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|  | <b>Confederación Hidrográfica del Guadiana</b> | <b>Gestión de laboratorios</b>                     | <b>Informes</b> | <b>Report: R030412</b> |
|                                                                                 | <b>Fecha: 28-01-2014</b>                       | <b>Resultados de análisis por punto de control</b> |                 | <b>Página: 1</b>       |

|                                         |                                                      |                                                            |
|-----------------------------------------|------------------------------------------------------|------------------------------------------------------------|
| <b>Código:</b> GN00000019               | <b>Nombre del punto:</b> RIO GUADIANA - E.A. Luciana | <b>Cauce:</b> RIO GUADIANA                                 |
| <b>Código de la masa de agua:</b> 13353 | <b>Nombre de la masa de agua:</b> RIO GUADIANA IV    |                                                            |
| <b>Localidad:</b> Luciana               | <b>Provincia:</b> Ciudad Real                        | <b>UTM X:</b> 387939 <b>UTM Y:</b> 4315565 <b>Huso:</b> 30 |

|                                          |       | ENERO | FEBRERO | MARZO<br>07-03-2013 | ABRIL<br>22-04-2013 | MAYO<br>08-05-2013 | JUNIO<br>17-06-2013 | JULIO<br>03-07-2013 | AGOSTO<br>07-08-2013 | SEPTIEMBRE<br>16-09-2013 | OCTUBRE<br>03-10-2013 | NOVIEMBRE<br>18-11-2013 | DICIEMBRE<br>16-12-2013 |
|------------------------------------------|-------|-------|---------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| % Oxígeno (in situ)                      | % SAT | ---   | ---     | 96,6                | 96,6                | 97,2               | 119,6               | 148,9               | 74,9                 | 83,5                     | 86,3                  | 95,1                    | 114,3                   |
| Cloro residual total (in situ)           | mg/L  | ---   | ---     | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---                     | ---                     |
| Color aparente (in situ)                 | ----- | ---   | ---     | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---                     | ---                     |
| Conductividad a 20 °C (in situ)          | µS/cm | ---   | ---     | 642                 | 818                 | 1249               | 1563                | 1485                | 555                  | 576                      | 1064                  | 1033                    | 1061                    |
| Nitritos (in situ)                       | mg/L  | ---   | ---     | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---                     | ---                     |
| Olor (in situ)                           | ----- | ---   | ---     | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---                     | ---                     |
| Oxígeno disuelto (in situ)               | mg/L  | ---   | ---     | 9,2                 | 8,6                 | 8,3                | 9,5                 | 11,4                | 6,1                  | 7,2                      | 7,2                   | 10,3                    | 13,7                    |
| pH (in situ)                             | pH    | ---   | ---     | 7,8                 | 8,0                 | 8,0                | 8,5                 | 8,4                 | 7,8                  | 7,7                      | 8,2                   | 8,1                     | 8,5                     |
| Temperatura del agua "in situ" (in situ) | °C    | ---   | ---     | 14,5                | 18,0                | 20,2               | 24,0                | 26,5                | 22,1                 | 24,0                     | 21,3                  | 9,5                     | 5,6                     |
| Alcalinidad total                        | mg/L  | ---   | ---     | 125,7               | 124,6               | 181,7              | 236,7               | 196,0               | 119,5                | 109,5                    | 209,1                 | 222,4                   | 224,5                   |
| Aluminio                                 | mg/L  | ---   | ---     | 0,2509              | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | < 0,1000                | < 0,1000                |
| Amonio total                             | mg/L  | ---   | ---     | 0,14                | 0,06                | 0,07               | 0,18                | 0,10                | 0,13                 | 0,08                     | 0,31                  | 0,05                    | 0,14                    |
| Arsénico                                 | µg/L  | ---   | ---     | ---                 | 1,413               | 2,060              | 3,731               | 3,328               | 1,780                | ---                      | ---                   | 1,372                   | 1,058                   |
| Arsénico                                 | mg/L  | ---   | ---     | < 0,025000          | ---                 | ---                | ---                 | ---                 | ---                  | < 0,025000               | < 0,025000            | ---                     | ---                     |
| Aspecto                                  | ----- | ---   | ---     | 1                   | 1                   | 1                  | 2                   | 2                   | 1                    | 2                        | 1                     | 1                       | 1                       |
| Bario                                    | mg/L  | ---   | ---     | 0,0721              | 0,0537              | 0,0646             | 0,0550              | 0,0584              | 0,0574               | 0,0623                   | 0,0613                | 0,0638                  | 0,0504                  |
| Bicarbonatos                             | mg/L  | ---   | ---     | 125,7               | 124,6               | 181,7              | 214,0               | 196,0               | 119,5                | 109,5                    | 209,1                 | 222,4                   | 224,5                   |
| Boro                                     | mg/L  | ---   | ---     | < 0,1000            | < 0,1000            | 0,1027             | < 0,1000            | 0,1093              | < 0,1000             | < 0,1000                 | < 0,1000              | < 0,1000                | < 0,1000                |
| Cadmio                                   | µg/L  | ---   | ---     | ---                 | < 1,000             | < 1,000            | < 0,100             | < 0,100             | < 0,100              | ---                      | ---                   | < 0,100                 | < 0,100                 |
| Cadmio                                   | mg/L  | ---   | ---     | < 0,025000          | ---                 | ---                | ---                 | ---                 | ---                  | < 0,025000               | < 0,025000            | ---                     | ---                     |
| Calcio                                   | mg/L  | ---   | ---     | 58,2300             | 91,7500             | 163,5000           | 201,4000            | 175,9000            | 47,3900              | 49,6900                  | 87,2500               | 101,8000                | 105,5000                |
| Carbonatos                               | mg/L  | ---   | ---     | < 0,1               | < 0,1               | < 0,1              | 22,7                | < 0,1               | < 0,1                | < 0,1                    | < 0,1                 | < 0,1                   | < 0,1                   |
| Cianuro Total                            | mg/L  | ---   | ---     | < 0,010             | < 0,010             | < 0,010            | < 0,010             | < 0,010             | < 0,010              | < 0,010                  | < 0,010               | < 0,010                 | < 0,010                 |
| Cinc                                     | mg/L  | ---   | ---     | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | < 0,1000                | < 0,1000                |
| Cloruros                                 | mg/L  | ---   | ---     | 63,8                | 61,2                | 83,3               | 107,8               | 111,0               | 58,6                 | 65,7                     | 124,6                 | 102,0                   | 103,0                   |
| Cobalto                                  | mg/L  | ---   | ---     | < 0,0500            | < 0,0500            | < 0,0500           | < 0,0500            | < 0,0500            | < 0,0500             | < 0,0500                 | < 0,0500              | < 0,0500                | < 0,0500                |
| Cobre                                    | mg/L  | ---   | ---     | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | < 0,1000                | < 0,1000                |
| Color                                    | mg/L  | ---   | ---     | 14,6                | 20,4                | 25,6               | 26,5                | 24,9                | 17,6                 | 10,5                     | 15,8                  | 12,3                    | 9,1                     |

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|                                                                                 | <b>Fecha: 28-01-2014</b>                       | <b>Resultados de análisis por punto de control</b> |                 | <b>Página: 2</b>       |

|                                         |                                                      |                                                            |
|-----------------------------------------|------------------------------------------------------|------------------------------------------------------------|
| <b>Código:</b> GN00000019               | <b>Nombre del punto:</b> RIO GUADIANA - E.A. Luciana | <b>Cauce:</b> RIO GUADIANA                                 |
| <b>Código de la masa de agua:</b> 13353 | <b>Nombre de la masa de agua:</b> RIO GUADIANA IV    |                                                            |
| <b>Localidad:</b> Luciana               | <b>Provincia:</b> Ciudad Real                        | <b>UTM X:</b> 387939 <b>UTM Y:</b> 4315565 <b>Huso:</b> 30 |

|                                       |         | ENERO | FEBRERO | MARZO<br>07-03-2013 | ABRIL<br>22-04-2013 | MAYO<br>08-05-2013 | JUNIO<br>17-06-2013 | JULIO<br>03-07-2013 | AGOSTO<br>07-08-2013 | SEPTIEMBRE<br>16-09-2013 | OCTUBRE<br>03-10-2013 | NOVIEMBRE<br>18-11-2013 | DICIEMBRE<br>16-12-2013 |
|---------------------------------------|---------|-------|---------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Conductividad a 20 °C                 | µS/cm   | ---   | ---     | 629                 | 808                 | 1199               | 1471                | 1391                | 562                  | 585                      | 1056                  | 1031                    | 1058                    |
| Cromo                                 | µg/L    | ---   | ---     | ---                 | < 2,000             | < 2,000            | < 1,000             | < 1,000             | < 1,000              | ---                      | ---                   | < 1,000                 | 1,516                   |
| Cromo                                 | mg/L    | ---   | ---     | < 0,025000          | ---                 | ---                | ---                 | ---                 | ---                  | < 0,025000               | < 0,025000            | ---                     | ---                     |
| D.B.O. 5d                             | mg/L    | ---   | ---     | 1,3                 | 1,5                 | 0,9                | 2,3                 | 2,2                 | 2,2                  | 1,7                      | 17,6                  | 3,5                     | 3,9                     |
| D.Q.O. 10min (Índice de Permanganato) | mg/L    | ---   | ---     | 5,2                 | 7,3                 | 8,0                | 12,0                | 11,0                | 5,8                  | 9,2                      | 9,3                   | 4,6                     | 4,2                     |
| Dureza permanente                     | mg/L    | ---   | ---     | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---                     | ---                     |
| Dureza total                          | mg/L    | ---   | ---     | 262,6               | 379,1               | 637,7              | 779,3               | 720,9               | 214,7                | 227,5                    | 438,2                 | 465,3                   | 491,0                   |
| Estaño                                | mg/L    | ---   | ---     | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | < 0,1000                | < 0,1000                |
| Estroncio                             | mg/L    | ---   | ---     | 0,5936              | 1,4260              | 2,7430             | 3,5970              | 3,3840              | 0,5458               | < 0,5000                 | 1,5090                | 1,6230                  | 1,7480                  |
| Fenoles                               | mg/L    | ---   | ---     | < 0,050             | < 0,050             | < 0,050            | < 0,050             | < 0,050             | < 0,050              | < 0,050                  | < 0,050               | < 0,050                 | < 0,050                 |
| Fluoruros                             | mg/L    | ---   | ---     | 0,17                | 0,19                | 0,28               | 0,39                | 0,36                | 0,14                 | 0,14                     | 0,30                  | 0,30                    | 0,30                    |
| Fosfatos                              | mg/L    | ---   | ---     | 0,09                | 0,12                | 0,21               | 0,13                | < 0,05              | 0,10                 | < 0,05                   | 0,33                  | < 0,05                  | < 0,05                  |
| Fósforo total                         | mg/L    | ---   | ---     | < 0,1000            | 0,1015              | 0,1586             | 0,1493              | 0,1782              | < 0,1000             | < 0,1000                 | 0,5801                | < 0,1000                | < 0,1000                |
| Hidróxidos                            | mg/L    | ---   | ---     | < 0,1               | < 0,1               | < 0,1              | < 0,1               | < 0,1               | < 0,1                | < 0,1                    | < 0,1                 | < 0,1                   | < 0,1                   |
| Hierro                                | mg/L    | ---   | ---     | 0,4073              | 0,2728              | 0,2455             | 0,1788              | 0,2185              | 0,1721               | 0,1135                   | 0,1057                | 0,1068                  | < 0,1000                |
| Magnesio                              | mg/L    | ---   | ---     | 28,4100             | 36,3500             | 55,5800            | 66,9500             | 68,2500             | 23,3600              | 25,0700                  | 53,4200               | 51,1700                 | 55,1600                 |
| Manganeso                             | mg/L    | ---   | ---     | < 0,1000            | < 0,1000            | < 0,1000           | 0,1897              | 0,1790              | 0,1105               | < 0,1000                 | 0,1145                | < 0,1000                | < 0,1000                |
| Mercurio                              | mg/L    | ---   | ---     | < 0,000050          | < 0,000050          | < 0,000050         | < 0,000050          | < 0,000050          | < 0,000050           | < 0,000050               | < 0,000050            | < 0,000050              | < 0,000050              |
| Níquel                                | mg/L    | ---   | ---     | < 0,0500            | < 0,0500            | < 0,0500           | < 0,0500            | < 0,0500            | < 0,0500             | < 0,0500                 | < 0,0500              | < 0,0500                | < 0,0500                |
| Nitratos                              | mg/L    | ---   | ---     | 7,3                 | < 1,0               | < 1,0              | ---                 | < 1,0               | < 1,0                | 8,3                      | 3,5                   | 12,3                    | 16,8                    |
| Oxígeno disuelto                      | mg/L    | ---   | ---     | 9,2                 | 8,6                 | 7,7                | 8,5                 | 7,0                 | 6,9                  | 7,6                      | 6,0                   | 10,4                    | 12,7                    |
| pH                                    | pH      | ---   | ---     | 7,7                 | 7,9                 | 8,0                | 8,6                 | 8,0                 | 7,9                  | 7,8                      | 7,9                   | 8,1                     | 8,3                     |
| Plomo                                 | µg/L    | ---   | ---     | ---                 | < 1,000             | < 1,000            | < 1,000             | < 1,000             | < 1,000              | ---                      | ---                   | < 1,000                 | < 1,000                 |
| Plomo                                 | mg/L    | ---   | ---     | < 0,025000          | ---                 | ---                | ---                 | ---                 | ---                  | < 0,025000               | < 0,025000            | ---                     | ---                     |
| Potasio                               | mg/L    | ---   | ---     | 4,4900              | 5,3050              | 7,2370             | 9,2240              | 9,1280              | 5,1050               | 6,0790                   | 15,3400               | 10,2000                 | 9,5440                  |
| Recuento de Coliformes totales        | UFC/100 | ---   | ---     | ---                 | 1300                | 2700               | 1300                | 17000               | 8000                 | 300000                   | 16000                 | 2700                    | 40                      |
| Selenio                               | µg/L    | ---   | ---     | ---                 | < 1,000             | 1,527              | 2,021               | < 2,000             | < 2,000              | ---                      | ---                   | < 2,000                 | < 2,000                 |
| Selenio                               | mg/L    | ---   | ---     | < 0,025000          | ---                 | ---                | ---                 | ---                 | ---                  | < 0,025000               | < 0,025000            | ---                     | ---                     |

|                                                                                 |                                                |                                                    |                 |                        |
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|                                                                                 | <b>Fecha: 28-01-2014</b>                       | <b>Resultados de análisis por punto de control</b> |                 | <b>Página: 3</b>       |

|                                         |                                                      |                                                            |
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| <b>Código:</b> GN00000019               | <b>Nombre del punto:</b> RIO GUADIANA - E.A. Luciana | <b>Cauce:</b> RIO GUADIANA                                 |
| <b>Código de la masa de agua:</b> 13353 | <b>Nombre de la masa de agua:</b> RIO GUADIANA IV    |                                                            |
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|                       |      | ENERO | FEBRERO | MARZO<br>07-03-2013 | ABRIL<br>22-04-2013 | MAYO<br>08-05-2013 | JUNIO<br>17-06-2013 | JULIO<br>03-07-2013 | AGOSTO<br>07-08-2013 | SEPTIEMBRE<br>16-09-2013 | OCTUBRE<br>03-10-2013 | NOVIEMBRE<br>18-11-2013 | DICIEMBRE<br>16-12-2013 |
|-----------------------|------|-------|---------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-------------------------|-------------------------|
| Sílice                | mg/L | ---   | ---     | 5,8540              | 3,1430              | 7,6430             | 7,9630              | 0,9757              | 7,8580               | 8,1870                   | 15,3600               | 10,9800                 | 9,5720                  |
| Sodio                 | mg/L | ---   | ---     | 36,2000             | 31,4400             | 46,2700            | 59,8500             | 57,3900             | 30,6800              | 34,4200                  | 69,1100               | 57,0700                 | 61,4800                 |
| Sólidos en Suspensión | mg/L | ---   | ---     | 40                  | 22                  | 18                 | 36                  | 65                  | < 10                 | < 10                     | 48                    | < 10                    | < 10                    |
| Sulfatos              | mg/L | ---   | ---     | 112,9               | 234,1               | 412,4              | 538,5               | 498,3               | 101,3                | 103,0                    | 235,1                 | 241,5                   | 242,2                   |