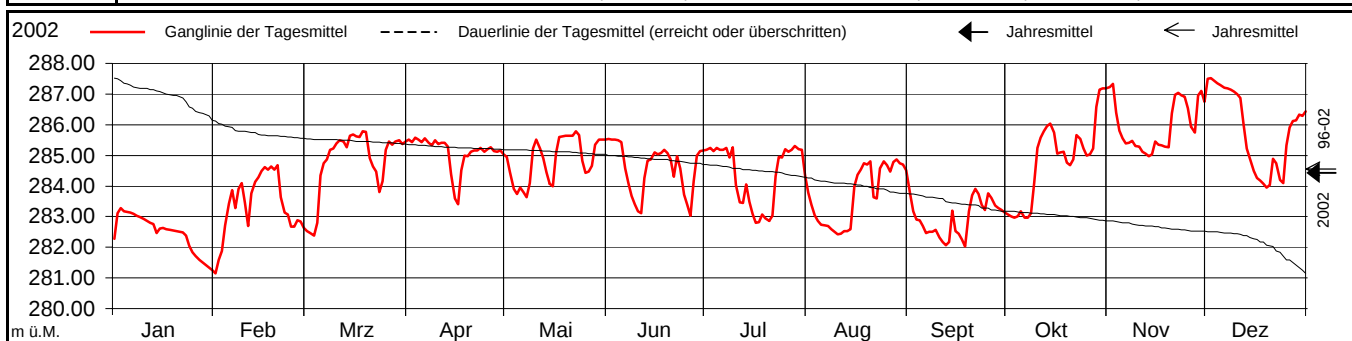
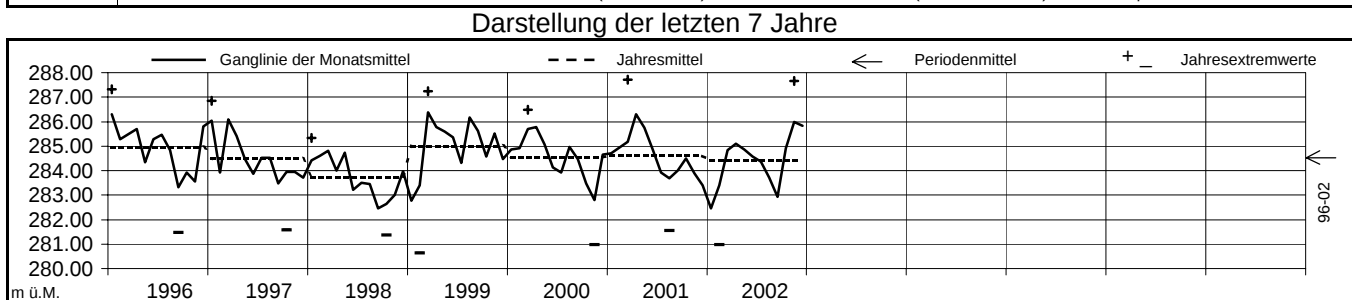


| Grundwasserstände                    | 11. J. 15           | Aesch  | Versickerungsanlage  | Jahr 2002 |
|--------------------------------------|---------------------|--------|----------------------|-----------|
| Koordinaten: 612 465.67 / 258 288.81 | OK. Terrain: 293.01 | m ü.M. | Abstichpunkt: 294.07 | m ü.M.    |

| 2002           | Januar   | Februar  | März     | April    | Mai      | Juni          | Juli      | August   | September       | Oktober    | November | Dezember  |    |
|----------------|----------|----------|----------|----------|----------|---------------|-----------|----------|-----------------|------------|----------|-----------|----|
| 1              | 282.28   | 281.14 - | 282.54   | 285.52   | 284.95   | 285.53 +      | 285.17    | 283.77   | 283.76          | 283.08     | 287.23   | 287.51 +  | 1  |
| 2              | 283.12 + | 281.59   | 282.47   | 285.43   | 284.44   | 285.52 +      | 285.24    | 283.38   | 283.17          | 283.02     | 287.33   | 287.52 +  | 2  |
| 3              | 283.27   | 281.88   | 282.38   | 285.57 + | 283.91   | 285.51        | 285.15    | 283.05   | 282.91          | 282.97     | 286.39   | 287.43    | 3  |
| 4              | 283.19   | 282.72   | 282.81 - | 285.51   | 283.73   | 285.49        | 285.24    | 282.86   | 282.89          | 283.01 -   | 285.80   | 287.36    | 4  |
| Tagesmittel 5  | 283.15   | 283.42   | 284.34   | 285.43   | 283.94   | 285.44        | 285.18    | 282.74   | 282.70          | 283.17     | 285.55   | 287.29    | 5  |
| 6              | 283.13   | 283.86   | 284.74   | 285.56   | 283.81   | 284.58        | 285.18    | 282.71   | 282.46          | 282.98     | 285.39   | 287.21    | 6  |
| 7              | 283.09   | 283.28   | 284.86   | 285.41   | 283.63   | 284.10        | 285.24    | 282.69   | 282.50          | 282.96     | 285.42   | 287.18    | 7  |
| 8              | 283.03   | 283.90   | 285.17   | 285.34   | 284.08 - | 283.68        | 284.92    | 282.59   | 282.51          | 283.12     | 285.48   | 287.14    | 8  |
| 9              | 282.98   | 284.08   | 285.21   | 285.49   | 285.23   | 283.40        | 285.26    | 282.50   | 282.57          | 284.11     | 285.30   | 287.08    | 9  |
| interpol. x 10 | 282.93   | 283.45   | 285.39   | 285.36   | 285.52   | 283.18        | 284.03    | 282.42 - | 282.32          | 285.25     | 285.28   | 287.00    | 10 |
| 11             | 282.87   | 282.70   | 285.49   | 285.41   | 285.22   | 283.11        | 283.47    | 282.45   | 282.17          | 285.58     | 285.12   | 286.88    | 11 |
| 12             | 282.80   | 283.76   | 285.45   | 285.40   | 284.90   | 284.26        | 283.45    | 282.53   | 282.07          | 285.79     | 285.05   | 286.02    | 12 |
| 13             | 282.75   | 284.13   | 285.26   | 285.27   | 284.45   | 284.83        | 284.05    | 282.52   | 282.18          | 285.94     | 284.97   | 285.22    | 13 |
| 14             | 282.46   | 284.27   | 285.64   | 284.39   | 284.07   | 284.87        | 283.49    | 282.59   | 283.19          | 286.04     | 285.03 - | 284.88    | 14 |
| Max. + 15      | 282.61   | 284.49   | 285.69   | 283.60   | 283.99   | 285.09        | 283.09    | 283.99   | 282.53          | 285.75     | 285.45   | 284.50    | 15 |
| 16             | 282.63   | 284.61   | 285.63   | 283.41 - | 285.08   | 285.03        | 282.80    | 284.36   | 282.44          | 285.06     | 285.34   | 284.26    | 16 |
| 17             | 282.60   | 284.53   | 285.59 + | 284.52   | 285.59   | 285.07        | 282.83 -  | 284.54   | 282.25          | 285.11     | 285.32   | 284.17    | 17 |
| 18             | 282.57   | 284.64   | 285.79   | 284.99   | 285.62   | 285.18        | 283.07    | 284.74   | 282.03 -        | 285.12     | 285.29   | 284.08    | 18 |
| 19             | 282.55   | 284.54   | 285.76   | 284.98   | 285.63   | 285.07        | 282.95    | 284.69   | 283.17          | 284.76     | 285.26   | 283.94    | 19 |
| Min. - 20      | 282.52   | 284.69 + | 284.90   | 285.11   | 285.63   | 284.87        | 282.86    | 284.80 + | 283.69 +        | 284.68     | 286.37   | 284.03    | 20 |
| 21             | 282.50   | 283.63   | 284.63   | 285.16   | 285.64   | 284.31        | 283.02    | 283.64   | 283.91          | 284.86     | 286.98   | 284.89    | 21 |
| 22             | 282.49   | 283.12   | 284.47   | 285.15   | 285.79 + | 284.97        | 284.33    | 283.60   | 283.75          | 285.67     | 287.04 + | 284.75    | 22 |
| 23             | 282.39   | 283.06   | 283.80   | 285.24   | 285.67   | 284.58        | 284.94    | 283.60   | 283.38          | 285.53     | 286.95   | 284.20    | 23 |
| 24             | 282.05   | 282.68   | 284.16   | 285.13   | 284.82   | 283.72        | 284.92    | 284.81   | 283.23          | 285.22     | 286.92   | 284.09 -  | 24 |
| 25             | 281.85   | 282.67   | 285.19   | 285.21   | 284.44   | 283.37        | 285.19    | 284.69   | 283.76          | 284.98     | 286.55   | 285.33    | 25 |
| 26             | 281.70   | 282.89   | 285.44   | 285.26   | 284.47   | 283.04 -      | 285.12    | 284.46   | 283.61          | 285.03     | 285.93   | 285.91    | 26 |
| 27             | 281.58   | 282.85   | 285.35   | 285.13   | 284.65   | 284.16        | 285.19 +  | 284.77   | 283.36          | 285.21     | 285.75   | 286.11    | 27 |
| 28             | 281.51   | 282.63   | 285.45   | 285.11   | 285.35   | 284.98        | 285.31 +  | 284.86   | 283.29          | 286.57     | 286.96   | 286.15    | 28 |
| 29             | 281.42   |          | 285.50   | 285.17   | 285.51   | 285.14        | 285.20    | 284.75   | 283.21          | 287.15     | 287.09   | 286.32    | 29 |
| 30             | 281.33   |          | 285.38   | 285.03   | 285.51   | 285.15        | 285.18    | 284.70   | 283.14          | 287.19 +   | 286.75   | 286.28    | 30 |
| 31             | 281.24 - |          | 285.45   |          | 285.52   |               | 284.35    | 284.51   |                 | 287.18     |          | 286.42    | 31 |
| Monatsmittel   | 282.47 - | 283.40   | 284.84   | 285.11   | 284.86   | 284.58        | 284.37    | 283.72   | 282.94          | 284.91     | 285.98 + | 285.84    |    |
| Maximum        | 283.53 - | 284.72   | 285.83   | 285.61   | 285.81   | 285.54        | 285.35    | 284.96   | 284.10          | 287.20     | 287.65 + | 287.57    |    |
| Datum          | 2.1.     | 20.2.    | 17.3.    | 3.4.     | 22.5.    | 1.+ 2.6.      | 27.+28.7. | 20.8.    | 20.9.           | 30.10.     | 22.11.   | 1.+ 2.12. |    |
| Amplitude*     | 2.33     | 3.75     | 3.51     | 2.40     | 2.32     | 2.59          | 2.61      | 2.56     | 2.19 -          | 4.44 +     | 2.79     | 3.78      |    |
| Jahr 2002      | Mittel   | 284.42   | m ü.M.   | Maximum  | 287.65   | (22. Nov. 02) | Minimum   | 280.97   | (1. Februar 02) | Amplitude* | 6.68     | m         |    |



| Periode      | 1996 - 2002 |          |          |          |        |                 |         |        |                   |            |        |        |
|--------------|-------------|----------|----------|----------|--------|-----------------|---------|--------|-------------------|------------|--------|--------|
| Monatsmittel | 284.51      | 284.35   | 285.50 + | 285.44   | 284.97 | 284.47          | 284.29  | 284.48 | 283.76 -          | 284.00     | 284.10 | 284.55 |
| Maximum      | 287.31      | 286.44   | 287.72 + | 287.37   | 287.13 | 286.55 -        | 286.99  | 286.94 | 286.80            | 287.20     | 287.65 | 287.57 |
| Jahr         | 1996        | 1996     | 2001     | 2001     | 1999   | 1996            | 1999    | 1999   | 1999              | 2002       | 2002   | 2002   |
| Minimum      | 280.86      | 280.62 - | 282.32   | 282.70 + | 282.38 | 281.69          | 281.62  | 281.53 | 281.39            | 281.35     | 280.96 | 282.22 |
| Jahr         | 1998        | 1997     | 2002     | 1998     | 1996   | 1998            | 1998    | 2001   | 1998              | 1998       | 2000   | 1996   |
| Amplitude*   | 3.79        | 5.61 +   | 4.32     | 2.75 -   | 3.22   | 3.88            | 4.57    | 3.74   | 4.41              | 4.44       | 3.68   | 3.78   |
| Jahr         | 1996        | 1999     | 2001     | 1997     | 1999   | 1996            | 1999    | 2001   | 1996              | 2002       | 2000   | 2002   |
| Periode      | Mittel      | 284.53   | m ü.M.   | Maximum  | 287.72 | (29. Mrz. 2001) | Minimum | 280.62 | (2. Februar 1999) | Amplitude* | 7.10   | m      |



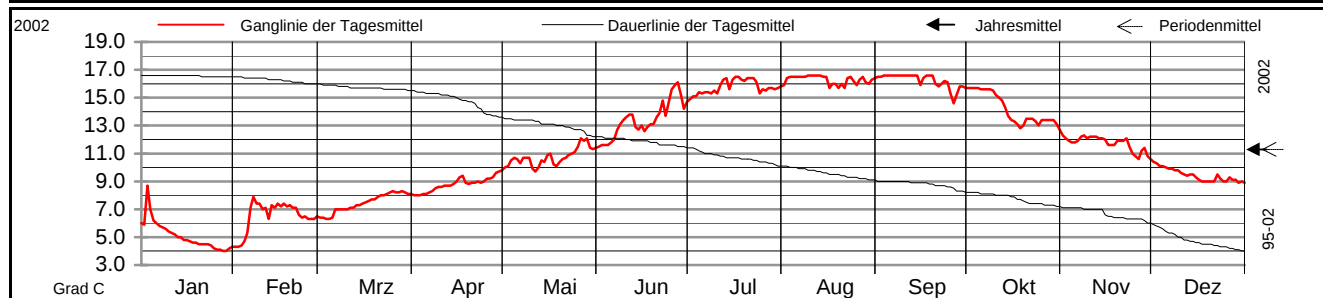
\* Die Amplituden sind aufgrund von Extremwerten berechnet

# Grundwasser-Temperaturen 11.J.15 Aesch Versickerungsanlage Jahr 2002

OK-Terrain: 293.01 m ü.M.

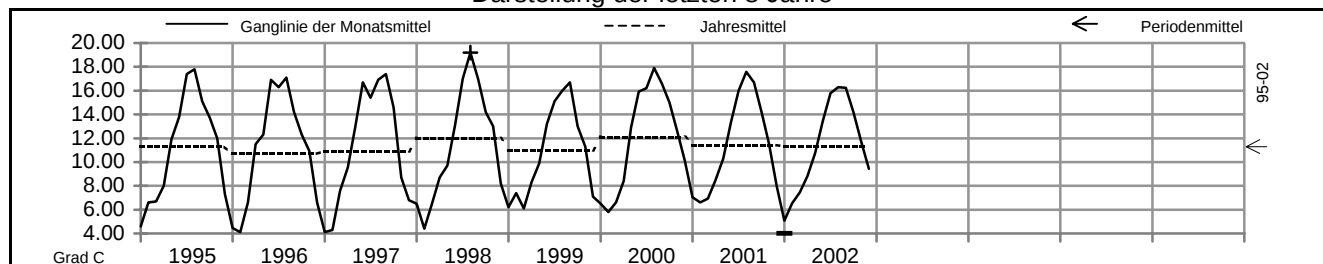
Höhe der Temperatursonde: 279.71 m ü.M.

| 2002         | Januar | Februar | März   | April   | Mai   | Juni         | Juli    | August | September | Oktober    | November | Dezember |    |
|--------------|--------|---------|--------|---------|-------|--------------|---------|--------|-----------|------------|----------|----------|----|
| 1            | 6.00   | 4.30    | 6.40   | 8.00    | 10.00 | 11.50        | 14.90   | 15.90  | 16.50     | 15.70      | 12.30    | 10.40    | 1  |
| 2            | 5.90   | 4.30    | 6.40   | 8.00    | 10.10 | 11.60        | 14.90   | 16.40  | 16.50     | 15.70      | 12.10    | 10.30    | 2  |
| 3            | 8.70   | 4.40    | 6.30   | 8.00    | 10.50 | 11.60        | 15.10   | 16.50  | 16.60     | 15.70      | 11.90    | 10.10    | 3  |
| 4            | 7.00   | 4.70    | 6.30   | 8.10    | 10.70 | 11.60        | 15.10   | 16.50  | 16.60     | 15.70      | 11.80    | 10.10    | 4  |
| 5            | 6.20   | 5.30    | 6.40   | 8.10    | 10.60 | 11.80        | 15.40   | 16.50  | 16.60     | 15.60      | 11.80    | 10.00    | 5  |
| Tagesmittel  |        |         |        |         |       |              |         |        |           |            |          |          |    |
| 6            | 6.00   | 7.10    | 7.00   | 8.20    | 10.30 | 12.00        | 15.30   | 16.50  | 16.60     | 15.60      | 11.90    | 9.90     | 6  |
| 7            | 5.80   | 7.90    | 7.00   | 8.30    | 10.70 | 12.70        | 15.40   | 16.50  | 16.60     | 15.60      | 12.20    | 9.90     | 7  |
| 8            | 5.70   | 7.40    | 7.00   | 8.50    | 10.70 | 13.10        | 15.40   | 16.50  | 16.60     | 15.60      | 12.30    | 9.80     | 8  |
| 9            | 5.60   | 7.40    | 7.00   | 8.60    | 10.70 | 13.40        | 15.30   | 16.60  | 16.60     | 15.50      | 12.10    | 9.80     | 9  |
| 10           | 5.40   | 7.00    | 7.00   | 8.60    | 9.90  | 13.60        | 15.50   | 16.60  | 16.60     | 15.20      | 12.20    | 9.60     | 10 |
| in Grad C    |        |         |        |         |       |              |         |        |           |            |          |          |    |
| 11           | 5.30   | 7.10    | 7.10   | 8.70    | 9.70  | 13.80        | 15.30   | 16.60  | 16.60     | 15.00      | 12.20    | 9.50     | 11 |
| 12           | 5.20   | 6.30    | 7.10   | 8.70    | 10.00 | 13.80        | 15.90   | 16.60  | 16.60     | 14.80      | 12.20    | 9.40     | 12 |
| 13           | 5.00   | 7.30    | 7.30   | 8.70    | 10.50 | 12.90        | 16.30   | 16.60  | 16.60     | 14.30      | 12.10    | 9.50     | 13 |
| 14           | 5.00   | 7.10    | 7.30   | 8.80    | 10.40 | 12.70        | 16.40   | 16.50  | 16.60     | 13.70      | 12.10    | 9.50     | 14 |
| 15           | 4.80   | 7.40    | 7.40   | 9.00    | 10.90 | 13.00        | 15.60   | 16.50  | 15.90     | 13.40      | 12.00    | 9.30     | 15 |
| 16           | 4.80   | 7.20    | 7.50   | 9.30    | 11.00 | 12.60        | 16.30   | 15.70  | 16.40     | 13.30      | 11.60    | 9.10     | 16 |
| 17           | 4.70   | 7.40    | 7.60   | 9.40    | 10.20 | 12.90        | 16.50   | 16.00  | 16.60     | 13.10      | 11.60    | 9.00     | 17 |
| 18           | 4.60   | 7.20    | 7.70   | 8.90    | 10.10 | 13.10        | 16.50   | 16.00  | 16.60     | 12.80      | 11.60    | 9.00     | 18 |
| 19           | 4.60   | 7.30    | 7.70   | 8.80    | 10.40 | 13.10        | 16.30   | 15.70  | 16.60     | 13.00      | 11.90    | 9.00     | 19 |
| 20           | 4.50   | 7.10    | 7.90   | 8.90    | 10.60 | 13.60        | 16.20   | 16.00  | 16.00     | 13.50      | 11.90    | 9.00     | 20 |
| 21           | 4.50   | 7.10    | 8.00   | 8.90    | 10.70 | 13.90        | 16.40   | 15.70  | 15.80     | 13.50      | 11.90    | 9.00     | 21 |
| 22           | 4.50   | 6.60    | 8.00   | 9.00    | 10.90 | 14.80        | 16.40   | 16.40  | 16.00     | 13.50      | 12.10    | 9.50     | 22 |
| 23           | 4.50   | 6.40    | 8.10   | 8.90    | 11.00 | 13.70        | 16.40   | 16.50  | 16.20     | 13.30      | 11.50    | 9.20     | 23 |
| 24           | 4.40   | 6.50    | 8.20   | 9.00    | 11.10 | 14.70        | 16.10   | 16.20  | 16.10     | 13.00      | 11.00    | 9.00     | 24 |
| 25           | 4.20   | 6.30    | 8.30   | 9.20    | 11.50 | 15.60        | 15.30   | 15.90  | 15.30     | 13.40      | 10.80    | 9.00     | 25 |
| 26           | 4.10   | 6.30    | 8.20   | 9.20    | 12.10 | 15.90        | 15.60   | 16.30  | 14.60     | 13.40      | 10.60    | 9.30     | 26 |
| 27           | 4.10   | 6.30    | 8.20   | 9.30    | 11.90 | 16.10        | 15.50   | 16.50  | 15.20     | 13.40      | 11.20    | 9.10     | 27 |
| 28           | 4.00   | 6.50    | 8.30   | 9.60    | 12.10 | 15.20        | 15.70   | 16.10  | 15.80     | 13.40      | 11.40    | 9.10     | 28 |
| 29           | 4.00   |         | 8.20   | 9.70    | 11.40 | 14.20        | 15.70   | 16.00  | 15.80     | 13.40      | 10.80    | 8.90     | 29 |
| 30           | 4.20   |         | 8.10   | 9.80    | 11.30 | 14.70        | 15.60   | 16.30  | 15.70     | 13.10      | 10.60    | 9.00     | 30 |
| 31           | 4.30   |         | 8.10   |         | 11.40 |              | 15.70   | 16.40  |           | 12.70      |          | 8.90     | 31 |
| Monatsmittel | 5.08   | 6.54    | 7.45   | 8.81    | 10.75 | 13.44        | 15.77   | 16.29  | 16.23     | 14.16      | 11.72    | 9.43     |    |
| Maximum      | 8.7    | 7.9     | 8.3    | 9.8     | 12.1  | 16.1         | 16.5    | 16.6   | 16.6      | 15.7       | 12.3     | 10.4     |    |
| Minimum      | 4.0    | 4.3     | 6.3    | 8.0     | 9.7   | 11.5         | 14.9    | 15.7   | 14.6      | 12.7       | 10.6     | 8.9      |    |
| Amplitude *  | 4.7    | 3.6     | 2.0    | 1.8     | 2.4   | 4.6          | 1.6     | 0.9    | 2.0       | 3.0        | 1.7      | 1.5      |    |
| Jahr 2002    | Mittel | 11.33   | Grad C | Maximum | 16.6  | (Juli +Aug.) | Minimum | 4.0    | (Januar)  | Amplitude* | 12.6     | °C       |    |



| Periode      | 1995 - 2002 |       |        |          |         |               |         |       |               |            |        |      |
|--------------|-------------|-------|--------|----------|---------|---------------|---------|-------|---------------|------------|--------|------|
| Monatsmittel | 5.56        | 5.72  | 6.81   | 8.97     | 11.33   | 14.55         | 16.15   | 17.35 | 16.24         | 13.89      | 11.47  | 7.94 |
| Maximum      | 8.7         | 7.9   | 8.3    | 11.5     | 12.9    | 16.9          | 17.4    | 19.2  | 18.5          | 15.7       | 13.5   | 10.4 |
| Jahr         | 2002        | 2002  | 2002   | 1996     | 97 / 00 | 1996          | 1995    | 1998  | 2001          | 2002       | 2001   | 2002 |
| Minimum      | 4.0         | 4.1   | 6.1    | 8.0      | 8.7     | 11.5          | 14.3    | 15.7  | 14.2          | 12.3       | 8.6    | 6.1  |
| Jahr         | 2002        | 1996  | 1999   | 95/01/02 | 2001    | 2002          | 2001    | 2002  | 1996          | 1996       | 2001   | 2001 |
| Amplitude *  | 4.7         | 3.8   | 2.2    | 3.5      | 4.2     | 5.4           | 3.1     | 3.5   | 4.3           | 3.4        | 4.9    | 4.3  |
| Periode      | Mittel      | 11.33 | Grad C | Maximum  | 19.2    | (August 1998) | Minimum | 4.0   | (Januar 2002) | Amplitude: | 15.1°C |      |

## Darstellung der letzten 8 Jahre



\* Die Amplituden sind aufgrund von Extremwerten berechnet

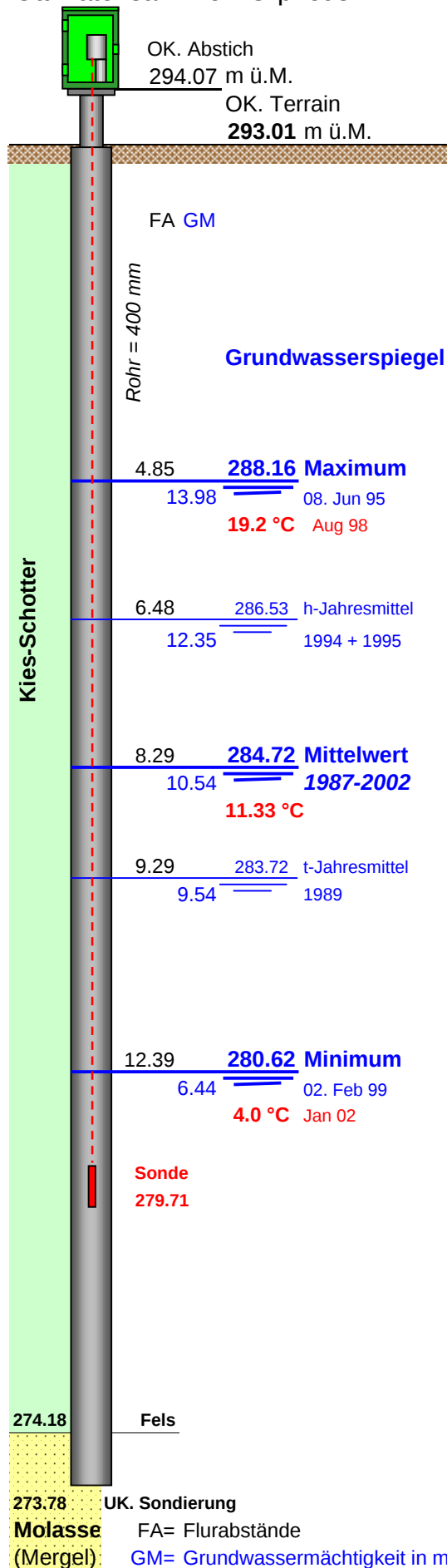
Kanton Basel-Landschaft, Amt für Umweltschutz und Energie, Fachstelle Wasserwirtschaft und Grundwasser

# Grundwasserspiegel im Birstal

Station 11.J.15 Aesch  
Ott-Datensammler "Orpheus"

Versickerungsanlage

Koordinaten: 612'465.67 / 258'288.81



Kartenausschnitt Aesch



Situationsplan Aesch

