河曲县人民政府

关于河道管理范围划界成果的公告

为贯彻落实中央关于加快水利改革发展的决策部署，结合全面推行河长制的工作需要，明确河道管理范围，明晰河道管理职责，切实加强河道管理，全面提升河流管理的法制化、规范化和专业化水平，维护河道管理秩序，确保河道防洪安全，推进水生态文明建设，根据《中华人民共和国水法》《中华人民共和国防洪法》《山西省河道管理条例》《水利部关于加强河湖管理工作的指导意见》《水利部关于开展河湖管理范围和水利工程管理与保护范围划定工作的通知》《省河长制办公室关于开展河湖和水库工程管理范围划界工作的通知》等法律法规和文件精神,忻州市水利局组织完成了县川河、朱家川河的河道治导线规划和管理范围划界工作。现将县川河、朱家川河河曲段的河道管理范围划界成果予以公告。

一、划界原则

（一）坚持依法依规，统筹规划。严格执行河道管理保护法律法规，统筹上下游、左右岸，正确处理利用与保护的关系、当前和长远的关系、水利和其他行业的关系。

（二）坚持遵循规律，因地制宜。充分遵循河道自然演变规律及演变趋势，因势利导满足河道行洪要求，科学合理确定河道管理范围。

（三）坚持人水和谐，保护优先。尊重科学，结合实际,既要满足经济社会发展对河道合理开发的需求，又要满足维护河道行洪及水生态安全的基本需求。

（四）以河道治导线规划成果为主要依据，尽量利用现有边界天然节点。

二、划界范围

本次河道管理范围划界为县川河、朱家川河2条市管河道河曲县段。

县川河河曲段河道中心线桩号为M68+305～M106+500；

朱家川河河曲段河道中心线桩号为M87+290～M107+880。

三、工作内容

河道管理范围划界主要工作内容包括：河道调查，地形图测量，水文水利计算、规划河道治导线和河道管理范围划界。

四、划界方法

本次河道划界依据《山西省河湖和水库工程管理范围划界技术规定》要求，通过外业调查、无人机航测，结合内业计算分析形成最终成果。基本步骤为：河道调查—地形图测量—确定河道防洪标准—水文水利计算（确定河道行洪断面）—划定河道治导线→划定河道管理范围。

五、划界标准

执行《山西省河湖和水库工程管理范围划界技术规定（试行）》技术要求。

（一）防洪标准。防洪标准确定为20年一遇。

（二）治导线标准。现有堤防或两岸控制性建筑物约束的河道达到防洪标准的,以堤防内边坡线或两岸控制性建筑物约束边界即临水控制线为治导线;现有堤防或两岸控制性建筑物约束的河道不达防洪标准的,按现状无堤防情况下规划治导线。现状无堤防河段,按设计洪水线边界线规划治导线。河道两侧岸坡阶地明显,且两侧岸坡之间的河宽满足或大于行洪要求的,以河道两侧岸坡规划治导线;如河道两侧岸坡线之间宽度太大,与上下游不好衔接,则根据河势变化按修筑堤防情况合理确定河宽，规划治导线。

（三）划界标准。现有堤防满足治导线规划要求的河段，河道管理范围边界线按现有堤防背水坡坡脚向外水平延伸5米划定。现有堤防不满足治导线规划要求或无堤防的河段，边界线按以治导线为临水控制性修筑堤防的情况，充分考虑设计底宽和护堤地的宽度划定。

六、划界成果

（一）县川河河曲段（M68+305～M106+500）

1.县川河河曲县段划界范围宽度：

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 中心线桩号 | 划界范围宽度（m） | 中心线桩号 | 划界范围宽度（m） | 中心线桩号 | 划界范围宽度（m） |
| M68+305 | 128.3 | M81+00 | 33.97 | M94+000 | 54.5 |
| M68+500 | 176.6 | M81+50 | 51.85 | M94+500 | 53.01 |
| M69+000 | 174 | M82+00 | 43.9 | M95+000 | 48.6 |
| M69+500 | 120.9 | M82+50 | 70.52 | M95+500 | 39.96 |
| M70+000 | 56.4 | M83+000 | 44.5 | M96+000 | 71.07 |
| M70+500 | 188.1 | M83+50 | 44.3 | M96+500 | 64.55 |
| M71+000 | 48.69 | M84+000 | 37.84 | M97+000 | 99.91 |
| M71+500 | 51.74 | M84+500 | 43.05 | M97+500 | 74.73 |
| M72+000 | 337.4 | M85+00 | 37.75 | M98+000 | 49.79 |
| M72+500 | 149.3 | M85+50 | 41.63 | M98+500 | 79.79 |
| M73+000 | 58.86 | M86+000 | 67.94 | M99+000 | 35.23 |
| M73+500 | 142.2 | M86+50 | 51.71 | M99+500 | 62.49 |
| M74+000 | 140.3 | M87+00 | 31.66 | M100+000 | 53.14 |
| M74+500 | 77.56 | M87+500 | 51.54 | M100+500 | 52.67 |
| M75+000 | 161.9 | M88+00 | 32.36 | M101+000 | 61.11 |
| M75+500 | 82.93 | M88+500 | 39.34 | M101+500 | 51.94 |
| M76+000 | 103.8 | M89+00 | 44.4 | M102+000 | 39.38 |
| M76+500 | 60.6 | M89+500 | 79.57 | M102+500 | 54.24 |
| M77+000 | 97.14 | M90+000 | 38.03 | M103+000 | 40.82 |
| M77+500 | 82.75 | M90+500 | 39.41 | M103+500 | 87.47 |
| M78+000 | 47.21 | M91+000 | 32.94 | M104+000 | 54.59 |
| M78+500 | 36.28 | M91+500 | 30.04 | M104+500 | 54.59 |
| M79+000 | 42.57 | M92+000 | 28.98 | M105+000 | 46.72 |
| M79+500 | 46.36 | M92+500 | 42.21 | M105+500 | 62.39 |
| M80+000 | 43.35 | M93+000 | 40.9 | M106+000 | 34.19 |
| M80+500 | 57.1 | M93+500 | 45.48 | M106+500 | 85.72 |

2.县川河河曲县段管理范围划界桩坐标（左岸）

| 桩号 | 坐标值（m） | | 桩号 | 坐标值（m） | |
| --- | --- | --- | --- | --- | --- |
| X | Y | X | Y |
| HL70+100 | 4336005.947 | 37543418.347 | HL74+100 | 4334193.814 | 37540559.929 |
| HL70+200 | 4335917.559 | 37543373.841 | HL74+200 | 4334200.305 | 37540463.077 |
| HL70+300 | 4335834.599 | 37543331.543 | HL74+300 | 4334132.120 | 37540393.244 |
| HL70+400 | 4335758.206 | 37543281.951 | HL74+400 | 4334046.642 | 37540341.920 |
| HL70+500 | 4335693.966 | 37543219.902 | HL74+500 | 4333947.170 | 37540333.927 |
| HL70+600 | 4335619.576 | 37543175.871 | HL74+600 | 4333847.292 | 37540328.985 |
| HL70+700 | 4335545.377 | 37543114.427 | HL74+700 | 4333747.414 | 37540324.044 |
| HL70+800 | 4335455.410 | 37543070.768 | HL74+800 | 4333655.955 | 37540292.027 |
| HL70+900 | 4335365.444 | 37543027.109 | HL74+900 | 4333587.662 | 37540219.311 |
| HL71+000 | 4335275.683 | 37542983.060 | HL75+000 | 4333572.507 | 37540121.725 |
| HL71+100 | 4335205.705 | 37542912.062 | HL75+100 | 4333566.678 | 37540022.047 |
| HL71+200 | 4335141.072 | 37542836.084 | HL75+200 | 4333513.376 | 37539938.230 |
| HL71+300 | 4335090.637 | 37542777.160 | HL75+300 | 4333489.875 | 37539842.761 |
| HL71+400 | 4335043.803 | 37542703.652 | HL75+400 | 4333498.613 | 37539743.796 |
| HL71+500 | 4335004.943 | 37542627.768 | HL75+500 | 4333493.208 | 37539645.716 |
| HL71+600 | 4334949.878 | 37542545.764 | HL75+600 | 4333466.451 | 37539549.363 |
| HL71+700 | 4334904.344 | 37542456.732 | HL75+700 | 4333416.947 | 37539464.552 |
| HL71+800 | 4334858.810 | 37542367.701 | HL75+800 | 4333349.989 | 37539390.282 |
| HL71+900 | 4334794.495 | 37542293.332 | HL75+900 | 4333258.618 | 37539354.107 |
| HL72+000 | 4334715.417 | 37542232.122 | HL76+000 | 4333181.487 | 37539296.896 |
| HL72+100 | 4334636.668 | 37542170.515 | HL76+100 | 4333143.113 | 37539204.920 |
| HL72+200 | 4334576.427 | 37542090.801 | HL76+200 | 4333113.099 | 37539115.277 |
| HL72+300 | 4334510.077 | 37542016.751 | HL76+300 | 4333044.063 | 37539043.014 |
| HL72+400 | 4334433.771 | 37541952.119 | HL76+400 | 4332957.666 | 37538992.749 |
| HL72+500 | 4334358.661 | 37541887.248 | HL76+500 | 4332882.291 | 37538931.837 |
| HL72+600 | 4334268.119 | 37541863.717 | HL76+600 | 4332885.049 | 37538832.050 |
| HL72+700 | 4334188.926 | 37541802.987 | HL76+700 | 4332884.431 | 37538732.289 |
| HL72+800 | 4334123.790 | 37541727.110 | HL76+800 | 4332874.177 | 37538632.820 |
| HL72+900 | 4334052.128 | 37541658.450 | HL76+900 | 4332884.406 | 37538533.401 |
| HL73+000 | 4333967.609 | 37541605.004 | HL77+000 | 4332911.590 | 37538439.046 |
| HL73+100 | 4333941.969 | 37541514.497 | HL77+100 | 4332997.621 | 37538390.379 |
| HL73+200 | 4333974.672 | 37541424.090 | HL77+200 | 4333089.669 | 37538351.298 |
| HL73+300 | 4334010.562 | 37541330.760 | HL77+300 | 4333181.716 | 37538312.218 |
| HL73+400 | 4334046.184 | 37541237.319 | HL77+400 | 4333262.875 | 37538257.916 |
| HL73+500 | 4334076.421 | 37541142.608 | HL77+500 | 4333268.588 | 37538160.336 |
| HL73+600 | 4334081.934 | 37541042.760 | HL77+600 | 4333297.988 | 37538072.406 |
| HL73+700 | 4334084.704 | 37540942.822 | HL77+700 | 4333325.924 | 37537988.947 |
| HL73+800 | 4334100.355 | 37540844.533 | HL77+800 | 4333293.516 | 37537894.424 |
| HL73+900 | 4334130.714 | 37540749.589 | HL77+900 | 4333261.811 | 37537799.583 |
| HL74+000 | 4334163.662 | 37540655.275 | HL78+000 | 4333215.357 | 37537711.639 |
| HL78+100 | 4333159.681 | 37537628.606 | HL82+100 | 4333522.882 | 37533969.450 |
| HL78+200 | 4333111.084 | 37537541.208 | HL82+200 | 4333523.792 | 37533869.456 |
| HL78+300 | 4333062.487 | 37537453.810 | HL82+300 | 4333500.985 | 37533772.533 |
| HL78+400 | 4333013.890 | 37537366.413 | HL82+400 | 4333473.941 | 37533676.422 |
| HL78+500 | 4332989.365 | 37537276.478 | HL82+500 | 4333459.023 | 37533577.546 |
| HL78+600 | 4333081.204 | 37537253.163 | HL82+600 | 4333430.296 | 37533481.792 |
| HL78+700 | 4333140.190 | 37537198.855 | HL82+700 | 4333399.677 | 37533386.623 |
| HL78+800 | 4333165.802 | 37537105.475 | HL82+800 | 4333350.438 | 37533299.658 |
| HL78+900 | 4333220.928 | 37537028.289 | HL82+900 | 4333314.648 | 37533207.512 |
| HL79+000 | 4333267.437 | 37536941.191 | HL83+000 | 4333302.436 | 37533108.261 |
| HL79+100 | 4333312.364 | 37536852.423 | HL83+100 | 4333287.655 | 37533009.489 |
| HL79+200 | 4333386.107 | 37536788.157 | HL83+200 | 4333249.557 | 37532917.195 |
| HL79+300 | 4333421.736 | 37536700.963 | HL83+300 | 4333248.834 | 37532817.666 |
| HL79+400 | 4333432.690 | 37536601.564 | HL83+400 | 4333179.404 | 37532751.043 |
| HL79+500 | 4333414.945 | 37536503.928 | HL83+500 | 4333096.567 | 37532695.299 |
| HL79+600 | 4333440.495 | 37536407.522 | HL83+600 | 4333040.727 | 37532612.411 |
| HL79+700 | 4333467.617 | 37536311.288 | HL83+700 | 4333013.894 | 37532516.655 |
| HL79+800 | 4333491.936 | 37536214.290 | HL83+800 | 4332989.480 | 37532420.095 |
| HL79+900 | 4333515.909 | 37536117.211 | HL83+900 | 4332936.964 | 37532335.052 |
| HL80+000 | 4333537.297 | 37536019.525 | HL84+000 | 4332882.473 | 37532251.229 |
| HL80+100 | 4333571.594 | 37535926.907 | HL84+100 | 4332804.475 | 37532190.217 |
| HL80+200 | 4333628.112 | 37535844.412 | HL84+200 | 4332712.799 | 37532151.867 |
| HL80+300 | 4333625.462 | 37535746.388 | HL84+300 | 4332619.461 | 37532182.501 |
| HL80+400 | 4333625.295 | 37535647.147 | HL84+400 | 4332530.729 | 37532228.617 |
| HL80+500 | 4333636.894 | 37535547.899 | HL84+500 | 4332446.355 | 37532215.869 |
| HL80+600 | 4333613.299 | 37535450.874 | HL84+600 | 4332348.934 | 37532197.408 |
| HL80+700 | 4333602.039 | 37535353.109 | HL84+700 | 4332253.156 | 37532212.531 |
| HL80+800 | 4333631.106 | 37535257.427 | HL84+800 | 4332153.559 | 37532203.557 |
| HL80+900 | 4333639.328 | 37535158.687 | HL84+900 | 4332065.744 | 37532157.045 |
| HL81+000 | 4333629.052 | 37535059.217 | HL85+000 | 4331978.573 | 37532108.688 |
| HL81+100 | 4333618.776 | 37534959.746 | HL85+100 | 4331879.116 | 37532100.043 |
| HL81+200 | 4333608.499 | 37534860.276 | HL85+200 | 4331780.994 | 37532080.754 |
| HL81+300 | 4333601.892 | 37534760.500 | HL85+300 | 4331683.676 | 37532058.190 |
| HL81+400 | 4333595.643 | 37534660.696 | HL85+400 | 4331588.327 | 37532028.197 |
| HL81+500 | 4333589.395 | 37534560.891 | HL85+500 | 4331495.323 | 37531991.452 |
| HL81+600 | 4333583.146 | 37534461.086 | HL85+600 | 4331402.318 | 37531954.707 |
| HL81+700 | 4333575.203 | 37534361.462 | HL85+700 | 4331309.314 | 37531917.962 |
| HL81+800 | 4333545.468 | 37534266.040 | HL85+800 | 4331215.048 | 37531885.003 |
| HL81+900 | 4333521.135 | 37534169.435 | HL85+900 | 4331118.431 | 37531859.212 |
| HL82+000 | 4333521.817 | 37534069.444 | HL86+000 | 4331021.814 | 37531833.420 |
| HL86+100 | 4330924.965 | 37531808.678 | HL90+100 | 4331840.242 | 37528470.221 |
| HL86+200 | 4330826.225 | 37531792.854 | HL90+200 | 4331867.879 | 37528374.216 |
| HL86+300 | 4330737.714 | 37531752.482 | HL90+300 | 4331922.377 | 37528291.071 |
| HL86+400 | 4330659.909 | 37531689.706 | HL90+400 | 4331993.495 | 37528225.962 |
| HL86+500 | 4330606.094 | 37531606.566 | HL90+500 | 4331984.664 | 37528127.708 |
| HL86+600 | 4330597.624 | 37531509.160 | HL90+600 | 4331985.165 | 37528027.709 |
| HL86+700 | 4330630.479 | 37531419.110 | HL90+700 | 4332027.567 | 37527939.581 |
| HL86+800 | 4330618.188 | 37531321.118 | HL90+800 | 4332060.728 | 37527847.875 |
| HL86+900 | 4330675.207 | 37531242.140 | HL90+900 | 4332127.071 | 37527773.186 |
| HL87+000 | 4330752.820 | 37531179.511 | HL91+000 | 4332201.173 | 37527708.792 |
| HL87+100 | 4330789.397 | 37531087.309 | HL91+100 | 4332297.427 | 37527681.678 |
| HL87+200 | 4330847.918 | 37531006.438 | HL91+200 | 4332364.742 | 37527615.200 |
| HL87+300 | 4330908.920 | 37530927.199 | HL91+300 | 4332445.779 | 37527572.481 |
| HL87+400 | 4330969.921 | 37530847.961 | HL91+400 | 4332541.381 | 37527593.741 |
| HL87+500 | 4331018.100 | 37530761.067 | HL91+500 | 4332631.088 | 37527637.930 |
| HL87+600 | 4331051.471 | 37530667.179 | HL91+600 | 4332726.603 | 37527664.310 |
| HL87+700 | 4331059.276 | 37530568.273 | HL91+700 | 4332826.379 | 37527670.999 |
| HL87+800 | 4331036.302 | 37530470.948 | HL91+800 | 4332926.162 | 37527676.955 |
| HL87+900 | 4331044.537 | 37530371.993 | HL91+900 | 4332946.231 | 37527606.637 |
| HL88+000 | 4331085.665 | 37530281.251 | HL92+000 | 4332967.179 | 37527508.856 |
| HL88+100 | 4331117.345 | 37530186.402 | HL92+100 | 4332990.492 | 37527411.699 |
| HL88+200 | 4331148.266 | 37530091.334 | HL92+200 | 4333014.866 | 37527314.854 |
| HL88+300 | 4331162.071 | 37529992.295 | HL92+300 | 4333029.762 | 37527216.003 |
| HL88+400 | 4331175.699 | 37529893.228 | HL92+400 | 4333048.228 | 37527117.865 |
| HL88+500 | 4331194.712 | 37529795.517 | HL92+500 | 4333072.598 | 37527020.880 |
| HL88+600 | 4331237.441 | 37529705.106 | HL92+600 | 4333090.030 | 37526923.009 |
| HL88+700 | 4331280.171 | 37529614.695 | HL92+700 | 4333096.312 | 37526823.908 |
| HL88+800 | 4331310.102 | 37529519.934 | HL92+800 | 4333043.435 | 37526742.760 |
| HL88+900 | 4331329.511 | 37529421.836 | HL92+900 | 4332958.746 | 37526691.325 |
| HL89+000 | 4331334.537 | 37529323.214 | HL93+000 | 4332965.360 | 37526594.922 |
| HL89+100 | 4331329.972 | 37529224.125 | HL93+100 | 4333004.867 | 37526506.467 |
| HL89+200 | 4331339.431 | 37529124.573 | HL93+200 | 4333029.062 | 37526410.426 |
| HL89+300 | 4331374.610 | 37529031.366 | HL93+300 | 4333007.661 | 37526313.116 |
| HL89+400 | 4331447.631 | 37528964.513 | HL93+400 | 4332963.003 | 37526223.987 |
| HL89+500 | 4331491.374 | 37528876.554 | HL93+500 | 4332921.636 | 37526133.661 |
| HL89+600 | 4331537.428 | 37528788.260 | HL93+600 | 4332893.244 | 37526038.684 |
| HL89+700 | 4331544.951 | 37528691.473 | HL93+700 | 4332864.893 | 37525943.542 |
| HL89+800 | 4331622.902 | 37528660.283 | HL93+800 | 4332941.256 | 37525925.280 |
| HL89+900 | 4331705.688 | 37528618.031 | HL93+900 | 4333017.439 | 37525878.033 |
| HL90+000 | 4331773.563 | 37528544.595 | HL94+000 | 4333014.767 | 37525783.056 |
| HL94+100 | 4332995.841 | 37525694.891 | HL98+100 | 4335486.935 | 37523164.447 |
| HL94+200 | 4332987.420 | 37525606.237 | HL98+200 | 4335576.607 | 37523125.283 |
| HL94+300 | 4333039.560 | 37525521.619 | HL98+300 | 4335650.251 | 37523057.633 |
| HL94+400 | 4333071.103 | 37525428.906 | HL98+400 | 4335723.232 | 37522989.393 |
| HL94+500 | 4333142.718 | 37525364.042 | HL98+500 | 4335782.812 | 37522910.780 |
| HL94+600 | 4333236.006 | 37525333.777 | HL98+600 | 4335865.801 | 37522854.987 |
| HL94+700 | 4333332.896 | 37525323.870 | HL98+700 | 4335963.832 | 37522848.554 |
| HL94+800 | 4333406.203 | 37525264.284 | HL98+800 | 4336059.978 | 37522826.562 |
| HL94+900 | 4333432.364 | 37525168.959 | HL98+900 | 4336157.538 | 37522805.123 |
| HL95+000 | 4333497.897 | 37525114.221 | HL99+000 | 4336235.466 | 37522746.119 |
| HL95+100 | 4333583.805 | 37525078.473 | HL99+100 | 4336317.274 | 37522688.663 |
| HL95+200 | 4333644.406 | 37524999.543 | HL99+200 | 4336398.764 | 37522630.707 |
| HL95+300 | 4333710.720 | 37524925.565 | HL99+300 | 4336471.946 | 37522565.237 |
| HL95+400 | 4333771.504 | 37524846.170 | HL99+400 | 4336536.809 | 37522490.605 |
| HL95+500 | 4333819.281 | 37524758.323 | HL99+500 | 4336609.436 | 37522421.897 |
| HL95+600 | 4333863.513 | 37524669.422 | HL99+600 | 4336674.033 | 37522345.872 |
| HL95+700 | 4333887.864 | 37524573.331 | HL99+700 | 4336677.096 | 37522246.096 |
| HL95+800 | 4333915.330 | 37524479.613 | HL99+800 | 4336624.109 | 37522163.521 |
| HL95+900 | 4333946.064 | 37524384.718 | HL99+900 | 4336586.868 | 37522070.714 |
| HL96+000 | 4334018.290 | 37524327.907 | HL100+000 | 4336577.883 | 37521973.116 |
| HL96+100 | 4334115.999 | 37524313.496 | HL100+100 | 4336593.483 | 37521874.497 |
| HL96+200 | 4334187.941 | 37524246.189 | HL100+200 | 4336621.219 | 37521778.457 |
| HL96+300 | 4334250.075 | 37524167.835 | HL100+300 | 4336657.305 | 37521685.195 |
| HL96+400 | 4334311.682 | 37524089.089 | HL100+400 | 4336701.556 | 37521596.124 |
| HL96+500 | 4334377.679 | 37524016.895 | HL100+500 | 4336757.026 | 37521514.739 |
| HL96+600 | 4334471.871 | 37523984.789 | HL100+600 | 4336773.686 | 37521417.448 |
| HL96+700 | 4334561.037 | 37523946.241 | HL100+700 | 4336762.079 | 37521319.220 |
| HL96+800 | 4334610.588 | 37523859.608 | HL100+800 | 4336719.526 | 37521229.072 |
| HL96+900 | 4334630.598 | 37523761.890 | HL100+900 | 4336684.925 | 37521135.249 |
| HL97+000 | 4334670.315 | 37523671.082 | HL101+000 | 4336673.389 | 37521036.797 |
| HL97+100 | 4334730.658 | 37523591.950 | HL101+100 | 4336664.952 | 37520937.393 |
| HL97+200 | 4334786.342 | 37523509.128 | HL101+200 | 4336674.465 | 37520839.680 |
| HL97+300 | 4334847.306 | 37523429.860 | HL101+300 | 4336673.630 | 37520741.497 |
| HL97+400 | 4334907.488 | 37523350.069 | HL101+400 | 4336666.733 | 37520642.647 |
| HL97+500 | 4334962.029 | 37523267.124 | HL101+500 | 4336679.931 | 37520543.522 |
| HL97+600 | 4335038.503 | 37523208.437 | HL101+600 | 4336683.717 | 37520443.827 |
| HL97+700 | 4335136.238 | 37523209.639 | HL101+700 | 4336677.297 | 37520344.475 |
| HL97+800 | 4335208.013 | 37523156.541 | HL101+800 | 4336656.264 | 37520247.382 |
| HL97+900 | 4335295.844 | 37523119.206 | HL101+900 | 4336668.851 | 37520148.177 |
| HL98+000 | 4335388.233 | 37523154.700 | HL102+000 | 4336697.175 | 37520052.491 |
| HL102+100 | 4336722.949 | 37519956.115 | HL105+800 | 4336065.456 | 37516813.836 |
| HL102+200 | 4336774.649 | 37519870.761 | HL105+900 | 4336060.292 | 37516713.986 |
| HL102+300 | 4336826.796 | 37519785.570 | HL106+000 | 4336023.830 | 37516628.399 |
| HL102+400 | 4336814.837 | 37519688.397 | HL106+100 | 4335953.461 | 37516557.355 |
| HL102+500 | 4336781.182 | 37519594.850 | HL106+200 | 4335916.061 | 37516476.235 |
| HL102+600 | 4336725.207 | 37519511.983 | HL106+300 | 4335907.784 | 37516377.882 |
| HL102+700 | 4336669.233 | 37519429.116 | HL106+400 | 4335966.686 | 37516301.340 |
| HL102+800 | 4336613.258 | 37519346.250 | HL106+500 | 4335957.811 | 37516205.513 |
| HL102+900 | 4336569.977 | 37519258.782 | HL106+600 | 4335937.931 | 37516108.074 |
| HL103+000 | 4336615.261 | 37519177.641 | HL106+700 | 4335923.260 | 37516010.010 |
| HL103+100 | 4336586.983 | 37519083.351 | HL106+800 | 4335940.808 | 37515911.582 |
| HL103+200 | 4336626.802 | 37518992.332 | HL106+900 | 4335936.722 | 37515822.312 |
| HL103+300 | 4336643.537 | 37518896.534 | HL107+000 | 4335936.532 | 37515723.483 |
| HL103+400 | 4336641.735 | 37518796.551 | HL107+100 | 4335949.300 | 37515625.517 |
| HL103+500 | 4336639.933 | 37518696.567 | HL107+200 | 4335904.386 | 37515538.203 |
| HL103+600 | 4336606.408 | 37518605.470 | HL107+300 | 4335882.254 | 37515442.146 |
| HL103+700 | 4336533.809 | 37518539.259 | HL107+400 | 4335900.343 | 37515346.517 |
| HL103+800 | 4336471.495 | 37518461.049 | HL107+500 | 4335904.506 | 37515246.604 |
| HL103+900 | 4336409.180 | 37518382.838 | HL107+600 | 4335908.669 | 37515146.691 |
| HL104+000 | 4336379.973 | 37518291.069 | HL107+700 | 4335936.566 | 37515058.462 |
| HL104+100 | 4336433.542 | 37518208.447 | HL107+800 | 4336035.034 | 37515049.270 |
| HL104+200 | 4336482.085 | 37518123.044 | HL107+900 | 4336057.767 | 37514990.920 |
| HL104+300 | 4336514.716 | 37518029.201 | HL108+000 | 4335971.087 | 37514952.442 |
| HL104+400 | 4336577.757 | 37517951.576 | HL108+100 | 4335871.131 | 37514949.472 |
| HL104+500 | 4336589.410 | 37517858.187 | HL108+200 | 4335805.551 | 37514886.913 |
| HL104+600 | 4336553.853 | 37517764.722 | HL108+300 | 4335838.046 | 37514794.127 |
| HL104+700 | 4336502.940 | 37517681.310 | HL108+400 | 4335915.376 | 37514735.238 |
| HL104+800 | 4336483.113 | 37517585.347 | HL108+500 | 4335905.443 | 37514636.529 |
| HL104+900 | 4336464.121 | 37517488.539 | HL108+600 | 4335915.493 | 37514538.717 |
| HL105+000 | 4336391.931 | 37517421.662 | HL108+700 | 4335951.936 | 37514450.894 |
| HL105+100 | 4336297.861 | 37517402.084 | HL108+800 | 4335936.225 | 37514352.136 |
| HL105+200 | 4336251.218 | 37517315.084 | HL108+900 | 4335877.160 | 37514274.302 |
| HL105+300 | 4336226.243 | 37517226.581 | HL109+000 | 4335802.537 | 37514208.202 |
| HL105+400 | 4336156.693 | 37517154.727 | HL109+100 | 4335726.570 | 37514144.313 |
| HL105+500 | 4336088.946 | 37517081.525 | HL109+200 | 4335711.859 | 37514053.971 |
| HL105+600 | 4336030.070 | 37517002.623 | HL109+300 | 4335781.520 | 37513982.230 |
| HL105+700 | 4336037.162 | 37516905.700 | HL109+334 | 4335785.020 | 37513950.391 |

2、县川河河曲县段管理范围划界桩坐标（右岸）

| 桩号 | 坐标值（m） | | 桩号 | 坐标值（m） | |
| --- | --- | --- | --- | --- | --- |
| X | Y | X | Y |
| HR70+800 | 4335112.042 | 37542487.401 | HR74+700 | 4333566.307 | 37539885.453 |
| HR70+900 | 4335048.876 | 37542409.876 | HR74+800 | 4333557.577 | 37539786.922 |
| HR71+000 | 4334975.271 | 37542343.082 | HR74+900 | 4333556.160 | 37539686.932 |
| HR71+100 | 4334898.503 | 37542279.787 | HR75+000 | 4333554.744 | 37539586.942 |
| HR71+200 | 4334823.751 | 37542214.514 | HR75+100 | 4333564.539 | 37539487.680 |
| HR71+300 | 4334785.521 | 37542135.323 | HR75+200 | 4333561.823 | 37539392.596 |
| HR71+400 | 4334704.874 | 37542093.464 | HR75+300 | 4333470.459 | 37539356.909 |
| HR71+500 | 4334651.989 | 37542014.262 | HR75+400 | 4333387.014 | 37539302.655 |
| HR71+600 | 4334570.277 | 37541956.733 | HR75+500 | 4333311.971 | 37539238.282 |
| HR71+700 | 4334478.048 | 37541918.641 | HR75+600 | 4333357.820 | 37539168.143 |
| HR71+800 | 4334403.161 | 37541852.372 | HR75+700 | 4333356.889 | 37539075.868 |
| HR71+900 | 4334353.067 | 37541768.624 | HR75+800 | 4333290.605 | 37539007.089 |
| HR72+000 | 4334265.980 | 37541723.304 | HR75+900 | 4333209.164 | 37538949.061 |
| HR72+100 | 4334188.882 | 37541663.862 | HR76+000 | 4333116.626 | 37538918.211 |
| HR72+200 | 4334151.085 | 37541571.318 | HR76+100 | 4333025.601 | 37538882.289 |
| HR72+300 | 4334114.146 | 37541478.390 | HR76+200 | 4332982.420 | 37538794.620 |
| HR72+400 | 4334081.730 | 37541384.383 | HR76+300 | 4332967.070 | 37538695.819 |
| HR72+500 | 4334099.351 | 37541285.964 | HR76+400 | 4332967.053 | 37538596.777 |
| HR72+600 | 4334115.435 | 37541187.317 | HR76+500 | 4332981.503 | 37538497.843 |
| HR72+700 | 4334126.131 | 37541087.891 | HR76+600 | 4333062.881 | 37538451.595 |
| HR72+800 | 4334136.828 | 37540988.464 | HR76+700 | 4333160.714 | 37538430.889 |
| HR72+900 | 4334147.830 | 37540889.079 | HR76+800 | 4333258.547 | 37538410.182 |
| HR73+000 | 4334169.420 | 37540791.438 | HR76+900 | 4333356.380 | 37538389.476 |
| HR73+100 | 4334197.854 | 37540695.797 | HR77+000 | 4333450.220 | 37538359.534 |
| HR73+200 | 4334232.891 | 37540602.136 | HR77+100 | 4333462.655 | 37538266.949 |
| HR73+300 | 4334260.099 | 37540506.891 | HR77+200 | 4333431.941 | 37538171.782 |
| HR73+400 | 4334258.992 | 37540406.897 | HR77+300 | 4333401.227 | 37538076.616 |
| HR73+500 | 4334242.332 | 37540309.883 | HR77+400 | 4333392.051 | 37537978.408 |
| HR73+600 | 4334203.595 | 37540217.691 | HR77+500 | 4333380.723 | 37537879.434 |
| HR73+700 | 4334164.857 | 37540125.498 | HR77+600 | 4333351.397 | 37537784.299 |
| HR73+800 | 4334110.913 | 37540042.868 | HR77+700 | 4333305.961 | 37537695.937 |
| HR73+900 | 4334022.356 | 37539997.760 | HR77+800 | 4333246.467 | 37537615.559 |
| HR74+000 | 4333930.597 | 37540034.348 | HR77+900 | 4333186.803 | 37537535.314 |
| HR74+100 | 4333880.227 | 37540109.022 | HR78+000 | 4333120.321 | 37537460.992 |
| HR74+200 | 4333867.132 | 37540200.996 | HR78+100 | 4333102.929 | 37537363.655 |
| HR74+300 | 4333784.630 | 37540177.545 | HR78+200 | 4333159.639 | 37537282.004 |
| HR74+400 | 4333716.522 | 37540104.324 | HR78+300 | 4333195.880 | 37537189.544 |
| HR74+500 | 4333703.733 | 37540011.406 | HR78+400 | 4333222.281 | 37537103.463 |
| HR74+600 | 4333654.876 | 37539924.585 | HR78+500 | 4333274.600 | 37537018.241 |
| HR78+600 | 4333318.916 | 37536928.679 | HR82+500 | 4333417.617 | 37533318.659 |
| HR78+700 | 4333399.165 | 37536880.811 | HR82+600 | 4333363.914 | 37533234.303 |
| HR78+800 | 4333458.543 | 37536800.348 | HR82+700 | 4333345.705 | 37533138.439 |
| HR78+900 | 4333470.274 | 37536710.818 | HR82+800 | 4333349.486 | 37533038.511 |
| HR79+000 | 4333473.359 | 37536611.468 | HR82+900 | 4333326.882 | 37532948.875 |
| HR79+100 | 4333485.235 | 37536517.463 | HR83+000 | 4333283.267 | 37532868.001 |
| HR79+200 | 4333528.934 | 37536453.066 | HR83+100 | 4333295.731 | 37532770.088 |
| HR79+300 | 4333521.181 | 37536356.653 | HR83+200 | 4333238.656 | 37532692.752 |
| HR79+400 | 4333536.373 | 37536257.949 | HR83+300 | 4333141.473 | 37532676.445 |
| HR79+500 | 4333561.336 | 37536161.383 | HR83+400 | 4333082.770 | 37532600.409 |
| HR79+600 | 4333598.884 | 37536068.700 | HR83+500 | 4333059.160 | 37532504.295 |
| HR79+700 | 4333636.433 | 37535976.017 | HR83+600 | 4333037.451 | 37532408.887 |
| HR79+800 | 4333648.456 | 37535896.609 | HR83+700 | 4332986.479 | 37532322.854 |
| HR79+900 | 4333718.818 | 37535846.437 | HR83+800 | 4332935.506 | 37532236.820 |
| HR80+000 | 4333696.634 | 37535752.102 | HR83+900 | 4332865.955 | 37532166.208 |
| HR80+100 | 4333671.609 | 37535658.669 | HR84+000 | 4332776.340 | 37532121.841 |
| HR80+200 | 4333691.863 | 37535568.553 | HR84+100 | 4332680.890 | 37532098.840 |
| HR80+300 | 4333667.711 | 37535473.157 | HR84+200 | 4332584.673 | 37532103.095 |
| HR80+400 | 4333680.418 | 37535374.228 | HR84+300 | 4332517.105 | 37532170.810 |
| HR80+500 | 4333685.188 | 37535274.962 | HR84+400 | 4332417.587 | 37532161.991 |
| HR80+600 | 4333682.241 | 37535175.401 | HR84+500 | 4332318.123 | 37532155.407 |
| HR80+700 | 4333668.465 | 37535076.486 | HR84+600 | 4332219.261 | 37532170.450 |
| HR80+800 | 4333657.253 | 37534978.709 | HR84+700 | 4332124.999 | 37532139.797 |
| HR80+900 | 4333647.590 | 37534879.890 | HR84+800 | 4332039.743 | 37532087.762 |
| HR81+000 | 4333643.170 | 37534779.988 | HR84+900 | 4331959.612 | 37532033.146 |
| HR81+100 | 4333640.808 | 37534682.090 | HR85+000 | 4331866.943 | 37532049.157 |
| HR81+200 | 4333637.210 | 37534582.155 | HR85+100 | 4331767.687 | 37532037.503 |
| HR81+300 | 4333627.120 | 37534483.232 | HR85+200 | 4331672.380 | 37532007.321 |
| HR81+400 | 4333614.611 | 37534384.308 | HR85+300 | 4331577.274 | 37531976.419 |
| HR81+500 | 4333594.574 | 37534287.555 | HR85+400 | 4331484.402 | 37531939.461 |
| HR81+600 | 4333568.897 | 37534191.846 | HR85+500 | 4331392.048 | 37531901.110 |
| HR81+700 | 4333575.925 | 37534092.246 | HR85+600 | 4331299.694 | 37531862.760 |
| HR81+800 | 4333568.869 | 37533993.489 | HR85+700 | 4331203.697 | 37531835.154 |
| HR81+900 | 4333569.095 | 37533893.489 | HR85+800 | 4331106.967 | 37531809.790 |
| HR82+000 | 4333557.217 | 37533796.218 | HR85+900 | 4331010.237 | 37531784.425 |
| HR82+100 | 4333524.187 | 37533702.341 | HR86+000 | 4330913.122 | 37531761.079 |
| HR82+200 | 4333508.087 | 37533603.943 | HR86+100 | 4330816.196 | 37531744.125 |
| HR82+300 | 4333483.837 | 37533507.141 | HR86+200 | 4330725.488 | 37531702.131 |
| HR82+400 | 4333451.853 | 37533412.393 | HR86+300 | 4330653.313 | 37531633.883 |
| HR86+400 | 4330631.944 | 37531538.360 | HR90+300 | 4332020.905 | 37528141.309 |
| HR86+500 | 4330668.529 | 37531445.797 | HR90+400 | 4332029.461 | 37528046.486 |
| HR86+600 | 4330675.030 | 37531350.144 | HR90+500 | 4332058.235 | 37527967.089 |
| HR86+700 | 4330741.248 | 37531275.209 | HR90+600 | 4332081.713 | 37527870.789 |
| HR86+800 | 4330806.851 | 37531199.794 | HR90+700 | 4332158.224 | 37527809.025 |
| HR86+900 | 4330829.007 | 37531103.255 | HR90+800 | 4332228.191 | 37527738.064 |
| HR87+000 | 4330887.888 | 37531022.429 | HR90+900 | 4332324.758 | 37527713.223 |
| HR87+100 | 4330946.800 | 37530941.624 | HR91+000 | 4332389.945 | 37527646.037 |
| HR87+200 | 4331005.246 | 37530860.514 | HR91+100 | 4332472.268 | 37527609.548 |
| HR87+300 | 4331048.921 | 37530770.556 | HR91+200 | 4332555.497 | 37527660.876 |
| HR87+400 | 4331090.588 | 37530679.852 | HR91+300 | 4332650.823 | 37527691.093 |
| HR87+500 | 4331102.437 | 37530580.772 | HR91+400 | 4332748.606 | 37527709.834 |
| HR87+600 | 4331076.757 | 37530484.136 | HR91+500 | 4332848.049 | 37527720.161 |
| HR87+700 | 4331083.285 | 37530384.800 | HR91+600 | 4332948.025 | 37527722.342 |
| HR87+800 | 4331120.195 | 37530292.758 | HR91+700 | 4333027.815 | 37527668.654 |
| HR87+900 | 4331155.992 | 37530199.944 | HR91+800 | 4332992.195 | 37527577.567 |
| HR88+000 | 4331187.472 | 37530105.877 | HR91+900 | 4333023.760 | 37527486.447 |
| HR88+100 | 4331199.943 | 37530006.658 | HR92+000 | 4333063.068 | 37527413.799 |
| HR88+200 | 4331212.414 | 37529907.438 | HR92+100 | 4333065.465 | 37527313.828 |
| HR88+300 | 4331230.027 | 37529809.695 | HR92+200 | 4333078.609 | 37527214.922 |
| HR88+400 | 4331296.698 | 37529737.060 | HR92+300 | 4333096.467 | 37527116.530 |
| HR88+500 | 4331336.509 | 37529646.992 | HR92+400 | 4333114.325 | 37527018.137 |
| HR88+600 | 4331348.356 | 37529550.595 | HR92+500 | 4333132.182 | 37526919.745 |
| HR88+700 | 4331367.696 | 37529452.483 | HR92+600 | 4333134.465 | 37526821.463 |
| HR88+800 | 4331378.615 | 37529353.236 | HR92+700 | 4333095.350 | 37526729.585 |
| HR88+900 | 4331379.143 | 37529253.237 | HR92+800 | 4333032.645 | 37526651.699 |
| HR89+000 | 4331386.522 | 37529153.703 | HR92+900 | 4333021.939 | 37526564.710 |
| HR89+100 | 4331435.249 | 37529070.423 | HR93+000 | 4333054.904 | 37526470.754 |
| HR89+200 | 4331487.182 | 37528988.464 | HR93+100 | 4333055.552 | 37526371.218 |
| HR89+300 | 4331518.762 | 37528894.415 | HR93+200 | 4333025.268 | 37526276.203 |
| HR89+400 | 4331565.018 | 37528806.488 | HR93+300 | 4332987.896 | 37526183.449 |
| HR89+500 | 4331611.362 | 37528724.219 | HR93+400 | 4332950.523 | 37526090.695 |
| HR89+600 | 4331705.030 | 37528701.789 | HR93+500 | 4332913.151 | 37525997.941 |
| HR89+700 | 4331785.882 | 37528644.936 | HR93+600 | 4332928.863 | 37525947.246 |
| HR89+800 | 4331826.633 | 37528555.760 | HR93+700 | 4333018.563 | 37525925.396 |
| HR89+900 | 4331891.586 | 37528481.755 | HR93+800 | 4333044.767 | 37525832.696 |
| HR90+000 | 4331908.130 | 37528384.880 | HR93+900 | 4333038.182 | 37525733.900 |
| HR90+100 | 4331983.805 | 37528321.139 | HR94+000 | 4333030.446 | 37525638.171 |
| HR90+200 | 4332031.097 | 37528238.409 | HR94+100 | 4333064.733 | 37525547.040 |
| HR94+200 | 4333099.961 | 37525454.370 | HR98+100 | 4335715.751 | 37523054.369 |
| HR94+300 | 4333166.705 | 37525388.026 | HR98+200 | 4335785.153 | 37522982.575 |
| HR94+400 | 4333260.155 | 37525355.050 | HR98+300 | 4335879.140 | 37522949.688 |
| HR94+500 | 4333358.394 | 37525342.253 | HR98+400 | 4335975.119 | 37522921.616 |
| HR94+600 | 4333429.858 | 37525282.251 | HR98+500 | 4336071.098 | 37522893.544 |
| HR94+700 | 4333463.358 | 37525188.620 | HR98+600 | 4336167.082 | 37522865.490 |
| HR94+800 | 4333546.019 | 37525146.875 | HR98+700 | 4336254.734 | 37522820.846 |
| HR94+900 | 4333623.456 | 37525090.931 | HR98+800 | 4336329.339 | 37522754.256 |
| HR95+000 | 4333686.916 | 37525013.647 | HR98+900 | 4336409.464 | 37522695.739 |
| HR95+100 | 4333750.376 | 37524936.363 | HR99+000 | 4336496.057 | 37522647.416 |
| HR95+200 | 4333808.433 | 37524855.533 | HR99+100 | 4336549.439 | 37522563.398 |
| HR95+300 | 4333853.335 | 37524766.181 | HR99+200 | 4336609.459 | 37522483.942 |
| HR95+400 | 4333898.238 | 37524676.829 | HR99+300 | 4336684.262 | 37522417.915 |
| HR95+500 | 4333932.653 | 37524583.827 | HR99+400 | 4336761.689 | 37522354.631 |
| HR95+600 | 4333948.809 | 37524485.141 | HR99+500 | 4336772.905 | 37522266.006 |
| HR95+700 | 4333986.103 | 37524394.602 | HR99+600 | 4336718.978 | 37522181.793 |
| HR95+800 | 4334076.485 | 37524358.272 | HR99+700 | 4336679.850 | 37522092.065 |
| HR95+900 | 4334171.592 | 37524333.322 | HR99+800 | 4336673.752 | 37521992.252 |
| HR96+000 | 4334234.593 | 37524256.271 | HR99+900 | 4336667.654 | 37521892.438 |
| HR96+100 | 4334292.992 | 37524175.094 | HR100+000 | 4336695.449 | 37521797.852 |
| HR96+200 | 4334351.390 | 37524093.918 | HR100+100 | 4336733.891 | 37521705.537 |
| HR96+300 | 4334436.310 | 37524045.280 | HR100+200 | 4336772.333 | 37521613.221 |
| HR96+400 | 4334533.186 | 37524020.480 | HR100+300 | 4336810.465 | 37521520.786 |
| HR96+500 | 4334606.990 | 37523963.081 | HR100+400 | 4336819.819 | 37521421.437 |
| HR96+600 | 4334650.595 | 37523873.130 | HR100+500 | 4336815.807 | 37521322.411 |
| HR96+700 | 4334671.003 | 37523775.343 | HR100+600 | 4336788.463 | 37521226.222 |
| HR96+800 | 4334722.158 | 37523689.924 | HR100+700 | 4336761.119 | 37521130.033 |
| HR96+900 | 4334780.230 | 37523608.513 | HR100+800 | 4336733.775 | 37521033.844 |
| HR97+000 | 4334838.302 | 37523527.103 | HR100+900 | 4336736.785 | 37520935.471 |
| HR97+100 | 4334896.373 | 37523445.692 | HR101+000 | 4336750.238 | 37520836.814 |
| HR97+200 | 4334954.445 | 37523364.282 | HR101+100 | 4336730.346 | 37520738.817 |
| HR97+300 | 4335012.517 | 37523282.871 | HR101+200 | 4336718.311 | 37520640.110 |
| HR97+400 | 4335100.125 | 37523254.270 | HR101+300 | 4336723.354 | 37520540.237 |
| HR97+500 | 4335198.151 | 37523250.778 | HR101+400 | 4336728.397 | 37520440.364 |
| HR97+600 | 4335275.472 | 37523189.096 | HR101+500 | 4336715.877 | 37520341.566 |
| HR97+700 | 4335374.574 | 37523200.104 | HR101+600 | 4336713.852 | 37520241.587 |
| HR97+800 | 4335473.602 | 37523214.016 | HR101+700 | 4336737.185 | 37520144.807 |
| HR97+900 | 4335565.708 | 37523185.869 | HR101+800 | 4336765.863 | 37520049.007 |
| HR98+000 | 4335644.038 | 37523123.705 | HR101+900 | 4336800.895 | 37519955.726 |
| HR102+000 | 4336847.105 | 37519867.043 | HR105+600 | 4336123.050 | 37516795.049 |
| HR102+100 | 4336886.091 | 37519775.728 | HR105+700 | 4336116.417 | 37516695.486 |
| HR102+200 | 4336886.595 | 37519675.742 | HR105+800 | 4336072.548 | 37516614.534 |
| HR102+300 | 4336850.913 | 37519583.064 | HR105+900 | 4336009.153 | 37516538.810 |
| HR102+400 | 4336796.305 | 37519500.196 | HR106+000 | 4335993.497 | 37516443.192 |
| HR102+500 | 4336730.741 | 37519424.688 | HR106+100 | 4336015.291 | 37516348.119 |
| HR102+600 | 4336671.685 | 37519344.499 | HR106+200 | 4336026.581 | 37516254.299 |
| HR102+700 | 4336631.910 | 37519257.067 | HR106+300 | 4336002.020 | 37516157.362 |
| HR102+800 | 4336678.226 | 37519175.102 | HR106+400 | 4335977.460 | 37516060.425 |
| HR102+900 | 4336637.884 | 37519088.574 | HR106+500 | 4335987.768 | 37515963.575 |
| HR103+000 | 4336682.928 | 37519000.267 | HR106+600 | 4335998.988 | 37515866.248 |
| HR103+100 | 4336708.794 | 37518904.937 | HR106+700 | 4335991.911 | 37515766.801 |
| HR103+200 | 4336696.703 | 37518805.944 | HR106+800 | 4335991.911 | 37515666.801 |
| HR103+300 | 4336689.707 | 37518706.189 | HR106+900 | 4335974.074 | 37515569.792 |
| HR103+400 | 4336666.129 | 37518610.875 | HR107+000 | 4335939.626 | 37515475.913 |
| HR103+500 | 4336611.562 | 37518527.508 | HR107+100 | 4335930.017 | 37515377.070 |
| HR103+600 | 4336543.906 | 37518455.439 | HR107+200 | 4335932.815 | 37515277.109 |
| HR103+700 | 4336485.195 | 37518376.107 | HR107+300 | 4335942.049 | 37515177.878 |
| HR103+800 | 4336462.596 | 37518285.487 | HR107+400 | 4335988.813 | 37515090.883 |
| HR103+900 | 4336522.782 | 37518205.632 | HR107+500 | 4336087.323 | 37515093.076 |
| HR104+000 | 4336535.477 | 37518109.319 | HR107+600 | 4336115.185 | 37515003.835 |
| HR104+100 | 4336577.748 | 37518020.237 | HR107+700 | 4336062.132 | 37514924.813 |
| HR104+200 | 4336635.207 | 37517938.393 | HR107+800 | 4335965.638 | 37514905.224 |
| HR104+300 | 4336652.389 | 37517845.141 | HR107+900 | 4335871.738 | 37514882.230 |
| HR104+400 | 4336601.631 | 37517761.281 | HR108+000 | 4335917.254 | 37514798.890 |
| HR104+500 | 4336547.812 | 37517678.272 | HR108+100 | 4335955.114 | 37514715.370 |
| HR104+600 | 4336522.524 | 37517584.233 | HR108+200 | 4335942.604 | 37514616.247 |
| HR104+700 | 4336506.744 | 37517486.114 | HR108+300 | 4335971.579 | 37514520.622 |
| HR104+800 | 4336448.020 | 37517406.938 | HR108+400 | 4335985.383 | 37514423.927 |
| HR104+900 | 4336361.704 | 37517364.758 | HR108+500 | 4335964.206 | 37514326.514 |
| HR105+000 | 4336306.784 | 37517307.042 | HR108+600 | 4335916.215 | 37514239.390 |
| HR105+100 | 4336281.100 | 37517212.559 | HR108+700 | 4335842.696 | 37514171.736 |
| HR105+200 | 4336208.026 | 37517146.367 | HR108+800 | 4335759.658 | 37514116.055 |
| HR105+300 | 4336139.108 | 37517074.492 | HR108+900 | 4335789.375 | 37514036.879 |
| HR105+400 | 4336095.491 | 37516984.506 | HR108+969 | 4335849.461 | 37514006.911 |
| HR105+500 | 4336091.367 | 37516888.514 |  |  |  |

（二）朱家川河河曲段（M87+290～M107+880）

1.朱家川河河曲县段划界范围宽度：

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 中心线桩号 | 划界范围宽度（m） | 中心线桩号 | 划界范围宽度（m） | 中心线桩号 | 划界范围宽度（m） |
| M87+500 | 65.48 | M94+500 | 42.84 | M101+500 | 68.59 |
| M88+000 | 109.07 | M95+000 | 47.75 | M102+000 | 35.06 |
| M88+500 | 97.24 | M95+500 | 57.18 | M102+500 | 57.17 |
| M89+000 | 79.28 | M96+000 | 61.83 | M103+000 | 36.69 |
| M89+500 | 63.07 | M96+500 | 64.73 | M103+500 | 47.68 |
| M90+000 | 66.77 | M97+000 | 57.42 | M104+000 | 48.25 |
| M90+500 | 55.11 | M97+500 | 59.35 | M104+500 | 41.71 |
| M91+000 | 95.80 | M98+000 | 75.38 | M105+000 | 32.88 |
| M91+500 | 50.91 | M98+500 | 64.83 | M105+500 | 48.34 |
| M92+000 | 42.38 | M99+000 | 45.30 | M106+000 | 62.30 |
| M92+500 | 167.62 | M99+500 | 52.46 | M106+500 | 40.91 |
| M93+000 | 66.98 | M100+000 | 55.64 | M107+000 | 40.42 |
| M93+500 | 48.93 | M100+500 | 37.74 | M107+500 | 34.04 |
| M94+000 | 81.93 | M101+000 | 29.80 |  |  |

2.朱家川河河曲县段管理范围划界桩坐标（左岸）

| 桩号 | 坐标值（m） | | 桩号 | 坐标值（m） | |
| --- | --- | --- | --- | --- | --- |
| X | Y | X | Y |
| HL89+600 | 4331537.4 | 37528788 | HL99+600 | 4336674 | 37522346 |
| HL89+700 | 4331545 | 37528691 | HL99+700 | 4336677.1 | 37522246 |
| HL89+800 | 4331622.9 | 37528660 | HL99+800 | 4336624.1 | 37522164 |
| HL89+900 | 4331705.7 | 37528618 | HL99+900 | 4336586.9 | 37522071 |
| HL90+000 | 4331773.6 | 37528545 | HL100+000 | 4336577.9 | 37521973 |
| HL90+100 | 4331840.2 | 37528470 | HL100+100 | 4336593.5 | 37521874 |
| HL90+200 | 4331867.9 | 37528374 | HL100+200 | 4336621.2 | 37521778 |
| HL90+300 | 4331922.4 | 37528291 | HL100+300 | 4336657.3 | 37521685 |
| HL90+400 | 4331993.5 | 37528226 | HL100+400 | 4336701.6 | 37521596 |
| HL90+500 | 4331984.7 | 37528128 | HL100+500 | 4336757 | 37521515 |
| HL90+600 | 4331985.2 | 37528028 | HL100+600 | 4336773.7 | 37521417 |
| HL90+700 | 4332027.6 | 37527940 | HL100+700 | 4336762.1 | 37521319 |
| HL90+800 | 4332060.7 | 37527848 | HL100+800 | 4336719.5 | 37521229 |
| HL90+900 | 4332127.1 | 37527773 | HL100+900 | 4336684.9 | 37521135 |
| HL91+000 | 4332201.2 | 37527709 | HL101+000 | 4336673.4 | 37521037 |
| HL91+100 | 4332297.4 | 37527682 | HL101+100 | 4336665 | 37520937 |
| HL91+200 | 4332364.7 | 37527615 | HL101+200 | 4336674.5 | 37520840 |
| HL91+300 | 4332445.8 | 37527572 | HL101+300 | 4336673.6 | 37520741 |
| HL91+400 | 4332541.4 | 37527594 | HL101+400 | 4336666.7 | 37520643 |
| HL91+500 | 4332631.1 | 37527638 | HL101+500 | 4336679.9 | 37520544 |
| HL91+600 | 4332726.6 | 37527664 | HL101+600 | 4336683.7 | 37520444 |
| HL91+700 | 4332826.4 | 37527671 | HL101+700 | 4336677.3 | 37520344 |
| HL91+800 | 4332926.2 | 37527677 | HL101+800 | 4336656.3 | 37520247 |
| HL91+900 | 4332946.2 | 37527607 | HL101+900 | 4336668.9 | 37520148 |
| HL92+000 | 4332967.2 | 37527509 | HL102+000 | 4336697.2 | 37520052 |
| HL92+100 | 4332990.5 | 37527412 | HL102+100 | 4336722.9 | 37519956 |
| HL92+200 | 4333014.9 | 37527315 | HL102+200 | 4336774.6 | 37519871 |
| HL92+300 | 4333029.8 | 37527216 | HL102+300 | 4336826.8 | 37519786 |
| HL92+400 | 4333048.2 | 37527118 | HL102+400 | 4336814.8 | 37519688 |
| HL92+500 | 4333072.6 | 37527021 | HL102+500 | 4336781.2 | 37519595 |
| HL92+600 | 4333090 | 37526923 | HL102+600 | 4336725.2 | 37519512 |
| HL92+700 | 4333096.3 | 37526824 | HL102+700 | 4336669.2 | 37519429 |
| HL92+800 | 4333043.4 | 37526743 | HL102+800 | 4336613.3 | 37519346 |
| HL92+900 | 4332958.7 | 37526691 | HL102+900 | 4336570 | 37519259 |
| HL93+000 | 4332965.4 | 37526595 | HL103+000 | 4336615.3 | 37519178 |
| HL93+100 | 4333004.9 | 37526506 | HL103+100 | 4336587 | 37519083 |
| HL93+200 | 4333029.1 | 37526410 | HL103+200 | 4336626.8 | 37518992 |
| HL93+300 | 4333007.7 | 37526313 | HL103+300 | 4336643.5 | 37518897 |
| HL93+400 | 4332963 | 37526224 | HL103+400 | 4336641.7 | 37518797 |
| HL93+500 | 4332921.6 | 37526134 | HL103+500 | 4336639.9 | 37518697 |
| HL93+600 | 4332893.2 | 37526039 | HL103+600 | 4336606.4 | 37518605 |
| HL93+700 | 4332864.9 | 37525944 | HL103+700 | 4336533.8 | 37518539 |
| HL93+800 | 4332941.3 | 37525925 | HL103+800 | 4336471.5 | 37518461 |
| HL93+900 | 4333017.4 | 37525878 | HL103+900 | 4336409.2 | 37518383 |
| HL94+000 | 4333014.8 | 37525783 | HL104+000 | 4336380 | 37518291 |
| HL94+100 | 4332995.8 | 37525695 | HL104+100 | 4336433.5 | 37518208 |
| HL94+200 | 4332987.4 | 37525606 | HL104+200 | 4336482.1 | 37518123 |
| HL94+300 | 4333039.6 | 37525522 | HL104+300 | 4336514.7 | 37518029 |
| HL94+400 | 4333071.1 | 37525429 | HL104+400 | 4336577.8 | 37517952 |
| HL94+500 | 4333142.7 | 37525364 | HL104+500 | 4336589.4 | 37517858 |
| HL94+600 | 4333236 | 37525334 | HL104+600 | 4336553.9 | 37517765 |
| HL94+700 | 4333332.9 | 37525324 | HL104+700 | 4336502.9 | 37517681 |
| HL94+800 | 4333406.2 | 37525264 | HL104+800 | 4336483.1 | 37517585 |
| HL94+900 | 4333432.4 | 37525169 | HL104+900 | 4336464.1 | 37517489 |
| HL95+000 | 4333497.9 | 37525114 | HL105+000 | 4336391.9 | 37517422 |
| HL95+100 | 4333583.8 | 37525078 | HL105+100 | 4336297.9 | 37517402 |
| HL95+200 | 4333644.4 | 37525000 | HL105+200 | 4336251.2 | 37517315 |
| HL95+300 | 4333710.7 | 37524926 | HL105+300 | 4336226.2 | 37517227 |
| HL95+400 | 4333771.5 | 37524846 | HL105+400 | 4336156.7 | 37517155 |
| HL95+500 | 4333819.3 | 37524758 | HL105+500 | 4336088.9 | 37517082 |
| HL95+600 | 4333863.5 | 37524669 | HL105+600 | 4336030.1 | 37517003 |
| HL95+700 | 4333887.9 | 37524573 | HL105+700 | 4336037.2 | 37516906 |
| HL95+800 | 4333915.3 | 37524480 | HL105+800 | 4336065.5 | 37516814 |
| HL95+900 | 4333946.1 | 37524385 | HL105+900 | 4336060.3 | 37516714 |
| HL96+000 | 4334018.3 | 37524328 | HL106+000 | 4336023.8 | 37516628 |
| HL96+100 | 4334116 | 37524313 | HL106+100 | 4335953.5 | 37516557 |
| HL96+200 | 4334187.9 | 37524246 | HL106+200 | 4335916.1 | 37516476 |
| HL96+300 | 4334250.1 | 37524168 | HL106+300 | 4335907.8 | 37516378 |
| HL96+400 | 4334311.7 | 37524089 | HL106+400 | 4335966.7 | 37516301 |
| HL96+500 | 4334377.7 | 37524017 | HL106+500 | 4335957.8 | 37516206 |
| HL96+600 | 4334471.9 | 37523985 | HL106+600 | 4335937.9 | 37516108 |
| HL96+700 | 4334561 | 37523946 | HL106+700 | 4335923.3 | 37516010 |
| HL96+800 | 4334610.6 | 37523860 | HL106+800 | 4335940.8 | 37515912 |
| HL96+900 | 4334630.6 | 37523762 | HL106+900 | 4335936.7 | 37515822 |
| HL97+000 | 4334670.3 | 37523671 | HL107+000 | 4335936.5 | 37515723 |
| HL97+100 | 4334730.7 | 37523592 | HL107+100 | 4335949.3 | 37515626 |
| HL97+200 | 4334786.3 | 37523509 | HL107+200 | 4335904.4 | 37515538 |
| HL97+300 | 4334847.3 | 37523430 | HL107+300 | 4335882.3 | 37515442 |
| HL97+400 | 4334907.5 | 37523350 | HL107+400 | 4335900.3 | 37515347 |
| HL97+500 | 4334962 | 37523267 | HL107+500 | 4335904.5 | 37515247 |
| HL97+600 | 4335038.5 | 37523208 | HL107+600 | 4335908.7 | 37515147 |
| HL97+700 | 4335136.2 | 37523210 | HL107+700 | 4335936.6 | 37515058 |
| HL97+800 | 4335208 | 37523157 | HL107+800 | 4336035 | 37515049 |
| HL97+900 | 4335295.8 | 37523119 | HL107+900 | 4336057.8 | 37514991 |
| HL98+000 | 4335388.2 | 37523155 | HL108+000 | 4335971.1 | 37514952 |
| HL98+100 | 4335486.9 | 37523164 | HL108+100 | 4335871.1 | 37514949 |
| HL98+200 | 4335576.6 | 37523125 | HL108+200 | 4335805.6 | 37514887 |
| HL98+300 | 4335650.3 | 37523058 | HL108+300 | 4335838 | 37514794 |
| HL98+400 | 4335723.2 | 37522989 | HL108+400 | 4335915.4 | 37514735 |
| HL98+500 | 4335782.8 | 37522911 | HL108+500 | 4335905.4 | 37514637 |
| HL98+600 | 4335865.8 | 37522855 | HL108+600 | 4335915.5 | 37514539 |
| HL98+700 | 4335963.8 | 37522849 | HL108+700 | 4335951.9 | 37514451 |
| HL98+800 | 4336060 | 37522827 | HL108+800 | 4335936.2 | 37514352 |
| HL98+900 | 4336157.5 | 37522805 | HL108+900 | 4335877.2 | 37514274 |
| HL99+000 | 4336235.5 | 37522746 | HL109+000 | 4335802.5 | 37514208 |
| HL99+100 | 4336317.3 | 37522689 | HL109+100 | 4335726.6 | 37514144 |
| HL99+200 | 4336398.8 | 37522631 | HL109+200 | 4335711.9 | 37514054 |
| HL99+300 | 4336471.9 | 37522565 | HL109+300 | 4335781.5 | 37513982 |
| HL99+400 | 4336536.8 | 37522491 | HL109+334 | 4335785 | 37513950 |
| HL99+500 | 4336609.4 | 37522422 |  |  |  |

3.朱家川河河曲县段管理范围划界桩坐标（右岸）

| 桩号 | 坐标值（m） | | 桩号 | 坐标值（m） | |
| --- | --- | --- | --- | --- | --- |
| X | Y | X | Y |
| HR89+300 | 4331518.762 | 37528894.42 | HR99+200 | 4336609.5 | 37522483.94 |
| HR89+400 | 4331565.018 | 37528806.49 | HR99+300 | 4336684.3 | 37522417.92 |
| HR89+500 | 4331611.362 | 37528724.22 | HR99+400 | 4336761.7 | 37522354.63 |
| HR89+600 | 4331705.03 | 37528701.79 | HR99+500 | 4336772.9 | 37522266.01 |
| HR89+700 | 4331785.882 | 37528644.94 | HR99+600 | 4336719 | 37522181.79 |
| HR89+800 | 4331826.633 | 37528555.76 | HR99+700 | 4336679.9 | 37522092.07 |
| HR89+900 | 4331891.586 | 37528481.76 | HR99+800 | 4336673.8 | 37521992.25 |
| HR90+000 | 4331908.13 | 37528384.88 | HR99+900 | 4336667.7 | 37521892.44 |
| HR90+100 | 4331983.805 | 37528321.14 | HR100+000 | 4336695.4 | 37521797.85 |
| HR90+200 | 4332031.097 | 37528238.41 | HR100+100 | 4336733.9 | 37521705.54 |
| HR90+300 | 4332020.905 | 37528141.31 | HR100+200 | 4336772.3 | 37521613.22 |
| HR90+400 | 4332029.461 | 37528046.49 | HR100+300 | 4336810.5 | 37521520.79 |
| HR90+500 | 4332058.235 | 37527967.09 | HR100+400 | 4336819.8 | 37521421.44 |
| HR90+600 | 4332081.713 | 37527870.79 | HR100+500 | 4336815.8 | 37521322.41 |
| HR90+700 | 4332158.224 | 37527809.03 | HR100+600 | 4336788.5 | 37521226.22 |
| HR90+800 | 4332228.191 | 37527738.06 | HR100+700 | 4336761.1 | 37521130.03 |
| HR90+900 | 4332324.758 | 37527713.22 | HR100+800 | 4336733.8 | 37521033.84 |
| HR91+000 | 4332389.945 | 37527646.04 | HR100+900 | 4336736.8 | 37520935.47 |
| HR91+100 | 4332472.268 | 37527609.55 | HR101+000 | 4336750.2 | 37520836.81 |
| HR91+200 | 4332555.497 | 37527660.88 | HR101+100 | 4336730.3 | 37520738.82 |
| HR91+300 | 4332650.823 | 37527691.09 | HR101+200 | 4336718.3 | 37520640.11 |
| HR91+400 | 4332748.606 | 37527709.83 | HR101+300 | 4336723.4 | 37520540.24 |
| HR91+500 | 4332848.049 | 37527720.16 | HR101+400 | 4336728.4 | 37520440.36 |
| HR91+600 | 4332948.025 | 37527722.34 | HR101+500 | 4336715.9 | 37520341.57 |
| HR91+700 | 4333027.815 | 37527668.65 | HR101+600 | 4336713.9 | 37520241.59 |
| HR91+800 | 4332992.195 | 37527577.57 | HR101+700 | 4336737.2 | 37520144.81 |
| HR91+900 | 4333023.76 | 37527486.45 | HR101+800 | 4336765.9 | 37520049.01 |
| HR92+000 | 4333063.068 | 37527413.8 | HR101+900 | 4336800.9 | 37519955.73 |
| HR92+100 | 4333065.465 | 37527313.83 | HR102+000 | 4336847.1 | 37519867.04 |
| HR92+200 | 4333078.609 | 37527214.92 | HR102+100 | 4336886.1 | 37519775.73 |
| HR92+300 | 4333096.467 | 37527116.53 | HR102+200 | 4336886.6 | 37519675.74 |
| HR92+400 | 4333114.325 | 37527018.14 | HR102+300 | 4336850.9 | 37519583.06 |
| HR92+500 | 4333132.182 | 37526919.75 | HR102+400 | 4336796.3 | 37519500.2 |
| HR92+600 | 4333134.465 | 37526821.46 | HR102+500 | 4336730.7 | 37519424.69 |
| HR92+700 | 4333095.35 | 37526729.59 | HR102+600 | 4336671.7 | 37519344.5 |
| HR92+800 | 4333032.645 | 37526651.7 | HR102+700 | 4336631.9 | 37519257.07 |
| HR92+900 | 4333021.939 | 37526564.71 | HR102+800 | 4336678.2 | 37519175.1 |
| HR93+000 | 4333054.904 | 37526470.75 | HR102+900 | 4336637.9 | 37519088.57 |
| HR93+100 | 4333055.552 | 37526371.22 | HR103+000 | 4336682.9 | 37519000.27 |
| HR93+200 | 4333025.268 | 37526276.2 | HR103+100 | 4336708.8 | 37518904.94 |
| HR93+300 | 4332987.896 | 37526183.45 | HR103+200 | 4336696.7 | 37518805.94 |
| HR93+400 | 4332950.523 | 37526090.7 | HR103+300 | 4336689.7 | 37518706.19 |
| HR93+500 | 4332913.151 | 37525997.94 | HR103+400 | 4336666.1 | 37518610.88 |
| HR93+600 | 4332928.863 | 37525947.25 | HR103+500 | 4336611.6 | 37518527.51 |
| HR93+700 | 4333018.563 | 37525925.4 | HR103+600 | 4336543.9 | 37518455.44 |
| HR93+800 | 4333044.767 | 37525832.7 | HR103+700 | 4336485.2 | 37518376.11 |
| HR93+900 | 4333038.182 | 37525733.9 | HR103+800 | 4336462.6 | 37518285.49 |
| HR94+000 | 4333030.446 | 37525638.17 | HR103+900 | 4336522.8 | 37518205.63 |
| HR94+100 | 4333064.733 | 37525547.04 | HR104+000 | 4336535.5 | 37518109.32 |
| HR94+200 | 4333099.961 | 37525454.37 | HR104+100 | 4336577.7 | 37518020.24 |
| HR94+300 | 4333166.705 | 37525388.03 | HR104+200 | 4336635.2 | 37517938.39 |
| HR94+400 | 4333260.155 | 37525355.05 | HR104+300 | 4336652.4 | 37517845.14 |
| HR94+500 | 4333358.394 | 37525342.25 | HR104+400 | 4336601.6 | 37517761.28 |
| HR94+600 | 4333429.858 | 37525282.25 | HR104+500 | 4336547.8 | 37517678.27 |
| HR94+700 | 4333463.358 | 37525188.62 | HR104+600 | 4336522.5 | 37517584.23 |
| HR94+800 | 4333546.019 | 37525146.88 | HR104+700 | 4336506.7 | 37517486.11 |
| HR94+900 | 4333623.456 | 37525090.93 | HR104+800 | 4336448 | 37517406.94 |
| HR95+000 | 4333686.916 | 37525013.65 | HR104+900 | 4336361.7 | 37517364.76 |
| HR95+100 | 4333750.376 | 37524936.36 | HR105+000 | 4336306.8 | 37517307.04 |
| HR95+200 | 4333808.433 | 37524855.53 | HR105+100 | 4336281.1 | 37517212.56 |
| HR95+300 | 4333853.335 | 37524766.18 | HR105+200 | 4336208 | 37517146.37 |
| HR95+400 | 4333898.238 | 37524676.83 | HR105+300 | 4336139.1 | 37517074.49 |
| HR95+500 | 4333932.653 | 37524583.83 | HR105+400 | 4336095.5 | 37516984.51 |
| HR95+600 | 4333948.809 | 37524485.14 | HR105+500 | 4336091.4 | 37516888.51 |
| HR95+700 | 4333986.103 | 37524394.6 | HR105+600 | 4336123.1 | 37516795.05 |
| HR95+800 | 4334076.485 | 37524358.27 | HR105+700 | 4336116.4 | 37516695.49 |
| HR95+900 | 4334171.592 | 37524333.32 | HR105+800 | 4336072.5 | 37516614.53 |
| HR96+000 | 4334234.593 | 37524256.27 | HR105+900 | 4336009.2 | 37516538.81 |
| HR96+100 | 4334292.992 | 37524175.09 | HR106+000 | 4335993.5 | 37516443.19 |
| HR96+200 | 4334351.39 | 37524093.92 | HR106+100 | 4336015.3 | 37516348.12 |
| HR96+300 | 4334436.31 | 37524045.28 | HR106+200 | 4336026.6 | 37516254.3 |
| HR96+400 | 4334533.186 | 37524020.48 | HR106+300 | 4336002 | 37516157.36 |
| HR96+500 | 4334606.99 | 37523963.08 | HR106+400 | 4335977.5 | 37516060.43 |
| HR96+600 | 4334650.595 | 37523873.13 | HR106+500 | 4335987.8 | 37515963.58 |
| HR96+700 | 4334671.003 | 37523775.34 | HR106+600 | 4335999 | 37515866.25 |
| HR96+800 | 4334722.158 | 37523689.92 | HR106+700 | 4335991.9 | 37515766.8 |
| HR96+900 | 4334780.23 | 37523608.51 | HR106+800 | 4335991.9 | 37515666.8 |
| HR97+000 | 4334838.302 | 37523527.1 | HR106+900 | 4335974.1 | 37515569.79 |
| HR97+100 | 4334896.373 | 37523445.69 | HR107+000 | 4335939.6 | 37515475.91 |
| HR97+200 | 4334954.445 | 37523364.28 | HR107+100 | 4335930 | 37515377.07 |
| HR97+300 | 4335012.517 | 37523282.87 | HR107+200 | 4335932.8 | 37515277.11 |
| HR97+400 | 4335100.125 | 37523254.27 | HR107+300 | 4335942 | 37515177.88 |
| HR97+500 | 4335198.151 | 37523250.78 | HR107+400 | 4335988.8 | 37515090.88 |
| HR97+600 | 4335275.472 | 37523189.1 | HR107+500 | 4336087.3 | 37515093.08 |
| HR97+700 | 4335374.574 | 37523200.1 | HR107+600 | 4336115.2 | 37515003.84 |
| HR97+800 | 4335473.602 | 37523214.02 | HR107+700 | 4336062.1 | 37514924.81 |
| HR97+900 | 4335565.708 | 37523185.87 | HR107+800 | 4335965.6 | 37514905.22 |
| HR98+000 | 4335644.038 | 37523123.71 | HR107+900 | 4335871.7 | 37514882.23 |
| HR98+100 | 4335715.751 | 37523054.37 | HR108+000 | 4335917.3 | 37514798.89 |
| HR98+200 | 4335785.153 | 37522982.58 | HR108+100 | 4335955.1 | 37514715.37 |
| HR98+300 | 4335879.14 | 37522949.69 | HR108+200 | 4335942.6 | 37514616.25 |
| HR98+400 | 4335975.119 | 37522921.62 | HR108+300 | 4335971.6 | 37514520.62 |
| HR98+500 | 4336071.098 | 37522893.54 | HR108+400 | 4335985.4 | 37514423.93 |
| HR98+600 | 4336167.082 | 37522865.49 | HR108+500 | 4335964.2 | 37514326.51 |
| HR98+700 | 4336254.734 | 37522820.85 | HR108+600 | 4335916.2 | 37514239.39 |
| HR98+800 | 4336329.339 | 37522754.26 | HR108+700 | 4335842.7 | 37514171.74 |
| HR98+900 | 4336409.464 | 37522695.74 | HR108+800 | 4335759.7 | 37514116.06 |
| HR99+000 | 4336496.057 | 37522647.42 | HR108+900 | 4335789.4 | 37514036.88 |
| HR99+100 | 4336549.439 | 37522563.4 | HR108+969 | 4335849.5 | 37514006.91 |

七、其它

（一）河道管理范围划界后，县自然资源部门负责确定划界范围内土地权属，向河道管理部门或相关单位颁发河道管理范围土地使用证，水利部门负责完成划界线界桩设置。

（二）河道管理范围内的土地属国家所有，由河道主管机关统一管理。禁止在河道管理范围内建设妨碍行洪的建筑物、构筑物以及从事影响河势稳定、危害河岸堤防安全和其他妨碍河道行洪的活动。对违反河道管理法律法规及本公告规定的单位和个人，依法追究法律责任。

（三）本公告自发布之日起实施。

特此公告

河曲县人民政府

2020年6月24日