



## NOAA Tide Predictions

### Point Grenville, WA,2020

The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

**Station Types:** The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

**Harmonic** - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

**Subordinate** - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

**Disclaimer:** The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



Point Grenville, WA,2020

Times and Heights of High and Low Waters

| January            |          |                    |          | February           |          |                    |         | March              |          |                    |         |
|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|---------|--------------------|----------|--------------------|---------|
| Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height  | Time               | Height   | Time               | Height  |
| h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm   | h m                | ft cm    | h m                | ft cm   |
| <b>1</b> 04:54 AM  | 7.4 226  | <b>16</b> 04:49 AM | 8.5 259  | <b>1</b> 05:12 AM  | 7.8 238  | <b>16</b> 05:50 AM | 8.8 268 | <b>1</b> 04:07 AM  | 7.9 241  | <b>16</b> 06:12 AM | 8.3 253 |
| 10:35 AM           | 3.6 110  | 10:52 AM           | 2.3 70   | 11:44 AM           | 2.6 79   | 12:48 PM           | 1.0 30  | 10:53 AM           | 1.8 55   | 01:16 PM           | 0.7 21  |
| W 04:16 PM         | 6.8 207  | Th 04:45 PM        | 7.3 223  | Sa 05:46 PM        | 5.9 180  | Su 07:14 PM        | 6.2 189 | Su 05:13 PM        | 6.0 183  | M 08:00 PM         | 6.2 189 |
| 10:42 PM           | 1.5 46   | 10:55 PM           | 1.1 34   | 11:11 PM           | 3.0 91   |                    |         | 10:24 PM           | 3.3 101  |                    |         |
| <b>2</b> 05:38 AM  | 7.5 229  | <b>17</b> 05:39 AM | 8.7 265  | <b>2</b> 05:56 AM  | 7.9 241  | <b>17</b> 12:23 AM | 3.4 104 | <b>2</b> 04:50 AM  | 7.8 238  | <b>17</b> 01:04 AM | 3.7 113 |
| 11:37 AM           | 3.4 104  | 12:03 PM           | 1.9 58   | 12:49 PM           | 2.2 67   | 06:51 AM           | 8.6 262 | 11:55 AM           | 1.7 52   | 07:19 AM           | 7.9 241 |
| Th 05:19 PM        | 6.3 192  | F 06:01 PM         | 6.7 204  | Su 07:05 PM        | 5.7 174  | M 02:01 PM         | 0.8 24  | M 06:29 PM         | 5.7 174  | Tu 02:30 PM        | 0.8 24  |
| 11:26 PM           | 2.1 64   | 11:49 PM           | 2.0 61   |                    |          | 08:42 PM           | 6.2 189 | 11:18 PM           | 3.8 116  | 09:25 PM           | 6.2 189 |
| <b>3</b> 06:22 AM  | 7.6 232  | <b>18</b> 06:32 AM | 8.8 268  | <b>3</b> 12:06 AM  | 3.6 110  | <b>18</b> 01:38 AM | 3.8 116 | <b>3</b> 05:46 AM  | 7.8 238  | <b>18</b> 02:27 AM | 3.9 119 |
| 12:44 PM           | 3.0 91   | 01:16 PM           | 1.5 46   | 06:47 AM           | 8.0 244  | 07:57 AM           | 8.5 259 | 01:06 PM           | 1.5 46   | 08:33 AM           | 7.6 232 |
| F 06:33 PM         | 5.9 180  | Sa 07:25 PM        | 6.3 192  | M 01:56 PM         | 1.8 55   | Tu 03:09 PM        | 0.6 18  | Tu 07:52 PM        | 5.8 177  | W 03:41 PM         | 0.8 24  |
|                    |          |                    |          | 08:26 PM           | 5.8 177  | 09:58 PM           | 6.5 198 |                    |          | 10:35 PM           | 6.5 198 |
| <b>4</b> 12:15 AM  | 2.6 79   | <b>19</b> 12:50 AM | 2.7 82   | <b>4</b> 01:15 AM  | 4.0 122  | <b>19</b> 02:54 AM | 3.9 119 | <b>4</b> 12:36 AM  | 4.1 125  | <b>19</b> 03:47 AM | 3.7 113 |
| 07:07 AM           | 7.8 238  | 07:27 AM           | 9.0 274  | 08:40 AM           | 8.2 250  | 09:01 AM           | 8.5 259 | 06:55 AM           | 7.8 238  | 09:45 AM           | 7.6 232 |
| Sa 01:48 PM        | 2.5 76   | Su 02:26 PM        | 0.9 27   | Tu 02:57 PM        | 1.1 34   | W 04:06 PM         | 0.2 6   | W 02:16 PM         | 1.0 30   | Th 04:40 PM        | 0.6 18  |
| 07:49 PM           | 5.8 177  | 08:49 PM           | 6.3 192  | 09:38 PM           | 6.2 189  | 10:54 PM           | 6.9 210 | 09:07 PM           | 6.1 186  | 11:26 PM           | 6.9 210 |
| <b>5</b> 01:10 AM  | 3.1 94   | <b>20</b> 01:57 AM | 3.3 101  | <b>5</b> 02:26 AM  | 4.1 125  | <b>20</b> 03:58 AM | 3.6 110 | <b>5</b> 02:00 AM  | 4.1 125  | <b>20</b> 04:49 AM | 3.2 98  |
| 07:52 AM           | 8.1 247  | 08:23 AM           | 9.1 277  | 08:40 AM           | 8.5 259  | 09:58 AM           | 8.6 262 | 08:07 AM           | 8.0 244  | 10:46 AM           | 7.7 235 |
| Su 02:46 PM        | 1.8 55   | M 03:29 PM         | 0.3 9    | W 03:52 PM         | 0.4 12   | Th 04:54 PM        | 0.0 0   | Th 03:18 PM        | 0.4 12   | F 05:27 PM         | 0.4 12  |
| 09:02 PM           | 6.0 183  | 10:04 PM           | 6.6 201  | 10:35 PM           | 6.6 201  | 11:37 PM           | 7.2 219 | 10:05 PM           | 6.6 201  |                    |         |
| <b>6</b> 02:08 AM  | 3.5 107  | <b>21</b> 03:03 AM | 3.6 110  | <b>6</b> 03:31 AM  | 3.9 119  | <b>21</b> 04:50 AM | 3.2 98  | <b>6</b> 03:12 AM  | 3.7 113  | <b>21</b> 12:05 AM | 7.2 219 |
| 08:36 AM           | 8.5 259  | 09:17 AM           | 9.3 283  | 09:35 AM           | 9.0 274  | 10:49 AM           | 8.6 262 | 09:13 AM           | 8.5 259  | 05:38 AM           | 2.6 79  |
| M 03:36 PM         | 1.1 34   | Tu 04:23 PM        | -0.1 -3  | Th 04:40 PM        | -0.3 -9  | F 05:35 PM         | -0.1 -3 | F 04:11 PM         | -0.2 -6  | Sa 11:36 AM        | 7.8 238 |
| 10:05 PM           | 6.4 195  | 11:05 PM           | 7.0 213  | 11:23 PM           | 7.1 216  |                    |         | 10:52 PM           | 7.1 216  | 06:07 PM           | 0.4 12  |
| <b>7</b> 03:04 AM  | 3.7 113  | <b>22</b> 04:04 AM | 3.6 110  | <b>7</b> 04:27 AM  | 3.6 110  | <b>22</b> 12:13 AM | 7.5 229 | <b>7</b> 04:11 AM  | 3.0 91   | <b>22</b> 12:37 AM | 7.4 226 |
| 09:20 AM           | 8.8 268  | 10:09 AM           | 9.3 283  | 10:27 AM           | 9.4 287  | 05:35 AM           | 2.9 88  | 10:12 AM           | 8.9 271  | 06:19 AM           | 2.1 64  |
| Tu 04:22 PM        | 0.3 9    | W 05:10 PM         | -0.5 -15 | F 05:26 PM         | -0.9 -27 | Sa 11:32 AM        | 8.7 265 | Sa 04:59 PM        | -0.7 -21 | Su 12:20 PM        | 7.9 241 |
| 10:58 PM           | 6.8 207  | 11:53 PM           | 7.3 223  |                    |          | 06:11 PM           | -0.2 -6 | 11:33 PM           | 7.7 235  | 06:41 PM           | 0.4 12  |
| <b>8</b> 03:57 AM  | 3.8 116  | <b>23</b> 04:57 AM | 3.5 107  | <b>8</b> 12:05 AM  | 7.5 229  | <b>23</b> 12:44 AM | 7.7 235 | <b>8</b> 06:04 AM  | 2.2 67   | <b>23</b> 01:06 AM | 7.7 235 |
| 10:03 AM           | 9.2 280  | 10:57 AM           | 9.3 283  | 05:18 AM           | 3.1 94   | 06:14 AM           | 2.5 76  | 12:06 PM           | 9.3 283  | 06:56 AM           | 1.6 49  |
| W 05:05 PM         | -0.3 -9  | Th 05:53 PM        | -0.6 -18 | Sa 11:17 AM        | 9.7 296  | Su 12:12 PM        | 8.6 262 | Su 06:43 PM        | -1.0 -30 | M 12:59 PM         | 7.9 241 |
| 11:46 PM           | 7.2 219  |                    |          | 06:09 PM           | -1.3 -40 | 06:44 PM           | -0.1 -3 |                    |          | 07:12 PM           | 0.5 15  |
| <b>9</b> 04:46 AM  | 3.7 113  | <b>24</b> 12:35 AM | 7.5 229  | <b>9</b> 12:45 AM  | 7.9 241  | <b>24</b> 01:13 AM | 7.8 238 | <b>9</b> 01:11 AM  | 8.2 250  | <b>24</b> 01:33 AM | 7.9 241 |
| 10:46 AM           | 9.5 290  | 05:44 AM           | 3.4 104  | 06:07 AM           | 2.6 79   | 06:51 AM           | 2.2 67  | 06:53 AM           | 1.4 43   | 07:31 AM           | 1.2 37  |
| Th 05:47 PM        | -0.8 -24 | F 11:41 AM         | 9.3 283  | Su 12:06 PM        | 9.9 302  | M 12:49 PM         | 8.4 256 | M 12:58 PM         | 9.5 290  | Tu 01:36 PM        | 7.9 241 |
|                    |          | 06:32 PM           | -0.6 -18 | 06:51 PM           | -1.4 -43 | 07:15 PM           | 0.1 3   | 07:25 PM           | -1.1 -34 | 07:42 PM           | 0.7 21  |
| <b>10</b> 12:29 AM | 7.5 229  | <b>25</b> 01:12 AM | 7.7 235  | <b>10</b> 01:24 AM | 8.3 253  | <b>25</b> 01:41 AM | 7.9 241 | <b>10</b> 01:49 AM | 8.7 265  | <b>25</b> 01:59 AM | 8.0 244 |
| 05:33 AM           | 3.5 107  | 06:27 AM           | 3.2 98   | 06:55 AM           | 2.1 64   | 07:26 AM           | 2.0 61  | 07:41 AM           | 0.7 21   | 08:04 AM           | 1.0 30  |
| F 11:30 AM         | 9.8 299  | Sa 12:22 PM        | 9.1 277  | M 12:55 PM         | 9.8 299  | Tu 01:26 PM        | 8.2 250 | Tu 01:48 PM        | 9.4 287  | W 02:13 PM         | 7.7 235 |
| 06:29 PM           | -1.2 -37 | 07:08 PM           | -0.5 -15 | 07:32 PM           | -1.3 -40 | 07:44 PM           | 0.5 15  | 08:06 PM           | -0.8 -24 | 08:10 PM           | 1.1 34  |
| <b>11</b> 01:11 AM | 7.7 235  | <b>26</b> 01:46 AM | 7.7 235  | <b>11</b> 02:03 AM | 8.6 262  | <b>26</b> 02:09 AM | 7.9 241 | <b>11</b> 02:27 AM | 9.1 277  | <b>26</b> 02:24 AM | 8.1 247 |
| 06:20 AM           | 3.3 101  | 07:08 AM           | 3.1 94   | 07:44 AM           | 1.7 52   | 08:02 AM           | 1.9 58  | 08:30 AM           | 0.2 6    | 08:38 AM           | 0.8 24  |
| Sa 12:14 PM        | 9.9 302  | Su 01:01 PM        | 8.8 268  | Tu 01:45 PM        | 9.4 287  | W 02:02 PM         | 7.8 238 | W 02:39 PM         | 9.0 274  | Th 02:50 PM        | 7.5 229 |
| 07:11 PM           | -1.4 -43 | 07:42 PM           | -0.3 -9  | 08:13 PM           | -0.9 -27 | 08:12 PM           | 0.9 27  | 08:46 PM           | -0.2 -6  | 08:38 PM           | 1.5 46  |
| <b>12</b> 01:52 AM | 7.9 241  | <b>27</b> 02:19 AM | 7.7 235  | <b>12</b> 02:42 AM | 8.8 268  | <b>27</b> 02:36 AM | 8.0 244 | <b>12</b> 03:05 AM | 9.3 283  | <b>27</b> 02:49 AM | 8.2 250 |
| 07:07 AM           | 3.1 94   | 07:47 AM           | 3.0 91   | 08:36 AM           | 1.4 43   | 08:39 AM           | 1.8 55  | 09:19 AM           | -0.1 -3  | 09:12 AM           | 0.7 21  |
| Su 01:00 PM        | 9.8 299  | M 01:39 PM         | 8.5 259  | W 02:37 PM         | 8.8 268  | Th 02:41 PM        | 7.4 226 | Th 03:31 PM        | 8.5 259  | F 03:28 PM         | 7.2 219 |
| 07:53 PM           | -1.4 -43 | 08:15 PM           | 0.1 3    | 08:55 PM           | -0.2 -6  | 08:41 PM           | 1.4 43  | 09:28 PM           | 0.6 18   | 09:07 PM           | 2.0 61  |
| <b>13</b> 02:34 AM | 8.0 244  | <b>28</b> 02:52 AM | 7.7 235  | <b>13</b> 03:24 AM | 9.0 274  | <b>28</b> 03:04 AM | 8.0 244 | <b>13</b> 03:45 AM | 9.3 283  | <b>28</b> 03:15 AM | 8.2 250 |
| 07:56 AM           | 2.9 88   | 08:27 AM           | 2.9 88   | 09:30 AM           | 1.2 37   | 09:18 AM           | 1.8 55  | 10:11 AM           | -0.1 -3  | 09:48 AM           | 0.7 21  |
| M 01:49 PM         | 9.5 290  | Tu 02:18 PM        | 8.0 244  | Th 03:33 PM        | 8.0 244  | F 03:23 PM         | 6.9 210 | F 04:27 PM         | 7.8 238  | Sa 04:09 PM        | 6.8 207 |
| 08:36 PM           | -1.1 -34 | 08:47 PM           | 0.5 15   | 09:38 PM           | 0.7 21   | 09:11 PM           | 2.0 61  | 10:11 PM           | 1.5 46   | 09:38 PM           | 2.5 76  |
| <b>14</b> 03:17 AM | 8.2 250  | <b>29</b> 03:25 AM | 7.7 235  | <b>14</b> 04:08 AM | 9.0 274  | <b>29</b> 03:33 AM | 8.0 244 | <b>14</b> 04:28 AM | 9.2 280  | <b>29</b> 03:43 AM | 8.1 247 |
| 08:49 AM           | 2.7 82   | 09:08 AM           | 2.9 88   | 10:30 AM           | 1.1 34   | 10:02 AM           | 1.8 55  | 11:06 AM           | 0.1 3    | 10:29 AM           | 0.7 21  |
| Tu 02:41 PM        | 8.9 271  | W 02:59 PM         | 7.5 229  | F 04:37 PM         | 7.2 219  | Sa 04:12 PM        | 6.4 195 | Sa 05:28 PM        | 7.1 216  | Su 04:57 PM        | 6.4 195 |
| 09:20 PM           | -0.5 -15 | 09:19 PM           | 1.0 30   | 10:24 PM           | 1.7 52   | 09:44 PM           | 2.7 82  | 10:58 PM           | 2.4 73   | 10:12 PM           | 3.0 91  |
| <b>15</b> 04:02 AM | 8.3 253  | <b>30</b> 03:58 AM | 7.7 235  | <b>15</b> 04:56 AM | 8.9 271  | <b>30</b> 03:33 AM | 8.0 244 | <b>15</b> 05:16 AM | 8.8 268  | <b>30</b> 04:16 AM | 7.9 241 |
| 09:47 AM           | 2.5 76   | 09:54 AM           | 2.8 85   | 11:35 AM           | 1.1 34   | 10:02 AM           | 1.8 55  | 12:07 PM           | 0.4 12   | 11:17 AM           | 0.8 24  |
| W 03:39 PM         | 8.1 247  | Th 03:44 PM        | 6.9 210  | Sa 05:50 PM        | 6.5 198  | Sa 04:12 PM        | 6.4 195 | Su 06:39 PM        | 6.5 198  | M 05:54 PM         | 6.1 186 |
| 10:06 PM           | 0.2 6    | 09:52 PM           | 1.7 52   | 11:18 PM           | 2.6 79   |                    |         | 11:54 PM           | 3.2 98   | 10:55 PM           | 3.5 107 |
| <b>31</b> 04:33 AM | 7.8 238  | <b>31</b> 04:33 AM | 7.8 238  |                    |          |                    |         |                    |          | <b>31</b> 05:00 AM | 7.7 235 |
| 10:45 AM           | 2.7 82   | F 04:39 PM         | 6.4 195  |                    |          |                    |         |                    |          | 12:15 PM           | 0.9 27  |
|                    |          | 10:28 PM           | 2.3 70   |                    |          |                    |         |                    |          | Tu 07:05 PM        | 5.9 180 |
|                    |          |                    |          |                    |          |                    |         |                    |          | 11:55 PM           | 3.9 119 |

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Referenced to Station: Toke Point ( 9440910 ) Time offset in mins (high: -37 low: -44) Height offset in feet (high: \*0.92 low: \*0.9)



Point Grenville, WA,2020

Times and Heights of High and Low Waters

| April              |          |                    |          | May                |          |                    |          | June               |          |                    |          |
|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height   |
| h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm    |
| <b>1</b> 06:00 AM  | 7.5 229  | <b>16</b> 02:13 AM | 3.6 110  | <b>1</b> 01:09 AM  | 3.5 107  | <b>16</b> 02:59 AM | 2.7 82   | <b>1</b> 03:24 AM  | 1.2 37   | <b>16</b> 04:09 AM | 1.0 30   |
| 07:24 PM           | 0.9 27   | 08:05 AM           | 6.7 204  | 06:56 AM           | 6.9 210  | 08:42 AM           | 5.9 180  | 09:22 AM           | 6.2 189  | 10:14 AM           | 5.3 162  |
| W 08:22 PM         | 5.9 180  | Th 02:59 PM        | 0.9 27   | F 01:57 PM         | 0.3 9    | Sa 03:02 PM        | 1.1 34   | M 03:19 PM         | 0.7 21   | Tu 03:40 PM        | 2.1 64   |
| ☉                  |          | 09:54 PM           | 6.5 198  | 08:54 PM           | 6.6 201  | 09:46 PM           | 6.8 207  | 09:52 PM           | 8.2 250  | Tu 10:07 PM        | 7.5 229  |
| <b>2</b> 01:17 AM  | 4.0 122  | <b>17</b> 03:30 AM | 3.2 98   | <b>2</b> 02:30 AM  | 3.0 91   | <b>17</b> 03:59 AM | 2.0 61   | <b>2</b> 04:25 AM  | 0.1 3    | <b>17</b> 04:55 AM | 0.4 12   |
| 08:41 AM           | 7.4 223  | 09:20 AM           | 6.7 204  | 08:20 AM           | 6.8 207  | 09:49 AM           | 5.9 180  | 10:33 AM           | 6.4 195  | 11:13 AM           | 5.6 171  |
| Th 02:36 PM        | 0.7 21   | F 03:58 PM         | 0.9 27   | Sa 03:01 PM        | 0.2 6    | Su 03:52 PM        | 1.3 40   | Tu 04:14 PM        | 1.1 34   | W 04:27 PM         | 2.4 73   |
| 09:32 PM           | 6.2 189  | 10:41 PM           | 6.8 207  | 09:46 PM           | 7.1 216  | 10:25 PM           | 7.2 219  | 10:37 PM           | 8.7 265  | 10:44 PM           | 7.8 238  |
| <b>3</b> 02:43 AM  | 3.7 113  | <b>18</b> 04:30 AM | 2.6 79   | <b>3</b> 03:41 AM  | 2.1 64   | <b>18</b> 04:47 AM | 1.3 40   | <b>3</b> 05:19 AM  | -0.8 -24 | <b>18</b> 05:37 AM | -0.2 -6  |
| 08:41 AM           | 7.4 226  | 09:20 AM           | 6.8 207  | 09:36 AM           | 7.0 213  | 10:47 AM           | 6.0 183  | 11:37 AM           | 6.6 201  | 12:05 PM           | 5.9 180  |
| F 03:41 PM         | 0.3 9    | Sa 04:46 PM        | 0.9 27   | Su 03:58 PM        | 0.2 6    | M 04:36 PM         | 1.5 46   | W 05:07 PM         | 1.4 43   | Th 05:12 PM        | 2.6 79   |
| 10:27 PM           | 6.7 204  | 11:19 PM           | 7.1 216  | 10:32 PM           | 7.7 235  | 11:00 PM           | 7.5 229  | 11:21 PM           | 9.1 277  | 11:21 PM           | 8.0 244  |
| <b>4</b> 03:56 AM  | 3.0 91   | <b>19</b> 05:17 AM | 1.9 58   | <b>4</b> 04:41 AM  | 1.0 30   | <b>19</b> 05:29 AM | 0.7 21   | <b>4</b> 06:09 AM  | -1.6 -49 | <b>19</b> 06:16 AM | -0.8 -24 |
| 10:57 AM           | 7.4 238  | 11:16 AM           | 6.9 210  | 11:44 AM           | 7.3 223  | 11:39 AM           | 6.2 189  | 12:36 PM           | 6.9 210  | 12:51 PM           | 6.1 186  |
| Sa 04:37 PM        | -0.1 -3  | Su 05:27 PM        | 0.9 27   | M 04:50 PM         | 0.3 9    | Tu 05:16 PM        | 1.7 52   | Th 05:58 PM        | 1.7 52   | F 05:56 PM         | 2.7 82   |
| 11:13 PM           | 7.4 226  | 11:51 PM           | 7.5 229  | 11:15 PM           | 8.4 256  | 11:32 PM           | 7.8 238  |                    |          | 11:57 PM           | 8.2 250  |
| <b>5</b> 04:56 AM  | 2.1 64   | <b>20</b> 05:57 AM | 1.3 40   | <b>5</b> 05:34 AM  | 0.0 0    | <b>20</b> 06:07 AM | 0.1 3    | <b>5</b> 12:05 AM  | 9.3 283  | <b>20</b> 06:55 AM | -1.2 -37 |
| 10:57 AM           | 8.2 250  | 12:02 PM           | 7.1 216  | 11:44 AM           | 7.5 229  | 12:25 PM           | 6.4 195  | 06:57 AM           | -2.1 -64 | 01:35 PM           | 6.3 192  |
| Su 05:27 PM        | -0.4 -12 | M 06:02 PM         | 1.0 30   | Tu 05:39 PM        | 0.4 12   | W 05:53 PM         | 2.0 61   | F 01:30 PM         | 7.0 213  | Sa 06:38 PM        | 2.8 85   |
| 11:54 PM           | 8.0 244  |                    |          | 11:55 PM           | 9.0 274  |                    |          | 06:47 PM           | 2.0 61   |                    |          |
| <b>6</b> 05:49 AM  | 1.0 30   | <b>21</b> 12:20 AM | 7.7 235  | <b>6</b> 06:24 AM  | -1.0 -30 | <b>21</b> 12:03 AM | 8.0 244  | <b>6</b> 12:49 AM  | 9.3 283  | <b>21</b> 12:34 AM | 8.4 256  |
| 11:55 AM           | 8.5 259  | 06:33 AM           | 0.7 21   | 12:41 PM           | 7.7 235  | 06:43 AM           | -0.4 -12 | 07:43 AM           | -2.3 -70 | 07:33 AM           | -1.5 -46 |
| M 06:12 PM         | -0.4 -12 | Tu 12:43 PM        | 7.2 219  | W 06:25 PM         | 0.8 24   | Th 01:08 PM        | 6.6 201  | Sa 02:20 PM        | 7.1 216  | Su 02:16 PM        | 6.5 198  |
|                    |          | 06:35 PM           | 1.2 37   |                    |          | 06:29 PM           | 2.2 67   | 07:35 PM           | 2.3 70   | ● 07:20 PM         | 2.8 85   |
| <b>7</b> 12:33 AM  | 8.6 262  | <b>22</b> 12:48 AM | 8.0 244  | <b>7</b> 12:35 AM  | 9.4 287  | <b>22</b> 12:33 AM | 8.2 250  | <b>7</b> 01:32 AM  | 9.1 277  | <b>22</b> 01:12 AM | 8.4 256  |
| 06:39 AM           | 0.1 3    | 07:08 AM           | 0.3 9    | 07:11 AM           | -1.7 -52 | 07:18 AM           | -0.8 -24 | 08:28 AM           | -2.2 -67 | 08:13 AM           | -1.7 -52 |
| Tu 12:48 PM        | 8.7 265  | W 01:22 PM         | 7.2 219  | Th 01:34 PM        | 7.8 238  | F 01:49 PM         | 6.6 201  | Su 03:10 PM        | 7.1 216  | M 02:58 PM         | 6.5 198  |
| 06:55 PM           | -0.3 -9  | 07:06 PM           | 1.5 46   | ○ 07:10 PM         | 1.2 37   | ● 07:05 PM         | 2.5 76   | 08:23 PM           | 2.5 76   | M 08:02 PM         | 2.8 85   |
| <b>8</b> 01:11 AM  | 9.1 277  | <b>23</b> 01:15 AM | 8.1 247  | <b>8</b> 01:16 AM  | 9.6 293  | <b>23</b> 01:03 AM | 8.3 253  | <b>8</b> 02:17 AM  | 8.7 265  | <b>23</b> 01:52 AM | 8.4 256  |
| 07:26 AM           | -0.7 -21 | 07:41 AM           | 0.0 0    | 07:58 AM           | -2.0 -61 | 07:53 AM           | -1.0 -30 | 09:12 AM           | -1.9 -58 | 08:53 AM           | -1.7 -52 |
| W 01:41 AM         | 8.6 262  | Th 02:01 PM        | 7.1 216  | F 02:27 PM         | 7.7 235  | Sa 02:30 PM        | 6.7 204  | M 03:58 PM         | 6.9 210  | Tu 03:39 PM        | 6.6 201  |
| ○ 07:37 PM         | 0.1 3    | ● 07:36 PM         | 1.8 55   | 07:54 PM           | 1.7 52   | 07:41 PM           | 2.7 82   | 09:11 PM           | 2.7 82   | Tu 08:48 PM        | 2.7 82   |
| <b>9</b> 01:50 AM  | 9.5 290  | <b>24</b> 01:41 AM | 8.2 250  | <b>9</b> 01:57 AM  | 9.5 290  | <b>24</b> 01:34 AM | 8.3 253  | <b>9</b> 03:02 AM  | 8.2 250  | <b>24</b> 02:35 AM | 8.2 250  |
| 08:14 AM           | -1.1 -34 | 08:15 AM           | -0.3 -9  | 08:44 AM           | -2.0 -61 | 08:30 AM           | -1.1 -34 | 09:57 AM           | -1.4 -43 | 09:35 AM           | -1.6 -49 |
| Th 02:32 PM        | 8.4 256  | F 02:39 PM         | 7.0 213  | Sa 03:18 PM        | 7.5 229  | Su 03:11 PM        | 6.6 201  | Tu 04:46 PM        | 6.8 207  | W 04:23 PM         | 6.6 201  |
| 08:19 PM           | 0.7 21   | 08:07 PM           | 2.2 67   | 08:40 PM           | 2.2 67   | 08:18 PM           | 2.9 88   | 10:02 PM           | 2.8 85   | W 09:37 PM         | 2.6 79   |
| <b>10</b> 02:29 AM | 9.6 293  | <b>25</b> 02:07 AM | 8.3 253  | <b>10</b> 02:39 AM | 9.1 277  | <b>25</b> 02:07 AM | 8.3 253  | <b>10</b> 03:50 AM | 7.5 229  | <b>25</b> 03:23 AM | 7.9 241  |
| 09:01 AM           | -1.3 -40 | 08:49 AM           | -0.4 -12 | 09:31 AM           | -1.7 -52 | 09:09 AM           | -1.1 -34 | 10:43 AM           | -0.8 -24 | 10:19 AM           | -1.4 -43 |
| F 03:25 PM         | 8.0 244  | Sa 03:19 PM        | 6.9 210  | Su 04:11 PM        | 7.2 219  | M 03:54 PM         | 6.5 198  | W 05:36 PM         | 6.6 201  | Th 05:08 PM        | 6.8 207  |
| 09:02 PM           | 1.4 43   | 08:39 PM           | 2.6 79   | 09:28 PM           | 2.6 79   | 08:59 PM           | 3.1 94   | 10:57 PM           | 2.9 88   | Th 10:32 PM        | 2.5 76   |
| <b>11</b> 03:09 AM | 9.4 287  | <b>26</b> 02:35 AM | 8.2 250  | <b>11</b> 03:24 AM | 8.6 262  | <b>26</b> 02:45 AM | 8.1 247  | <b>11</b> 04:42 AM | 6.9 210  | <b>26</b> 04:17 AM | 7.3 223  |
| 09:50 AM           | -1.1 -34 | 09:26 AM           | -0.3 -9  | 10:20 AM           | -1.2 -37 | 09:51 AM           | -1.1 -34 | 11:29 AM           | -0.3 -9  | 11:05 AM           | -1.0 -30 |
| Sa 04:20 PM        | 7.5 229  | Su 04:01 PM        | 6.6 201  | M 05:07 PM         | 6.8 207  | Tu 04:41 PM        | 6.4 195  | Th 06:26 PM        | 6.5 198  | F 05:55 PM         | 6.9 210  |
| 09:47 PM           | 2.2 67   | 09:14 PM           | 3.0 91   | 10:20 PM           | 3.0 91   | 09:45 PM           | 3.2 98   | 11:58 PM           | 2.9 88   | F 11:35 PM         | 2.3 70   |
| <b>12</b> 03:53 AM | 9.0 274  | <b>27</b> 03:06 AM | 8.1 247  | <b>12</b> 04:13 AM | 7.9 241  | <b>27</b> 03:28 AM | 7.8 238  | <b>12</b> 05:41 AM | 6.2 189  | <b>27</b> 05:20 AM | 6.7 204  |
| 10:42 AM           | -0.7 -21 | 10:07 AM           | -0.2 -6  | 11:11 AM           | -0.6 -18 | 10:37 AM           | -0.9 -27 | 12:17 PM           | 0.3 9    | 11:54 AM           | -0.4 -12 |
| Su 05:19 PM        | 7.0 213  | M 04:49 AM         | 6.4 195  | Tu 06:05 PM        | 6.6 201  | W 05:32 PM         | 6.3 192  | F 07:15 PM         | 6.5 198  | Sa 06:44 PM        | 7.2 219  |
| 10:38 PM           | 2.9 88   | 09:54 PM           | 3.3 101  | 11:20 PM           | 3.3 101  | 10:39 PM           | 3.2 98   |                    |          |                    |          |
| <b>13</b> 04:41 AM | 8.4 256  | <b>28</b> 03:44 AM | 7.9 241  | <b>13</b> 05:09 AM | 7.2 219  | <b>28</b> 04:20 AM | 7.4 226  | <b>13</b> 01:05 AM | 2.7 82   | <b>28</b> 12:44 AM | 1.8 55   |
| 11:39 AM           | -0.2 -6  | 10:54 AM           | -0.1 -3  | 12:07 PM           | 0.0 0    | 11:27 AM           | -0.6 -18 | 06:47 AM           | 5.7 174  | 06:32 AM           | 6.1 186  |
| M 06:25 PM         | 6.5 198  | Tu 05:44 AM        | 6.1 186  | W 07:07 PM         | 6.4 195  | Th 06:26 PM        | 6.4 195  | Sa 01:07 PM        | 0.9 27   | Su 12:47 PM        | 0.2 6    |
| 11:37 PM           | 3.4 104  | 10:43 PM           | 3.6 110  |                    |          | 11:45 PM           | 3.1 94   | ● 08:02 PM         | 6.7 204  | ● 07:35 PM         | 7.6 232  |
| <b>14</b> 05:38 AM | 7.7 235  | <b>29</b> 04:32 AM | 7.5 229  | <b>14</b> 12:29 AM | 3.4 104  | <b>29</b> 05:25 AM | 6.9 210  | <b>14</b> 02:13 AM | 2.3 70   | <b>29</b> 01:56 AM | 1.2 37   |
| 12:42 PM           | 0.3 9    | 11:48 AM           | 0.1 3    | 06:15 AM           | 6.5 198  | 12:23 PM           | -0.3 -9  | 07:58 AM           | 5.3 162  | 07:52 AM           | 5.7 174  |
| Tu 07:38 PM        | 6.3 192  | W 06:48 PM         | 6.1 186  | Th 01:06 PM        | 0.5 15   | F 07:21 PM         | 6.6 201  | Su 01:58 PM        | 1.3 40   | M 01:44 PM         | 0.9 27   |
| ☉                  |          | 11:48 PM           | 3.7 113  | ● 08:07 PM         | 6.4 195  |                    |          | 08:46 PM           | 6.9 210  | M 08:25 PM         | 8.0 244  |
| <b>15</b> 12:50 AM | 3.7 113  | <b>30</b> 05:36 AM | 7.2 219  | <b>15</b> 01:46 AM | 3.2 98   | <b>30</b> 12:59 AM | 2.8 85   | <b>15</b> 03:15 AM | 1.7 52   | <b>30</b> 03:06 AM | 0.4 12   |
| 06:48 AM           | 7.1 216  | 12:51 PM           | 0.2 6    | 07:29 AM           | 6.1 186  | 06:42 AM           | 6.5 198  | 09:08 AM           | 5.2 158  | 09:12 AM           | 5.6 171  |
| W 01:51 PM         | 0.7 21   | Th 07:54 PM        | 6.2 189  | F 02:06 PM         | 0.9 27   | Sa 01:21 PM        | 0.0 0    | M 02:50 PM         | 1.8 55   | Tu 02:44 PM        | 1.5 46   |
| 08:52 PM           | 6.3 192  | ☉                  |          | 09:01 PM           | 6.6 201  | ● 08:15 PM         | 7.0 213  | 09:28 PM           | 7.2 219  | Tu 09:16 PM        | 8.4 256  |
|                    |          |                    |          |                    |          | <b>31</b> 02:15 AM | 2.1 64   |                    |          |                    |          |
|                    |          |                    |          |                    |          | 08:04 AM           | 6.2 189  |                    |          |                    |          |
|                    |          |                    |          |                    |          | Su 02:21 PM        | 0.4 12   |                    |          |                    |          |
|                    |          |                    |          |                    |          | 09:05 PM           | 7.6 232  |                    |          |                    |          |

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Referenced to Station: Toke Point ( 9440910 ) Time offset in mins (high: -37 low: -44) Height offset in feet (high: \*0.92 low: \*0.9)



Point Grenville, WA,2020

Times and Heights of High and Low Waters

| July               |          |                    |          | August             |          |                    |          | September          |          |                    |          |
|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|
| Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height   | Time               | Height   |
| h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm    | h m                | ft cm    |
| <b>1</b> 04:09 AM  | -0.4 -12 | <b>16</b> 04:16 AM | 0.4 12   | <b>1</b> 05:44 AM  | -1.3 -40 | <b>16</b> 05:20 AM | -0.6 -18 | <b>1</b> 12:14 AM  | 8.0 244  | <b>16</b> 06:17 AM | -1.0 -30 |
| 10:27 AM           | 5.8 177  | 11:45 AM           | 5.3 162  | 12:26 PM           | 6.3 192  | 12:02 PM           | 6.1 186  | 06:50 AM           | -0.7 -21 | 12:44 PM           | 7.7 235  |
| W 03:45 PM         | 1.9 58   | Th 03:42 PM        | 2.9 88   | Sa 05:31 PM        | 2.6 79   | Su 05:08 PM        | 2.9 88   | Tu 01:21 PM        | 7.1 216  | W 06:29 PM         | 1.0 30   |
| 10:06 PM           | 8.7 265  | 10:00 PM           | 7.6 232  | 11:33 PM           | 8.5 259  | 11:09 PM           | 8.1 247  | 06:56 PM           | 1.6 49   |                    |          |
| <b>2</b> 05:05 AM  | -1.1 -34 | <b>17</b> 05:05 AM | -0.2 -6  | <b>2</b> 06:30 AM  | -1.5 -46 | <b>17</b> 06:05 AM | -1.1 -34 | <b>2</b> 12:56 AM  | 8.0 244  | <b>17</b> 12:34 AM | 8.7 265  |
| 11:34 AM           | 6.1 186  | 11:41 AM           | 5.6 171  | 01:11 PM           | 6.6 201  | 12:43 PM           | 6.5 198  | 07:25 AM           | -0.6 -18 | 06:58 AM           | -1.1 -34 |
| Th 04:44 PM        | 2.2 67   | F 04:38 PM         | 3.0 91   | Su 06:22 PM        | 2.4 73   | M 05:58 PM         | 2.4 73   | W 01:52 PM         | 7.2 219  | Th 01:20 PM        | 8.2 250  |
| 10:56 PM           | 8.9 271  | 10:45 AM           | 7.9 241  |                    |          | 11:58 PM           | 8.5 259  | O 07:35 PM         | 1.4 43   | ● 07:16 PM         | 0.3 9    |
| <b>3</b> 05:56 AM  | -1.7 -52 | <b>18</b> 05:49 AM | -0.8 -24 | <b>3</b> 12:22 AM  | 8.4 256  | <b>18</b> 06:47 AM | -1.5 -46 | <b>3</b> 01:36 AM  | 7.8 238  | <b>18</b> 01:24 AM | 8.7 265  |
| 12:32 PM           | 6.4 195  | 12:30 PM           | 6.0 183  | 07:13 AM           | -1.5 -46 | 01:22 PM           | 6.9 210  | 07:57 AM           | -0.3 -9  | 07:39 AM           | -0.8 -24 |
| F 05:39 PM         | 2.4 73   | Sa 05:29 PM        | 2.9 88   | M 01:51 PM         | 6.8 207  | Tu 06:46 PM        | 1.8 55   | Th 02:21 PM        | 7.3 223  | F 01:57 PM         | 8.6 262  |
| 11:44 PM           | 9.0 274  | 11:30 AM           | 8.2 250  | O 07:09 PM         | 2.1 64   |                    |          | 08:11 PM           | 1.2 37   | 08:04 PM           | -0.3 -9  |
| <b>4</b> 06:44 AM  | -2.0 -61 | <b>19</b> 06:31 AM | -1.3 -40 | <b>4</b> 01:07 AM  | 8.3 253  | <b>19</b> 12:46 AM | 8.7 265  | <b>4</b> 02:14 AM  | 7.6 232  | <b>19</b> 02:14 AM | 8.5 259  |
| 10:24 PM           | 6.6 201  | 01:13 PM           | 6.3 192  | 07:52 AM           | -1.4 -43 | 07:28 AM           | -1.7 -52 | 08:28 AM           | -0.6 -18 | 08:19 AM           | -0.3 -9  |
| Sa 06:31 PM        | 2.4 73   | Su 06:16 PM        | 2.8 85   | Tu 02:28 PM        | 6.9 210  | W 01:59 PM         | 7.3 223  | F 02:49 PM         | 7.4 226  | Sa 02:35 PM        | 8.9 271  |
|                    |          |                    |          | 07:52 PM           | 2.0 61   | ● 07:33 PM         | 1.3 40   | 08:48 PM           | 1.0 30   | 08:52 PM           | -0.7 -21 |
| <b>5</b> 12:31 AM  | 8.9 271  | <b>20</b> 12:14 AM | 8.4 256  | <b>5</b> 01:49 AM  | 8.1 247  | <b>20</b> 01:34 AM | 8.7 265  | <b>5</b> 02:52 AM  | 7.2 219  | <b>20</b> 03:07 AM | 8.1 247  |
| 07:29 AM           | -2.1 -64 | 07:12 AM           | -1.7 -52 | 08:28 AM           | -1.2 -37 | 08:08 AM           | -1.7 -52 | 08:58 AM           | 0.5 15   | 09:01 AM           | 0.4 12   |
| Su 02:10 PM        | 6.8 207  | M 01:54 PM         | 6.5 198  | W 03:02 PM         | 6.9 210  | Th 02:37 PM        | 7.7 235  | Sa 03:17 PM        | 7.4 226  | Su 03:14 PM        | 9.0 274  |
| O 07:21 PM         | 2.4 73   | ● 07:02 PM         | 2.5 76   | 08:34 PM           | 1.8 55   | 08:20 PM           | 0.8 24   | 09:24 PM           | 1.0 30   | 09:43 PM           | -0.8 -24 |
| <b>6</b> 01:17 AM  | 8.7 265  | <b>21</b> 12:58 AM | 8.6 262  | <b>6</b> 02:29 AM  | 7.7 235  | <b>21</b> 02:22 AM | 8.5 259  | <b>6</b> 03:31 AM  | 6.8 207  | <b>21</b> 04:02 AM | 7.5 229  |
| 08:11 AM           | -1.9 -58 | 07:53 AM           | -1.9 -58 | 09:02 AM           | -0.8 -24 | 08:48 AM           | -1.3 -40 | 09:27 AM           | 1.1 34   | 09:45 AM           | 1.2 37   |
| M 02:54 PM         | 6.8 207  | Tu 02:33 PM        | 6.8 207  | Th 03:35 PM        | 7.0 213  | F 03:15 PM         | 8.0 244  | Su 03:45 PM        | 7.4 226  | M 03:57 PM         | 8.9 271  |
| 08:08 PM           | 2.4 73   | 07:48 PM           | 2.2 67   | 09:14 PM           | 1.7 52   | O 09:10 PM         | 0.5 15   | 10:03 PM           | 1.0 30   | 10:37 PM           | -0.6 -18 |
| <b>7</b> 02:01 AM  | 8.4 256  | <b>22</b> 01:42 AM | 8.6 262  | <b>7</b> 03:10 AM  | 7.3 223  | <b>22</b> 03:13 AM | 8.1 247  | <b>7</b> 04:14 AM  | 6.4 195  | <b>22</b> 05:03 AM | 6.9 210  |
| 08:52 AM           | -1.7 -52 | 08:33 AM           | -2.0 -61 | 09:35 AM           | -0.3 -9  | 09:29 AM           | -0.7 -21 | 09:58 AM           | 1.7 52   | 10:32 AM           | 2.1 64   |
| Tu 03:35 PM        | 6.8 207  | W 03:13 PM         | 7.0 213  | F 04:08 PM         | 7.0 213  | Sa 03:54 PM        | 8.2 250  | M 04:15 PM         | 7.3 223  | Tu 04:45 PM        | 8.6 262  |
| 08:54 PM           | 2.4 73   | 08:35 PM           | 2.0 61   | 09:56 PM           | 1.7 52   | 10:02 PM           | 0.2 6    | 10:46 PM           | 1.0 30   | 11:37 PM           | -0.3 -9  |
| <b>8</b> 02:45 AM  | 7.9 241  | <b>23</b> 02:29 AM | 8.4 256  | <b>8</b> 03:52 AM  | 6.8 207  | <b>23</b> 04:08 AM | 7.4 226  | <b>8</b> 05:03 AM  | 6.0 183  | <b>23</b> 06:13 AM | 6.4 195  |
| 09:32 AM           | -1.3 -40 | 09:14 AM           | -1.8 -55 | 10:08 AM           | 0.2 6    | 10:11 AM           | 0.1 3    | 10:32 AM           | 2.4 73   | 11:29 AM           | 2.8 85   |
| W 04:16 PM         | 6.8 207  | Th 03:53 PM        | 7.2 219  | Sa 04:41 PM        | 6.9 210  | Su 04:36 PM        | 8.3 253  | Tu 04:49 PM        | 7.2 219  | W 05:41 PM         | 8.1 247  |
| 09:40 PM           | 2.4 73   | 09:25 PM           | 1.7 52   | 10:40 PM           | 1.7 52   | 10:59 PM           | 0.1 3    | 11:35 PM           | 1.1 34   |                    |          |
| <b>9</b> 03:29 AM  | 7.3 223  | <b>24</b> 03:19 AM | 8.0 244  | <b>9</b> 04:37 AM  | 6.2 189  | <b>24</b> 05:09 AM | 6.7 204  | <b>9</b> 06:03 AM  | 5.6 171  | <b>24</b> 12:43 AM | 0.0 0    |
| 10:11 AM           | -0.8 -24 | 09:56 AM           | -1.4 -43 | 10:41 AM           | 0.9 27   | 10:57 AM           | 1.0 30   | 11:12 AM           | 2.9 88   | 07:31 AM           | 6.1 186  |
| Th 04:56 PM        | 6.7 204  | F 04:34 PM         | 7.4 226  | Su 05:16 PM        | 6.9 210  | M 05:23 PM         | 8.3 253  | W 05:30 PM         | 7.1 216  | Th 12:38 PM        | 3.4 104  |
| 10:28 PM           | 2.4 73   | 10:20 PM           | 1.4 43   | 11:29 PM           | 1.6 49   |                    |          |                    |          | ● 06:49 PM         | 7.7 235  |
| <b>10</b> 04:16 AM | 6.7 204  | <b>25</b> 04:13 AM | 7.4 226  | <b>10</b> 05:30 AM | 5.7 174  | <b>25</b> 12:01 AM | 0.1 3    | <b>10</b> 12:33 AM | 1.2 37   | <b>25</b> 01:56 AM | 0.3 9    |
| 10:49 AM           | -0.2 -6  | 10:39 AM           | -0.8 -24 | 11:17 AM           | 1.6 49   | 06:19 AM           | 6.1 186  | 07:14 AM           | 5.3 162  | 08:52 AM           | 6.2 189  |
| F 05:36 PM         | 6.7 204  | Sa 05:17 PM        | 7.6 232  | M 05:54 PM         | 6.9 210  | Tu 11:49 AM        | 1.9 58   | Th 12:07 PM        | 3.4 104  | F 02:00 PM         | 3.5 107  |
| 11:20 PM           | 2.3 70   | 11:19 PM           | 1.2 37   |                    |          | ● 06:16 PM         | 8.1 247  | ● 06:26 PM         | 7.0 213  | 08:05 PM           | 7.4 226  |
| <b>11</b> 05:07 AM | 6.1 186  | <b>26</b> 05:15 AM | 6.7 204  | <b>11</b> 12:24 AM | 1.5 46   | <b>26</b> 01:10 AM | 0.1 3    | <b>11</b> 01:41 AM | 1.1 34   | <b>26</b> 03:08 AM | 0.3 9    |
| 11:28 AM           | 0.4 12   | 11:25 AM           | 0.0 0    | 06:33 AM           | 5.2 158  | 07:38 AM           | 5.7 174  | 08:33 AM           | 5.4 165  | 10:02 AM           | 6.4 195  |
| Sa 06:17 PM        | 6.7 204  | Su 06:04 PM        | 7.8 238  | Tu 11:58 AM        | 2.2 67   | W 12:51 PM         | 2.6 79   | F 01:21 PM         | 3.7 113  | Sa 03:20 PM        | 3.2 98   |
|                    |          |                    |          | ● 06:37 PM         | 6.9 210  | 07:17 PM           | 8.0 244  | 07:35 PM           | 7.0 213  | 09:19 PM           | 7.3 223  |
| <b>12</b> 12:17 AM | 2.2 67   | <b>27</b> 12:24 AM | 0.9 27   | <b>12</b> 01:26 AM | 1.4 43   | <b>27</b> 02:23 AM | 0.0 0    | <b>12</b> 02:51 AM | 0.8 24   | <b>27</b> 04:10 AM | 0.2 6    |
| 06:05 AM           | 5.6 171  | 06:25 AM           | 6.0 183  | 07:47 AM           | 5.0 152  | 09:03 AM           | 5.7 174  | 09:44 AM           | 5.6 171  | 10:55 AM           | 6.8 207  |
| Su 12:09 PM        | 1.0 30   | M 12:16 PM         | 0.9 27   | W 12:50 PM         | 2.8 85   | Th 02:05 PM        | 3.0 91   | Sa 02:42 PM        | 3.6 110  | Su 04:26 PM        | 2.7 82   |
| ● 06:59 PM         | 6.8 207  | ● 06:54 PM         | 8.0 244  | 07:27 PM           | 7.0 213  | 08:24 PM           | 7.8 238  | 08:47 PM           | 7.2 219  | 10:23 PM           | 7.4 226  |
| <b>13</b> 01:19 AM | 1.9 58   | <b>28</b> 01:34 AM | 0.5 15   | <b>13</b> 02:32 AM | 1.1 34   | <b>28</b> 03:33 AM | -0.2 -6  | <b>13</b> 03:53 AM | 0.3 9    | <b>28</b> 05:01 AM | 0.2 6    |
| 07:13 AM           | 5.1 155  | 07:44 AM           | 5.5 168  | 09:04 AM           | 5.0 152  | 10:20 AM           | 5.9 180  | 10:40 AM           | 6.1 186  | 11:37 AM           | 7.1 216  |
| M 12:55 PM         | 1.7 52   | Tu 01:13 PM        | 1.7 52   | Th 01:56 PM        | 3.2 98   | F 03:22 PM         | 3.1 94   | Su 03:52 PM        | 3.2 98   | M 05:17 PM         | 2.1 64   |
| 07:43 PM           | 6.9 210  | 07:49 PM           | 8.1 247  | 08:23 PM           | 7.1 216  | 09:31 PM           | 7.8 238  | 09:52 PM           | 7.6 232  | 11:17 PM           | 7.6 232  |
| <b>14</b> 02:23 AM | 1.5 46   | <b>29</b> 02:45 AM | 0.1 3    | <b>14</b> 03:34 AM | 0.6 18   | <b>29</b> 04:35 AM | -0.4 -12 | <b>14</b> 04:46 AM | -0.3 -9  | <b>29</b> 05:43 AM | 0.1 3    |
| 08:26 AM           | 4.9 149  | 09:06 AM           | 5.4 165  | 10:15 AM           | 5.3 162  | 11:21 AM           | 6.3 192  | 11:26 AM           | 6.6 201  | 12:12 PM           | 7.4 226  |
| Tu 01:47 PM        | 2.2 67   | W 02:18 PM         | 2.3 70   | F 03:07 PM         | 3.3 101  | Sa 04:30 PM        | 2.8 85   | M 04:50 PM         | 2.5 76   | Tu 06:01 PM        | 1.6 49   |
| 08:28 PM           | 7.1 216  | 08:46 PM           | 8.2 250  | 09:21 PM           | 7.4 226  | 10:32 PM           | 7.9 241  | 10:50 PM           | 8.0 244  |                    |          |
| <b>15</b> 03:23 AM | 1.0 30   | <b>30</b> 03:52 AM | -0.5 -15 | <b>15</b> 04:30 AM | 0.0 0    | <b>30</b> 05:27 AM | -0.6 -18 | <b>15</b> 05:33 AM | -0.7 -21 | <b>30</b> 12:03 AM | 7.6 232  |
| 09:38 AM           | 5.0 152  | 10:25 AM           | 5.6 171  | 11:14 AM           | 5.7 174  | 12:08 PM           | 6.6 201  | 12:06 PM           | 7.1 216  | 06:19 AM           | 0.2 6    |
| W 12:54 PM         | 2.7 82   | Th 03:27 PM        | 2.7 82   | Sa 04:11 PM        | 3.2 98   | Su 05:26 PM        | 2.4 73   | Tu 05:41 PM        | 1.8 55   | W 12:42 PM         | 7.6 232  |
| 09:14 PM           | 7.3 223  | 09:44 PM           | 8.3 253  | 10:16 PM           | 7.7 235  | 11:27 PM           | 8.0 244  | 11:43 PM           | 8.4 256  | 06:39 PM           | 1.1 34   |
|                    |          | <b>31</b> 04:51 AM | -0.9 -27 |                    |          | <b>31</b> 06:11 AM | -0.8 -24 |                    |          |                    |          |
|                    |          | 11:31 AM           | 6.0 183  |                    |          | 12:47 PM           | 6.9 210  |                    |          |                    |          |
|                    |          | F 04:32 PM         | 2.7 82   |                    |          | M 06:14 PM         | 2.0 61   |                    |          |                    |          |
|                    |          | 10:40 PM           | 8.4 256  |                    |          |                    |          |                    |          |                    |          |

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Referenced to Station: Toke Point ( 9440910 ) Time offset in mins (high: -37 low: -44) Height offset in feet (high: \*0.92 low: \*0.9)



Point Grenville, WA,2020

Times and Heights of High and Low Waters

| October  |   |   |   | November  |   |   |   | December   |  |  |  |  |   |   |  |  |   |   |  |   |  |   |   |   |   |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |   |  |   |  |  |  |   |  |  |   |   |   |  |   |   |  |   |  |  |  |  |   |   |  |  |   |   |  |   |   |  |  |  |  |  |  |   |   |  |  |   |  |   |   |  |   |  |   |  |  |
|--|---|---|---|---|---|---|---|--|--|--|--|--|---|---|--|--|---|---|--|---|--|---|---|---|---|--|--|--|--|--|--|--|--|---|---|---|---|---|--|--|--|---|--|---|--|--|--|---|--|--|---|---|---|--|---|---|--|---|--|--|--|--|---|---|--|--|---|---|--|---|---|--|--|--|--|--|--|---|---|--|--|---|--|---|---|--|---|--|---|--|--|
| Time   | Height  | Time  | Height  | Time  | Height  | Time  | Height  | Time   | Height   | Time   | Height   |  |   |   |  |  |   |   |  |   |  |   |   |   |   |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |   |  |   |  |  |  |   |  |  |   |   |   |  |   |   |  |   |  |  |  |  |   |   |  |  |   |   |  |   |   |  |  |  |  |  |  |   |   |  |  |   |  |   |   |  |   |  |   |  |  |
| h m  | ft cm   | h m   | ft cm   | h m   | ft cm   | h m   | ft cm   | h m  | ft cm  | h m  | ft cm  |  |   |   |  |  |   |   |  |   |  |   |   |   |   |  |  |  |  |  |  |  |  |   |   |   |   |   |  |  |  |   |  |   |  |  |  |   |  |  |   |   |   |  |   |   |  |   |  |  |  |  |   |   |  |  |   |   |  |   |   |  |  |  |  |  |  |   |   |  |  |   |  |   |   |  |   |  |   |  |  |
| <b>1</b> 12:44 AM 7.7 235<br>06:52 AM 0.4 12<br>Th 01:10 PM 7.8 238<br>O 07:14 PM 0.8 24 | <b>16</b> 12:23 AM 8.4 256<br>06:26 AM 0.1 3<br>F 12:41 PM 9.2 280<br>● 07:00 PM -0.7 -21 | <b>1</b> 01:48 AM 7.3 223<br>06:18 AM 2.3 70<br>Su 12:21 PM 8.6 262<br>06:59 PM -0.1 -3 | <b>16</b> 01:02 AM 8.2 250<br>06:27 AM 2.2 67<br>M 12:28 PM 10.3 314<br>07:19 PM -1.8 -55 | <b>1</b> 01:16 AM 7.3 223<br>06:25 AM 3.5 107<br>Tu 12:18 PM 9.0 274<br>07:14 PM -0.4 -12 | <b>16</b> 01:46 AM 8.0 244<br>06:59 AM 3.1 94<br>W 12:54 PM 10.0 305<br>07:50 PM -1.5 -46 | <b>2</b> 01:22 AM 7.6 232<br>07:23 AM 0.8 24<br>F 01:37 PM 7.9 241<br>07:48 PM 0.5 15 | <b>17</b> 01:15 AM 8.5 259<br>07:08 AM 0.4 12<br>Sa 01:19 PM 9.6 293<br>07:47 PM -1.3 -40 | <b>2</b> 01:26 AM 7.3 223<br>06:50 AM 2.7 82<br>M 12:47 PM 8.6 262<br>07:32 PM -0.1 -3 | <b>17</b> 01:54 AM 8.1 247<br>07:14 AM 2.7 82<br>Tu 01:12 PM 10.0 305<br>08:06 PM -1.6 -49 | <b>2</b> 01:56 AM 7.3 223<br>07:01 AM 3.7 113<br>W 12:49 PM 8.9 271<br>07:50 PM -0.4 -12 | <b>17</b> 02:34 AM 8.0 244<br>06:59 AM 3.3 101<br>Th 01:41 PM 9.5 290<br>08:36 PM -1.0 -30 | <b>3</b> 02:00 AM 7.4 226<br>07:52 AM 1.2 37<br>Sa 02:03 PM 8.0 244<br>08:22 PM 0.4 12 | <b>18</b> 02:07 AM 8.4 256<br>07:51 AM 1.0 30<br>Su 01:58 PM 9.8 299<br>08:35 PM -1.5 -46 | <b>3</b> 02:05 AM 7.1 216<br>07:22 AM 3.1 94<br>Tu 01:14 PM 8.5 259<br>08:08 PM -0.1 -3 | <b>18</b> 02:48 AM 7.8 238<br>08:03 AM 3.1 94<br>W 01:58 PM 9.5 290<br>08:56 PM -1.1 -34 | <b>3</b> 02:36 AM 7.2 219<br>07:40 AM 3.8 116<br>Th 01:24 PM 8.7 265<br>08:29 PM -0.3 -9 | <b>18</b> 03:23 AM 7.8 238<br>08:40 AM 3.4 104<br>F 02:30 PM 8.8 268<br>09:21 PM -0.4 -12 | <b>4</b> 02:37 AM 7.2 219<br>09:57 AM 2.7 82<br>Su 02:28 PM 8.0 244<br>08:56 PM 0.3 9 | <b>19</b> 03:00 AM 8.1 247<br>08:05 AM 1.7 52<br>M 02:39 PM 9.7 296<br>09:24 PM -1.4 -43 | <b>4</b> 02:47 AM 6.9 210<br>07:56 AM 3.5 107<br>W 01:44 PM 8.3 253<br>08:47 PM 0.1 3 | <b>19</b> 03:43 AM 7.6 232<br>08:56 AM 3.5 107<br>Th 02:48 PM 8.8 268<br>09:48 PM -0.5 -15 | <b>4</b> 03:20 AM 7.1 216<br>08:23 AM 4.0 122<br>F 02:03 PM 8.4 256<br>09:12 PM -0.1 -3 | <b>19</b> 04:12 AM 7.7 235<br>09:35 AM 3.5 107<br>Sa 03:22 PM 8.0 244<br>10:07 PM 0.3 9 | <b>5</b> 03:16 AM 7.0 213<br>09:22 AM 2.2 67<br>M 02:54 PM 7.9 241<br>09:32 PM 0.4 12 | <b>20</b> 03:56 AM 7.7 235<br>09:21 AM 2.3 70<br>Tu 03:23 PM 9.3 283<br>10:16 PM -1.0 -30 | <b>5</b> 03:33 AM 6.7 204<br>09:25 AM 3.8 116<br>Th 02:19 PM 8.0 244<br>09:31 PM 0.3 9 | <b>20</b> 04:42 AM 7.3 223<br>09:57 AM 3.8 116<br>F 03:45 PM 8.0 244<br>10:43 PM 0.2 6 | <b>5</b> 04:07 AM 7.1 216<br>09:13 AM 4.0 122<br>Sa 02:51 PM 8.0 244<br>09:58 PM 0.2 6 | <b>20</b> 05:01 AM 7.6 232<br>10:36 AM 3.6 110<br>Su 04:19 PM 7.3 223<br>10:55 PM 1.0 30 | <b>6</b> 03:58 AM 6.6 201<br>09:22 AM 2.7 82<br>Tu 03:22 PM 7.8 238<br>10:11 PM 0.5 15 | <b>21</b> 04:56 AM 7.2 219<br>10:13 AM 3.0 91<br>W 04:13 PM 8.7 265<br>11:12 PM -0.5 -15 | <b>6</b> 04:26 AM 6.5 198<br>09:23 AM 4.1 125<br>F 03:04 PM 7.7 235<br>10:22 PM 0.5 15 | <b>21</b> 05:44 AM 7.2 219<br>11:07 AM 3.8 116<br>Sa 04:52 PM 7.3 223<br>11:42 PM 0.8 24 | <b>6</b> 04:58 AM 7.1 216<br>10:15 AM 4.0 122<br>Su 03:50 PM 7.5 229<br>10:50 PM 0.5 15 | <b>21</b> 05:51 AM 7.6 232<br>11:43 AM 3.4 104<br>M 05:25 PM 6.6 201<br>● 11:44 PM 1.6 49 | <b>7</b> 04:45 AM 6.3 192<br>09:57 AM 3.2 98<br>W 03:54 PM 7.6 232<br>10:57 PM 0.7 21 | <b>22</b> 06:02 AM 6.9 210<br>11:13 AM 3.5 107<br>Th 05:11 PM 8.0 244 | <b>7</b> 05:27 AM 6.4 195<br>10:26 AM 4.2 128<br>Sa 04:04 PM 7.3 223<br>11:21 PM 0.7 21 | <b>22</b> 06:45 AM 7.2 219<br>12:25 PM 3.6 110<br>Su 06:07 PM 6.7 204<br>● | <b>7</b> 05:51 AM 7.3 223<br>11:27 AM 3.7 113<br>M 05:03 PM 7.1 216<br>11:45 PM 0.9 27 | <b>22</b> 06:40 AM 7.7 235<br>12:54 PM 3.1 94<br>Tu 06:38 PM 6.1 186 | <b>8</b> 05:42 AM 6.0 183<br>10:40 AM 3.6 110<br>Th 04:36 PM 7.4 226<br>11:52 PM 0.9 27 | <b>23</b> 12:15 AM 0.1 3<br>07:14 AM 6.7 204<br>F 12:27 PM 3.8 116<br>● 06:22 PM 7.4 226 | <b>8</b> 06:30 AM 6.6 201<br>11:44 AM 4.1 125<br>Su 05:23 PM 7.0 213<br>● | <b>23</b> 12:42 AM 1.3 40<br>07:40 AM 7.4 226<br>M 01:40 PM 3.2 98<br>07:23 PM 6.4 195 | <b>8</b> 06:43 AM 7.7 235<br>12:43 PM 3.1 94<br>Tu 06:27 PM 6.7 204<br>● | <b>23</b> 12:36 AM 2.2 67<br>07:26 AM 7.8 238<br>W 02:00 PM 2.5 76<br>07:53 PM 6.0 183 | <b>9</b> 06:50 AM 5.8 177<br>11:40 AM 4.0 122<br>F 05:34 PM 7.1 216 | <b>24</b> 01:23 AM 0.6 18<br>08:26 AM 6.7 204<br>Sa 01:50 PM 3.7 113<br>07:41 PM 7.0 213 | <b>9</b> 12:25 AM 0.8 24<br>07:28 AM 6.9 210<br>M 01:05 PM 3.6 110<br>06:50 PM 6.9 210 | <b>24</b> 01:39 AM 1.6 49<br>08:27 AM 7.7 235<br>Tu 02:43 PM 2.5 76<br>08:33 PM 6.4 195 | <b>9</b> 12:44 AM 1.3 40<br>07:33 AM 8.2 250<br>W 01:54 PM 2.2 67<br>07:49 PM 6.7 204 | <b>24</b> 01:30 AM 2.8 85<br>08:10 AM 8.1 247<br>Th 02:57 PM 1.9 58<br>09:03 PM 6.1 186 | <b>10</b> 12:58 AM 1.0 30<br>08:03 AM 5.9 180<br>Sa 01:00 PM 4.0 122<br>● 06:54 PM 6.9 210 | <b>25</b> 02:31 AM 0.8 24<br>09:28 AM 7.0 213<br>Su 03:09 PM 3.2 98<br>08:58 PM 6.8 207 | <b>10</b> 01:28 AM 0.8 24<br>08:19 AM 7.5 229<br>Tu 02:16 PM 2.7 82<br>08:08 PM 7.0 213 | <b>25</b> 02:31 AM 2.0 61<br>09:07 AM 8.0 244<br>W 03:34 PM 1.8 55<br>09:34 PM 6.5 198 | <b>10</b> 01:44 AM 1.7 52<br>08:21 AM 8.8 268<br>Th 02:57 PM 1.1 34<br>09:03 PM 6.9 210 | <b>25</b> 02:23 AM 3.2 98<br>08:51 AM 8.3 253<br>F 03:45 PM 1.3 40<br>10:04 PM 6.3 192 | <b>11</b> 02:07 AM 0.8 24<br>09:09 AM 6.2 189<br>Su 02:24 PM 3.7 113<br>08:17 PM 7.0 213 | <b>26</b> 03:32 AM 1.0 30<br>10:17 AM 7.3 223<br>M 04:11 PM 2.5 76<br>10:04 PM 6.9 210 | <b>11</b> 02:26 AM 0.9 27<br>09:04 AM 8.2 250<br>W 03:15 PM 1.6 49<br>09:16 PM 7.4 226 | <b>26</b> 03:17 AM 2.2 67<br>09:42 AM 8.3 253<br>Th 04:16 PM 1.1 34<br>10:27 PM 6.7 204 | <b>11</b> 02:41 AM 2.0 61<br>09:08 AM 9.4 287<br>F 03:53 PM 0.1 3<br>10:10 PM 7.2 219 | <b>26</b> 03:13 AM 3.5 107<br>09:30 AM 8.6 262<br>Sa 04:27 PM 0.7 21<br>10:57 PM 6.7 204 | <b>12</b> 03:12 AM 0.5 15<br>10:02 AM 6.7 204<br>M 03:35 PM 3.0 91<br>09:29 PM 7.4 226 | <b>27</b> 04:22 AM 1.0 30<br>10:56 AM 7.6 232<br>Tu 05:00 PM 1.9 58<br>10:59 PM 7.1 216 | <b>12</b> 03:19 AM 0.9 27<br>09:45 AM 8.8 268<br>Th 04:08 PM 0.5 15<br>10:18 PM 7.7 235 | <b>27</b> 03:58 AM 2.5 76<br>10:15 AM 8.6 262<br>F 04:54 PM 0.6 18<br>11:14 PM 7.0 213 | <b>12</b> 03:37 AM 2.3 70<br>09:53 AM 9.9 302<br>Sa 04:44 PM -0.8 -24<br>11:10 PM 7.6 232 | <b>27</b> 04:00 AM 3.6 110<br>10:08 AM 8.8 268<br>Su 05:06 PM 0.2 6<br>11:42 PM 7.0 213 | <b>13</b> 04:08 AM 0.2 6<br>10:46 AM 7.3 223<br>Tu 04:33 PM 2.1 64<br>10:33 PM 7.8 238 | <b>28</b> 05:05 AM 1.2 37<br>11:29 AM 7.9 241<br>W 05:41 PM 1.2 37<br>11:47 PM 7.2 219 | <b>13</b> 04:08 AM 1.1 34<br>10:26 AM 9.5 290<br>F 04:58 PM -0.5 -15<br>11:15 PM 8.0 244 | <b>28</b> 04:37 AM 2.8 85<br>10:46 AM 8.8 268<br>Sa 05:30 PM 0.1 3<br>11:56 PM 7.1 216 | <b>13</b> 04:29 AM 2.6 79<br>10:38 AM 10.3 314<br>Su 05:32 PM -1.4 -43 | <b>28</b> 04:44 AM 3.7 113<br>10:46 AM 9.0 274<br>M 05:43 PM -0.2 -6 | <b>14</b> 04:57 AM 0.0 0<br>11:26 AM 8.0 244<br>W 05:25 PM 1.1 34<br>11:30 PM 8.2 250 | <b>29</b> 05:41 AM 1.4 43<br>11:59 AM 8.2 250<br>Th 06:18 PM 0.7 21 | <b>14</b> 04:55 AM 1.4 43<br>11:06 AM 10.0 305<br>Sa 05:45 PM -1.3 -40 | <b>29</b> 05:13 AM 3.0 91<br>11:17 AM 8.9 271<br>Su 06:04 PM -0.2 -6 | <b>14</b> 12:05 AM 7.8 238<br>05:20 AM 2.8 85<br>M 11:23 AM 10.4 317<br>● 06:19 PM -1.7 -52 | <b>29</b> 12:24 AM 7.2 219<br>05:26 AM 3.8 116<br>Tu 11:22 AM 9.2 280<br>06:20 PM -0.5 -15 | <b>15</b> 05:43 AM -0.1 -3<br>12:04 PM 8.6 262<br>Th 06:13 PM 0.1 3 | <b>30</b> 12:29 AM 7.3 223<br>06:15 AM 1.6 49<br>F 12:27 PM 8.4 256<br>06:53 PM 0.3 9 | <b>15</b> 12:09 AM 8.2 250<br>05:41 AM 1.8 55<br>Su 11:47 AM 10.3 314<br>● 06:32 PM -1.8 -55 | <b>30</b> 12:37 AM 7.3 223<br>05:49 AM 3.3 101<br>M 11:47 AM 9.0 274<br>O 06:39 PM -0.4 -12 | <b>15</b> 12:57 AM 8.0 244<br>06:10 AM 3.0 91<br>Tu 12:08 PM 10.3 314<br>07:05 PM -1.7 -52 | <b>30</b> 01:03 AM 7.4 226<br>06:06 AM 3.7 113<br>W 11:59 AM 9.2 280<br>O 06:57 PM -0.7 -21 | <b>31</b> 01:09 AM 7.4 226<br>06:47 AM 2.0 61<br>Sa 12:54 PM 8.5 259<br>O 07:26 PM 0.0 0 | <b>31</b> 01:41 AM 7.5 229<br>06:46 AM 3.7 113<br>Th 12:36 PM 9.2 280<br>07:35 PM -0.8 -24 |

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.  
 Referenced to Station: Toke Point ( 9440910 ) Time offset in mins (high: -37 low: -44) Height offset in feet (high: \*0.92 low: \*0.9)