

# Biosolids Land Application Site Authorization Request Documentation Checklist

DEQ requests the following information be submitted with the biosolids land application site authorization request.

## SITE INFORMATION

- Vicinity map (e.g., USGS, tax lot, county assessor) indicating location of proposed land application site and acreage, including gross and net (any area or buffer areas not available for biosolids application) acreage
- Site location including street address (if not available, then state directions to site), tax reference number, section, township, range, and county
- Site owner name, address, and phone number. Site renter name, if applicable
- Detailed map showing property boundaries, and setbacks from roadways, occupied buildings, other manmade features, surface waters, and domestic water source or wells. (Recommended: plot on aerial photograph.) Distance (in feet) from biosolids land application site boundary to nearest residence(s), other publicly occupied building(s) (e.g., retail store, school, apartment building), and public use areas such as parks or hiking trails.
- Site management agreement between the biosolids generating source and the site owner(s) of record and/or authorized representative operator
- Site Zoning
- Description of adjacent land uses

## SOIL INFORMATION

- USDA Natural Resources Conservation Service (NRCS) soil survey map
- Copy of the soil survey map description for each soil series indicated on a NRCS map at the proposed land application site
- Not required for all sites but if available, the most recent soil analysis (of organic matter, NO<sub>3</sub>-N, total N, Bray or Olsen P, pH, buffer pH, trace metals from biosolids list)

## AGRICULTURAL AND CROP MANAGEMENT INFORMATION

- Crop to be grown at the site and intended market (e.g., barley for seed, feed, brewing, food, or commodity sale). Crop assimilative capacity (nitrogen)
- Crop sequences and the time(s) of year biosolids will be land applied to the crop site. Crop harvest method (e.g., silage vs. pasture) and tilling practices
- Irrigation practices and fertilizer use
- Not required but if available, typical harvest information (e.g., quantity, protein content) from site

## BIOSOLIDS AND LAND APPLICATION INFORMATION

- Biosolids characteristics from the most recent biosolids analyses, including data on:
  - Total kjeldahl nitrogen, nitrate nitrogen, ammonium nitrogen, total phosphorus, potassium, total solids, volatile solids (expressed as percent dry weight), pH; and
  - Arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, selenium, zinc, and if required, silver and chromium (expressed as mg/kg dry weight)
- Forecast of first year biosolids application rate (gallons or dry tons/acre/year).
- Nutrient and metal loadings based on biosolids analyses and total acreage land applied for the year
- Calculations used for forecasting annual biosolids application rate
- Site life calculations (if applicable)
- Field staging and/or storage practices (if applicable)

## PUBLIC PARTICIPATION INFORMATION

- Documentation on Public Notification, including:
  - Copy of any written notification materials
  - Who received notification (including name, address, and telephone number, if known)
  - How notification was made (e.g., information flyer left at the door, mail, conversation with occupant, etc.)
  - Date and, for direct contacts, time of notification
  - Summary of any responses to notification and how they were addressed