**Checklist for Groundwater Reporting**

**Municipal Solid Waste Landfills**



**WAC 173-351-415**

Include a signed, completed copy of this checklist with each quarterly and annual report.

Quarterly groundwater reports shall be submitted to the jurisdictional health department and Ecology within 60 days of receipt of analytical data. Annual groundwater reports shall be submitted to the jurisdictional health department and Ecology by April 1 of each year.

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| --- | --- | --- | --- |
| **1st\_\_\_\_\_\_\_ 2nd\_\_\_\_\_\_\_ 3rd \_\_\_\_\_\_\_\_ 4th \_\_\_\_\_\_\_ YEAR\_\_\_\_\_\_\_\_\_\_\_** | **Reference**  (section, subsection) | **Included in this report** | **Location – page # or appendix #** |
| ***Quarterly Groundwater Reports****: 173-351-415 (2) plus the referenced section* |  |  |  |
| Statistical calculations and summaries |  |  |  |
| Descriptive statistics | 420, (1) |  |  |
| Statistical tests | 420, (2) |  |  |
| Notification of statistical increase (if applicable) | 420, (4) |  |  |
| Notification of concentrations above Chapter 173-200 WAC criteria (if any) | 430, (4) |  |  |
| Static water level readings | 415, (2) |  |  |
| Potentiometric surface elevation maps depicting flow direction | 415, (2) |  |  |
| Flow rate – calculated | 415, (2) |  |  |
| Cation-anion balances | 430, (5a) |  |  |
| Explanation of greater than 5% (or 10%) difference if needed | 430, (5a) |  |  |
| Trilinear diagrams | 430, (5b) |  |  |
| Leachate analyses (if sampled and tested) | 415, (2) |  |  |
| Data entered into EIM database (date entered: \_\_\_\_\_\_\_\_\_\_\_\_\_ ) | 415, (3) |  |  |
| Complete copy of the lab report with chain of custody record. |  |  |  |
|  |  |  |  |
| ***Annual Groundwater Reports****: 173-351-415 (1)* **YEAR\_\_\_\_\_\_\_\_\_\_** |  |  |  |
| Summary of statistical results and trends | 415, (1) |  |  |
| Summary of groundwater flow rate and direction for the year | 415, (1) |  |  |
| Copy of all potentiometric maps for the year | 415, (1) |  |  |
| Summary geochemical evaluation | 415, (1) |  |  |
|  |  |  |  |
| ***For Quarterly and Annual Reports*** |  |  |  |
| Stamped by a licensed professional | RCW 18.220 |  |  |

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Signature of Report Author Date Landfill