

# Drinking Water Protection Areas - German 1<sup>st</sup> RBMP Elbe

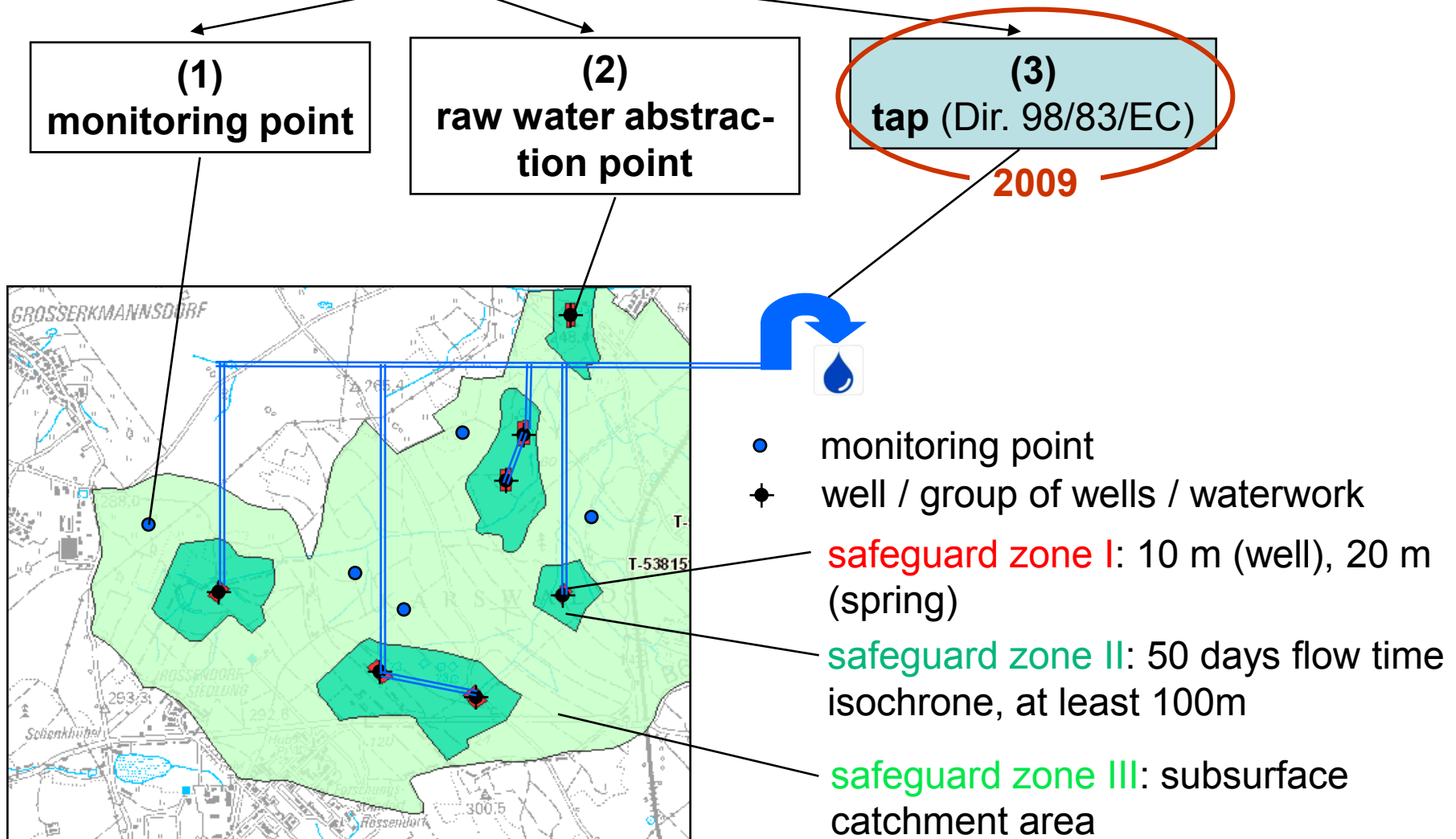
## 1. Definition of the Areas



- SWB with DW abstraction
- GWB without DW abstraction
- DWPA after EU-guidance  
= GWB with DW abstraction
- DWPA after § 19 Federal Water Act = safeguard zone after GWD, whereas No. 15 = catchment area of the well / group of wells
- River

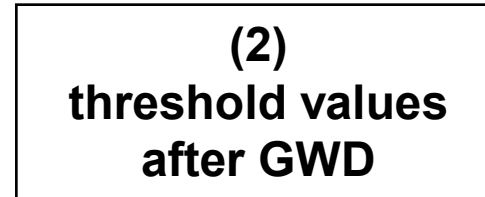
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## 2. Compliance Point



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## 3. Threshold Values



- DWPA: all gwb with an average gw abstraction > 10 m<sup>3</sup>/d or serving > 50 persons (Art. 7(1) WFD)
- Concentration of substances of the drinking water at the tap does not exceed DWD standards (Art. 5 and 6(1) DWD).

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## 4. Status Assessment concerning DW - Method

**DWPA is supposed to be in good chemical status, if the demands of DWD are met.**

That means in detail:

- DWPA: all gwb with an average gw abstraction  $> 10 \text{ m}^3/\text{d}$  or serving  $> 50$  persons (Art. 7(1) WFD)
- Concentration of substances of the drinking water at the tap does not exceed DWD standards (Art. 5 and 6(1) DWD).
- Solely individual supplies  $> 1000 \text{ m}^3$  or serving  $> 5000$  persons are taken into account, according to the reporting after Art. 13(2) DWD.

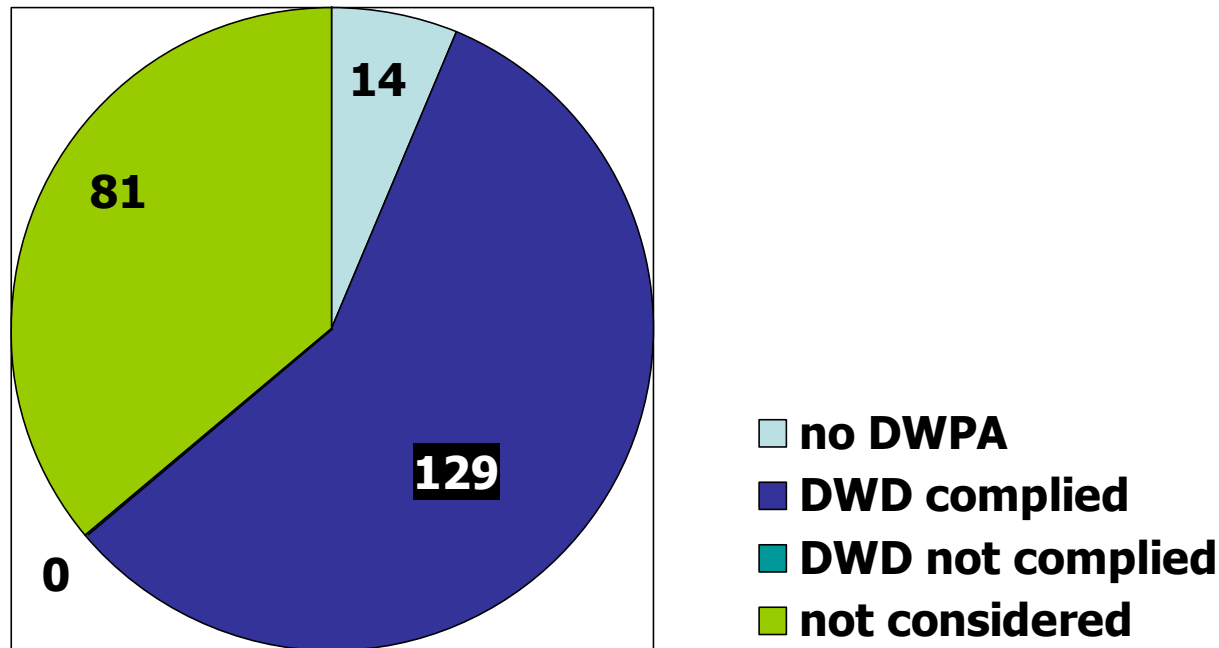
Problem: Data of smaller supplies are not yet available in all Federal States at state level.

- Derogations after Art. 9 DWD are no obstacle for good status achievement, because WFD should not set stronger demands than DWD.
- Art. 7(3) WFD (reduction of the level of purification treatment) is supposed to be met by monitoring of the „Non-Deterioration-Clause“ of Art 4(1b) WFD.

Problem: Precise „purification treatment“ and its possibly temporary modification are not in all cases (i.e. supplies  $< 1000 \text{ m}^3$ ) known at the federal state level.

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## 4. Status Assessment concerning DW - Results



not considered =

- individual supplies < 1000 m<sup>3</sup> or serving < 5000 persons
- data analysis not finished till deadline 15<sup>th</sup> Sept. 2008

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**GWD will be implemented as a federal ordinance at the earliest in 2010.**

Keypoints concerning DWPA:

- **Area:** no legal definition, but common understanding, that DWPA = gwb with an average groundwater abstraction  $> 10 \text{ m}^3/\text{d}$  or serving  $> 50$  persons (Art. 7(1) WFD)
- **Compliance Point:** rawwater abstraction point or groundwater at a nearby monitoring point, which is situated in the catchment area of a well/waterwork
- **Threshold values:** DWD-values
- **Status:** no good chemical status, if any threshold value is exceeded in the groundwater at any compliance point within the catchment area of a well / group of wells with an abstraction  $> 100 \text{ m}^3/\text{d}$
- **Level of purification treatment:** It is supposed, that the status-clause above as well as trend's monitoring and reversal guarantee the reduction of the level of purification treatment.
- **Monitoring:** adequate monitoring of gwb with an average abstraction  $> 100 \text{ m}^3/\text{d}$  to ascertain that under the water treatment regime applied, the resulting water will meet the requirements of DWD
- **Measures:** Delineation of DWPA after § 19 German Federal Water Act (catchment areas of a well/ group of wells) is considered as basic measure (Art. 11 (3) WFD).