



**MINISTERIO PARA LA TRANSICIÓN ECOLÓGICA Y EL RETO DEMOGRÁFICO**

SECRETARÍA DE ESTADO DE MEDIO AMBIENTE

**Dirección General del Agua**

**PROPUESTA DE PROYECTO DE PLAN  
HIDROLÓGICO DE LA DEMARCACIÓN  
HIDROGRÁFICA DEL SEGURA  
(REVISIÓN PARA EL TERCER CICLO: 2022-2027)**

**ANEXO IV DEL ANEJO VI**

**SIMULACIÓN MEDIANTE AUTOVALORES DE LAS  
MASAS DE AGUA SUBTERRÁNEA DE SINCLINAL  
DE CALASPARRA Y VEGA ALTA**

**Junio de 2021**

---



## ÍNDICE

<b>1. INTRODUCCIÓN .....</b>	<b>5</b>
------------------------------	----------





.1646E-03 .1920E-05 .2068E-04 -.1927E-03 .1198E-03 .7690E-04 -.2558E-03 .8656E-06 .1966E-08 -.6469E-04 .7239E-04 .6410E-04 .1281E-03 -.2253E-04 -.1423E-04 -.6699E-04 .2986E-04 -.1014E-04 .3131E-04 -.2218E-04 -.9573E-05 -.3155E-04 .7239E-05 .1658E-04 .4008E-04 .3255E-04 .1711E-04 -.3778E-13 -.9355E-05 -.4552E-04 -.2632E-06 .5255E-04 -.1996E-04 .9295E-05 .2020E-04 .3196E-04 .3613E-04 -.2496E-04 -.3143E-04 .7467E-04 .9877E-06 .8120E-05 -.9654E-05 -.9276E-05 .1571E-04 .8295E-05 -.1892E-04 .4791E-05 .1157E-04 .2689E-04 -.1508E-04 .8885E-05 .3063E-04 -.1570E-04 .3061E-05 .6543E-05 .1732E-04 .1498E-04 .1363E-04 -.2110E-04 .4219E-05 -.1885E-04 .2926E-05 -.7491E-05 -.5789E-06 .5210E-06 .8581E-05 .3640E-05 .4593E-05 .3142E-05 -.1108E-04 .1305E-06

"Comp.Detracciones imposibles"

-.2041E-02 .1894E-02 -.1817E-02 .8628E-02 -.1970E-03 .5183E-02 -.3312E-02 -.1240E-02 -.4030E-03 -.1253E-02 .1743E-02 .5854E-03 .1117E-02 -.2738E-02 -.2316E-02 -.1526E-02 .1614E-02 -.1399E-02 .4831E-03 -.1096E-02 -.8229E-03 -.1845E-02 .2099E-02 .6339E-03 -.2509E-03 -.2103E-03 -.1520E-02 -.2361E-03 -.1470E-03 -.7047E-03 -.1392E-02 .3199E-03 .1323E-03 .1697E-03 .1052E-03 -.8687E-03 .1433E-03 .3975E-03 .4254E-04 -.2776E-04 -.2703E-05 .6110E-05 .1818E-03 .1250E-04 -.1063E-04 .4467E-04 -.1579E-04 -.2686E-04 .1196E-04 -.1354E-03 -.8160E-05 -.1423E-05 .1950E-04 .4181E-05 -.7827E-05 -.9282E-05 -.5447E-05 .8962E-05 -.2032E-05 .6331E-05 .6545E-05 -.4153E-05 .6069E-05 .8304E-06 .6398E-05 -.1181E-05 -.7903E-05 .1627E-05 .3467E-04 -.4152E-05 .1055E-05 .2838E-05 .1273E-05 -.1507E-05 .2170E-05 -.2250E-05 -.5852E-06 .1353E-05 -.1568E-05 .1627E-05 -.8707E-06 .5206E-05 -.1700E-05 .1836E-05 -.1595E-06 .3061E-06 .7859E-06 -.1105E-05 -.1099E-05 .4281E-06 -.6777E-08 .2392E-06 -.1737E-05 -.3079E-05 .1586E-06 .4720E-06 .3659E-05 -.6199E-07 -.1443E-06 .1534E-06 .9505E-06 -.4817E-06 -.7987E-07 -.2314E-06 .1347E-06 -.5911E-08 -.1596E-07 .9636E-09 .1467E-07 -.2048E-06 .4459E-06 -.1498E-11 .3165E-07

"Intercambio río"

-.2630E+01 .3956E+01 -.1887E+01 .2148E+02 -.9171E+00 .2174E+02 -.1754E+02 -.1974E+01 -.1877E+00 -.7816E+01 .6374E+01 .4523E+01 .1003E+02 -.1308E+02 -.1175E+02 -.1602E+02 .4105E+01 -.1821E+02 .6429E+01 -.1449E+02 -.1580E+02 -.3439E+02 .3425E+02 .1057E+02 -.5352E+01 -.1014E+02 -.3561E+02 -.1168E+02 -.1235E+02 -.2720E+01 -.4290E+02 .3436E+01 .5302E+00 .1286E+02 .2208E+01 -.4847E+02 .5516E+01 .2069E+02 .4258E+00 -.2844E+01 -.1274E+01 .1035E+01 .1526E+02 .4859E+00 -.5549E+00 .1628E+01 -.6780E+00 -.2810E+00 -.8992E+00 -.2982E+02 -.1283E+00 .1684E+00 .1353E+01 .6849E+00 -.3307E+00 -.2821E+00 -.6793E+00 .7815E+00 .3635E+00 -.1459E+00 -.3302E+00 .8061E-01 .4909E+00 .3082E+00 .8742E+00 -.2599E+00 -.5529E+00 .4550E+00 .1852E+02 -.4230E+00 -.3061E+00 .4015E+00 .2249E+00 -.1322E+00 .1552E+00 -.1227E+00 .1391E+00 -.1124E+00 .5200E-01 .1427E+00 .5582E-02 .4835E+00 -.9227E-01 .8507E-01 .1268E-02 -.1851E-01 .1455E+00 -.8640E-01 -.1497E+00 .5633E-01 -.2858E-01 -.1402E-01 -.1076E+00 -.2315E+00 -.1097E-01 -.5135E-01 -.5195E-01 -.7056E-02 .1482E-02 -.1507E+00 .6250E-01 -.6786E-01 .6249E-01 -.1770E-01 .2870E-01 -.5765E-03 -.2552E-02 .8077E-03 .1192E-02 -.1657E-01 .3048E-01 .1244E-06 -.1523E-02



.8371E-02 .7795E-03 -.2358E-02 -.7712E-03 .4846E-05 .3435E-02 -.1205E-02 -.1294E-02 .5079E-02 -.2594E-02 -  
.3388E-02 -.1007E-02 -.5475E-04 -.3549E-02 -.1539E-03 -.5763E-03 -.1277E-02 -.2525E-02 -.5722E-04 .4035E-03 -  
.2601E-03 .4700E-03 -.5097E-03 .1044E-02 -.2644E-02 .4086E-03 .1714E-02 .8610E-06 -.1518E-02 -.4185E-03 .7654E-  
03 .4229E-03 -.1504E-02 .9010E-03 -.4030E-03 .3720E-03 -.1486E-03 .1164E-05 .2198E-04 .7453E-05 -.9263E-05  
.1298E-03 .6929E-05 .6362E-06 .1008E-06 .4399E-06 -.3069E-07 -.8431E-06 -.1028E-06 .4202E-07 .2183E-06 .4158E-  
09 .1630E-07 -.7542E-07 -.3535E-10 -.1384E-08 .5638E-08 -.1081E-07 .1468E-09 .4678E-09

"Infiltr.UDA 26"

.9457E-02 -.9594E-02 -.1683E-01 -.9378E-02 -.3301E-03 .5455E-02 -.2018E-02 -.1580E-02 .3966E-02 .1753E-01 -  
.9961E-02 -.5414E-02 .2165E-01 -.9354E-02 -.2291E-01 -.6874E-03 -.7485E-03 -.1489E-01 -.1666E-01 -.2564E-03 -  
.1143E-01 -.1837E-02 -.3866E-03 .7305E-02 .3263E-02 .1896E-02 -.2951E-03 -.8703E-02 -.6535E-03 .2178E-02 -  
.2843E-01 -.5394E-02 .1321E-01 -.2700E-02 -.2174E-04 -.7144E-03 .1005E-02 .3147E-03 -.1373E-02 .7305E-03  
.1272E-02 .1048E-03 -.6460E-04 .1145E-02 .5157E-04 -.7403E-03 .1651E-02 -.3475E-04 .3051E-04 .2958E-03 -.2990E-  
03 .4283E-03 -.5635E-04 -.2556E-03 -.3836E-04 -.1600E-03 -.7439E-03 -.2328E-04 .1423E-02 -.4782E-03 .1742E-03  
.2978E-03 -.6159E-06 .6947E-04 -.8501E-04 .4680E-04 -.2526E-04 -.3583E-05 .1955E-04 -.1339E-04 .1125E-05 -  
.1424E-04 -.1262E-06 -.2579E-08 -.2274E-06 -.1143E-08 .6542E-10 .9394E-05 .4646E-07 -.1755E-10 .9180E-06 -  
.1192E-12 -.3184E-11 -.1144E-06 .3618E-14 .8201E-13 -.2623E-06 -.1016E-06 -.4518E-07 .1226E-07

"Comp.Detracciones imposibles"

.2665E-02 -.2366E-02 -.1232E-01 -.8182E-03 -.1042E-02 -.1114E-01 -.1395E-02 -.8930E-04 .2010E-02 .1416E-02 -  
.1803E-01 -.9337E-03 .5647E-02 .1846E-02 .4667E-02 .1399E-02 -.1912E-03 -.4698E-02 -.7935E-02 .3670E-03 .1505E-  
02 .4830E-02 -.2050E-04 .1456E-02 -.1109E-02 .2165E-02 -.1842E-03 -.4536E-02 -.3322E-03 .1263E-02 .4086E-02 -  
.6325E-03 .1271E-02 .1051E-03 .5778E-05 -.6400E-03 -.2889E-02 .2723E-03 -.7716E-03 .3309E-03 -.3893E-03 .1982E-  
02 -.2425E-04 .2143E-03 .6103E-05 -.1774E-03 -.1178E-03 -.4761E-03 .1339E-03 -.9528E-03 -.7445E-03 -.7946E-04 -  
.4348E-04 .5606E-03 .2189E-04 .4648E-03 -.2904E-03 .1016E-03 -.3031E-04 -.6404E-04 .2872E-04 -.3643E-04 .1690E-  
03 -.6246E-05 -.4446E-04 .1569E-04 -.6198E-05 .1890E-04 .3218E-05 .2955E-03 .6871E-06 -.8898E-05 -.7467E-07 -  
.4054E-08 .9712E-06 -.2473E-08 .1654E-09 -.1872E-03 .2005E-04 -.1430E-09 -.1270E-05 -.1235E-11 -.4319E-10  
.9455E-05 .7715E-13 .2563E-11 -.9911E-06 -.2603E-05 .1500E-06 -.1731E-06

"Rel. rio-acuífero"

.3074E+00 -.3022E+00 -.1419E+01 -.2048E+00 -.1065E+00 -.2040E+01 -.1586E+00 -.8460E-01 .4978E+00 .6308E+00 -  
.1179E+02 .5542E+00 .1940E+01 .1130E+01 .2056E+01 .2088E+00 -.4128E-01 -.2766E+01 -.4886E+01 -.2646E+01 -  
.8750E+00 .1442E+02 .3926E+00 -.3502E+01 .2922E+00 -.1762E+00 .1929E-01 -.3688E-02 -.3908E-02 .7728E+01  
.1801E+01 .1132E+00 .4474E+00 -.4152E+00 .3408E-02 -.1379E+02 -.3136E+02 -.1703E-01 .1419E+00 .8542E-01 -  
.3768E+01 .1727E+02 -.1345E+01 -.7186E+00 -.2288E-01 -.4100E+00 .9604E+00 -.2434E+00 .4548E+01 .2486E+02  
.2534E+02 -.5276E+00 .3114E-01 .1893E+01 .5356E+00 .1975E+00 -.9254E+00 -.2530E+02 -.2210E+00 .2548E+00  
.1365E+00 .1088E+00 -.7368E-02 .3510E-01 -.8316E-01 .5158E-01 -.1997E+00 -.1573E+03 -.3018E-01 -.6902E+01 -  
.6466E-02 .7492E-01 .3484E-03 .7250E-05 .1918E+01 .1255E-05 -.7362E-07 -.6060E+01 -.1090E+02 -.9196E-06  
.1698E+00 -.1642E-08 -.2904E-07 .2018E+01 .6166E-11 .7704E-09 .2776E+01 .1935E+01 -.3782E+01 .1420E+01

"Nivel piezom. salida"

.1537E-04 -.1511E-04 -.7097E-04 -.1024E-04 -.5327E-05 -.1020E-03 -.7930E-05 -.4230E-05 .2489E-04 .3154E-04 -  
.5893E-03 .2771E-04 .9701E-04 .5648E-04 .1028E-03 .1044E-04 -.2064E-05 -.1383E-03 -.2443E-03 -.1323E-03 -  
.4375E-04 .7208E-03 .1963E-04 -.1751E-03 .1461E-04 -.8810E-05 .9646E-06 -.1844E-06 -.1954E-06 .3864E-03 .9006E-  
04 .5661E-05 .2237E-04 -.2076E-04 .1704E-06 .6894E-03 -.1568E-02 -.8513E-06 .7095E-05 -.4271E-05 -.1884E-03  
.8635E-03 -.6724E-04 -.3593E-04 -.1144E-05 -.2050E-04 .4802E-04 -.1217E-04 .2274E-03 .1243E-02 .1267E-02 -  
.2638E-04 .1557E-05 .9466E-04 .2678E-04 .9877E-05 -.4627E-04 -.1265E-02 -.1105E-04 .1274E-04 .6824E-05 .5438E-  
05 -.3684E-06 .1755E-05 -.4158E-05 .2579E-05 -.9987E-05 -.7863E-02 -.1509E-05 -.3451E-03 -.3233E-06 .3746E-05  
.1742E-07 .3625E-09 .9592E-04 .6277E-10 .3681E-11 -.3030E-03 -.5451E-03 -.4598E-10 .8491E-05 -.8211E-13 -  
.1452E-11 .1009E-03 .3083E-15 .3852E-13 .1388E-03 .9675E-04 -.1891E-03 .7098E-04