

March 1, 2018

XXX
XXX
XX Road
Dayton, Ohio 454XX

RE: Dental Amalgam Program for the City of Dayton

Dear Sir/Madam:

This correspondence is to provide *your* organization information regarding the Dental Amalgam Program at the City of Dayton – Division of Water Reclamation.

As you may be aware, on June 14, 2017, the Environmental Protection Agency (EPA) established Effluent Limitation Guidelines and Standards for the Dental Category (40 CFR Part 441) that became effective on July 14, 2017. This rule applies to wastewater discharges to the City of Dayton's Division of Water Reclamation from offices where the practice of dentistry is performed, including dental offices and clinics, permanent or temporary offices, and home offices.

Some background on Dental Amalgam:

Dental amalgam is an alloy that consists of mercury, silver, tin, copper, and other metallic elements. It may make up to 50 percent of the amalgam. Sources of waste amalgam include but are not limited to non-contact and contact scrap amalgam, amalgam filling that have been removed, amalgam used for new filling, used amalgam capsules, extracted teeth with amalgam fillings, and used chair side traps, filters and amalgam separators.

Capturing mercury at its source and before it reaches the sewer system is the best way to reduce mercury pollution in both water and air. The Dental Amalgam Program for areas served by the City of Dayton Water Reclamation Facility requires dentists to implement practices aimed at keeping dental-related mercury out of the sanitary sewer system.

The purpose of this program is to minimize the amount of dental-related mercury from entering the City of Dayton's sanitary sewer system.

Information here is specific to dental facilities located in the City of Dayton service area.

Who is affected?

- Dentists who place or remove amalgam must install an amalgam separator and implement Best Management Practices (BMPs). This includes institutions, permanent or temporary offices, clinics, home offices, and Federal, State, or local government owned or operated facilities.
- Dentists who never place amalgam and do not remove amalgam except in limited, unplanned, unanticipated circumstances (<5% of removals) must certify as such, but do not require the installation of an amalgam separator or the implementation of the BMPs.

- The following dentists are exempt from this regulation:
 - Dentists that exclusively practice one or more of the following specialties: oral pathology, oral and maxillofacial radiology, oral and maxillofacial surgery, orthodontics, periodontics, or prosthodontics.
 - Mobile units providing services in multiple locations.
 - Dentists that do not discharge amalgam wastewater to the sewer system.

What is required?

For those dental offices that place and/or remove dental amalgam that discharge to the sewer system:

- Installation and maintenance of an appropriately sized amalgam separator compliant with one of the following:
 - ANSI American National Standard/ADA Specification 108 for Amalgam Separators (2009) with Technical Addendum (2011) or subsequent versions with a minimum 95% removal efficiency.
 - ISO 11143 Standard (2008) or subsequent versions with a minimum 95% removal efficiency
 - An equivalent device may be used if it meets the requirements listed in 40 CFR 441.30(2).
- Implementation of the following BMPs:
 - Waste amalgam must not be discharged to the sewer.
 - Oxidizing or acidic cleaners, including but not limited to bleach, chlorine, iodine, or peroxide cleaners or cleaners with pH lower than 6 or greater than 8, must not be used to clean dental unit wastewater lines, chair-side traps, and vacuum lines.

For those dental facilities that either place and/or remove dental amalgam that discharges to the sewer system, do not place and/or remove dental amalgam but discharge to the sewer system, or exempt from the regulation:

- Submittal of a One-Time Compliance Report to the City of Dayton Water Reclamation – Industrial Pretreatment Program (Dental Dischargers with Amalgam Process Wastewater One-Time Compliance Report, Dental Dischargers without Amalgam Process Wastewater, or for Dental Dischargers Exempt from Dental Mercury Regulation 40 CFR Part 441 Report)

When is Compliance Required?

No separator and not exempt?

- If discharge from your facility started after July 14, 2017, comply immediately and submit a One-Time Compliance Report within 90 days
- If discharge from your facility started before July 14, 2017, comply by July 14, 2020, and submit a One-Time Compliance Report no later than October 12, 2020

Separator installed prior to June 14, 2017?

- Implement the required BMPs.
- Submit a One-Time Compliance Report by October 12, 2020

- Replace the amalgam separator if not compliant with the rule by June 14, 2027, or whenever it needs to be replaced, whichever comes first

Do not place and only remove amalgam in limited circumstances?

- Certify as such through submittal of a One-Time Compliance Report by October 12, 2020

Resubmittal Triggers for One-Time Compliance Report within 90 days

- Transfer of ownership of the practice (new owner must submit); Replacement of the amalgam separator; Change in third party management of the amalgam separator (property owner or vendor).

Recordkeeping and Continued Compliance Requirements:

- Maintain a copy of the One-Time Compliance Report as long as the practice is in business or until ownership is transferred

Benefits:

The benefits of complying with this standard include:

- Reduces the amount of amalgam entering collection systems and wastewater treatment facilities
- Reduces the impact to the environment.
- Allows for greater recycling efforts.

The Ohio Dental Association and the Ohio Environmental Protection Agency have developed the Ohio Good DEED (Dedicated to Environmental Excellence in Dentistry) Program that recognized dental offices that minimize the environmental impact of their practices on Ohio's environment. For more information on the Good DEED program, please contact the Ohio Dental Association (ODA) on their website www.oda.org or contact them at (614) 486-2700.

What to Submit to the City of Dayton:

In the effort to make this process as easy as possible for dental practices that discharge within the City of Dayton's jurisdiction, and to assist in your compliance with this federal requirement, we have developed the enclosed Dental Amalgam Compliance Reports – one of which will pertain to your dental practice.

- Dental Dischargers with Amalgam Process Wastewater One-Time Compliance Report (This form is for dental dischargers that place or remove dental amalgam).
- Dental Dischargers without Amalgam Process Wastewater One-Time Compliance Report (This form is for dental dischargers that do NOT place or remove dental amalgam).
- Dental Dischargers Exempt from Dental Mercury Regulation 40 CFR Part 441 Report (This form is for dental facilities which exclusively practice one or more of the following dental specialties: oral pathology, oral and maxillofacial radiology, oral and maxillofacial surgery, orthodontics, periodontics, or prosthodontics OR for dental practices in which the facility is a mobile unit).

Thank you in advance for your assistance. Please submit by December 31, 2018 the appropriate report to the following:

*Division of Water Reclamation
ATTN: Industrial Pretreatment Group
2800 Guthrie Road
Dayton, OH 45417*

If you have any questions regarding the City of Dayton Dental Amalgam Program requirements, please contact the City of Dayton Industrial Pretreatment Office at (937) 333-1501. To assist dental offices in determining if they comply with the regulation, please check out the Ohio EPA Compliance Screening Checklist on their website www.epa.state.oh.us or contact them at (614) 644-3020.

Respectfully,

Chris Clark, Manager
Division of Water Reclamation

CCIP/ip

cc: Michael Powell, Director
Aaron Zonin, Deputy Director
Inez Preyor, Industrial Pretreatment Coordinator
Jerome Wright, Industrial Pretreatment Coordinator
Christopher Moore, Director of Dental Services, Ohio Dental Association
Phoebe Low, Environmental Specialist II, Ohio EPA
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