



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

PERMIT FOR PUBLIC WATER SUPPLY CONSTRUCTION

Bob Porter, Utility Superintendent
Culver Water Department
511 West Mill Street
Culver, IN 46511

WS-12741

June 6, 2024

Permit Number

Date Issued

Liz Melvin, Section Chief
Drinking Water Permits Section
Office of Water

You are hereby notified that the Office of Water Quality has approved the general design of plans and specifications of water works improvements to the Culver Water Department public water system (PWSID 5250005). This permit allows for well construction for the Culver Water Department public water system located in Marshall County, Indiana. This Permit is issued under provisions of Indiana Code (IC) 13-15, IC 13-18-16, 327 Indiana Administrative Code (IAC) 8-3, and 327 IAC 8-4-1.

Pursuant to IC 13-15-5-3 and IC 4-21.5-3-4(d), this Permit is effective on the date issued.

The project consists of installing one 12-inch diameter steel cased, unconsolidated well equipped with a submersible pump rated at 350 gpm at 200 feet TDH, and 130-feet of 6-inch ductile iron pipe, together with all the necessary appurtenances.

This Permit is issued with the following conditions:

1. That the permittee notify, in writing, Liz Melvin, Permits Section Chief, a minimum of ten (10) days, excluding Saturdays, Sundays, and State of Indiana holidays, before exercising a permit issued in accordance with 327 IAC 8-3. The notification may be via email (dwpermits@idem.in.gov) and must include the construction permit number assigned, the location of the construction, a description of the construction, anticipated duration of the construction, and the phone number of the permittee or permittee's representative who will be present during the construction;

2. That after the commissioner has granted a construction permit, no changes in the application, plans, or specifications be made other than changes involving the replacement of equipment of similar design and capacity, none of which will change adversely the plant operation, its hydraulic design or waste products, or the distribution system design, operation, or capacity without first submitting in writing to the commissioner a detailed statement of such proposed changes and receiving an amended construction permit from the commissioner. Construction permits shall become void if the construction is not started within one (1) year from the date of issuance of the permit unless the duration of the permit has been extended by the commissioner after receiving a written request from the permittee, prior to the expiration of the permit, requesting such extension with no other changes to the permit, application, plans, or specifications as approved by the commissioner;
3. That the possession of any permit authorized by 327 IAC 8-3 not be construed to authorize the holder of the permit to violate any law of the State of Indiana or rule;
4. That the facility be designed, constructed, installed, and operated in such a manner that it will not violate any of the sanitary or health regulations or requirements existing at the time of application for the permit;
5. That the facility conform to the design criteria in the 2012 Edition of the "Recommended Standards for Water Works" established by the Great Lakes - Upper Mississippi River Board of State Public Health and Environmental Managers (10 State Standards), the American Water Works Association (AWWA) standards, or is based on such criteria which the applicant shows will produce drinking water of satisfactory quality and normal operating pressure at the peak operating flowrate in accordance with 327 IAC 8-3;
6. That all requirements of the enclosed Well Site Survey dated April 5, 2024, are met;
7. That the system be equipped with a sampling tap for raw water from the well. Sampling taps shall be of smooth nosed type without interior or exterior threads, shall not be of the mixing type, and shall not have a screen, aerator, or other such appurtenance. The tap is to be located before all treatment and storage;
8. That two (2) consecutively satisfactory bacteriological total coliform samples taken at least twenty-four (24) hours apart, one (1) satisfactory nitrate sample, and one (1) fluoride sample be taken from each well before the wells are put into production. The laboratory results must have the assigned permit number, WS-12741 and PWSID # 5250005 on it and be submitted to Drinking Water Branch's Permit Section at dwpermits@idem.in.gov;

9. That all direct additives to the public water system shall be certified for conformance to ANSI/NSF Standard 60 and all indirect additives, including lubricants, coatings and equipment which conveys potable water, be certified for conformance to ANSI/NSF Standard 61;
10. That any pipe, plumbing fitting or fixture containing more than a weighted average of 0.25% lead, and solders or flux containing more than 0.2% lead are not to be used in the installation or repair of any piping on this project which conveys a potable water supply. Additional information may be obtained at the U.S. Environmental Protection Agency's website at <http://water.epa.gov/drink/info/lead/upload/epa815s13001.pdf>;
11. That the well and the water system be constructed and installed as shown and described on the plans and specifications entitled Well C Construction certified by Kevin J. Marks P.E., initially submitted by Peerless Midwest Inc. on April 1, 2024, and accepted as complete on April 26, 2024, with revisions to the plans submitted on April 25, 2024, and May 31, 2024.
12. That the well be cased to a minimum depth of fifty (50) feet below the ground surface in accordance with 327 IAC 8-3.4-20;
13. That casing material for the well shall be new and conform to the requirements in 327 IAC 8-3.4-16;
14. That the well casing be made of impervious material as required for all production wells for a community water system;
15. That in accordance with 327 IAC 8-3.4-16(a)(5)(A)(ii) the permanent well casing shall terminate at a level of at least eighteen (18) inches above finished grade or at least thirty-six (36) inches above the regulatory flood elevation if located in a designated flood hazard area identified by the Federal Emergency Management Agency (FEMA);
16. That in accordance with 327 IAC 8-3.4-16(a)(5)(B) the permanent well casing shall terminate at least twelve (12) inches above the pump house floor or concrete apron.
17. That a storm or sanitary sewer shall not be located within the sanitary setback of a production well, and that the existing Davis Street storm and sanitary sewers, within the 100-foot radius, be capped and properly abandoned prior to the new well's activation. Documentation of abandonment is to be provided to Kali Young, Field Inspector, at KSYoung@idem.in.gov as well as the Drinking Water Branch's Permit Section at dwpermits@idem.in.gov;
18. That the well shall be pumped tested in accordance with 327 IAC 8-3.4-25 for a minimum of twenty-four (24) hours at a capacity at least equal to the pumping rate desired from the well during normal usage;

19. That the discharge piping shall meet the material requirements of 327 IAC 8-3.2-8 and comply with the bury depth requirements of 327 IAC 8-3.2-17(d);
20. That the system shall be sized and constructed in accordance with 327 IAC 8-3.4-12 to maintain a minimum of 35 psi at ground level for a flow rate equal to the average daily consumer demand and to deliver water at 20 psi minimum pressure to all fixtures and appurtenances during periods of peak water demand;
21. That backflow and back siphonage prevention shall be provided in accordance with 327 IAC 8-10;
22. That all water from the well be subjected to automatic disinfection treatment meeting the provisions of 327 IAC 8-2-8.6 prior to entering the distribution system;
23. That a determination of the influences of the surface water sources upon the quality of the water produced by the well shall be made and if determined to be ground water under the influence of surface water, treatment and monitoring must be provided in accordance with Indiana 327 IAC 8-2-8.5 through 8-2-8.8 inclusive.

To complete the GWUDI assessment of the new well, the system must provide the results of six (6) months raw water bacteriological sample analysis to the Drinking Water Branch. Also, six (6) months of daily raw water temperatures must be submitted. The analysis of the six (6) months of raw samples and the temperature analysis are to be submitted in one report at the end of the test period.

The results of this determination must be submitted to the Drinking Water Branch within (8) months of the completion of the well construction.

That the water from the well(s) be treated with conventional surface water treatment if the water is determined to be under the influence of surface water;

24. That a copy of well log and results of well production tests shall be submitted to the Division of Water, Department of Natural Resources in accordance with IC 25-39-4 and to the Drinking Water Branch's Permit Section at dwpermits@idem.in.gov prior to the operation of the well;
25. That the system updates the wellhead protection plan with the new well;
26. That the City of Culver shall control the traffic along the north/south bound of South Ohio Street and east/west bound of Davis Street to prevent hazardous materials or potential sources of contamination from being spilled near the well;
and

27. That the City of Culver shall update the city's Emergency Response Plan (ERP) and wellhead protection plan to reflect protection regarding specific dangers and spills occurring within 200 feet of Well C. This is to include actions to conduct clean up and notice to customers.

Plans and specifications entitled Well C Construction certified by Kevin J. Marks P.E., were submitted by Peerless Midwest Inc. on April 1, 2024, along with revisions to the plans on April 25, 2024, and May 31, 2024.

This Permit shall become void if construction is not started by July 2025. Any fundamental change in plans or specifications which may affect drinking water quality, operations, or public health must be submitted for review and approval by this agency. This Permit may be modified, suspended, or revoked for cause including, but not limited to the following:

1. Violation of any term or condition of this Permit; or,
2. Obtaining this Permit by misrepresentation or failure to fully disclose all relevant facts.

Nothing herein shall be construed as guaranteeing that the proposed public water supply facility shall meet standards, limitations or requirements of this or any other agency of state or federal government, as this agency has no direct control over the actual construction and operation of the proposed project.

If you wish to challenge this permit, you must file a Petition for Administrative Review with the Office of Environmental Adjudication (OEA) and serve a copy of the petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the issuance of this notice (eighteen (18) days if you received this notice by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director
Office of Environmental Adjudication
Indiana Government Center North
Room N103
100 North Senate Avenue
Indianapolis, Indiana 46204

Commissioner
Indiana Department of Environmental Management
Indiana Government Center North
Room 1301
100 North Senate Avenue
Indianapolis, Indiana 46204

The petition must contain the following information:

1. The name, address and telephone number of each petitioner.
2. A description of each petitioner's interest in the permit.
3. A statement of facts demonstrating that each petitioner is:

- a. a person to whom the order is directed;
 - b. aggrieved or adversely affected by the permit; or
 - c. entitled to administrative review under any law.
4. The reasons for the request for administrative review.
 5. The particular legal issues proposed for review.
 6. The alleged environmental concerns or technical deficiencies of the permit.
 7. The permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
 8. The identity of any person(s) represented by the petitioner.
 9. The identity of the person against whom administrative review is sought.
 10. A copy of the permit that is the basis of the petition.
 11. A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the permit. Examples are:

1. Failure to file a Petition by the applicable deadline;
2. Failure to serve a copy of the Petition upon IDEM when it is filed; or
3. Failure to include the information required by law.

If you seek to have a permit stayed during the administrative review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.

Pursuant to IC 4-21.5-3-17, OEA will provide all parties with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you are entitled to notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding you must submit a written request to OEA at the address above.

If you have questions regarding your Petition for Administrative Review by the Office of Environmental Adjudication, please refer to the FAQs on OEA's website at <http://www.in.gov/oea>.

In order to assist the permit staff in tracking appeals, we request that you submit a copy of your petition to Liz Melvin, Permits Section Chief, OWQ Drinking Water Branch – Mail Code 66-34, 100 N. Senate Ave, Indianapolis, Indiana 46204-2251.

If you do not object to this Permit, you do not need to take any further action. If you have any questions regarding this matter, please contact Ian Caig, Permit Review Engineer, Office of Water Quality, at (317) 982-1639.

cc: Marshall County Health Department (electronic copy)
Kevin J. Marks, P.E. (electronic copy)
Ian Caig, IDEM (electronic copy)

Lucio Ternieden, IDEM (electronic copy)
Kali Young, IDEM (electronic copy)
Liz Melvin, IDEM (electronic copy)
Christian Walker, IDEM (electronic copy)
Karla Goodman, IDEM (electronic copy)
Stacy Jones, IDEM (electronic copy)
Kelly Jones, IDEM (electronic copy)

Attachment: Well Site Survey Approval



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment

100 N. Senate Avenue • Indianapolis, IN 46204

(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

April 5, 2024

Mr. Robert Porter
Culver Water Department
200 East Washington
Culver, IN 46511

Dear Mr. Porter:

Re: Amended Well Site Survey-Well C
Second Amendment
Culver Water Department
PWSID #: IN5250005

Ms. Kali Young of this office conducted a well site survey on April 2, 2024 at Culver Water Department, Marshall County; Culver, Indiana. All information has been received and the enclosed amended survey has been issued. The survey is valid for one (1) year from the date of the survey. A copy has been forwarded to the Construction Permit Section of the Drinking Water Branch.

If you have any questions regarding this correspondence, please contact Kali Young of my staff at KYoung@idem.in.gov or by calling (574) 229-7502. You may also contact Lucio Ternieden by email at LTernied@idem.IN.gov or by phone at 317-234-7461.

Sincerely,

Lucio M. Ternieden, Chief
Field Inspection Section
Drinking Water Branch
Office of Water Quality

Enclosure

Cc: Marshall County Health Department
Liz Melvin, IDEM Construction Permits
Jean Kocher, IDEM Construction
Permits

REPORT OF SURVEY
Proposed Well Site-Well C
Culver Water Department
PWSID # IN5250005

LOCATION: Union Township, Marshall County, Indiana

SURVEYED BY: Kali Young, Indiana Department of Environmental Management

SURVEY DATE: April 2, 2024

GENERAL: An amended sanitary well site survey was conducted for a new production well. The well will be named Production Well C (PW C).

GENERAL
DESCRIPTION
OF WELL SITE:

The proposed well site is located approximately 50 feet east of South Ohio Street and 50 feet north of Davis Street in Culver, IN. Water from this well when completed will feed the Culver Water Department.

COMMENTS: The proposed well is a new production well that will serve the Culver Water Department. There are a few sources of contamination within three thousand (3000) feet of the proposed location.

The proposed well location covered in this report was surveyed from the standpoint of providing protection from sources of contamination originating at or near the ground surface in the vicinity of the proposed well.

CONDITIONS OF
OPERATION:

The proposed well location complies with 327 IAC 8-3.4-9 and once permitted and installed may serve the Culver Water Department Community public water supply subject to the following conditions.

1. That the Culver Water Department public water supply system control the area within one hundred (100) feet from the well by, purchase, registered easement, long-term lease, or by covenants in the deeds of the surrounding land, prohibiting the construction or maintenance of any sewers, drains, privies, cesspools, septic tanks, or any other potential source of contamination within one hundred (100) feet of the wells. Copies of these documents are to be provided to this office.
2. That the Culver Water Department public water supply system submits to this office a complete report on each well drilled. This report should include a log showing the different strata encountered and the depth of the pump setting, the length of the screen, the static and pumping water levels, pumping capacity, log of pump test, back-grouting, and details of how the well casing is sealed into rock, if rock is encountered. Copies of the report shall be maintained on site.

3. That complete plans and specifications for the construction of the well and pumphouse, and treatment equipment, connecting piping, sampling spigots, and other pertinent information be certified according to 327 IAC 8-3.4-3 and submitted to the Permits Section, Drinking Water Branch of IDEM for review and approval.
4. That the system be equipped with a sampling tap for raw water from the well. Sampling taps shall be of the smooth nosed type without interior or exterior threads, shall not be of the mixing type, and shall not have a screen, aerator, or other such appurtenance. The tap is to be located before all treatment and storage/pressure tanks. The sample tap is to comply with the requirements of the ground water rule.
5. That a determination of the influences of the surface water sources upon the quality of the water produced by the well shall be made and if determined to be ground water under the influence of surface water, treatment and monitoring must be provided in accordance with Indiana 327 IAC 8-2-8.5 through 8-2-8.8 inclusive.

To complete the GWUDI assessment of the new well, the system must provide the results of six (6) months raw water bacteriological sample analysis to the Drinking Water Branch. Also, six (6) months of daily raw water temperatures must be submitted. The analysis of the six (6) months of raw samples and the temperature analysis are to be sent in one report at the end of the test period.

The results of this determination must be submitted to the Drinking Water Branch within eight (8) months of the completion of the well construction.

That the water from the well(s) be treated with conventional surface water treatment if the water is determined to be under the influence of surface water.

6. That two (2) consecutively satisfactory bacteriological samples taken at least twenty-four (24) hours apart, one (1) satisfactory nitrate sample, and one (1) fluoride sample be taken from each well before the wells are put into production. Copies of the sample results are to be mailed to Kali Young, Field Inspection Section, of the Drinking Water Branch.
7. That the area immediately surrounding the well casings be sloped, so that surface water drains away and prevent any water from pooling or standing next to the casing.
8. That in accordance with 327 IAC 8-3.4-16(a)(5)(A)(ii) the permanent well casing shall terminate at a level of at least eighteen (18) inches above finished grade or at least thirty-six (36) inches above the regulatory flood elevation if located in a designated flood hazard area identified by the Federal Emergency Management Agency (FEMA).

9. That original well logs and copies of well production tests are submitted to the Division of Water, Department of Natural Resources in accordance with IC 25-39-4 within thirty (30) days after completion. Copies of the logs and tests shall be maintained on site.
10. That the existing Davis Street storm and sanitary sewers, within the 100-foot radius, be constructed according to 327 IAC 8-3.4-9(5)(B) or capped and properly abandoned prior to the new well's activation and as part of the well construction permit requirements. Documentation of abandonment and piping is to be provided to Kali Young, Field Inspector at KYoung@idem.in.gov
11. That the well casing be made of impervious material as required for all production wells for a community water system.
12. That a meter capable of measuring the discharge from the well be located at a convenient point in the piping system.
13. That all water from the well be subjected to automatic disinfection treatment meeting the provisions of 327 IAC 8-2-8.6 prior to entering the distribution system.
14. That all chemical application to the grounds surrounding the well sites comply with label directions and in conformance with rules of the Indiana Office of the State Chemist and Indiana Administrative Code (IAC) at 355 IAC as applicable, 357 IAC as applicable and 327 IAC 8-3.4-9.
15. That storm or sanitary sewers, including field drain tiles, shall not be located within the isolation area of a production well unless constructed according to 327 IAC 8-3.4-9(5)(B).
16. That the system updates the wellhead protection plan with the new well.
17. That the well casing be at least fifty (50) feet in accordance with 327 IAC 8-3.4-20 for rotary well drilling and 327 IAC 8-3.4-21 for cable tool well drilling.
18. A review of the IDEM's Office of Land Quality records show that the proposed well location is not within two hundred (200) feet of a known Environmental Restrictive Covenant (ERC) property boundary.
19. This amended well site survey shall be valid for a period of one (1) year ending April 2, 2025. If construction has not begun by April 2, 2025, a request for an updated well site survey or an extension of this survey must be made prior to beginning construction.

20. That the City of Culver shall control the traffic along the north/south bound of South Ohio Street and east/west bound of Davis Street to prevent hazardous materials or potential sources of contamination from being spilled near the well.
21. That the City of Culver shall update the city's Emergency Response Plan (ERP) to reflect specific dangers and spills occurring within 200 feet of Well C.
22. This well site survey approval is only valid for the location that is noted in this survey.

If IDEM issues a construction permit for this project, these conditions will be incorporated into the construction permit. This survey does not constitute a construction permit. You must obtain a valid construction permit prior to construction. If your construction application has not yet been submitted, you must include a copy of this survey as a part of a complete construction permit application.