

Use this template to gather and organise information from the learning object, *Where's our water?*

1. Which town are you investigating?

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2. General information about this town.

*location:* .....

*population:* .....

*main industries:* .....

3. Summarise key points of interest or concern about population and/or industry, now and in the future.

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4. **Climate summary**

- Note: be aware that the scale on graphs may differ.



*estimated annual average rainfall:* .....

*estimated average maximum temperature:* .....

*estimated average minimum temperature:* .....

*month with most rain:* .....

*climate type:* .....

*Are there any trends in rainfall or temperature?* .....

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5. Summarise key points of interest or concern about climate.

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**6. Landscape summary**



- Use data provided in bore logs about geology and geography as it relates to water sources, particularly groundwater, presented as extracts from technical reports.

*What are key features of the water source?* .....

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*What is the value of the SWL?* .....

*From what depth is water abstracted?* .....

*From what sediment layer is water abstracted?* .....

*Possible volume of water abstracted per day:* .....

**7. Summarise key points of interest or concern about landscape.**

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**8. Water sources summary**



- Use general descriptions of water source types and map of area showing water sources and trunk mains.

*water source(s) used:* .....

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*Is water source climate dependent?* .....

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*How far does water travel to the town?* .....

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**9. Summarise key points of interest or concern about water sources.**

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10.

- Use data for all seven schemes to compare water quality and water treatment, prior to it being delivered to customers/users, including level guidelines on the table.



*Are there any unusual water quality data? .....*

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*Water treatment methods used: .....*

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11. Summarise key points of interest or concern about water treatment.

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**12. Customer usage summary**

- Compare data related to customer usage for all seven schemes.

1 gigalitre (GL) of water is  $10^9$  L (1,000,000,000 L)

1 megalitre (ML) of water is  $10^6$  L (1,000,000 L)

1 kilolitre (kL) of water is  $10^3$  L (1000 L)



*Total units: .....*

*Domestic units: .....*

*Domestic consumption: .....*

*Average abstraction: .....*

*Scheme allocation: .....*

*Look at the figures above, and work out how much water is consumed for domestic purposes in a year. (Multiply domestic units by domestic consumption).*

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*How else might water be used in this town (or region)?*

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Consider scheme allocation and average abstraction. Does average abstraction cover the town's water needs? Now and in the future?

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13. Summarise key points of interest or concern about customer usage.

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**14. Wastewater summary**

- You will find this information in the info-graphic on wastewater, for all seven schemes.



*Wastewater treatment capacity:* .....

*% wastewater recycled:* .....

*Wastewater discharge destination:* .....

*How does wastewater re-enter the natural water cycle?* .....

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*Summarise key points of interest or concern about wastewater.*

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15. What water challenges does this town face, now and in the future?

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