

JAN 14 2013

Effective Date _____

BEFORE THE
OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

DIRECTOR'S FINAL
FINDINGS AND ORDERS

Village of Cadiz
128 Court Street
Cadiz, OH 43907

:
:
:
:

Respondent,

I. JURISDICTION

These Director's Final Findings and Orders (Orders) are issued to the Village of Cadiz (Respondent) pursuant to the authority vested in the Director of the Ohio Environmental Protection Agency (Ohio EPA) under Ohio Revised Code (ORC) Chapter 6109 and § 3745.01.

II. PARTIES BOUND

These Orders shall apply to and be binding upon Respondent and successors in interest liable under Ohio law. No change in ownership of Respondent's public water system shall in any way alter Respondent's obligations under these Orders.

III. DEFINITIONS

Unless otherwise stated, all terms used in these Orders shall have the same meaning as defined in ORC Chapter 6109 and the rules promulgated there under.

IV. FINDINGS

The Director of Ohio EPA (Director) has determined the following findings:

1. Respondent owns and operates a "public water system" (PWS), which is also a "community water system" as defined by ORC § 6109.01 and Ohio Administrative Code (OAC) Rule 3745-81-01.
2. Respondent's PWS (PWS ID# 3400214) is located at 128 Court Street, Cadiz (Harrison County), Ohio, 43907.
3. Respondent's PWS obtains its drinking water from a "surface water" source as defined by OAC Rule 3745-81-01 and serves a population of 3,308 persons.

4. In accordance with OAC Rule 3745-81-24(C)(1), community PWSs that treat their water with any combination of primary or residual disinfectant shall monitor for total trihalomethanes (TTHM) according to this rule.
5. In accordance with OAC Rule 3745-81-24(C)(4), surface water PWSs serving from 500 to 9,999 persons shall monitor with the minimum monitoring frequency of one TTHM sample per quarter per treatment plant or bulk supplier, at location(s) representing maximum residence times.
6. In accordance with OAC Rule 3745-81-24(C)(14), for PWSs monitoring quarterly, compliance with the maximum contaminant level (MCL) for TTHM shall be based on a running annual arithmetic average (RAA), computed quarterly, of quarterly arithmetic averages of all samples taken at each sampling point. If the RAA of quarterly averages covering any consecutive four-quarter period exceeds the MCL, the PWS is in violation of the MCL.
7. In accordance with OAC Rule 3745-81-24(C)(4), Respondent has monitored for TTHM quarterly. The quarterly averages for the Respondent's TTHM samples are 0.084 mg/L for January through March 2010; 0.066 mg/L for April through June 2010; 0.117 mg/L for July through September 2010; 0.089 mg/L for October through December 2010; 0.052 mg/L for January through March 2011; 0.071 mg/L for April through June 2011; 0.062 mg/L for July through September 2011; 0.042 mg/L for October through December 2011; 0.053 mg/L for January through March 2012, and 0.042 mg/L for April through June 2012.
8. In accordance with OAC Rules 3745-81-12(A), a community PWS is in compliance with the MCL for TTHM if the RAA is not greater than 0.080 mg/L.
9. In violation of OAC Rule 3745-81-12(A), as determined by OAC Rule 3745-81-24(C)(14), Respondent exceeded the MCL for TTHM during the monitoring periods: July through September 2010, October through December 2010, January through March 2011, and April through June 2011.
10. In accordance with OAC Rule 3745-81-14(B), a PWS which monitors with fewer than forty (40) samples per month is in compliance with the MCL for total coliform bacteria when no more than one sample during the month is total coliform-positive.
11. In violation of OAC Rule 3745-81-14(B), Respondent exceeded the MCL for total coliforms, when more than one sample was total coliform-positive during the month of July 2010.
12. In accordance with OAC Rule 3745-81-28, analytical results for the purpose of determining compliance with OAC Chapter 3745-81 may be considered only if they have been determined and reported by a laboratory certified by or otherwise

acceptable to the Director under OAC Chapter 3745-89, except that measurements for free, total, or combined chlorine residual may be performed by any person acceptable to the Director and reported to the Director by the PWS.

13. In accordance with OAC Rule 3745-81-27(C)(2), measurements of water treatment plant control tests shall be conducted by a person designated on a valid laboratory certificate of approval as required under OAC Rule 3745-89-03.
14. In violation of OAC Rules 3745-81-28 and 3745-81-27(C)(2), Respondent's chemical lab results for fluoride, pH, alkalinity, hardness, and chlorine were not performed by a fully approved analyst or a person acceptable to the Director, from January 4, 2010 through January 7, 2010, and as such Respondent's PWS failed to report valid results during that timeframe.
15. In accordance with OAC Rule 3745-81-73(A), all PWSs using conventional filtration treatment or direct filtration treatment to treat surface water shall meet the following requirements:
 - (1) Turbidity levels of representative samples of filtered water shall be less than or equal to 0.3 nephelometric turbidity units (NTU) in at least ninety-five percent of the samples analyzed each month.
 - (2) The turbidity level of representative samples of a PWS's filtered water shall not exceed one NTU.
16. In violation of OAC Rule 3745-81-73(A), Respondent failed to provide sufficient filtration during the months of December 2010, and January 2011, when the turbidity levels of representative samples of Respondent's filtered water exceeded one NTU.
17. Each violation cited above represents a separate violation of ORC § 6109.31.

V. ORDERS

1. From the effective date of these Orders, Respondent shall comply with total coliform bacteria monitoring requirements, including routine, and repeat samples, and MCL requirements, in accordance with OAC Rules 3745-81-21 and 3745-81-14, respectively.
2. From the effective date of these Orders, Respondent shall ensure that measurements of water treatment plant control tests are conducted by a person designated on a valid laboratory certificate of approval as required under OAC Rule 3745-89-03, in accordance with OAC Rule 3745-81-27(C)(2).
3. From the effective date of these Orders, Respondent shall maintain turbidity levels of representative samples of filtered water at less than or equal to 0.3

NTUs in at least ninety-five percent of the samples analyzed each month, and the turbidity level of representative samples of Respondent's filtered water shall not exceed one NTU in accordance with OAC 3745-81-73(A)(1).

4. From the effective date of these Orders, Respondent shall continue to comply with the TTHM monitoring, reporting, and MCL requirements, in accordance with OAC Rule 3745-81-24.
5. Within thirty (30) days of the effective date of these Orders, Respondent shall commence developing a Source Water Protection Plan (SWPP) for Respondent's PWS.
6. Within two (2) years of the effective date of these Orders, Respondent shall complete the development of the SWPP for Respondent's PWS, submit the SWPP to: Ohio EPA, SEDO, DDAGW, 2195 Front Street, Logan, Ohio, 43138; Attn: DOCC, receive endorsement from the Ohio EPA for the SWPP, and begin implementation of the SWPP.
7. Within sixty (60) days of the effective date of these Orders, Respondent shall submit a written system wide flushing protocol, including an implementation schedule, to Ohio EPA, SEDO, DDAGW, 2195 Front Street, Logan, Ohio, 43138; Attn: Russell Flagg, District Office Compliance Coordinator (DOCC) for review.
8. Within one hundred and twenty (120) days of the effective date of these Orders, Respondent shall conduct an evaluation of the current treatment processes. This evaluation should be conducted to optimize treatment including chemical feed rates, in relation to their effectiveness in the reduction of TTHMs, and shall submit a report in which the data collected, results of the data analysis, and the conclusions and recommendations are presented in an acceptable format to: Ohio EPA, SEDO, DDAGW, 2195 Front Street, Logan, Ohio, 43138; Attn: DOCC for review.
9. If Respondent's PWS should exceed the MCL for TTHM with a RAA greater than 0.080 mg/L, as determined by OAC Rule 3745-81-24, within two (2) years of the effective date of these Orders, Order Nos. 10 - 22 will be required.
10. Within one hundred and twenty (120) days of exceeding the TTHM MCL, Respondent shall submit a General Plan (three copies), in accordance with OAC Chapter 3745-91, to: Ohio EPA, SEDO, DDAGW, 2195 Front Street, Logan, Ohio, 43138; Attn: DOCC for review and approval. The General Plan shall include:
 - a) A description of three alternatives considered for TTHM reduction, and the rationale for the approaches selected;

- b) An engineering description of the existing facilities, treatment and disposal to be installed, including the construction phases, and an estimate of the costs of the three alternatives and the costs of any required construction, operation, maintenance, and ongoing disposal issues;
 - c) Anticipated sources of funds to cover these estimated costs; and
 - d) A detailed compliance schedule with applicable milestone dates for the significant events that are necessary to attain compliance.
11. If the Ohio EPA approval of the General Plan indicates that a pilot study is not necessary, Order Nos. 12 - 16 will not be required.
 12. Within thirty (30) days of Ohio EPA approval of the General Plan, Respondent shall submit a pilot study protocol to Ohio EPA, Central Office, DDAGW, Engineering, for review and approval. The pilot study protocol shall describe the procedures necessary to evaluate the source water for the water treatment system identified as the preferred alternative in the General Plan.
 13. If Ohio EPA should require any revisions to the pilot study protocol, Respondent shall make any such changes or modifications and/or submit any additional information to Ohio EPA, within thirty (30) days of receiving a written comment letter from Ohio EPA.
 14. Within thirty (30) days of approval of the pilot study protocol, Respondent shall commence the pilot study.
 15. Within sixty (60) days of completion of the pilot study, Respondent shall submit a report in which the data collected, results of the data analysis, and the conclusions and recommendations are presented in an acceptable format to Ohio EPA, Central Office, DDAGW, Engineering for review and approval. Data shall also be submitted in an agreed-upon electronic format. The report shall also include all other data collected during start-up prior to each test period. For each operation mode performed during the pilot study, the pertinent parameters (raw water source, chemical type and dose, pH, etc.) shall be clearly defined and presented in the report.
 16. If Ohio EPA should require any revisions to the pilot study report, Respondent shall make any changes or modifications and submit any additional information to Ohio EPA, within thirty (30) days of receiving a comment letter from Ohio EPA. If the pilot study is not acceptable because the treatment failed to demonstrate sufficient, consistent, and reliable treatment, a revised pilot study protocol is required to be submitted to Ohio EPA, within sixty (60) days of receiving a written comment letter from Ohio EPA.

17. Within sixty (60) days after pilot study report approval (if required), Respondent shall submit detail plans to Ohio EPA for the modifications to the existing plant in accordance with OAC Chapter 3745-91. If it is determined that a pilot is not necessary, detail plans shall be submitted within sixty (60) days of approval of the General Plan.
18. Within thirty (30) days of receipt of notification, Respondent shall respond in writing to address any comments or deficiencies noted by Ohio EPA on any plan or other documentation submitted by Respondent.
19. Within three (3) months of detail plan approval, in accordance with detail plans approved by Ohio EPA and OAC Chapter 3745-91, Respondent shall commence installation/construction of the selected option for maintaining compliance with turbidity limits and TTHM reduction.
20. Within six (6) months of detail plan approval, in accordance with the detail plans approved by Ohio EPA and OAC Chapter 3745-91, Respondent shall complete installation and commence operation of the option for maintaining compliance with turbidity limits and TTHM reduction.
21. Within seven (7) days after the deadlines given in Orders 15 and 16 above, Respondent shall send written notification of compliance with the requirements of each of the Orders to Ohio EPA, SEDO, DDAGW, 2195 Front Street, Logan, Ohio, 43138; Attn: Russell Flagg, DOCC.
22. Within twelve (12) months of completion of the installation and commencement of operation of the option for TTHM reduction, Respondent shall achieve compliance with the MCL requirements for TTHM in accordance with OAC Rules 3745-81-12 and 3745-81-24.

VI. TERMINATION

Respondent's obligations under these Orders shall terminate when Respondent certifies in writing and demonstrates to the satisfaction of Ohio EPA that Respondent has performed all obligations under these Orders and the Chief of Ohio EPA's DDAGW acknowledges, in writing, the termination of these Orders. If Ohio EPA does not agree that all obligations have been performed, then Ohio EPA will notify Respondent of the obligations that have not been performed, in which case Respondent shall have an opportunity to address any such deficiencies and seek termination as described above.

The certification shall contain the following attestation: "I certify that the information contained in or accompanying this certification is true, accurate and complete." This certification shall be submitted by Respondent to Ohio EPA and shall be signed by a responsible official of Respondent. For purposes of these Orders, a responsible official is as defined in OAC Rule 3745-33-03.

VII. OTHER CLAIMS

Nothing in these Orders shall constitute or be construed as a release from any claim, cause of action or demand in law or equity against any person, firm, partnership or corporation, not a party to these Orders, for any liability arising from, or related to the operation of Respondent's PWS.

VIII. OTHER APPLICABLE LAWS

All actions required to be taken pursuant to these Orders shall be undertaken in accordance with the requirements of all applicable local, state, and federal laws and regulations. These Orders do not waive or compromise the applicability and enforcement of any other statutes or regulations applicable to Respondent.

IX. MODIFICATIONS

These Orders may be modified by agreement of the parties hereto. Modifications shall be in writing and shall be effective on the date entered in the journal of the Director of Ohio EPA.

X. NOTICE

All documents required to be submitted by Respondent pursuant to these Orders shall be addressed to:

Ohio EPA, Southeast District Office
Division of Drinking and Ground Waters
Attn. Russell Flagg, DOCC
2195 Front Street
Logan, Ohio, 43138

or to such persons and addresses as may hereafter be otherwise specified in writing by Ohio EPA.

XI. RESERVATION OF RIGHTS

Ohio EPA reserves its rights to seek civil or administrative penalties against Respondent for violations specifically cited in these Orders. Ohio EPA and Respondent each reserve all other rights, privileges and causes of action, except as specifically waived in Section XII of these Orders.

XII. WAIVER

In order to resolve disputed claims, without admission of fact, violation or liability, Respondent consents to the issuance of these Orders and agrees to comply with these

Orders. Except for the right to seek civil or administrative penalties against Respondent for violations specifically cite in these orders, which right Ohio EPA does not waive, compliance with these Orders shall be a full accord and satisfaction for Respondent's liability for the violations specifically cited herein.

Respondent hereby waives the right to appeal the issuance, terms and conditions, and service of these Orders and Respondent hereby waives any and all rights Respondent may have to seek administrative or judicial review of these Orders either in law or equity. Notwithstanding the preceding, Ohio EPA and Respondent agree that if these Orders are appealed by any other party to the Environmental Review Appeals Commission, or any court, Respondent retains the right to intervene and participate in such appeal. In such an event, Respondent shall continue to comply with these Orders notwithstanding such appeal and intervention unless these Orders are stayed, vacated or modified.

XIII. EFFECTIVE DATE

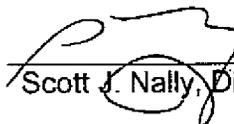
The effective date of these Orders is the date these Orders are entered into the Ohio EPA Director's journal.

XIV. SIGNATORY AUTHORITY

Each undersigned representative of a party to these Orders certifies that he or she is fully authorized to enter into these Orders and to legally bind such party to these Orders.

IT IS SO ORDERED AND AGREED:

Ohio Environmental Protection Agency



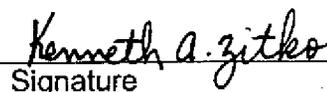
Scott J. Nally, Director

JAN 14 2013

Date

IT IS SO AGREED:

Village of Cadiz



Signature

12-27-12

Date

Mayor

Printed or Typed Name and Title