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Health benchmark

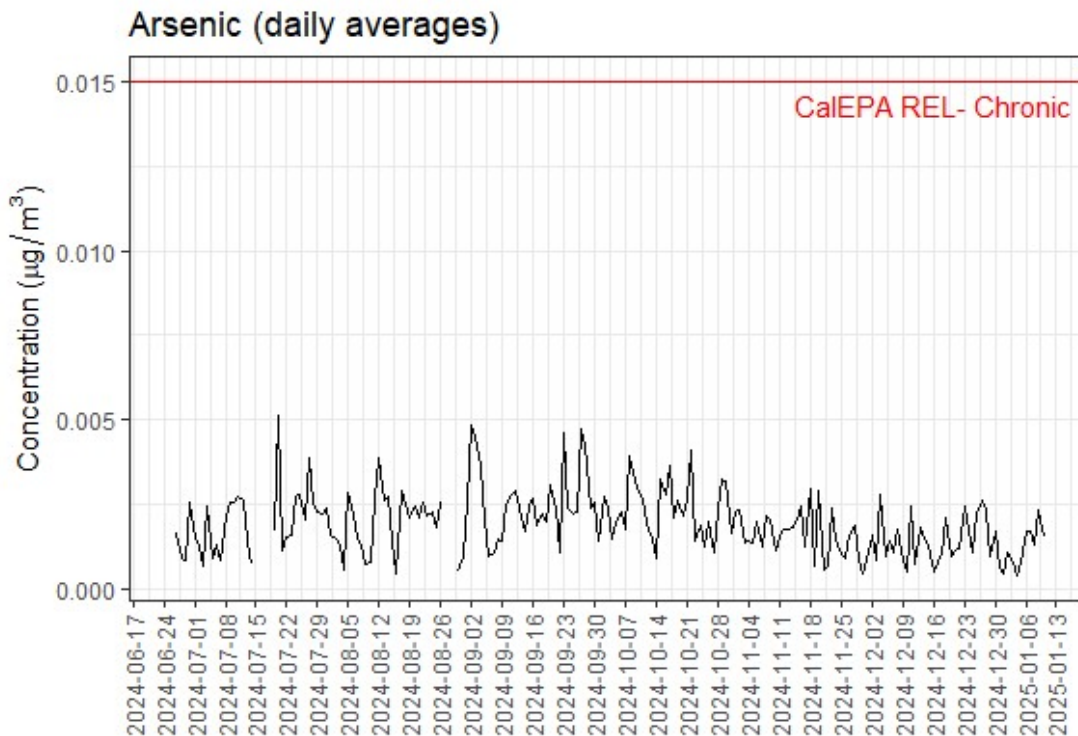
<b>Benchmark used</b>	NAAQS (National Ambient Air Quality Standard)
<b>Organization</b>	US Environmental Protection Agency
<b>Calculation</b>	Maximum 3-month rolling average
<b>Value</b>	0.15 $\mu\text{g}/\text{m}^3$

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Hourly monitoring data at St Paul Brass

<b>Highest 3-month rolling average at St Paul Brass (Aug-Oct)</b>	0.03 $\mu\text{g}/\text{m}^3$
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**Note:** The lead NAAQS is a 3-month rolling average and is not intended for direct comparison with daily averages. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.



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Health benchmark

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<b>Benchmark used</b>	CalEPA REL (Reference Exposure Level)- Chronic
<b>Organization</b>	California Environmental Protection Agency
<b>Calculation</b>	Average continuous exposure up to a lifetime
<b>Value</b>	0.015 $\mu\text{g}/\text{m}^3$

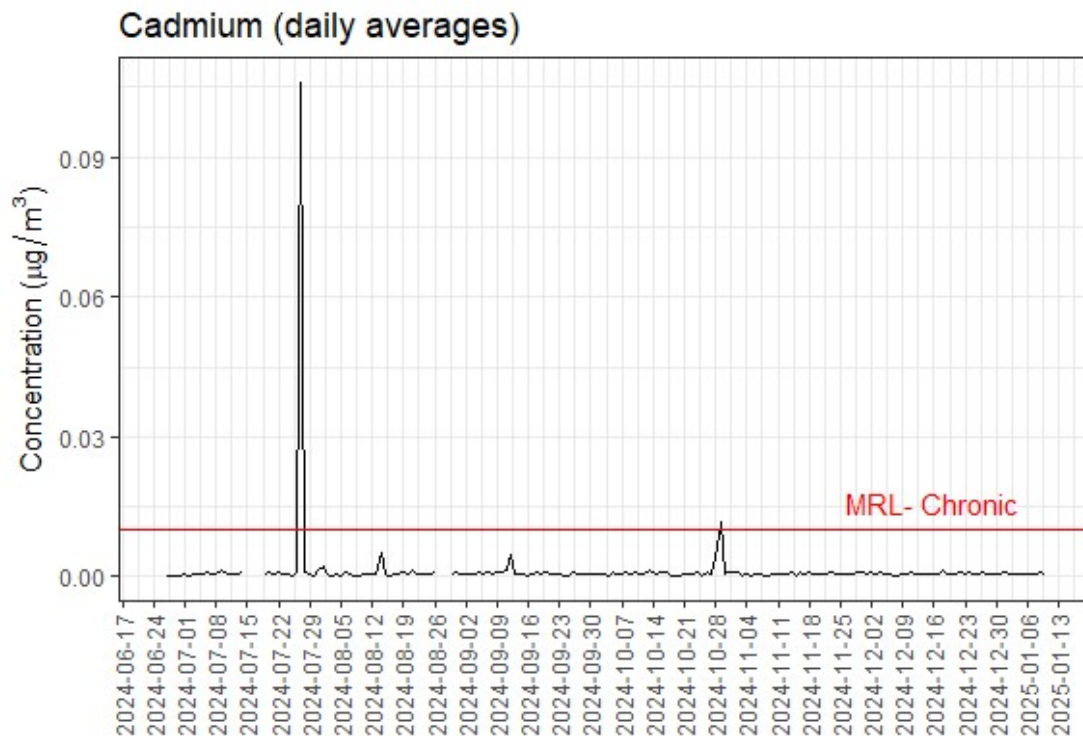
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Hourly monitoring data at St Paul Brass

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<b>6.5-month average at St Paul Brass (June- Nov)</b>	0.002 $\mu\text{g}/\text{m}^3$
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**Note:** The CalEPA REL- Chronic benchmark for arsenic is not intended for direct comparison with averages representing less than 1 year. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.



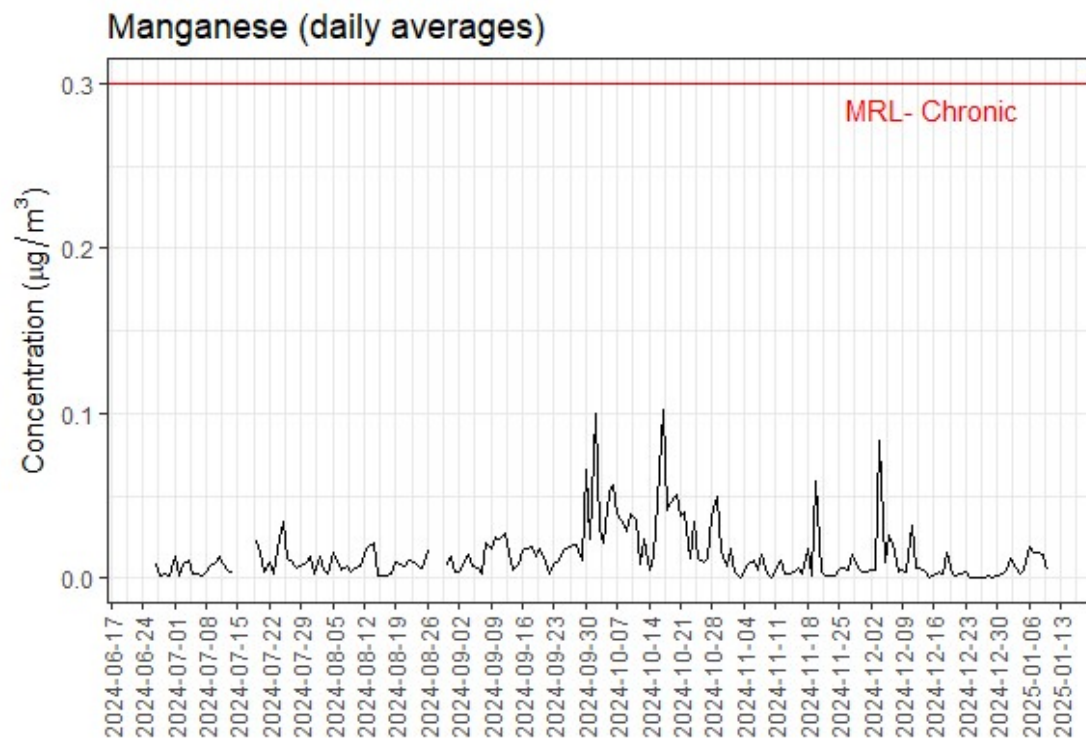
#### Health benchmark

<b>Benchmark used</b>	MRL (Minimum Risk Level)- Chronic
<b>Organization</b>	Agency for Toxic Substances and Disease Registry
<b>Calculation</b>	Average of >1 year
<b>Value</b>	0.01 $\mu\text{g}/\text{m}^3$

#### Hourly monitoring data at St Paul Brass

<b>6.5-month average at St Paul Brass (June-Nov)</b>	0.001 $\mu\text{g}/\text{m}^3$
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**Note:** The MRL- Chronic benchmark for cadmium is not intended for direct comparison with averages representing less than 1 year. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.



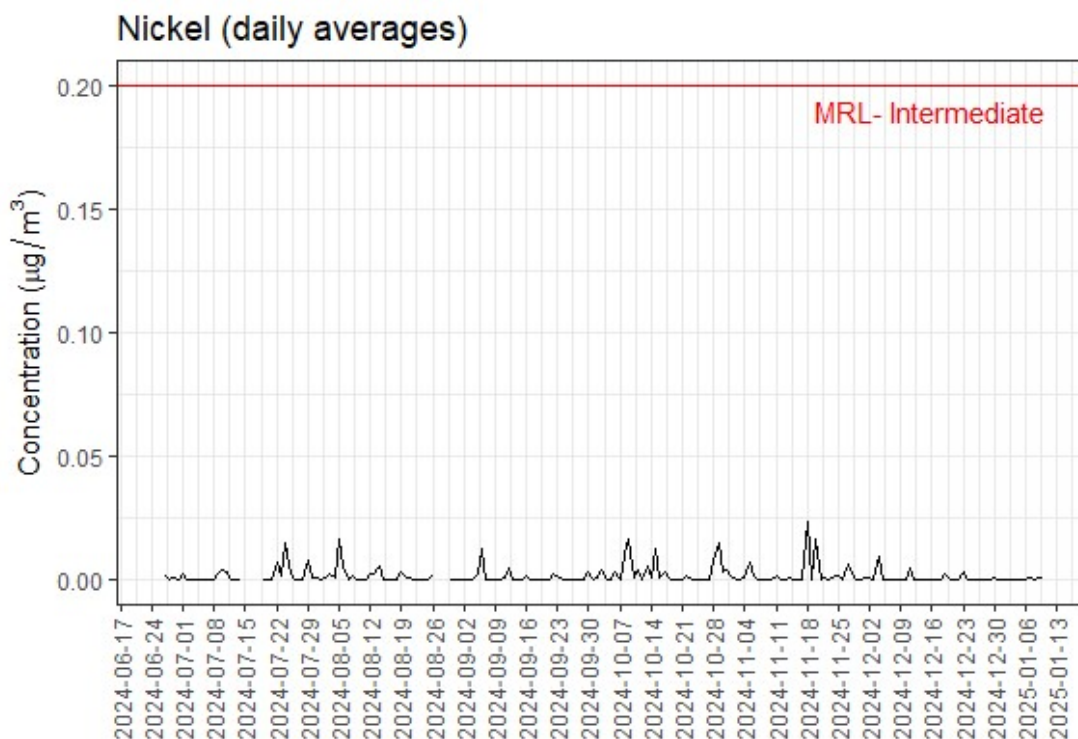
#### Health benchmark

<b>Benchmark used</b>	MRL (Minimum Risk Level)- Chronic
<b>Organization</b>	Agency for Toxic Substances and Disease Registry
<b>Calculation</b>	Average of >1 year
<b>Value</b>	0.3 $\mu\text{g}/\text{m}^3$

#### Hourly monitoring data at St Paul Brass

<b>6.5-month average at St Paul Brass (June-Nov)</b>	0.01 $\mu\text{g}/\text{m}^3$
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**Note:** The MRL- Chronic benchmark for manganese is not intended for direct comparison with averages representing less than 1 year. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.



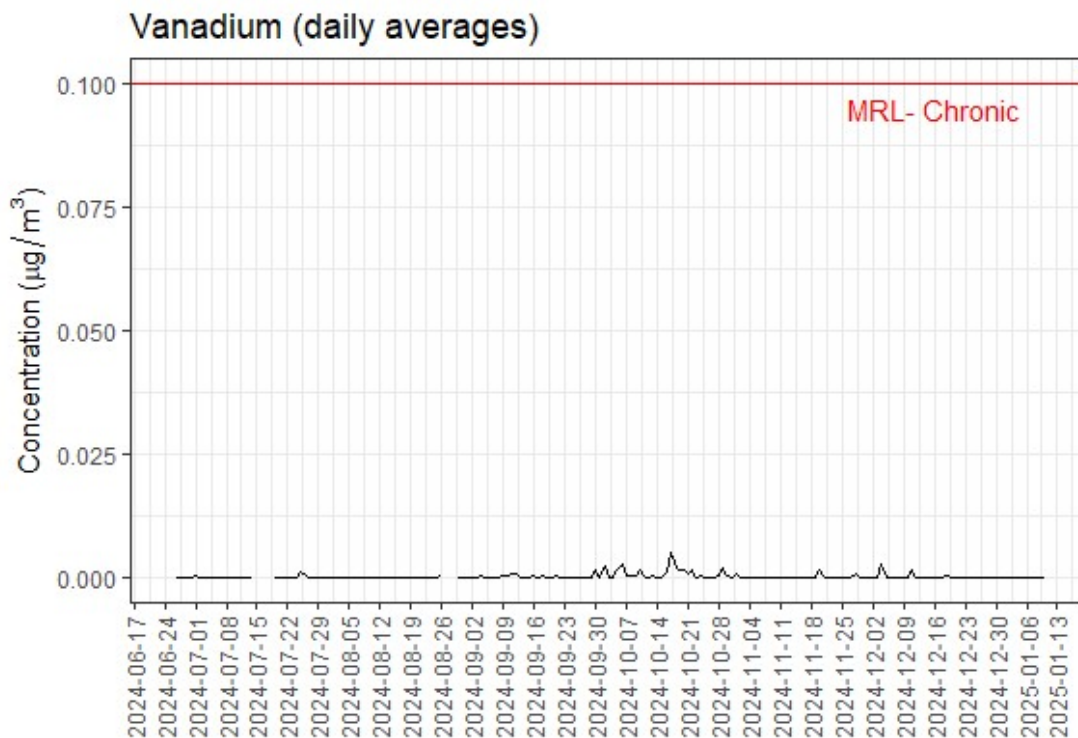
#### Health benchmark

<b>Benchmark used</b>	MRL (Minimum Risk Level)- Intermediate
<b>Organization</b>	Agency for Toxic Substances and Disease Registry
<b>Calculation</b>	Average over 14-364 days
<b>Value</b>	0.2 $\mu\text{g}/\text{m}^3$

#### Hourly monitoring data at St Paul Brass

<b>6.5-month average at St Paul Brass (June-Nov)</b>	0.002 $\mu\text{g}/\text{m}^3$
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**Note:** The MRL- Intermediate benchmark for nickel is not intended for direct comparison with averages representing less than 14 days. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.



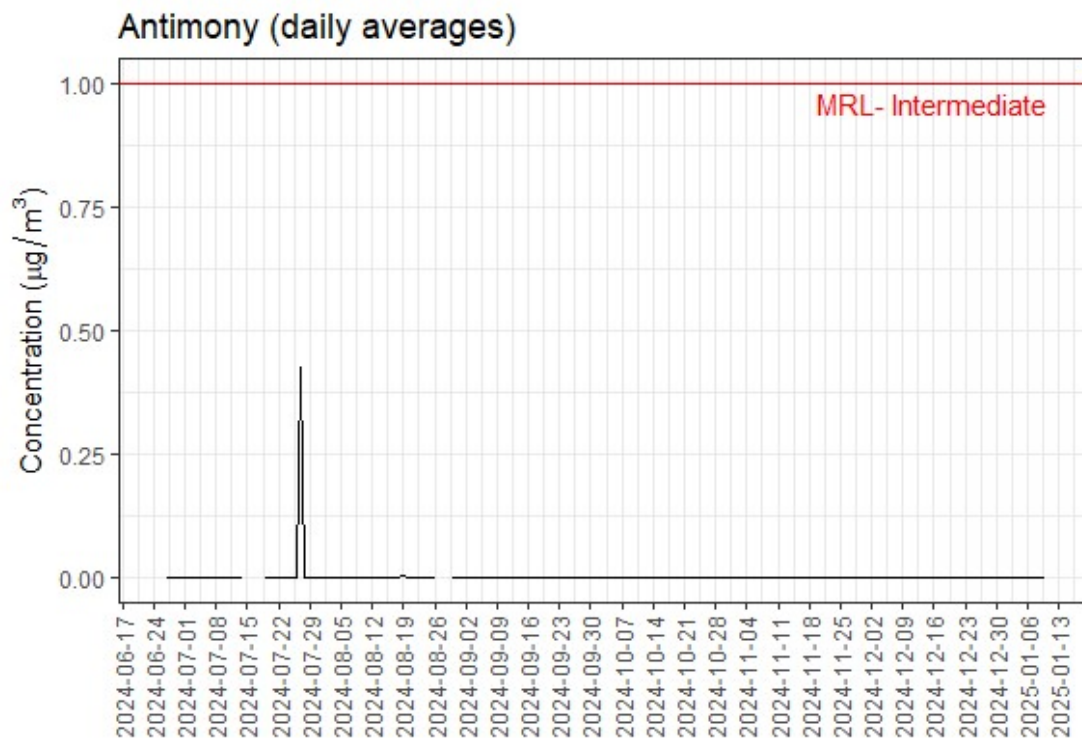
#### Health benchmark

<b>Benchmark used</b>	MRL (Minimum Risk Level)- Chronic
<b>Organization</b>	Agency for Toxic Substances and Disease Registry
<b>Calculation</b>	Average of >1 year
<b>Value</b>	0.1 $\mu\text{g}/\text{m}^3$

#### Hourly monitoring data at St Paul Brass

<b>6.5-month average at St Paul Brass (June-Nov)</b>	0.0003 $\mu\text{g}/\text{m}^3$
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**Note:** The MRL- Chronic benchmark for vanadium is not intended for direct comparison with averages representing less than 1 year. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.



#### Health benchmark

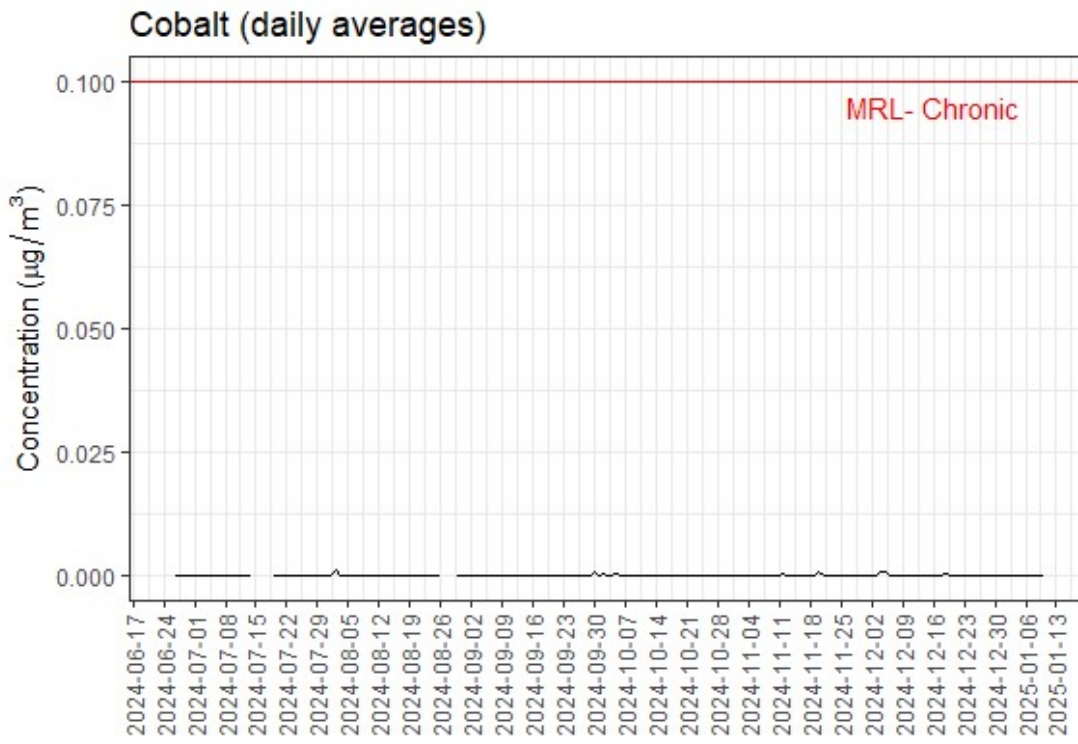
<b>Benchmark used</b>	MRL (Minimum Risk Level)- Intermediate
<b>Organization</b>	Agency for Toxic Substances and Disease Registry
<b>Calculation</b>	Average over 14-364 days
<b>Value</b>	1 $\mu\text{g}/\text{m}^3$

#### Hourly monitoring data at St Paul Brass

<b>6.5-month average at St Paul Brass (June-Nov)</b>	0.002 $\mu\text{g}/\text{m}^3$
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**Note:** The MRL- Intermediate benchmark for antimony is not intended for direct comparison with averages representing less than 14 days. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.





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Health benchmark

<b>Benchmark used</b>	MRL (Minimum Risk Level)- Chronic
<b>Organization</b>	Agency for Toxic Substances and Disease Registry
<b>Calculation</b>	Average of >1 year
<b>Value</b>	0.1 $\mu\text{g}/\text{m}^3$

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Hourly monitoring data at St Paul Brass

<b>6.5-month average at St Paul Brass (June-Nov)</b>	0.00008 $\mu\text{g}/\text{m}^3$
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**Note:** The MRL- Chronic benchmark for cobalt is not intended for direct comparison with averages representing less than 1 year. In the chart showing daily average concentrations from EPA's monitoring, the red line indicating the longer-term health benchmark is shown for visual comparison.