

VILLAGE OF ANTIOCH LAKE COUNTY, ILLINOIS

NOTICE TO CONTRACTORS

The Village of Antioch will receive sealed proposals for the following project at the Village Clerk's Office, 874 Main Street, Antioch, Illinois 60002, until 2:00 PM on January 19, 2024

Proposals shall be sealed and addressed to the Village Clerk and marked, "**SLUDGE REMOVAL BID.**"

Project: **SANITARY SEWER SLUDGE HAULING AND DISPOSAL**

Proposals will be publicly read aloud at Antioch Village Hall at 2:00 PM on January 19th, 2024. No bid shall be withdrawn after the proposals' opening without the Village Administrator's consent for forty-five days after the scheduled time of the closing bids.

The right is reserved by the Village to reject any or all proposals, waive technicalities, postpone the bid opening, or advertise for new proposals if, in the judgment of the Village of Antioch, their best interests will be promoted. The Village has the right to award the proposal to more than one submitter. The Village has the right to make selections not based solely on price. The Village will reject any proposal submitted by a debarred individual or entity.

The selected contractor will be required to pay not less than the prevailing wage rates on the project as established by the United States Department of Labor. The contractor shall also comply with all applicable Federal, State, and local regulations.

SLUDGE REMOVAL — VILLAGE OF ANTIOCH, ILLINOIS

GENERAL DESCRIPTION

The Village of Antioch is seeking a licensed sludge hauling contractor to remove, transport, and land-apply dewatered (cake) digested CLASS B sludge in an environmentally safe manner.

CONTRACT DURATION

The contract will commence on March 7, 2024, and conclude on March 6th, 2025. At its discretion, the Village may extend the agreement annually for an additional two years, expiring on March 06, 2027.

The Village of Antioch reserves the right to cancel this contract if the contractor does not provide services to maintain the proper operation of Village facilities.

SLUDGE QUANTITY

Estimated quantities of dewatered CLASS B sludge to be removed and land applied is approximately 2,000 cubic yards annually. However, the Village of Antioch reserves the right to decrease or increase the quantity of sludge removed from the treatment plant.

SCOPE OF WORK

The contractor shall supply all equipment, materials, labor, and fuel to load, transport, and land and apply the sludge by environmentally acceptable methods. The contractor shall be responsible for cleaning up any sludge spilled outside and within the treatment plant storage area, roadway, and parking lot should spills occur during loading. The contractor shall also be responsible for cleaning up any spills along public roadways during transport and shall be responsible for any fines or legal fees associated with such spills.

In addition to removing sludge cake, the contractor may be requested to provide sludge removal services from the digesters, dewatering biological treatment units, and other sludge sources within the wastewater treatment plants. Any additional costs outside of trucking/hauling will be considered an additional cost to the proposal.

WEIGHT/VOLUME ACCOUNTABILITY

The Village of Antioch reserves the right to determine the method used for sludge volume accountability with agreement by the contractor. The contractor shall cooperate fully with the Village of Antioch requests for inspection.

The contractor shall verify the quantity of sludge removed with a Village representative before leaving the premises. A Village representative has the right to inspect all loads leaving the treatment plant. The Village representative and the sludge hauler shall agree upon the estimated quantity.

LAND APPLICATION/SITE:

The contractor shall meet all land application guidelines outlined in the Village of Antioch's Land Application Permit (attached). All state and Federal guidelines for the transport and land application of sewage sludge shall also be met.

The Village and the contractor shall meet daily before the removal, transport, and application of sludge to review guidelines for complying with State and Federal regulations.

The Village reserves the right to have staff visit the disposal site to observe and document sludge storage and/or application methods.

NOTIFICATION TO CONTRACTOR FOR SLUDGE REMOVAL/APPLICATION

Sludge removal by the contractor shall commence within twenty (20) calendar days after receiving verbal or written notification from the Village of Antioch to begin sludge hauling. Deviations from this twenty (20) day period due to weather conditions shall be allowed only with the Village of Antioch's approval. The Village of Antioch reserves the right to employ an alternate contractor for a portion or all of the remaining contract period if this stipulation by the contractor is not met. Under this situation, no compensation will be due to the contractor for work lost during the contract period.

CONTRACTOR NOTIFICATION TO VILLAGE

The contractor shall notify the Village of Antioch for at least 48 hours before moving equipment onto the site. The contractor shall proceed with the work expeditiously to ensure its completion as rapidly as possible after starting. All applications shall be in accordance with the Village of Antioch ILLINOIS ENVIRONMENTAL PROTECTION AGENCY Land Application permit (attached). (Attached)

TECHNICAL PROVISIONS

All operations in the areas of sludge removal, transport, and disposal shall be in full accordance with provisions of the Village of Antioch Land Application permit (attached) as issued by the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, as well as "Design Criteria for Sludge Application on Land", January 1, 1984, in 35 ILL. ADM. CODE: SUBTITLE C, CHAPTER II, PART 391, United States Environmental Protection Agency 40 CFR Part 503 or the most current regulatory requirements. The contact person from the Village of Antioch is Jason Treat, Supervisor of Wastewater Operations. All questions regarding the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY permit shall be directed to Jason Treat. Land application of bio-solids shall be in accordance with all applicable federal, state and local regulations and with good agronomic management practices. All monitoring and reporting as required by the Illinois Environmental Protection Agency and United States Environmental Protection Agency as part of the land application program and the United States Environmental Protection Agency 40 CFR Part 503 Regulations shall be performed, with copies provided to the Village of Antioch. The amendment to House Bill 806 shall be performed by the contractor, with copies of the written notifications letters provided to the Village of Antioch.

APPLICATION SITES

Obtaining appropriate application sites shall be the responsibility of the contractor. A minimum of five (5) working days before commencement of sludge removal operations, the contractor shall supply the Village of Antioch with information identifying the location and naming the area(s) on a United States Geological Survey map that sludge will be disposed of. The final disposal site(s) shall be used for agricultural purposes and follow all local, state, and federal rules and regulations. The Village of Antioch reserves the right to disapprove any land application site based upon potential adverse public reaction or unusual circumstances.

Transfer Vehicle Requirements

The gross vehicle weight of any sludge transfer vehicle shall not exceed the Illinois legal weight limits of the tractor-trailer combination. The contractor shall also hold a valid Illinois Commerce Commission permit to haul wastewater sludge or use a subcontractor for hauling that passes certification. Trailers shall have sealed tailgates to not leak sludge during transport.

Permits, Certificates, Laws and Ordinances

Prior to starting work, the contractor shall, at his own expense, procure all permits, certificates, and licenses required of the contractor by law for the execution of work. The contractor shall comply with all Federal, State, or local laws, ordinances, or rules and regulations relating to the performance of the work.

Contractor Documentation

The contractor shall supply the Village of Antioch, at a minimum, the following information required for ILLINOIS ENVIRONMENTAL PROTECTION AGENCY and UNITED STATES ENVIRONMENTAL PROTECTION AGENCY documentation.

Sludge Removed & Transported

- Dates of activity
- Number of loads removed.
- Cubic yards removed.

Sludge Application

- Application site
- Dates of activity
- Weather Conditions
- Cubic yards applied on each date.
- Tons/Acre
- Total field size (acres)
- Affected acres.
- Crop to be grown.
- Current Cumulative loading to date
- Application and Loading Rates
- Certification Statements as required by 503 Regulation.
- Sludge notification letters.

ADDITIONAL INFORMATION TO BE SUBMITTED BY THE CONTRACTORS

The Village of Antioch shall require each prospective contractor to submit with the bid proposals the following information:

1. A certificate of other such documentation that the contractor has performed similar sludge land application operations and has at least two years' experience in the same. Also, a sheet with four references shall be submitted as indicated.
2. A complete list of all equipment, vehicles, and personnel that the contractor proposes to employ in the various phases of the work, along with specific requirements thereof.
3. A copy of the contractor's sludge hauling license issued by the Illinois Environmental Protection Agency.

INSURANCE REQUIREMENTS

The successful bidder will be required to furnish certificates and policies of insurance and shall name the Village of Antioch as insured. The limits of insurance shall be as follows:

Worker's Compensation- Statutory Limits

Employer's Liability-\$500,000 each accident/\$500,000 disease/\$500,000 each employee disease

Auto Liability-\$1,000,000 each occurrence/\$2,000,000 aggregate

Products and Completed Operations-\$1,000,000 each occurrence/\$2,000,000 aggregate.

Bid and Performance Bond-The Successful Bidder will be required to furnish a Performance Bond and a Labor and Material Payment Bond in the amount of \$25,000 in a form acceptable to the Village.

MATERIAL OR EQUIPMENT STORAGE SPACE PROVIDED

The Village of Antioch shall, at locations determined by the Wastewater Treatment Supervisor, provide the contractor with storage space for the contractor's materials and/or equipment. The Village of Antioch accepts no responsibility for the equipment being stored.

BASIS OF PAYMENT

Payment shall be made to the contractor based on invoices after each removal project is completed. Payment will be based on cubic yards for dewatered sludge.

HOURS OF OPERATION

Working hours for the Wastewater Treatment Plant are Monday through Friday, 7:00 AM to 2:30 PM. The contractor shall remove all sludge within a continuous ten-hour period.

SUSPENSION OF WORK

The Village of Antioch reserves the right to suspend and reinstate execution of the whole or any part of the work without invalidating the provisions of the contract. Orders for suspension and reinstatement of work will be issued by the Village of Antioch in writing.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL PERMIT

LOG NUMBERS: 2022-67687

PERMIT NO.: 2023-SC-67687

BUREAU ID: W0970050001

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS

DATE ISSUED: February 3, 2023

PREPARED BY: Village of Antioch

SUBJECT: ANTIOCH – Antioch STW-Sludge Land Application

PERMITTEE TO OPERATE

Village of Antioch
874 Main Street
Antioch, Illinois 60002

Permit is hereby granted to the above designated permittee(s) to operate water pollution control facilities described as follows:

Application of approximately 500 dry tons per year of aerobically digested sewage sludge to agricultural lands at rates not to exceed the agronomic nitrogen demand of the crop grown.

This operating permit expires on January 31, 2028.

This permit renews and replaces Permit Number 2018-SC-62987 which was previously issued for the herein permitted facilities.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

SPECIAL CONDITION 1: For the duration of this permit, the permittee shall determine the quantity of sludge produced by the treatment facility in dry tons or gallons with a percent total solids analysis. The permittee shall maintain adequate records of the quantities of sludge produced and have said records available for Agency inspection. The permittee shall submit to the Agency a semi-annual summary report of the quantities of sludge generated and disposed (in units of dry tons) by different disposal methods including but not limited to application on farmland, application on reclamation land, landfilling, public distribution, dedicated land disposal, sod farms, storage lagoons or any other specified disposal method. Said reports shall be submitted to the Agency by January 31 and July 31 of each year reporting the preceding July through December and January through June sludge disposal operations respectively. The Sludge Management Report Form can be obtained at the following IEPA website, <https://www2.illinois.gov/epa/Documents/epa.state.il.us/water/compliance/waste-water/forms/sludge-management.pdf>. The permittee shall submit the semi-annual sludge management report electronically or in writing to the following addresses:

Illinois Environmental Protection Agency
Bureau of Water

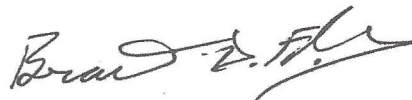
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THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

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DIVISION OF WATER POLLUTION CONTROL

cc: EPA-Des Plaines FOS
Records - Municipal
Compliance Assurance Section



Brant D. Fleming, P.E.
Manager, Municipal Unit, Permit Section

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Compliance Assurance Section
Mail Code #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

EPA.PrmtSpecCondtns@Illinois.gov

SPECIAL CONDITION 2: For the duration of this permit, the permittee shall sample all different sludges being applied to land or publicly distributed on a semi-annual basis and chemically analyze said samples in accordance with the recommended procedures contained in the latest edition of Standard Methods for the Examination of Water and Wastewater for the following parameters:

Nutrients (mg/kg)	Metals (mg/kg)	Other
Total Kjeldahl Nitrogen	Cadmium	pH
Ammonia Nitrogen	Copper	% TS
Phosphorus	Lead	% VS
Potassium	Manganese	
	Nickel	
	Zinc	

Sampling shall consist of a grab sample and be reported as a maximum value.

The results of these analyses shall be submitted to this Agency on a semi-annual basis on Discharge Monitoring Report (DMR) electronic forms. The permittee shall update the sludge application rate utilizing all sludge analyses obtained after the previous sludge application period. Sampling results shall be submitted to the Agency by July 30 and January 31 of each year, reporting the preceding six months of sampling data on a semi-annual basis.

The Permittee is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <https://www2.illinois.gov/epa/topics/water-quality/surface-water/netdmr/pages/quick-answer-guide.aspx>.

Permittees that have been granted a waiver shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Mail Code #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 3:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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PREPARED BY: Village of Antioch

SUBJECT: ANTIOCH – Antioch STW-Sludge Land Application

- A. Sludge shall be applied to sites within the following guidelines:
1. Sludge shall not be applied to sites during precipitation.
 2. Sludge shall not be applied to sites which are saturated or with ponded water.
 3. Sludge may be applied to ice or snow covered sites.
 4. Frozen land, which has a slope of 5% or less, may be used for land application of sludge provided a 200 foot grassy area exists between the sludge applied land and any surface water or potable water supply well.
- B. It is not recommended that sludge be applied to sites:
1. When precipitation is imminent,
 2. Which have received greater than 1/4 inch rainfall within the 24-hour period preceding the intended sludge application time.
- C. Sludge shall not be applied to land which lies within 200 feet from a community water supply well, potable water supply well, surface waters or intermittent streams or within one-fourth of a mile of any potable water supply wells located in consolidated bedrock such as limestone or sinkhole areas unless a 50 foot depth of non-sandy or non-gravelly unconsolidated material exists. In no case shall sludge be applied within 400 feet of a community water supply well deriving water from an unconfined shallow fractured or highly permeable bedrock formation or from an unconsolidated and unconfined sand and gravel formation.
- D. Sludge shall not be applied within 100 feet of an occupied residence.
- E. Sludge shall not be applied to sites during the periods in which the seasonal high water table rises within 3 feet of the surface at the site.
- F. Sludge shall only be applied to land with a background soil pH of 6.5 or greater unless lime or other suitable materials are applied to the site prior to sludge application to raise the soil pH to a minimum of 6.5.
- G. Sludge shall be applied and incorporated into the site soils within the following guidelines:
1. Sludge may be surface applied without incorporation only if the site slope is less than 8% and the annual soil loss does not exceed 5 tons/acre as determined by the Universal Soil Loss Equation.
 2. Sludge shall be incorporated if:
 - a) Site slope exceeds 8% but the annual soil loss is less than 5 tons/acre, or
 - b) Site slope is less than 8% but the annual soil loss exceeds 5 ton/acre.
 3. Sludge shall not be applied to a site with slope greater than 8% with annual soil loss in excess of 5 ton/acre.
 4. Unless surface application is allowed pursuant to this condition, or otherwise specified in this permit, sludge shall be incorporated within 48 hours of application or prior to any rainfall whichever is more restrictive.

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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- H. Sludge amended land shall have a crop grown and harvested pursuant to normal agricultural practices.
- I. The delivery and application of sludge, and the choice of an application site, shall be made so as to minimize the emission of odors to nearby residents taking into account the direction of wind, humidity and day of the week.
- J. Sludge application shall not exceed the following maximum metal loading rates over the lifetime of a site (pounds per acre).
1. Soils with 5-15 meq/100 grams Cation Exchange Capacity (CEC):

Metal	Total Loading	Annual Loading
Cadmium	10	2
Nickel	100	--
Copper	250	--
Zinc	500	--
Manganese	900	--
Lead	1000	--
 2. Soils with 0-5 meq/100 grams CEC shall apply only half the metal loading rates set forth in item J(1) above.
 3. Soils with 15 or greater meq/100 grams CEC may apply double the total metal loading rates set forth in item J(1) above, however a supplemental permit shall be required for that specific site.
- K. Sludge stored off the sewage treatment plant site shall be performed within the following guidelines:
1. Off-site interim storage of liquid sludge shall not be allowed.
 2. Off-site interim storage of dried sludge in excess of 30 days shall not be allowed. In addition, measures shall be taken to contain runoff and leachate from any dried sludge that is stored.
 3. Off-site stockpiling of sludge is prohibited from November 15 to March 1, unless such stockpiling occurs on sites specifically identified in an effective State Operating Permit as suitable for application on ice and/or snow covered ground.
 4. Sludge stockpiled on sites not approved for winter application after November 15 shall be returned to the generating facility or moved to a site approved for application on ice and/or snow covered ground.
- L. Users applying sludge to sites greater than 300 acres under common ownership or control or users of more than 1500 dry tons per year shall obtain a sludge user permit from this Agency unless the site is specifically identified in the permittee's application.
- M. User information sheets, in conformance with the Design Criteria for Sludge Application on Land (Title 35, Subtitle C, Chapter II, Part 391), shall be provided by the permittee to all sludge users and shall be signed by sludge users requesting more than 25 cubic yards. Records regarding sludge users shall be retained by the permittee for the duration of this permit and 2 years after the expiration date of this permit.
- N. No sooner than 90 days and no later than 7 days prior to the application of sludge to land written notice shall be

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SUBJECT: ANTIOCH – Antioch STW-Sludge Land Application

provided to the owner(s) of the land receiving the sludge, the owners of land adjacent to the land receiving the sludge and the Township and County officials whose jurisdiction encompasses the sludge application site.

- O. The permittee shall retain agronomic calculations and supporting sludge analyses for a period of not less than 5 years. Said sludge analysis shall be in compliance with 40 CFR 503.8 and 35 Ill. Adm. Code 391.501. Such records shall be available to any person or party upon request.

SPECIAL CONDITION 4: Sludge applied to ice and/or snow covered ground under this permit shall be applied solely to sites identified as suitable for winter application under an effective, existing state operating permit.