Loop | 6,942.69 | Master GW# 2840 |
| GWD2850 | 7,087.55 | 1 | Line 5 Straights of Mackinac - West Loop | 6,966.84 | Master GW# 2850 |
| GWD2860 | 7,115.12 | 1 | Line 5 Straights of Mackinac - West Loop | 6,993.64 | Master GW# 2860 |
| GWD2870 | 7,140.65 | 1 | Line 5 Straights of Mackinac - West Loop | 7,018.89 | Master GW# 2870 |
| GWD2880 | 7,167.13 | 1 | Line 5 Straights of Mackinac - West Loop | 7,044.55 | Master GW# 2880 |
| GWD2890 | 7,193.75 | 1 | Line 5 Straights of Mackinac - West Loop | 7,070.73 | Master GW# 2890 |
| GWD2900 | 7,220.25 | 1 | Line 5 Straights of Mackinac - West Loop | 7,096.68 | Master GW# 2900 |
| GWD2910 | 7,246.90 | 1 | Line 5 Straights of Mackinac - West Loop | 7,122.54 | Master GW# 2910 |
| GWD2920 | 7,271.32 | 1 | Line 5 Straights of Mackinac - West Loop | 7,146.74 | Master GW# 2920 |
| GWD2930 | 7,299.76 | 1 | Line 5 Straights of Mackinac - West Loop | 7,174.61 | Master GW# 2930 |
| GWD2940 | 7,326.65 | 1 | Line 5 Straights of Mackinac - West Loop | 7,200.84 | Master GW# 2940 |
| GWD2950 | 7,353.33 | 1 | Line 5 Straights of Mackinac - West Loop | 7,227.25 | Master GW# 2950 |
| GWD2960 | 7,381.79 | 1 | Line 5 Straights of Mackinac - West Loop | 7,254.90 | Master GW# 2960 |
| GWD2970 | 7,409.56 | 1 | Line 5 Straights of Mackinac - West Loop | 7,282.36 | Master GW# 2970 |
| GWD2980 | 7,436.67 | 1 | Line 5 Straights of Mackinac - West Loop | 7,308.96 | Master GW# 2980 |
| GWD2990 | 7,464.88 | 1 | Line 5 Straights of Mackinac - West Loop | 7,336.39 | Master GW# 2990 |
| GWD3000 | 7,492.12 | 1 | Line 5 Straights of Mackinac - West Loop | 7,363.42 | Master GW# 3000 |
| GWD3010 | 7,515.35 | 1 | Line 5 Straights of Mackinac - West Loop | 7,386.29 | Master GW# 3010 |
| GWD3020 | 7,541.70 | 1 | Line 5 Straights of Mackinac - West Loop | 7,412.44 | Master GW# 3020 |



ENBDNR0001295

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD3030 | 7,568.53 | 1 | Line 5 Straights of Mackinac - West Loop | 7,438.42 | Master GW# 3030 |
| GWD3040 | 7,589.28 | 1 | Line 5 Straights of Mackinac - West Loop | 7,458.79 | Master GW# 3040 |
| GWD3050 | 7,614.89 | 1 | Line 5 Straights of Mackinac - West Loop | 7,484.06 | Master GW# 3050 |
| GWD3060 | 7,641.61 | 1 | Line 5 Straights of Mackinac - West Loop | 7,510.14 | Master GW# 3060 |
| GWD3070 | 7,666.12 | 1 | Line 5 Straights of Mackinac - West Loop | 7,534.31 | Master GW# 3070 |
| GWD3080 | 7,692.84 | 1 | Line 5 Straights of Mackinac - West Loop | 7,560.71 | Master GW# 3080 |
| GWD3090 | 7,720.03 | 1 | Line 5 Straights of Mackinac - West Loop | 7,587.36 | Master GW# 3090 |
| GWD3100 | 7,747.98 | 1 | Line 5 Straights of Mackinac - West Loop | 7,614.86 | Master GW# 3100 |
| GWD3110 | 7,775.12 | 1 | Line 5 Straights of Mackinac - West Loop | 7,641.66 | Master GW# 3110 |
| GWD3120 | 7,800.97 | 1 | Line 5 Straights of Mackinac - West Loop | 7,666.93 | Master GW# 3120 |
| GWD3130 | 7,826.81 | 1 | Line 5 Straights of Mackinac - West Loop | 7,692.12 | Master GW# 3130 |
| GWD3140 | 7,854.88 | 1 | Line 5 Straights of Mackinac - West Loop | 7,719.89 | Master GW# 3140 |
| GWD3150 | 7,881.88 | 1 | Line 5 Straights of Mackinac - West Loop | 7,746.15 | Master GW# 3150 |
| GWD3160 | 7,909.08 | 1 | Line 5 Straights of Mackinac - West Loop | 7,772.67 | Master GW# 3160 |
| GWD3170 | 7,937.05 | 1 | Line 5 Straights of Mackinac - West Loop | 7,799.88 | Master GW# 3170 |
| GWD3180 | 7,948.50 | 1 | Line 5 Straights of Mackinac - West Loop | 7,811.16 | Master GW# 3180 |
| GWD3190 | 7,976.10 | 1 | Line 5 Straights of Mackinac - West Loop | 7,838.14 | Master GW# 3190 |
| GWD3200 | 8,004.62 | 1 | Line 5 Straights of Mackinac - West Loop | 7,866.15 | Master GW# 3200 |
| GWD3210 | 8,031.32 | 1 | Line 5 Straights of Mackinac - West Loop | 7,892.26 | Master GW# 3210 |
| GWD3220 | 8,057.70 | 1 | Line 5 Straights of Mackinac - West Loop | 7,918.05 | Master GW# 3220 |
| GWD3230 | 8,083.15 | 1 | Line 5 Straights of Mackinac - West Loop | 7,943.01 | Master GW# 3230 |
| GWD3240 | 8,110.54 | 1 | Line 5 Straights of Mackinac - West Loop | 7,969.88 | Master GW# 3240 |
| GWD3250 | 8,132.68 | 1 | Line 5 Straights of Mackinac - West Loop | 7,991.69 | Master GW# 3250 |
| GWD3260 | 8,157.48 | 1 | Line 5 Straights of Mackinac - West Loop | 8,016.26 | Master GW# 3260 |
| GWD3270 | 8,182.24 | 1 | Line 5 Straights of Mackinac - West Loop | 8,040.42 | Master GW# 3270 |
| GWD3280 | 8,207.95 | 1 | Line 5 Straights of Mackinac - West Loop | 8,065.85 | Master GW# 3280 |
| GWD3290 | 8,233.54 | 1 | Line 5 Straights of Mackinac - West Loop | 8,090.85 | Master GW# 3290 |
| GWD3300 | 8,260.29 | 1 | Line 5 Straights of Mackinac - West Loop | 8,117.38 | Master GW# 3300 |
| GWD3310 | 8,286.13 | 1 | Line 5 Straights of Mackinac - West Loop | 8,143.16 | Master GW# 3310 |
| GWD3320 | 8,314.87 | 1 | Line 5 Straights of Mackinac - West Loop | 8,170.90 | Master GW# 3320 |



ENBDNR0001296

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD3330 | 8,340.80 | 1 | Line 5 Straights of Mackinac - West Loop | 8,196.60 | Master GW# 3330 |
| GWD3340 | 8,369.01 | 1 | Line 5 Straights of Mackinac - West Loop | 8,224.45 | Master GW# 3340 |
| GWD3350 | 8,395.53 | 1 | Line 5 Straights of Mackinac - West Loop | 8,250.41 | Master GW# 3350 |
| GWD3360 | 8,422.40 | 1 | Line 5 Straights of Mackinac - West Loop | 8,277.07 | Master GW# 3360 |
| GWD3370 | 8,450.04 | 1 | Line 5 Straights of Mackinac - West Loop | 8,304.04 | Master GW# 3370 |
| GWD3380 | 8,478.32 | 1 | Line 5 Straights of Mackinac - West Loop | 8,331.70 | Master GW# 3380 |
| GWD3390 | 8,505.26 | 1 | Line 5 Straights of Mackinac - West Loop | 8,358.28 | Master GW# 3390 |
| GWD3400 | 8,527.89 | 1 | Line 5 Straights of Mackinac - West Loop | 8,381.16 | Master GW# 3400 |
| GWD3410 | 8,554.69 | 1 | Line 5 Straights of Mackinac - West Loop | 8,407.75 | Master GW# 3410 |
| GWD3420 | 8,581.01 | 1 | Line 5 Straights of Mackinac - West Loop | 8,433.93 | Master GW# 3420 |
| GWD3430 | 8,607.34 | 1 | Line 5 Straights of Mackinac - West Loop | 8,460.16 | Master GW# 3430 |
| GWD3440 | 8,635.28 | 1 | Line 5 Straights of Mackinac - West Loop | 8,487.71 | Master GW# 3440 |
| GWD3450 | 8,663.23 | 1 | Line 5 Straights of Mackinac - West Loop | 8,515.11 | Master GW# 3450 |
| GWD3460 | 8,686.85 | 1 | Line 5 Straights of Mackinac - West Loop | 8,538.38 | Master GW# 3460 |
| GWD3470 | 8,711.45 | 1 | Line 5 Straights of Mackinac - West Loop | 8,562.64 | Master GW# 3470 |
| GWD3480 | 8,736.66 | 1 | Line 5 Straights of Mackinac - West Loop | 8,587.58 | Master GW# 3480 |
| GWD3490 | 8,761.73 | 1 | Line 5 Straights of Mackinac - West Loop | 8,612.19 | Master GW# 3490 |
| GWD3500 | 8,788.78 | 1 | Line 5 Straights of Mackinac - West Loop | 8,638.71 | Master GW# 3500 |
| GWD3510 | 8,814.27 | 1 | Line 5 Straights of Mackinac - West Loop | 8,664.11 | Master GW# 3510 |
| GWD3520 | 8,839.14 | 1 | Line 5 Straights of Mackinac - West Loop | 8,688.83 | Master GW# 3520 |
| GWD3530 | 8,865.66 | 1 | Line 5 Straights of Mackinac - West Loop | 8,715.11 | Master GW# 3530 |
| GWD3540 | 8,893.96 | 1 | Line 5 Straights of Mackinac - West Loop | 8,742.73 | Master GW# 3540 |
| GWD3550 | 8,918.11 | 1 | Line 5 Straights of Mackinac - West Loop | 8,767.27 | Master GW# 3550 |
| GWD3560 | 8,946.11 | 1 | Line 5 Straights of Mackinac - West Loop | 8,794.78 | Master GW# 3560 |
| GWD3570 | 8,973.05 | 1 | Line 5 Straights of Mackinac - West Loop | 8,821.79 | Master GW# 3570 |
| GWD3580 | 8,998.80 | 1 | Line 5 Straights of Mackinac - West Loop | 8,847.52 | Master GW# 3580 |
| GWD3590 | 9,026.37 | 1 | Line 5 Straights of Mackinac - West Loop | 8,875.01 | Master GW# 3590 |
| GWD3600 | 9,052.41 | 1 | Line 5 Straights of Mackinac - West Loop | 8,900.77 | Master GW# 3600 |
| GWD3610 | 9,078.02 | 1 | Line 5 Straights of Mackinac - West Loop | 8,926.49 | Master GW# 3610 |
| GWD3620 | 9,105.56 | 1 | Line 5 Straights of Mackinac - West Loop | 8,953.62 | Master GW# 3620 |



ENBDNR0001297

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD3630 | 9,133.07 | 1 | Line 5 Straights of Mackinac - West Loop | 8,981.08 | Master GW# 3630 |
| GWD3640 | 9,160.58 | 1 | Line 5 Straights of Mackinac - West Loop | 9,008.53 | Master GW# 3640 |
| GWD3650 | 9,187.67 | 1 | Line 5 Straights of Mackinac - West Loop | 9,035.77 | Master GW# 3650 |
| GWD3660 | 9,214.62 | 1 | Line 5 Straights of Mackinac - West Loop | 9,063.22 | Master GW# 3660 |
| GWD3670 | 9,237.24 | 1 | Line 5 Straights of Mackinac - West Loop | 9,084.88 | Master GW# 3670 |
| GWD3680 | 9,264.02 | 1 | Line 5 Straights of Mackinac - West Loop | 9,111.60 | Master GW# 3680 |
| GWD3690 | 9,290.96 | 1 | Line 5 Straights of Mackinac - West Loop | 9,138.40 | Master GW# 3690 |
| GWD3700 | 9,316.16 | 1 | Line 5 Straights of Mackinac - West Loop | 9,163.47 | Master GW# 3700 |
| GWD3710 | 9,343.60 | 1 | Line 5 Straights of Mackinac - West Loop | 9,190.57 | Master GW# 3710 |
| GWD3720 | 9,371.51 | 1 | Line 5 Straights of Mackinac - West Loop | 9,217.88 | Master GW# 3720 |
| GWD3730 | 9,398.97 | 1 | Line 5 Straights of Mackinac - West Loop | 9,245.60 | Master GW# 3730 |
| GWD3740 | 9,425.29 | 1 | Line 5 Straights of Mackinac - West Loop | 9,271.44 | Master GW# 3740 |
| GWD3750 | 9,453.20 | 1 | Line 5 Straights of Mackinac - West Loop | 9,298.95 | Master GW# 3750 |
| GWD3760 | 9,480.05 | 1 | Line 5 Straights of Mackinac - West Loop | 9,325.50 | Master GW# 3760 |
| GWD3770 | 9,507.96 | 1 | Line 5 Straights of Mackinac - West Loop | 9,353.50 | Master GW# 3770 |
| GWD3780 | 9,535.82 | 1 | Line 5 Straights of Mackinac - West Loop | 9,380.81 | Master GW# 3780 |
| GWD3790 | 9,562.67 | 1 | Line 5 Straights of Mackinac - West Loop | 9,407.28 | Master GW# 3790 |
| GWD3800 | 9,590.61 | 1 | Line 5 Straights of Mackinac - West Loop | 9,434.73 | Master GW# 3800 |
| GWD3810 | 9,617.88 | 1 | Line 5 Straights of Mackinac - West Loop | 9,461.63 | Master GW# 3810 |
| GWD3820 | 9,644.71 | 1 | Line 5 Straights of Mackinac - West Loop | 9,488.33 | Master GW# 3820 |
| GWD3830 | 9,669.48 | 1 | Line 5 Straights of Mackinac - West Loop | 9,512.71 | Master GW# 3830 |
| GWD3840 | 9,693.98 | 1 | Line 5 Straights of Mackinac - West Loop | 9,536.94 | Master GW# 3840 |
| GWD3850 | 9,720.34 | 1 | Line 5 Straights of Mackinac - West Loop | 9,563.50 | Master GW# 3850 |
| GWD3860 | 9,748.15 | 1 | Line 5 Straights of Mackinac - West Loop | 9,590.75 | Master GW# 3860 |
| GWD3870 | 9,776.03 | 1 | Line 5 Straights of Mackinac - West Loop | 9,618.35 | Master GW# 3870 |
| GWD3880 | 9,798.84 | 1 | Line 5 Straights of Mackinac - West Loop | 9,640.86 | Master GW# 3880 |
| GWD3890 | 9,825.80 | 1 | Line 5 Straights of Mackinac - West Loop | 9,667.20 | Master GW# 3890 |
| GWD3900 | 9,853.47 | 1 | Line 5 Straights of Mackinac - West Loop | 9,694.48 | Master GW# 3900 |
| GWD3910 | 9,874.09 | 1 | Line 5 Straights of Mackinac - West Loop | 9,714.86 | Master GW# 3910 |
| GWD3920 | 9,901.99 | 1 | Line 5 Straights of Mackinac - West Loop | 9,742.40 | Master GW# 3920 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD3930 | 9,929.48 | 1 | Line 5 Straights of Mackinac - West Loop | 9,769.62 | Master GW# 3930 |
| GWD3940 | 9,957.11 | 1 | Line 5 Straights of Mackinac - West Loop | 9,796.96 | Master GW# 3940 |
| GWD3950 | 9,984.92 | 1 | Line 5 Straights of Mackinac - West Loop | 9,824.78 | Master GW# 3950 |
| GWD3960 | 10,010.21 | 1 | Line 5 Straights of Mackinac - West Loop | 9,849.39 | Master GW# 3960 |
| GWD3970 | 10,037.50 | 1 | Line 5 Straights of Mackinac - West Loop | 9,876.65 | Master GW# 3970 |
| GWD3980 | 10,064.02 | 1 | Line 5 Straights of Mackinac - West Loop | 9,902.99 | Master GW# 3980 |
| GWD3990 | 10,091.92 | 1 | Line 5 Straights of Mackinac - West Loop | 9,930.44 | Master GW# 3990 |
| GWD4000 | 10,114.29 | 1 | Line 5 Straights of Mackinac - West Loop | 9,952.73 | Master GW# 4000 |
| GWD4010 | 10,141.98 | 1 | Line 5 Straights of Mackinac - West Loop | 9,980.27 | Master GW# 4010 |
| GWD4020 | 10,166.59 | 1 | Line 5 Straights of Mackinac - West Loop | 10,004.82 | Master GW# 4020 |
| GWD4030 | 10,192.72 | 1 | Line 5 Straights of Mackinac - West Loop | 10,030.80 | Master GW# 4030 |
| GWD4040 | 10,216.45 | 1 | Line 5 Straights of Mackinac - West Loop | 10,054.28 | Master GW# 4040 |
| GWD4050 | 10,241.35 | 1 | Line 5 Straights of Mackinac - West Loop | 10,079.05 | Master GW# 4050 |
| GWD4060 | 10,263.89 | 1 | Line 5 Straights of Mackinac - West Loop | 10,101.49 | Master GW# 4060 |
| GWD4070 | 10,288.24 | 1 | Line 5 Straights of Mackinac - West Loop | 10,125.68 | Master GW# 4070 |
| GWD4080 | 10,315.23 | 1 | Line 5 Straights of Mackinac - West Loop | 10,152.69 | Master GW# 4080 |
| GWD4090 | 10,338.99 | 1 | Line 5 Straights of Mackinac - West Loop | 10,176.00 | Master GW# 4090 |
| GWD4100 | 10,365.72 | 1 | Line 5 Straights of Mackinac - West Loop | 10,202.56 | Master GW# 4100 |
| GWD4110 | 10,393.10 | 1 | Line 5 Straights of Mackinac - West Loop | 10,229.81 | Master GW# 4110 |
| GWD4120 | 10,420.82 | 1 | Line 5 Straights of Mackinac - West Loop | 10,257.08 | Master GW# 4120 |
| GWD4130 | 10,447.91 | 1 | Line 5 Straights of Mackinac - West Loop | 10,284.10 | Master GW# 4130 |
| GWD4140 | 10,474.68 | 1 | Line 5 Straights of Mackinac - West Loop | 10,310.57 | Master GW# 4140 |
| GWD4150 | 10,501.04 | 1 | Line 5 Straights of Mackinac - West Loop | 10,336.80 | Master GW# 4150 |
| GWD4160 | 10,513.58 | 1 | Line 5 Straights of Mackinac - West Loop | 10,349.19 | Master GW# 4160 |
| GWD4170 | 10,533.12 | 1 | Line 5 Straights of Mackinac - West Loop | 10,368.68 | Master GW# 4170 |
| GWD4180 | 10,558.20 | 1 | Line 5 Straights of Mackinac - West Loop | 10,393.42 | Master GW# 4180 |
| GWD4190 | 10,585.21 | 1 | Line 5 Straights of Mackinac - West Loop | 10,419.94 | Master GW# 4190 |
| GWD4200 | 10,612.77 | 1 | Line 5 Straights of Mackinac - West Loop | 10,447.54 | Master GW# 4200 |
| GWD4210 | 10,638.77 | 1 | Line 5 Straights of Mackinac - West Loop | 10,473.38 | Master GW# 4210 |
| GWD4220 | 10,665.15 | 1 | Line 5 Straights of Mackinac - West Loop | 10,499.69 | Master GW# 4220 |



ENBDNR0001299

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD4230 | 10,692.74 | 1 | Line 5 Straights of Mackinac - West Loop | 10,526.85 | Master GW# 4230 |
| GWD4240 | 10,714.03 | 1 | Line 5 Straights of Mackinac - West Loop | 10,547.77 | Master GW# 4240 |
| GWD4250 | 10,741.29 | 1 | Line 5 Straights of Mackinac - West Loop | 10,575.00 | Master GW# 4250 |
| GWD4260 | 10,761.34 | 1 | Line 5 Straights of Mackinac - West Loop | 10,594.86 | Master GW# 4260 |
| GWD4270 | 10,786.62 | 1 | Line 5 Straights of Mackinac - West Loop | 10,619.98 | Master GW# 4270 |
| GWD4280 | 10,814.01 | 1 | Line 5 Straights of Mackinac - West Loop | 10,647.31 | Master GW# 4280 |
| GWD4290 | 10,840.34 | 1 | Line 5 Straights of Mackinac - West Loop | 10,673.05 | Master GW# 4290 |
| GWD4300 | 10,868.54 | 1 | Line 5 Straights of Mackinac - West Loop | 10,700.86 | Master GW# 4300 |
| GWD4310 | 10,896.15 | 1 | Line 5 Straights of Mackinac - West Loop | 10,728.37 | Master GW# 4310 |
| GWD4320 | 10,922.22 | 1 | Line 5 Straights of Mackinac - West Loop | 10,754.00 | Master GW# 4320 |
| GWD4330 | 10,949.55 | 1 | Line 5 Straights of Mackinac - West Loop | 10,781.10 | Master GW# 4330 |
| GWD4340 | 10,973.03 | 1 | Line 5 Straights of Mackinac - West Loop | 10,803.98 | Master GW# 4340 |
| GWD4350 | 11,001.02 | 1 | Line 5 Straights of Mackinac - West Loop | 10,831.87 | Master GW# 4350 |
| GWD4360 | 11,026.91 | 1 | Line 5 Straights of Mackinac - West Loop | 10,857.29 | Master GW# 4360 |
| GWD4370 | 11,053.55 | 1 | Line 5 Straights of Mackinac - West Loop | 10,883.52 | Master GW# 4370 |
| GWD4380 | 11,081.41 | 1 | Line 5 Straights of Mackinac - West Loop | 10,911.10 | Master GW# 4380 |
| GWD4390 | 11,105.44 | 1 | Line 5 Straights of Mackinac - West Loop | 10,934.74 | Master GW# 4390 |
| GWD4400 | 11,129.27 | 1 | Line 5 Straights of Mackinac - West Loop | 10,958.39 | Master GW# 4400 |
| GWD4410 | 11,156.29 | 1 | Line 5 Straights of Mackinac - West Loop | 10,985.07 | Master GW# 4410 |
| GWD4420 | 11,183.24 | 1 | Line 5 Straights of Mackinac - West Loop | 11,011.64 | Master GW# 4420 |
| GWD4430 | 11,208.56 | 1 | Line 5 Straights of Mackinac - West Loop | 11,036.76 | Master GW# 4430 |
| GWD4440 | 11,236.58 | 1 | Line 5 Straights of Mackinac - West Loop | 11,064.41 | Master GW# 4440 |
| GWD4450 | 11,262.90 | 1 | Line 5 Straights of Mackinac - West Loop | 11,090.71 | Master GW# 4450 |
| GWD4460 | 11,290.69 | 1 | Line 5 Straights of Mackinac - West Loop | 11,117.99 | Master GW# 4460 |
| GWD4470 | 11,317.09 | 1 | Line 5 Straights of Mackinac - West Loop | 11,144.27 | Master GW# 4470 |
| GWD4480 | 11,341.28 | 1 | Line 5 Straights of Mackinac - West Loop | 11,168.37 | Master GW# 4480 |
| GWD4490 | 11,367.17 | 1 | Line 5 Straights of Mackinac - West Loop | 11,193.97 | Master GW# 4490 |
| GWD4500 | 11,391.04 | 1 | Line 5 Straights of Mackinac - West Loop | 11,217.59 | Master GW# 4500 |
| GWD4510 | 11,418.81 | 1 | Line 5 Straights of Mackinac - West Loop | 11,245.23 | Master GW# 4510 |
| GWD4520 | 11,438.22 | 1 | Line 5 Straights of Mackinac - West Loop | 11,264.48 | Master GW# 4520 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD4530 | 11,465.83 | 1 | Line 5 Straights of Mackinac - West Loop | 11,291.97 | Master GW# 4530 |
| GWD4540 | 11,492.05 | 1 | Line 5 Straights of Mackinac - West Loop | 11,317.77 | Master GW# 4540 |
| GWD4550 | 11,518.92 | 1 | Line 5 Straights of Mackinac - West Loop | 11,344.57 | Master GW# 4550 |
| GWD4560 | 11,545.79 | 1 | Line 5 Straights of Mackinac - West Loop | 11,371.01 | Master GW# 4560 |
| GWD4570 | 11,569.12 | 1 | Line 5 Straights of Mackinac - West Loop | 11,393.98 | Master GW# 4570 |
| GWD4580 | 11,595.13 | 1 | Line 5 Straights of Mackinac - West Loop | 11,419.74 | Master GW# 4580 |
| GWD4590 | 11,620.07 | 1 | Line 5 Straights of Mackinac - West Loop | 11,444.59 | Master GW# 4590 |
| GWD4600 | 11,646.99 | 1 | Line 5 Straights of Mackinac - West Loop | 11,471.20 | Master GW# 4600 |
| GWD4610 | 11,675.02 | 1 | Line 5 Straights of Mackinac - West Loop | 11,498.84 | Master GW# 4610 |
| GWD4620 | 11,700.27 | 1 | Line 5 Straights of Mackinac - West Loop | 11,523.96 | Master GW# 4620 |
| GWD4630 | 11,728.00 | 1 | Line 5 Straights of Mackinac - West Loop | 11,551.28 | Master GW# 4630 |
| GWD4640 | 11,754.43 | 1 | Line 5 Straights of Mackinac - West Loop | 11,577.53 | Master GW# 4640 |
| GWD4650 | 11,781.38 | 1 | Line 5 Straights of Mackinac - West Loop | 11,604.21 | Master GW# 4650 |
| GWD4660 | 11,806.52 | 1 | Line 5 Straights of Mackinac - West Loop | 11,628.92 | Master GW# 4660 |
| GWD4670 | 11,829.61 | 1 | Line 5 Straights of Mackinac - West Loop | 11,652.17 | Master GW# 4670 |
| GWD4680 | 11,853.00 | 1 | Line 5 Straights of Mackinac - West Loop | 11,675.27 | Master GW# 4680 |
| GWD4690 | 11,879.11 | 1 | Line 5 Straights of Mackinac - West Loop | 11,701.03 | Master GW# 4690 |
| GWD4700 | 11,906.62 | 1 | Line 5 Straights of Mackinac - West Loop | 11,728.53 | Master GW# 4700 |
| GWD4710 | 11,931.46 | 1 | Line 5 Straights of Mackinac - West Loop | 11,753.69 | Master GW# 4710 |
| GWD4720 | 11,959.50 | 1 | Line 5 Straights of Mackinac - West Loop | 11,781.30 | Master GW# 4720 |
| GWD4730 | 11,982.64 | 1 | Line 5 Straights of Mackinac - West Loop | 11,804.11 | Master GW# 4730 |
| GWD4740 | 12,009.18 | 1 | Line 5 Straights of Mackinac - West Loop | 11,830.21 | Master GW# 4740 |
| GWD4750 | 12,035.68 | 1 | Line 5 Straights of Mackinac - West Loop | 11,856.63 | Master GW# 4750 |
| GWD4760 | 12,063.21 | 1 | Line 5 Straights of Mackinac - West Loop | 11,883.51 | Master GW# 4760 |
| GWD4770 | 12,089.46 | 1 | Line 5 Straights of Mackinac - West Loop | 11,909.75 | Master GW# 4770 |
| GWD4780 | 12,117.32 | 1 | Line 5 Straights of Mackinac - West Loop | 11,937.09 | Master GW# 4780 |
| GWD4790 | 12,144.20 | 1 | Line 5 Straights of Mackinac - West Loop | 11,963.56 | Master GW# 4790 |
| GWD4800 | 12,170.55 | 1 | Line 5 Straights of Mackinac - West Loop | 11,989.65 | Master GW# 4800 |
| GWD4810 | 12,198.08 | 1 | Line 5 Straights of Mackinac - West Loop | 12,016.99 | Master GW# 4810 |
| GWD4820 | 12,225.55 | 1 | Line 5 Straights of Mackinac - West Loop | 12,043.59 | Master GW# 4820 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD4830 | 12,251.96 | 1 | Line 5 Straights of Mackinac - West Loop | 12,070.16 | Master GW# 4830 |
| GWD4840 | 12,280.15 | 1 | Line 5 Straights of Mackinac - West Loop | 12,097.62 | Master GW# 4840 |
| GWD4850 | 12,306.84 | 1 | Line 5 Straights of Mackinac - West Loop | 12,124.04 | Master GW# 4850 |
| GWD4860 | 12,332.65 | 1 | Line 5 Straights of Mackinac - West Loop | 12,149.86 | Master GW# 4860 |
| GWD4870 | 12,356.52 | 1 | Line 5 Straights of Mackinac - West Loop | 12,173.53 | Master GW# 4870 |
| GWD4880 | 12,378.10 | 1 | Line 5 Straights of Mackinac - West Loop | 12,194.58 | Master GW# 4880 |
| GWD4890 | 12,404.62 | 1 | Line 5 Straights of Mackinac - West Loop | 12,221.16 | Master GW# 4890 |
| GWD4900 | 12,432.23 | 1 | Line 5 Straights of Mackinac - West Loop | 12,248.62 | Master GW# 4900 |
| GWD4910 | 12,455.57 | 1 | Line 5 Straights of Mackinac - West Loop | 12,271.49 | Master GW# 4910 |
| GWD4920 | 12,482.64 | 1 | Line 5 Straights of Mackinac - West Loop | 12,298.25 | Master GW# 4920 |
| GWD4930 | 12,508.95 | 1 | Line 5 Straights of Mackinac - West Loop | 12,324.39 | Master GW# 4930 |
| GWD4940 | 12,536.68 | 1 | Line 5 Straights of Mackinac - West Loop | 12,351.90 | Master GW# 4940 |
| GWD4950 | 12,564.17 | 1 | Line 5 Straights of Mackinac - West Loop | 12,378.97 | Master GW# 4950 |
| GWD4960 | 12,591.53 | 1 | Line 5 Straights of Mackinac - West Loop | 12,406.08 | Master GW# 4960 |
| GWD4970 | 12,615.45 | 1 | Line 5 Straights of Mackinac - West Loop | 12,429.68 | Master GW# 4970 |
| GWD4980 | 12,642.13 | 1 | Line 5 Straights of Mackinac - West Loop | 12,456.12 | Master GW# 4980 |
| GWD4990 | 12,667.83 | 1 | Line 5 Straights of Mackinac - West Loop | 12,481.94 | Master GW# 4990 |
| GWD5000 | 12,695.49 | 1 | Line 5 Straights of Mackinac - West Loop | 12,509.16 | Master GW# 5000 |
| GWD5010 | 12,717.64 | 1 | Line 5 Straights of Mackinac - West Loop | 12,530.93 | Master GW# 5010 |
| GWD5020 | 12,742.53 | 1 | Line 5 Straights of Mackinac - West Loop | 12,555.62 | Master GW# 5020 |
| GWD5030 | 12,769.01 | 1 | Line 5 Straights of Mackinac - West Loop | 12,581.72 | Master GW# 5030 |
| GWD5040 | 12,794.44 | 1 | Line 5 Straights of Mackinac - West Loop | 12,606.87 | Master GW# 5040 |
| GWD5050 | 12,818.78 | 1 | Line 5 Straights of Mackinac - West Loop | 12,630.94 | Master GW# 5050 |
| GWD5060 | 12,844.31 | 1 | Line 5 Straights of Mackinac - West Loop | 12,656.06 | Master GW# 5060 |
| GWD5070 | 12,869.94 | 1 | Line 5 Straights of Mackinac - West Loop | 12,681.13 | Master GW# 5070 |
| GWD5080 | 12,896.32 | 1 | Line 5 Straights of Mackinac - West Loop | 12,706.99 | Master GW# 5080 |
| GWD5090 | 12,922.98 | 1 | Line 5 Straights of Mackinac - West Loop | 12,733.16 | Master GW# 5090 |
| GWD5100 | 12,947.58 | 1 | Line 5 Straights of Mackinac - West Loop | 12,757.73 | Master GW# 5100 |
| GWD5110 | 12,973.90 | 1 | Line 5 Straights of Mackinac - West Loop | 12,783.33 | Master GW# 5110 |
| GWD5120 | 13,001.74 | 1 | Line 5 Straights of Mackinac - West Loop | 12,810.54 | Master GW# 5120 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD5130 | 13,018.38 | 1 | Line 5 Straights of Mackinac - West Loop | 12,826.91 | Master GW# 5130 |
| GWD5140 | 13,044.26 | 1 | Line 5 Straights of Mackinac - West Loop | 12,852.69 | Master GW# 5140 |
| GWD5150 | 13,070.06 | 1 | Line 5 Straights of Mackinac - West Loop | 12,878.12 | Master GW# 5150 |
| GWD5160 | 13,095.07 | 1 | Line 5 Straights of Mackinac - West Loop | 12,902.88 | Master GW# 5160 |
| GWD5170 | 13,122.91 | 1 | Line 5 Straights of Mackinac - West Loop | 12,930.31 | Master GW# 5170 |
| GWD5180 | 13,149.82 | 1 | Line 5 Straights of Mackinac - West Loop | 12,956.80 | Master GW# 5180 |
| GWD5190 | 13,169.71 | 1 | Line 5 Straights of Mackinac - West Loop | 12,976.54 | Master GW# 5190 |
| GWD5200 | 13,196.98 | 1 | Line 5 Straights of Mackinac - West Loop | 13,003.33 | Master GW# 5200 |
| GWD5210 | 13,221.29 | 1 | Line 5 Straights of Mackinac - West Loop | 13,027.37 | Master GW# 5210 |
| GWD5220 | 13,247.60 | 1 | Line 5 Straights of Mackinac - West Loop | 13,053.58 | Master GW# 5220 |
| GWD5230 | 13,275.82 | 1 | Line 5 Straights of Mackinac - West Loop | 13,081.73 | Master GW# 5230 |
| GWD5240 | 13,303.09 | 1 | Line 5 Straights of Mackinac - West Loop | 13,108.42 | Master GW# 5240 |
| GWD5250 | 13,327.67 | 1 | Line 5 Straights of Mackinac - West Loop | 13,133.11 | Master GW# 5250 |
| GWD5260 | 13,354.20 | 1 | Line 5 Straights of Mackinac - West Loop | 13,159.39 | Master GW# 5260 |
| GWD5270 | 13,375.66 | 1 | Line 5 Straights of Mackinac - West Loop | 13,180.65 | Master GW# 5270 |
| GWD5280 | 13,401.15 | 1 | Line 5 Straights of Mackinac - West Loop | 13,205.82 | Master GW# 5280 |
| GWD5290 | 13,426.28 | 1 | Line 5 Straights of Mackinac - West Loop | 13,230.72 | Master GW# 5290 |
| GWD5300 | 13,450.47 | 1 | Line 5 Straights of Mackinac - West Loop | 13,254.53 | Master GW# 5300 |
| GWD5310 | 13,476.72 | 1 | Line 5 Straights of Mackinac - West Loop | 13,280.59 | Master GW# 5310 |
| GWD5320 | 13,503.67 | 1 | Line 5 Straights of Mackinac - West Loop | 13,307.45 | Master GW# 5320 |
| GWD5330 | 13,529.15 | 1 | Line 5 Straights of Mackinac - West Loop | 13,332.71 | Master GW# 5330 |
| GWD5340 | 13,556.53 | 1 | Line 5 Straights of Mackinac - West Loop | 13,359.66 | Master GW# 5340 |
| GWD5350 | 13,584.94 | 1 | Line 5 Straights of Mackinac - West Loop | 13,387.67 | Master GW# 5350 |
| GWD5360 | 13,610.21 | 1 | Line 5 Straights of Mackinac - West Loop | 13,412.88 | Master GW# 5360 |
| GWD5370 | 13,636.90 | 1 | Line 5 Straights of Mackinac - West Loop | 13,439.12 | Master GW# 5370 |
| GWD5380 | 13,664.45 | 1 | Line 5 Straights of Mackinac - West Loop | 13,466.04 | Master GW# 5380 |
| GWD5390 | 13,683.19 | 1 | Line 5 Straights of Mackinac - West Loop | 13,485.16 | Master GW# 5390 |
| GWD5400 | 13,704.97 | 1 | Line 5 Straights of Mackinac - West Loop | 13,506.47 | Master GW# 5400 |
| GWD5410 | 13,728.14 | 1 | Line 5 Straights of Mackinac - West Loop | 13,529.10 | Master GW# 5410 |
| GWD5420 | 13,754.37 | 1 | Line 5 Straights of Mackinac - West Loop | 13,555.15 | Master GW# 5420 |



ENBDNR0001303

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD5430 | 13,782.36 | 1 | Line 5 Straights of Mackinac - West Loop | 13,582.56 | Master GW# 5430 |
| GWD5440 | 13,806.87 | 1 | Line 5 Straights of Mackinac - West Loop | 13,606.47 | Master GW# 5440 |
| GWD5450 | 13,832.01 | 1 | Line 5 Straights of Mackinac - West Loop | 13,631.15 | Master GW# 5450 |
| GWD5460 | 13,859.19 | 1 | Line 5 Straights of Mackinac - West Loop | 13,658.01 | Master GW# 5460 |
| GWD5470 | 13,882.90 | 1 | Line 5 Straights of Mackinac - West Loop | 13,681.49 | Master GW# 5470 |
| GWD5480 | 13,905.61 | 1 | Line 5 Straights of Mackinac - West Loop | 13,703.87 | Master GW# 5480 |
| GWD5490 | 13,932.33 | 1 | Line 5 Straights of Mackinac - West Loop | 13,730.00 | Master GW# 5490 |
| GWD5500 | 13,960.35 | 1 | Line 5 Straights of Mackinac - West Loop | 13,757.56 | Master GW# 5500 |
| GWD5510 | 13,987.57 | 1 | Line 5 Straights of Mackinac - West Loop | 13,784.62 | Master GW# 5510 |
| GWD5520 | 14,014.58 | 1 | Line 5 Straights of Mackinac - West Loop | 13,811.14 | Master GW# 5520 |
| GWD5530 | 14,039.28 | 1 | Line 5 Straights of Mackinac - West Loop | 13,835.75 | Master GW# 5530 |
| GWD5540 | 14,067.24 | 1 | Line 5 Straights of Mackinac - West Loop | 13,863.23 | Master GW# 5540 |
| GWD5550 | 14,094.92 | 1 | Line 5 Straights of Mackinac - West Loop | 13,890.69 | Master GW# 5550 |
| GWD5560 | 14,115.70 | 1 | Line 5 Straights of Mackinac - West Loop | 13,911.28 | Master GW# 5560 |
| GWD5570 | 14,141.99 | 1 | Line 5 Straights of Mackinac - West Loop | 13,937.29 | Master GW# 5570 |
| GWD5580 | 14,167.34 | 1 | Line 5 Straights of Mackinac - West Loop | 13,962.79 | Master GW# 5580 |
| GWD5590 | 14,192.85 | 1 | Line 5 Straights of Mackinac - West Loop | 13,988.10 | Master GW# 5590 |
| GWD5600 | 14,219.39 | 1 | Line 5 Straights of Mackinac - West Loop | 14,014.33 | Master GW# 5600 |
| GWD5610 | 14,240.81 | 1 | Line 5 Straights of Mackinac - West Loop | 14,035.58 | Master GW# 5610 |
| GWD5620 | 14,267.97 | 1 | Line 5 Straights of Mackinac - West Loop | 14,062.34 | Master GW# 5620 |
| GWD5630 | 14,293.03 | 1 | Line 5 Straights of Mackinac - West Loop | 14,087.18 | Master GW# 5630 |
| GWD5640 | 14,320.73 | 1 | Line 5 Straights of Mackinac - West Loop | 14,114.58 | Master GW# 5640 |
| GWD5650 | 14,346.58 | 1 | Line 5 Straights of Mackinac - West Loop | 14,140.18 | Master GW# 5650 |
| GWD5660 | 14,373.85 | 1 | Line 5 Straights of Mackinac - West Loop | 14,167.13 | Master GW# 5660 |
| GWD5670 | 14,400.38 | 1 | Line 5 Straights of Mackinac - West Loop | 14,193.44 | Master GW# 5670 |
| GWD5680 | 14,427.69 | 1 | Line 5 Straights of Mackinac - West Loop | 14,220.41 | Master GW# 5680 |
| GWD5690 | 14,454.92 | 1 | Line 5 Straights of Mackinac - West Loop | 14,247.43 | Master GW# 5690 |
| GWD5700 | 14,482.80 | 1 | Line 5 Straights of Mackinac - West Loop | 14,274.88 | Master GW# 5700 |
| GWD5710 | 14,509.73 | 1 | Line 5 Straights of Mackinac - West Loop | 14,301.52 | Master GW# 5710 |
| GWD5720 | 14,531.34 | 1 | Line 5 Straights of Mackinac - West Loop | 14,323.13 | Master GW# 5720 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD5730 | 14,557.43 | 1 | Line 5 Straights of Mackinac - West Loop | 14,348.67 | Master GW# 5730 |
| GWD5740 | 14,583.91 | 1 | Line 5 Straights of Mackinac - West Loop | 14,374.63 | Master GW# 5740 |
| GWD5750 | 14,610.27 | 1 | Line 5 Straights of Mackinac - West Loop | 14,400.19 | Master GW# 5750 |
| GWD5760 | 14,632.50 | 1 | Line 5 Straights of Mackinac - West Loop | 14,422.37 | Master GW# 5760 |
| GWD5770 | 14,659.65 | 1 | Line 5 Straights of Mackinac - West Loop | 14,445.45 | Master GW# 5770 |
| GWD5780 | 14,681.06 | 1 | Line 5 Straights of Mackinac - West Loop | 14,470.24 | Master GW# 5780 |
| GWD5790 | 14,708.52 | 1 | Line 5 Straights of Mackinac - West Loop | 14,497.27 | Master GW# 5790 |
| GWD5800 | 14,734.72 | 1 | Line 5 Straights of Mackinac - West Loop | 14,522.88 | Master GW# 5800 |
| GWD5810 | 14,760.14 | 1 | Line 5 Straights of Mackinac - West Loop | 14,547.98 | Master GW# 5810 |
| GWD5820 | 14,788.43 | 1 | Line 5 Straights of Mackinac - West Loop | 14,575.86 | Master GW# 5820 |
| GWD5830 | 14,813.32 | 1 | Line 5 Straights of Mackinac - West Loop | 14,600.44 | Master GW# 5830 |
| GWD5840 | 14,838.99 | 1 | Line 5 Straights of Mackinac - West Loop | 14,625.60 | Master GW# 5840 |
| GWD5850 | 14,865.30 | 1 | Line 5 Straights of Mackinac - West Loop | 14,651.78 | Master GW# 5850 |
| GWD5860 | 14,892.49 | 1 | Line 5 Straights of Mackinac - West Loop | 14,678.56 | Master GW# 5860 |
| GWD5870 | 14,919.79 | 1 | Line 5 Straights of Mackinac - West Loop | 14,705.83 | Master GW# 5870 |
| GWD5880 | 14,946.29 | 1 | Line 5 Straights of Mackinac - West Loop | 14,731.95 | Master GW# 5880 |
| GWD5890 | 14,974.98 | 1 | Line 5 Straights of Mackinac - West Loop | 14,760.65 | Master GW# 5890 |
| GWD5900 | 15,003.06 | 1 | Line 5 Straights of Mackinac - West Loop | 14,788.25 | Master GW# 5900 |
| GWD5910 | 15,030.83 | 1 | Line 5 Straights of Mackinac - West Loop | 14,815.82 | Master GW# 5910 |
| GWD5920 | 15,057.37 | 1 | Line 5 Straights of Mackinac - West Loop | 14,841.84 | Master GW# 5920 |
| GWD5930 | 15,085.40 | 1 | Line 5 Straights of Mackinac - West Loop | 14,869.70 | Master GW# 5930 |
| GWD5940 | 15,112.89 | 1 | Line 5 Straights of Mackinac - West Loop | 14,896.98 | Master GW# 5940 |
| GWD5950 | 15,134.37 | 1 | Line 5 Straights of Mackinac - West Loop | 14,918.41 | Master GW# 5950 |
| GWD5960 | 15,159.55 | 1 | Line 5 Straights of Mackinac - West Loop | 14,943.55 | Master GW# 5960 |
| GWD5970 | 15,179.39 | 1 | Line 5 Straights of Mackinac - West Loop | 14,963.03 | Master GW# 5970 |
| GWD5980 | 15,205.87 | 1 | Line 5 Straights of Mackinac - West Loop | 14,989.43 | Master GW# 5980 |
| GWD5990 | 15,233.89 | 1 | Line 5 Straights of Mackinac - West Loop | 15,017.10 | Master GW# 5990 |
| GWD6000 | 15,260.97 | 1 | Line 5 Straights of Mackinac - West Loop | 15,044.06 | Master GW# 6000 |
| GWD6010 | 15,283.80 | 1 | Line 5 Straights of Mackinac - West Loop | 15,066.71 | Master GW# 6010 |
| GWD6020 | 15,311.31 | 1 | Line 5 Straights of Mackinac - West Loop | 15,093.99 | Master GW# 6020 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD6030 | 15,338.41 | 1 | Line 5 Straights of Mackinac - West Loop | 15,120.87 | Master GW# 6030 |
| GWD6040 | 15,365.86 | 1 | Line 5 Straights of Mackinac - West Loop | 15,148.15 | Master GW# 6040 |
| GWD6050 | 15,393.56 | 1 | Line 5 Straights of Mackinac - West Loop | 15,175.36 | Master GW# 6050 |
| GWD6060 | 15,419.97 | 1 | Line 5 Straights of Mackinac - West Loop | 15,201.89 | Master GW# 6060 |
| GWD6070 | 15,442.30 | 1 | Line 5 Straights of Mackinac - West Loop | 15,223.95 | Master GW# 6070 |
| GWD6080 | 15,464.57 | 1 | Line 5 Straights of Mackinac - West Loop | 15,245.94 | Master GW# 6080 |
| GWD6090 | 15,485.63 | 1 | Line 5 Straights of Mackinac - West Loop | 15,266.73 | Master GW# 6090 |
| GWD6100 | 15,511.91 | 1 | Line 5 Straights of Mackinac - West Loop | 15,292.61 | Master GW# 6100 |
| GWD6110 | 15,532.15 | 1 | Line 5 Straights of Mackinac - West Loop | 15,312.91 | Master GW# 6110 |
| GWD6120 | 15,551.62 | 1 | Line 5 Straights of Mackinac - West Loop | 15,332.12 | Master GW# 6120 |
| GWD6130 | 15,577.35 | 1 | Line 5 Straights of Mackinac - West Loop | 15,357.80 | Master GW# 6130 |
| GWD6140 | 15,603.57 | 1 | Line 5 Straights of Mackinac - West Loop | 15,383.83 | Master GW# 6140 |
| GWD6150 | 15,628.79 | 1 | Line 5 Straights of Mackinac - West Loop | 15,408.93 | Master GW# 6150 |
| GWD6160 | 15,655.55 | 1 | Line 5 Straights of Mackinac - West Loop | 15,435.47 | Master GW# 6160 |
| GWD6170 | 15,682.25 | 1 | Line 5 Straights of Mackinac - West Loop | 15,461.82 | Master GW# 6170 |
| GWD6180 | 15,708.60 | 1 | Line 5 Straights of Mackinac - West Loop | 15,488.13 | Master GW# 6180 |
| GWD6190 | 15,735.16 | 1 | Line 5 Straights of Mackinac - West Loop | 15,514.58 | Master GW# 6190 |
| GWD6200 | 15,761.42 | 1 | Line 5 Straights of Mackinac - West Loop | 15,540.57 | Master GW# 6200 |
| GWD6210 | 15,786.97 | 1 | Line 5 Straights of Mackinac - West Loop | 15,565.84 | Master GW# 6210 |
| GWD6220 | 15,814.63 | 1 | Line 5 Straights of Mackinac - West Loop | 15,593.47 | Master GW# 6220 |
| GWD6230 | 15,842.68 | 1 | Line 5 Straights of Mackinac - West Loop | 15,621.20 | Master GW# 6230 |
| GWD6240 | 15,868.61 | 1 | Line 5 Straights of Mackinac - West Loop | 15,647.00 | Master GW# 6240 |
| GWD6250 | 15,895.98 | 1 | Line 5 Straights of Mackinac - West Loop | 15,674.17 | Master GW# 6250 |
| GWD6260 | 15,924.08 | 1 | Line 5 Straights of Mackinac - West Loop | 15,702.33 | Master GW# 6260 |
| GWD6270 | 15,951.77 | 1 | Line 5 Straights of Mackinac - West Loop | 15,729.90 | Master GW# 6270 |
| GWD6280 | 15,978.26 | 1 | Line 5 Straights of Mackinac - West Loop | 15,756.19 | Master GW# 6280 |
| GWD6290 | 16,005.13 | 1 | Line 5 Straights of Mackinac - West Loop | 15,782.90 | Master GW# 6290 |
| GWD6300 | 16,029.39 | 1 | Line 5 Straights of Mackinac - West Loop | 15,807.02 | Master GW# 6300 |
| GWD6310 | 16,056.47 | 1 | Line 5 Straights of Mackinac - West Loop | 15,833.58 | Master GW# 6310 |
| GWD6320 | 16,084.99 | 1 | Line 5 Straights of Mackinac - West Loop | 15,861.88 | Master GW# 6320 |



ENBDNR0001306

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD6330 | 16,111.79 | 1 | Line 5 Straights of Mackinac - West Loop | 15,888.27 | Master GW# 6330 |
| GWD6340 | 16,137.64 | 1 | Line 5 Straights of Mackinac - West Loop | 15,914.14 | Master GW# 6340 |
| GWD6350 | 16,164.19 | 1 | Line 5 Straights of Mackinac - West Loop | 15,940.15 | Master GW# 6350 |
| GWD6360 | 16,191.61 | 1 | Line 5 Straights of Mackinac - West Loop | 15,967.13 | Master GW# 6360 |
| GWD6370 | 16,216.90 | 1 | Line 5 Straights of Mackinac - West Loop | 15,992.90 | Master GW# 6370 |
| GWD6380 | 16,236.97 | 1 | Line 5 Straights of Mackinac - West Loop | 16,012.27 | Master GW# 6380 |
| GWD6390 | 16,263.56 | 1 | Line 5 Straights of Mackinac - West Loop | 16,038.42 | Master GW# 6390 |
| GWD6400 | 16,289.19 | 1 | Line 5 Straights of Mackinac - West Loop | 16,063.45 | Master GW# 6400 |
| GWD6410 | 16,316.13 | 1 | Line 5 Straights of Mackinac - West Loop | 16,089.98 | Master GW# 6410 |
| GWD6420 | 16,342.03 | 1 | Line 5 Straights of Mackinac - West Loop | 16,115.89 | Master GW# 6420 |
| GWD6430 | 16,369.88 | 1 | Line 5 Straights of Mackinac - West Loop | 16,143.22 | Master GW# 6430 |
| GWD6440 | 16,397.86 | 1 | Line 5 Straights of Mackinac - West Loop | 16,170.70 | Master GW# 6440 |
| GWD6450 | 16,425.28 | 1 | Line 5 Straights of Mackinac - West Loop | 16,197.77 | Master GW# 6450 |
| GWD6460 | 16,453.16 | 1 | Line 5 Straights of Mackinac - West Loop | 16,225.48 | Master GW# 6460 |
| GWD6470 | 16,476.76 | 1 | Line 5 Straights of Mackinac - West Loop | 16,249.05 | Master GW# 6470 |
| GWD6480 | 16,500.90 | 1 | Line 5 Straights of Mackinac - West Loop | 16,273.08 | Master GW# 6480 |
| GWD6490 | 16,528.58 | 1 | Line 5 Straights of Mackinac - West Loop | 16,300.43 | Master GW# 6490 |
| GWD6500 | 16,550.26 | 1 | Line 5 Straights of Mackinac - West Loop | 16,322.12 | Master GW# 6500 |
| GWD6510 | 16,574.58 | 1 | Line 5 Straights of Mackinac - West Loop | 16,346.07 | Master GW# 6510 |
| GWD6520 | 16,599.87 | 1 | Line 5 Straights of Mackinac - West Loop | 16,371.20 | Master GW# 6520 |
| GWD6530 | 16,619.38 | 1 | Line 5 Straights of Mackinac - West Loop | 16,390.71 | Master GW# 6530 |
| GWD6540 | 16,645.75 | 1 | Line 5 Straights of Mackinac - West Loop | 16,416.70 | Master GW# 6540 |
| GWD6550 | 16,671.02 | 1 | Line 5 Straights of Mackinac - West Loop | 16,441.80 | Master GW# 6550 |
| GWD6560 | 16,695.87 | 1 | Line 5 Straights of Mackinac - West Loop | 16,466.41 | Master GW# 6560 |
| GWD6570 | 16,723.98 | 1 | Line 5 Straights of Mackinac - West Loop | 16,494.13 | Master GW# 6570 |
| GWD6580 | 16,748.58 | 1 | Line 5 Straights of Mackinac - West Loop | 16,518.27 | Master GW# 6580 |
| GWD6590 | 16,774.75 | 1 | Line 5 Straights of Mackinac - West Loop | 16,544.37 | Master GW# 6590 |
| GWD6600 | 16,802.28 | 1 | Line 5 Straights of Mackinac - West Loop | 16,571.43 | Master GW# 6600 |
| GWD6610 | 16,828.19 | 1 | Line 5 Straights of Mackinac - West Loop | 16,597.08 | Master GW# 6610 |
| GWD6620 | 16,852.61 | 1 | Line 5 Straights of Mackinac - West Loop | 16,621.46 | Master GW# 6620 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD6630 | 16,880.57 | 1 | Line 5 Straights of Mackinac - West Loop | 16,648.88 | Master GW# 6630 |
| GWD6640 | 16,906.80 | 1 | Line 5 Straights of Mackinac - West Loop | 16,674.72 | Master GW# 6640 |
| GWD6650 | 16,930.83 | 1 | Line 5 Straights of Mackinac - West Loop | 16,698.34 | Master GW# 6650 |
| GWD6660 | 16,952.15 | 1 | Line 5 Straights of Mackinac - West Loop | 16,719.48 | Master GW# 6660 |
| GWD6670 | 16,974.47 | 1 | Line 5 Straights of Mackinac - West Loop | 16,741.77 | Master GW# 6670 |
| GWD6680 | 16,997.15 | 1 | Line 5 Straights of Mackinac - West Loop | 16,764.08 | Master GW# 6680 |
| GWD6690 | 17,021.08 | 1 | Line 5 Straights of Mackinac - West Loop | 16,787.92 | Master GW# 6690 |
| GWD6700 | 17,048.65 | 1 | Line 5 Straights of Mackinac - West Loop | 16,815.40 | Master GW# 6700 |
| GWD6710 | 17,075.06 | 1 | Line 5 Straights of Mackinac - West Loop | 16,841.55 | Master GW# 6710 |
| GWD6720 | 17,099.12 | 1 | Line 5 Straights of Mackinac - West Loop | 16,865.28 | Master GW# 6720 |
| GWD6730 | 17,120.42 | 1 | Line 5 Straights of Mackinac - West Loop | 16,886.44 | Master GW# 6730 |
| GWD6740 | 17,148.00 | 1 | Line 5 Straights of Mackinac - West Loop | 16,913.57 | Master GW# 6740 |
| GWD6750 | 17,175.69 | 1 | Line 5 Straights of Mackinac - West Loop | 16,941.13 | Master GW# 6750 |
| GWD6760 | 17,201.66 | 1 | Line 5 Straights of Mackinac - West Loop | 16,966.99 | Master GW# 6760 |
| GWD6770 | 17,229.84 | 1 | Line 5 Straights of Mackinac - West Loop | 16,994.67 | Master GW# 6770 |
| GWD6780 | 17,257.70 | 1 | Line 5 Straights of Mackinac - West Loop | 17,022.12 | Master GW# 6780 |
| GWD6790 | 17,284.36 | 1 | Line 5 Straights of Mackinac - West Loop | 17,048.66 | Master GW# 6790 |
| GWD6800 | 17,310.47 | 1 | Line 5 Straights of Mackinac - West Loop | 17,074.60 | Master GW# 6800 |
| GWD6810 | 17,337.52 | 1 | Line 5 Straights of Mackinac - West Loop | 17,101.69 | Master GW# 6810 |
| GWD6820 | 17,365.18 | 1 | Line 5 Straights of Mackinac - West Loop | 17,128.92 | Master GW# 6820 |
| GWD6830 | 17,390.90 | 1 | Line 5 Straights of Mackinac - West Loop | 17,155.00 | Master GW# 6830 |
| GWD6840 | 17,417.16 | 1 | Line 5 Straights of Mackinac - West Loop | 17,181.22 | Master GW# 6840 |
| GWD6850 | 17,443.60 | 1 | Line 5 Straights of Mackinac - West Loop | 17,207.65 | Master GW# 6850 |
| GWD6860 | 17,469.61 | 1 | Line 5 Straights of Mackinac - West Loop | 17,233.18 | Master GW# 6860 |
| GWD6870 | 17,496.22 | 1 | Line 5 Straights of Mackinac - West Loop | 17,259.61 | Master GW# 6870 |
| GWD6880 | 17,523.21 | 1 | Line 5 Straights of Mackinac - West Loop | 17,286.34 | Master GW# 6880 |
| GWD6890 | 17,551.45 | 1 | Line 5 Straights of Mackinac - West Loop | 17,314.19 | Master GW# 6890 |
| GWD6900 | 17,578.62 | 1 | Line 5 Straights of Mackinac - West Loop | 17,341.39 | Master GW# 6900 |
| GWD6910 | 17,604.71 | 1 | Line 5 Straights of Mackinac - West Loop | 17,367.82 | Master GW# 6910 |
| GWD6920 | 17,631.92 | 1 | Line 5 Straights of Mackinac - West Loop | 17,394.67 | Master GW# 6920 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD6930 | 17,659.16 | 1 | Line 5 Straights of Mackinac - West Loop | 17,420.85 | Master GW# 6930 |
| GWD6940 | 17,686.75 | 1 | Line 5 Straights of Mackinac - West Loop | 17,447.89 | Master GW# 6940 |
| GWD6950 | 17,713.27 | 1 | Line 5 Straights of Mackinac - West Loop | 17,474.42 | Master GW# 6950 |
| GWD6960 | 17,739.97 | 1 | Line 5 Straights of Mackinac - West Loop | 17,500.68 | Master GW# 6960 |
| GWD6970 | 17,766.76 | 1 | Line 5 Straights of Mackinac - West Loop | 17,527.23 | Master GW# 6970 |
| GWD6980 | 17,793.92 | 1 | Line 5 Straights of Mackinac - West Loop | 17,554.29 | Master GW# 6980 |
| GWD6990 | 17,821.18 | 1 | Line 5 Straights of Mackinac - West Loop | 17,580.93 | Master GW# 6990 |
| GWD7000 | 17,848.54 | 1 | Line 5 Straights of Mackinac - West Loop | 17,607.86 | Master GW# 7000 |
| GWD7010 | 17,874.94 | 1 | Line 5 Straights of Mackinac - West Loop | 17,633.99 | Master GW# 7010 |
| GWD7020 | 17,901.15 | 1 | Line 5 Straights of Mackinac - West Loop | 17,659.68 | Master GW# 7020 |
| GWD7030 | 17,928.47 | 1 | Line 5 Straights of Mackinac - West Loop | 17,687.04 | Master GW# 7030 |
| GWD7040 | 17,954.21 | 1 | Line 5 Straights of Mackinac - West Loop | 17,712.18 | Master GW# 7040 |
| GWD7050 | 17,980.70 | 1 | Line 5 Straights of Mackinac - West Loop | 17,738.50 | Master GW# 7050 |
| GWD7060 | 18,005.00 | 1 | Line 5 Straights of Mackinac - West Loop | 17,762.82 | Master GW# 7060 |
| GWD7070 | 18,031.25 | 1 | Line 5 Straights of Mackinac - West Loop | 17,788.92 | Master GW# 7070 |
| GWD7080 | 18,054.30 | 1 | Line 5 Straights of Mackinac - West Loop | 17,811.79 | Master GW# 7080 |
| GWD7090 | 18,080.71 | 1 | Line 5 Straights of Mackinac - West Loop | 17,838.15 | Master GW# 7090 |
| GWD7100 | 18,107.68 | 1 | Line 5 Straights of Mackinac - West Loop | 17,864.86 | Master GW# 7100 |
| GWD7110 | 18,132.51 | 1 | Line 5 Straights of Mackinac - West Loop | 17,889.29 | Master GW# 7110 |
| GWD7120 | 18,159.87 | 1 | Line 5 Straights of Mackinac - West Loop | 17,916.24 | Master GW# 7120 |
| GWD7130 | 18,187.92 | 1 | Line 5 Straights of Mackinac - West Loop | 17,944.15 | Master GW# 7130 |
| GWD7140 | 18,213.15 | 1 | Line 5 Straights of Mackinac - West Loop | 17,968.86 | Master GW# 7140 |
| GWD7150 | 18,239.84 | 1 | Line 5 Straights of Mackinac - West Loop | 17,995.40 | Master GW# 7150 |
| GWD7160 | 18,266.80 | 1 | Line 5 Straights of Mackinac - West Loop | 18,021.90 | Master GW# 7160 |
| GWD7170 | 18,293.76 | 1 | Line 5 Straights of Mackinac - West Loop | 18,048.69 | Master GW# 7170 |
| GWD7180 | 18,315.10 | 1 | Line 5 Straights of Mackinac - West Loop | 18,069.85 | Master GW# 7180 |
| GWD7190 | 18,339.96 | 1 | Line 5 Straights of Mackinac - West Loop | 18,095.37 | Master GW# 7190 |
| GWD7200 | 18,363.66 | 1 | Line 5 Straights of Mackinac - West Loop | 18,118.38 | Master GW# 7200 |
| GWD7210 | 18,391.59 | 1 | Line 5 Straights of Mackinac - West Loop | 18,145.34 | Master GW# 7210 |
| GWD7220 | 18,417.00 | 1 | Line 5 Straights of Mackinac - West Loop | 18,170.47 | Master GW# 7220 |



ENBDNR0001309

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD7230 | 18,445.09 | 1 | Line 5 Straights of Mackinac - West Loop | 18,198.14 | Master GW# 7230 |
| GWD7240 | 18,470.88 | 1 | Line 5 Straights of Mackinac - West Loop | 18,223.58 | Master GW# 7240 |
| GWD7250 | 18,498.50 | 1 | Line 5 Straights of Mackinac - West Loop | 18,250.75 | Master GW# 7250 |
| GWD7260 | 18,524.14 | 1 | Line 5 Straights of Mackinac - West Loop | 18,276.28 | Master GW# 7260 |
| GWD7270 | 18,550.55 | 1 | Line 5 Straights of Mackinac - West Loop | 18,302.52 | Master GW# 7270 |
| GWD7280 | 18,579.17 | 1 | Line 5 Straights of Mackinac - West Loop | 18,330.70 | Master GW# 7280 |
| GWD7290 | 18,606.81 | 1 | Line 5 Straights of Mackinac - West Loop | 18,357.77 | Master GW# 7290 |
| GWD7300 | 18,634.39 | 1 | Line 5 Straights of Mackinac - West Loop | 18,385.09 | Master GW# 7300 |
| GWD7310 | 18,658.64 | 1 | Line 5 Straights of Mackinac - West Loop | 18,408.85 | Master GW# 7310 |
| GWD7320 | 18,686.46 | 1 | Line 5 Straights of Mackinac - West Loop | 18,436.47 | Master GW# 7320 |
| GWD7330 | 18,711.45 | 1 | Line 5 Straights of Mackinac - West Loop | 18,461.18 | Master GW# 7330 |
| GWD7340 | 18,737.96 | 1 | Line 5 Straights of Mackinac - West Loop | 18,487.54 | Master GW# 7340 |
| GWD7350 | 18,765.24 | 1 | Line 5 Straights of Mackinac - West Loop | 18,514.81 | Master GW# 7350 |
| GWD7360 | 18,789.90 | 1 | Line 5 Straights of Mackinac - West Loop | 18,539.20 | Master GW# 7360 |
| GWD7370 | 18,815.03 | 1 | Line 5 Straights of Mackinac - West Loop | 18,564.30 | Master GW# 7370 |
| GWD7380 | 18,839.88 | 1 | Line 5 Straights of Mackinac - West Loop | 18,588.95 | Master GW# 7380 |
| GWD7390 | 18,865.05 | 1 | Line 5 Straights of Mackinac - West Loop | 18,613.77 | Master GW# 7390 |
| GWD7400 | 18,891.54 | 1 | Line 5 Straights of Mackinac - West Loop | 18,640.20 | Master GW# 7400 |
| GWD7410 | 18,914.08 | 1 | Line 5 Straights of Mackinac - West Loop | 18,662.51 | Master GW# 7410 |
| GWD7420 | 18,941.77 | 1 | Line 5 Straights of Mackinac - West Loop | 18,689.82 | Master GW# 7420 |
| GWD7430 | 18,968.06 | 1 | Line 5 Straights of Mackinac - West Loop | 18,715.92 | Master GW# 7430 |
| GWD7440 | 18,994.61 | 1 | Line 5 Straights of Mackinac - West Loop | 18,742.44 | Master GW# 7440 |
| GWD7450 | 19,018.25 | 1 | Line 5 Straights of Mackinac - West Loop | 18,766.26 | Master GW# 7450 |
| GWD7460 | 19,045.93 | 1 | Line 5 Straights of Mackinac - West Loop | 18,793.74 | Master GW# 7460 |
| GWD7470 | 19,070.81 | 1 | Line 5 Straights of Mackinac - West Loop | 18,818.74 | Master GW# 7470 |
| GWD7480 | 19,097.48 | 1 | Line 5 Straights of Mackinac - West Loop | 18,844.92 | Master GW# 7480 |
| GWD7490 | 19,123.19 | 1 | Line 5 Straights of Mackinac - West Loop | 18,870.31 | Master GW# 7490 |
| GWD7500 | 19,150.95 | 1 | Line 5 Straights of Mackinac - West Loop | 18,897.64 | Master GW# 7500 |
| GWD7510 | 19,171.23 | 1 | Line 5 Straights of Mackinac - West Loop | 18,917.99 | Master GW# 7510 |
| GWD7520 | 19,197.98 | 1 | Line 5 Straights of Mackinac - West Loop | 18,944.71 | Master GW# 7520 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD7530 | 19,223.94 | 1 | Line 5 Straights of Mackinac - West Loop | 18,969.93 | Master GW# 7530 |
| GWD7540 | 19,251.02 | 1 | Line 5 Straights of Mackinac - West Loop | 18,997.15 | Master GW# 7540 |
| GWD7550 | 19,271.08 | 1 | Line 5 Straights of Mackinac - West Loop | 19,016.80 | Master GW# 7550 |
| GWD7560 | 19,298.86 | 1 | Line 5 Straights of Mackinac - West Loop | 19,043.99 | Master GW# 7560 |
| GWD7570 | 19,325.49 | 1 | Line 5 Straights of Mackinac - West Loop | 19,070.60 | Master GW# 7570 |
| GWD7580 | 19,350.59 | 1 | Line 5 Straights of Mackinac - West Loop | 19,095.21 | Master GW# 7580 |
| GWD7590 | 19,377.57 | 1 | Line 5 Straights of Mackinac - West Loop | 19,121.98 | Master GW# 7590 |
| GWD7600 | 19,401.98 | 1 | Line 5 Straights of Mackinac - West Loop | 19,146.04 | Master GW# 7600 |
| GWD7610 | 19,428.36 | 1 | Line 5 Straights of Mackinac - West Loop | 19,172.04 | Master GW# 7610 |
| GWD7620 | 19,451.10 | 1 | Line 5 Straights of Mackinac - West Loop | 19,194.38 | Master GW# 7620 |
| GWD7630 | 19,479.69 | 1 | Line 5 Straights of Mackinac - West Loop | 19,222.68 | Master GW# 7630 |
| GWD7640 | 19,505.75 | 1 | Line 5 Straights of Mackinac - West Loop | 19,248.71 | Master GW# 7640 |
| GWD7650 | 19,534.05 | 1 | Line 5 Straights of Mackinac - West Loop | 19,276.27 | Master GW# 7650 |
| GWD7660 | 19,557.33 | 1 | Line 5 Straights of Mackinac - West Loop | 19,299.25 | Master GW# 7660 |
| GWD7670 | 19,581.23 | 1 | Line 5 Straights of Mackinac - West Loop | 19,322.89 | Master GW# 7670 |
| GWD7680 | 19,608.00 | 1 | Line 5 Straights of Mackinac - West Loop | 19,349.26 | Master GW# 7680 |
| GWD7690 | 19,628.64 | 1 | Line 5 Straights of Mackinac - West Loop | 19,369.68 | Master GW# 7690 |
| GWD7700 | 19,651.53 | 1 | Line 5 Straights of Mackinac - West Loop | 19,392.10 | Master GW# 7700 |
| GWD7710 | 19,674.49 | 1 | Line 5 Straights of Mackinac - West Loop | 19,415.24 | Master GW# 7710 |
| GWD7720 | 19,700.70 | 1 | Line 5 Straights of Mackinac - West Loop | 19,441.74 | Master GW# 7720 |
| GWD7730 | 19,728.94 | 1 | Line 5 Straights of Mackinac - West Loop | 19,468.43 | Master GW# 7730 |
| GWD7740 | 19,751.43 | 1 | Line 5 Straights of Mackinac - West Loop | 19,490.87 | Master GW# 7740 |
| GWD7750 | 19,779.17 | 1 | Line 5 Straights of Mackinac - West Loop | 19,518.01 | Master GW# 7750 |
| GWD7760 | 19,807.33 | 1 | Line 5 Straights of Mackinac - West Loop | 19,545.87 | Master GW# 7760 |
| GWD7770 | 19,832.84 | 1 | Line 5 Straights of Mackinac - West Loop | 19,570.99 | Master GW# 7770 |
| GWD7780 | 19,859.24 | 1 | Line 5 Straights of Mackinac - West Loop | 19,597.40 | Master GW# 7780 |
| GWD7790 | 19,883.66 | 1 | Line 5 Straights of Mackinac - West Loop | 19,621.80 | Master GW# 7790 |
| GWD7800 | 19,910.13 | 1 | Line 5 Straights of Mackinac - West Loop | 19,647.93 | Master GW# 7800 |
| GWD7810 | 19,936.53 | 1 | Line 5 Straights of Mackinac - West Loop | 19,674.03 | Master GW# 7810 |
| GWD7820 | 19,964.32 | 1 | Line 5 Straights of Mackinac - West Loop | 19,701.84 | Master GW# 7820 |

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD7830 | 19,989.12 | 1 | Line 5 Straights of Mackinac - West Loop | 19,726.45 | Master GW# 7830 |
| GWD7840 | 20,016.29 | 1 | Line 5 Straights of Mackinac - West Loop | 19,753.51 | Master GW# 7840 |
| GWD7850 | 20,041.72 | 1 | Line 5 Straights of Mackinac - West Loop | 19,778.35 | Master GW# 7850 |
| GWD7860 | 20,065.26 | 1 | Line 5 Straights of Mackinac - West Loop | 19,801.91 | Master GW# 7860 |
| GWD7870 | 20,092.26 | 1 | Line 5 Straights of Mackinac - West Loop | 19,828.61 | Master GW# 7870 |
| GWD7880 | 20,115.49 | 1 | Line 5 Straights of Mackinac - West Loop | 19,851.67 | Master GW# 7880 |
| GWD7890 | 20,137.06 | 1 | Line 5 Straights of Mackinac - West Loop | 19,873.21 | Master GW# 7890 |
| GWD7900 | 20,163.26 | 1 | Line 5 Straights of Mackinac - West Loop | 19,899.46 | Master GW# 7900 |
| GWD7910 | 20,186.95 | 1 | Line 5 Straights of Mackinac - West Loop | 19,923.03 | Master GW# 7910 |
| GWD7920 | 20,213.80 | 1 | Line 5 Straights of Mackinac - West Loop | 19,949.19 | Master GW# 7920 |
| GWD7930 | 20,240.54 | 1 | Line 5 Straights of Mackinac - West Loop | 19,976.17 | Master GW# 7930 |
| GWD7940 | 20,265.94 | 1 | Line 5 Straights of Mackinac - West Loop | 20,000.95 | Master GW# 7940 |
| GWD7950 | 20,293.48 | 1 | Line 5 Straights of Mackinac - West Loop | 20,028.33 | Master GW# 7950 |
| GWD7960 | 20,320.03 | 1 | Line 5 Straights of Mackinac - West Loop | 20,054.28 | Master GW# 7960 |
| GWD7970 | 20,347.21 | 1 | Line 5 Straights of Mackinac - West Loop | 20,081.25 | Master GW# 7970 |
| GWD7980 | 20,374.38 | 1 | Line 5 Straights of Mackinac - West Loop | 20,108.21 | Master GW# 7980 |
| GWD7990 | 20,402.50 | 1 | Line 5 Straights of Mackinac - West Loop | 20,136.01 | Master GW# 7990 |
| GWD8000 | 20,427.70 | 1 | Line 5 Straights of Mackinac - West Loop | 20,160.80 | Master GW# 8000 |
| GWD8010 | 20,454.95 | 1 | Line 5 Straights of Mackinac - West Loop | 20,187.77 | Master GW# 8010 |
| GWD8020 | 20,481.50 | 1 | Line 5 Straights of Mackinac - West Loop | 20,214.11 | Master GW# 8020 |
| GWD8030 | 20,509.52 | 1 | Line 5 Straights of Mackinac - West Loop | 20,241.59 | Master GW# 8030 |
| GWD8040 | 20,537.03 | 1 | Line 5 Straights of Mackinac - West Loop | 20,268.36 | Master GW# 8040 |
| GWD8050 | 20,563.88 | 1 | Line 5 Straights of Mackinac - West Loop | 20,295.16 | Master GW# 8050 |
| GWD8060 | 20,589.40 | 1 | Line 5 Straights of Mackinac - West Loop | 20,320.26 | Master GW# 8060 |
| GWD8070 | 20,615.02 | 1 | Line 5 Straights of Mackinac - West Loop | 20,345.78 | Master GW# 8070 |
| GWD8080 | 20,641.15 | 1 | Line 5 Straights of Mackinac - West Loop | 20,371.64 | Master GW# 8080 |
| GWD8090 | 20,668.83 | 1 | Line 5 Straights of Mackinac - West Loop | 20,399.08 | Master GW# 8090 |
| GWD8100 | 20,695.40 | 1 | Line 5 Straights of Mackinac - West Loop | 20,425.43 | Master GW# 8100 |
| GWD8110 | 20,722.84 | 1 | Line 5 Straights of Mackinac - West Loop | 20,452.61 | Master GW# 8110 |
| GWD8120 | 20,750.09 | 1 | Line 5 Straights of Mackinac - West Loop | 20,479.38 | Master GW# 8120 |



ENBDNR0001312

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

BAKER HUGHES

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD8130 | 20,776.20 | 1 | Line 5 Straights of Mackinac - West Loop | 20,505.61 | Master GW# 8130 |
| GWD8140 | 20,796.80 | 1 | Line 5 Straights of Mackinac - West Loop | 20,526.15 | Master GW# 8140 |
| GWD8150 | 20,820.34 | 1 | Line 5 Straights of Mackinac - West Loop | 20,549.51 | Master GW# 8150 |
| GWD8160 | 20,847.46 | 1 | Line 5 Straights of Mackinac - West Loop | 20,576.29 | Master GW# 8160 |
| GWD8170 | 20,869.08 | 1 | Line 5 Straights of Mackinac - West Loop | 20,597.62 | Master GW# 8170 |
| GWD8180 | 20,896.99 | 1 | Line 5 Straights of Mackinac - West Loop | 20,625.21 | Master GW# 8180 |
| GWD8190 | 20,923.27 | 1 | Line 5 Straights of Mackinac - West Loop | 20,651.16 | Master GW# 8190 |
| GWD8200 | 20,949.84 | 1 | Line 5 Straights of Mackinac - West Loop | 20,677.68 | Master GW# 8200 |
| GWD8210 | 20,976.88 | 1 | Line 5 Straights of Mackinac - West Loop | 20,704.53 | Master GW# 8210 |
| GWD8220 | 21,004.15 | 1 | Line 5 Straights of Mackinac - West Loop | 20,731.73 | Master GW# 8220 |
| GWD8230 | 21,027.96 | 1 | Line 5 Straights of Mackinac - West Loop | 20,755.22 | Master GW# 8230 |
| GWD8240 | 21,052.25 | 1 | Line 5 Straights of Mackinac - West Loop | 20,779.44 | Master GW# 8240 |
| GWD8250 | 21,079.06 | 1 | Line 5 Straights of Mackinac - West Loop | 20,805.60 | Master GW# 8250 |
| GWD8260 | 21,101.25 | 1 | Line 5 Straights of Mackinac - West Loop | 20,827.42 | Master GW# 8260 |
| GWD8270 | 21,128.01 | 1 | Line 5 Straights of Mackinac - West Loop | 20,853.74 | Master GW# 8270 |
| GWD8280 | 21,155.11 | 1 | Line 5 Straights of Mackinac - West Loop | 20,880.81 | Master GW# 8280 |
| GWD8290 | 21,183.06 | 1 | Line 5 Straights of Mackinac - West Loop | 20,908.21 | Master GW# 8290 |
| GWD8300 | 21,207.40 | 1 | Line 5 Straights of Mackinac - West Loop | 20,932.04 | Master GW# 8300 |
| GWD8310 | 21,233.64 | 1 | Line 5 Straights of Mackinac - West Loop | 20,959.66 | Master GW# 8310 |
| GWD8320 | 21,262.35 | 1 | Line 5 Straights of Mackinac - West Loop | 20,986.50 | Master GW# 8320 |
| GWD8330 | 21,286.48 | 1 | Line 5 Straights of Mackinac - West Loop | 21,010.13 | Master GW# 8330 |
| GWD8340 | 21,313.34 | 1 | Line 5 Straights of Mackinac - West Loop | 21,037.02 | Master GW# 8340 |
| GWD8350 | 21,338.04 | 1 | Line 5 Straights of Mackinac - West Loop | 21,061.33 | Master GW# 8350 |
| GWD8360 | 21,365.20 | 1 | Line 5 Straights of Mackinac - West Loop | 21,088.56 | Master GW# 8360 |
| GWD8370 | 21,391.61 | 1 | Line 5 Straights of Mackinac - West Loop | 21,114.99 | Master GW# 8370 |
| GWD8380 | 21,415.48 | 1 | Line 5 Straights of Mackinac - West Loop | 21,138.65 | Master GW# 8380 |
| GWD8390 | 21,434.19 | 1 | Line 5 Straights of Mackinac - West Loop | 21,157.54 | Master GW# 8390 |
| GWD8400 | 21,461.85 | 1 | Line 5 Straights of Mackinac - West Loop | 21,185.23 | Master GW# 8400 |
| GWD8410 | 21,486.11 | 1 | Line 5 Straights of Mackinac - West Loop | 21,208.89 | Master GW# 8410 |
| GWD8420 | 21,511.54 | 1 | Line 5 Straights of Mackinac - West Loop | 21,234.08 | Master GW# 8420 |



ENBDNR0001313

# BHI - Enbridge Chainage Correlation Listing

Client: Enbridge Energy Limited Partnership
Project: NPS 20 GEOPIG Geometry Inspection
Run Date: July 30, 2013
Location: Line 5 Straights of Mackinac - West Loop
Projection: UTM
Datum: WGS 84
Zone: 16
C.M.: -87

| Feature Identifier | Absolute Chainage (ft) | Enbridge Area Number | Enbridge Area Name | Enbridge Chainage (ft) | Description |
|---|---|---|---|---|---|
| GWD8430 | 21,538.27 | 1 | Line 5 Straights of Mackinac - West Loop | 21,260.85 | Master GW# 8430 |
| GWD8440 | 21,561.29 | 1 | Line 5 Straights of Mackinac - West Loop | 21,283.76 | Master GW# 8440 |
| GWD8450 | 21,584.57 | 1 | Line 5 Straights of Mackinac - West Loop | 21,306.63 | Master GW# 8450 |
| GWD8460 | 21,611.86 | 1 | Line 5 Straights of Mackinac - West Loop | 21,333.81 | Master GW# 8460 |
| GWD8470 | 21,637.10 | 1 | Line 5 Straights of Mackinac - West Loop | 21,358.81 | Master GW# 8470 |
| GWD8480 | 21,662.23 | 1 | Line 5 Straights of Mackinac - West Loop | 21,383.50 | Master GW# 8480 |
| GWD8490 | 21,689.92 | 1 | Line 5 Straights of Mackinac - West Loop | 21,410.83 | Master GW# 8490 |
| GWD8500 | 21,716.95 | 1 | Line 5 Straights of Mackinac - West Loop | 21,437.27 | Master GW# 8500 |
| GWD8510 | 21,743.33 | 1 | Line 5 Straights of Mackinac - West Loop | 21,463.13 | Master GW# 8510 |
| GWD8520 | 21,771.51 | 1 | Line 5 Straights of Mackinac - West Loop | 21,491.11 | Master GW# 8520 |
| GWD8530 | 21,797.65 | 1 | Line 5 Straights of Mackinac - West Loop | 21,516.85 | Master GW# 8530 |
| GWD8540 | 21,800.43 | 1 | Line 5 Straights of Mackinac - West Loop | 21,519.68 | Master GW# 8540 |
| GWD8545 | 21,801.83 | 1 | Line 5 Straights of Mackinac - West Loop | 21,521.17 | Master GW# 8545 |
| GWD8555 | 21,802.90 | 1 | Line 5 Straights of Mackinac - West Loop | 21,522.18 | Master GW# 8555 |
| GWD8560 | 21,804.36 | 1 | Line 5 Straights of Mackinac - West Loop | 21,523.36 | Master GW# 8560 |
| GWD8570 | 21,824.96 | 1 | Line 5 Straights of Mackinac - West Loop | 21,544.33 | Master GW# 8570 |
| GWD8580 | 21,827.78 | 1 | Line 5 Straights of Mackinac - West Loop | 21,546.53 | Master GW# 8580 |
| GWD8590 | 21,830.18 | 1 | Line 5 Straights of Mackinac - West Loop | 21,549.50 | Master GW# 8590 |
| GWD8620 | 21,833.55 | 1 | Line 5 Straights of Mackinac - West Loop | 21,551.40 | Master GW# 8620 |
| GWD8630 | 21,855.20 | 1 | Line 5 Straights of Mackinac - West Loop | 21,573.85 | Master GW# 8630 |
| GWD8640 | 21,865.19 | 1 | Line 5 Straights of Mackinac - West Loop | 21,583.88 | Master GW# 8640 |
| GWD8660 | 21,884.73 | 1 | Line 5 Straights of Mackinac - West Loop | 21,603.55 | Master GW# 8641 |