

City of Mt. Pleasant, Michigan

CONTRACT DOCUMENTS

for

MANAGEMENT OF BIOSOLIDS RESIDUALS



SHARON TILMANN
Mayor

NANCY RIDLEY
City Manager

Prepared By:
Division of Public Works

JOHN ZANG
DPW Director

July 2014

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THE CITY OF
MT. PLEASANT, MICHIGAN

CITY HALL

320 W. Broadway St. • 48858-2447
(989) 779-5300
(989) 773-4691 fax

PUBLIC SAFETY

804 E. High • 48858-3595
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(989) 773-4020 fax

PUBLIC WORKS

1303 N. Franklin • 48858-4682
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NOTICE TO BIDDERS

MANAGEMENT OF BIOSOLIDS RESIDUALS

The City of Mt. Pleasant will accept sealed bids for the labor, equipment, materials, and services necessary for the removal, transportation, land application, and agronomic management of biosolids from the Mt. Pleasant Wastewater Treatment Plant. Bids will be received until 1:30 p.m. EST, Tuesday, July 22, 2014 in the office of the City Clerk, 320 West Broadway Street, Mount Pleasant, Michigan 48858. All bids shall be clearly marked "Biosolids Management Services-July 22, 2014."

Proposals are solicited on a per gallon basis, for the following work:

Analytical testing, loading, hauling, land application, and agronomic management of approximately 1,500,000 gallons/year of wastewater plant biosolids.

All bid proposals must be accompanied by a bid bond, bank cashier's check, bank draft, or certified check for not less than five percent (5%) of the bid price, made payable to the City of Mt. Pleasant.

Bid documents, including specifications, may be obtained at the Division of Public Works office, 1303 N. Franklin Street, Mount Pleasant, Michigan 48858, Monday through Friday, 8:00 a.m. to 4:30 p.m. To view and download the complete bid package at no charge, visit the City of Mt. Pleasant website at www.mt-pleasant.org and navigate to the Bids and Quotes page.

The City of Mt. Pleasant reserves the right to accept or reject any or all bids or to waive informalities, and award the bid in any manner deemed to be in the best interest of the City.

Steve Hein
Wastewater Plant Supervisor
(989) 779-5451

Jeremy Howard
City Clerk

City of Mt. Pleasant, Michigan
INSTRUCTIONS TO BIDDERS

1. **Proposals**

Proposals must be made upon the forms provided therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, bound together with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the City Clerk, City Hall, 320 West Broadway Street, Mt. Pleasant, Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, Proposals shall be publicly opened and read aloud.

2. **Basis of Proposals**

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The City of Mt. Pleasant (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the city.

3. **Comparison of Bids**

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors. **The City of Mt. Pleasant grants a preference to businesses located within the Mt. Pleasant City Limits. The preference given is a differential above the low bid if the low bid is not from a City of Mt. Pleasant bidder. The differential allowed is 3% of the total for bids between \$5,000 and \$9,999 and 2% of the total for bids over \$10,000. The maximum credit allowed is \$1500.00.** The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. **Time**

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the completion of the work specified.

5. **Indemnification**

The Contractor shall save and hold harmless the city and its employees from and against all claims, damages, losses, or expenses, including attorney's fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the contractor, subcontractor, employee, or anyone under their direction. The Contractor shall at his/her own expense, defend any and all such actions and shall pay all attorney's fees, costs, and expenses pertaining thereto.

6. **Bid Deposits**

Each Proposal shall be accompanied by a certified check, or a Bid Bond by a recognized Surety Company similar to a U. S. Government Standard Form Bid Bond, in the amount of five percent (5%) of the total amount of the Bid, made payable to the City of Mt. Pleasant, subject to forfeiture to the Owner in the event of failure on the part of the successful Bidder to enter into the attached form of agreement to do the work specified by said Proposal at the price and within the time stated therein. The Bid Deposit of all Bidders, except the three (3) lowest acceptable Bidders, shall be returned within two (2) weeks after opening of bids. The bid deposits of the three (3) lowest acceptable bidders shall be returned within 48 hours after the executed Contract(s) have been finally approved by the Owner.

7. **Liquidated Damages**

A liquidated damage clause, as given in the Contract form, provides that the Contractor shall pay the Owner as liquidated damages, and not as a penalty, the amount as indicated in Section 108.11 of the 2003 MDOT Standard Specifications for Construction for each and every calendar day that the Contractor may be in default of substantial completion of the work required under said Contract.

8. **Insurance and Bonds**

The successful Bidder will be required to execute (2) Bonds, in the form attached hereto, with Surety acceptable to the Owner and insurance, as follows:

- a. Bond in the amount of 100% of the Estimated Contract Price running to the City of Mt. Pleasant, Michigan, to insure the completion of the entire work, according to the statutes of the State of Michigan in effect at that time.
- b. Bond in the amount of 100% of the Estimated Contract Price running to the People of the State of Michigan for the protection of Subcontractors and Labor and Material Men, according to the statutes of the State of Michigan in effect at that time.
- c. Insurance in the amounts required by City Ordinance as specified in the Section 1 - General Construction Specifications, attached hereto.

The successful bidder shall be required to furnish for each set of executed Contract Documents, and conformed copies thereof, an original conformed Performance Bond, Labor and Materials Bond, Maintenance Bond, and Insurance Certificates.

9. **Permits and Local Codes**

The Owner shall procure the required permits for municipal sanitary sewer construction, municipal water system construction, and soil erosion control.

The Contractor shall obtain, at his/her expense, all other required local construction permits and shall comply with local building code and inspection requirements.

10. **Qualifications of Bidders**

It is the intent of the Owner to award the Contract to a Bidder fully capable, both financially and with regard to experience, to perform and complete all work in a satisfactory and timely manner. Evidence of such competency must be furnished on the forms included in the proposal, listing projects of similar difficulty, scope of work, and size, which the Bidder has satisfactorily undertaken and completed.

It is the intention of the City to award the contract to a Contractor whose ability and financial resources are fully equal to the task of performing the work in a satisfactory manner. With this in view, the Proposal calls for at least five (5) references, using specific names of persons to contact concerning the Contractor's ability to do this particular class of work. References from municipalities are preferred. The mere ability to furnish a Performance Bond shall not be accepted as sufficient evidence of responsibility on the part of the Bidder. The Bidder may also be required to furnish evidence of his current financial status.

11. **Interpretation of Documents**

If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof. Any interpretation made in response to such a query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be mailed or duly delivered to each prospective Bidder. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents. Alternative proposals that are suggested by bidders will be given consideration, if presented before the bid opening. If accepted, an addendum will be issued and sent out to all potential bidders, so that they may bid on the alternatives that have been identified.

12. **Execution of Bid Proposal**

A Bid Proposal, which is not signed by the individual making it, should have attached thereto a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the person for whom it is signed.

A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation, should have the correct corporate name thereof and the signature of the President, or other authorized officer(s) of the corporation, manually written below the corporate name and on the line indicating "By:_____." If such a Bid Proposal is manually signed by an officer other than the President of the corporation, a certified copy of a Resolution of the Board of Directors evidencing the authority of such officer(s) to sign the Bid Proposal should be attached thereto. Such a Bid Proposal should also bear the attested signature of the Secretary of the corporation and an impression of the corporate seal.

13. **Execution of Contract**

The successful Bidder to whom an award is made shall be required to enter into a written agreement, in the form attached hereto, within ten (10) days after receipt of a Notice of Award and copies of the documents to be executed. In the event the successful Bidder fails to comply with this provision, he/she may be considered by the Owner to have abandoned all his/her rights and interests in the award and his/her certified check or amount of the Bid Bond may be declared to be forfeited to the Owner, and the Contract may be awarded to another.

14. **Bidder Responsibility For Conditions of Work and Site**

The Bidder, or his/her representative, shall make personal investigation of the site of work and of existing structures and shall determine to his/her own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved in making connections to existing structures and pipes, and any and all other factors affecting the work proposed under the Contract.

The Bidder to whom the Contract is awarded shall not be entitled to any additional compensation by reason of conditions being different from those anticipated or by reason of his/her failure to fully acquaint himself/herself with the conditions at the site affecting the work of the Contract.

15. **Changes in Work**

If any change is required to be made in the work of the Contract, a payment adjustment therefore shall be determined as specified in Section 103 of the 2003 MDOT Standard Specifications for Construction.

Revised: March 2011

City of Mt. Pleasant, Michigan

BID PROPOSAL

MANAGEMENT OF BIOSOLIDS RESIDUALS

TO: Office of the City Clerk
City Hall
320 West Broadway St.
Mt. Pleasant, MI 48858

BID DATE: July 22, 2014
TIME: 1:30 p.m.

The undersigned, as Bidder, hereby declares that this bid is made in good faith without fraud or collusion with any person or persons bidding of the same Contract; that he has carefully read and examined the Contract Documents, including the Notice to Bidders, Instructions, Bond Forms, Technical and Detailed Specifications, and Contract Drawings, for the designated work and understands all of the same; that he, or his representative, has made such a personal investigation at the site as is necessary to determine the character and difficulties attending the execution of the proposed work; and he proposes and agrees that if this Proposal is accepted, he will contract with the Owner in the form of the Contract hereto annexed, to provide necessary machinery, tools, apparatus and other means of construction, including utility and transportation services, necessary to do all the work and furnish all the materials and equipment specified or referred to in the Contract Documents, including Addenda No. __, __, and __, in the manner and time therein prescribed, and according to the requirements of the Owner as therein set forth to furnish Contractor Bonds and Insurance required of the Contractor by the Contract Documents, and that he will take in full payment therefore the unit prices set forth in the following Proposal.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any irregularities in the bidding.

The Bidder agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving the bids.

Upon receipt of a written Notice of Award of the Bid, the Bidder shall execute the formal Contract Agreement attached hereto within ten (10) days and shall deliver to the Owner a Surety Bond or Bonds required. In the event the Contract and Bond are not executed within the time above set forth, the Bid Deposit attached in the sum of five percent (5%) of the Bid Proposal shall become the property of the Owner as liquidated damages for the delay and additional expense to the Owner caused thereby.

The Bidder hereby agrees to commence work under this Contract on or before the date to be specified in the written Notice to Proceed executed by the Owner and to fully complete the project as stipulated in the Special Conditions of these Specifications. The Bidder further agrees to pay as liquidated damages the sum indicated in the Special Conditions for each consecutive calendar day thereafter, until substantial completion, that is when all work items in the proposal are complete and notification of substantial completion of work items and final quantities is given to the Director of Public Works by the contractor.

The undersigned has examined the specifications and requirements contained within the City of Mt. Pleasant (“City”) bid invitation for the analytical testing, loading, hauling, land application, and agronomic management of approximately 1,500,000 gallons/year of wastewater plant biosolids.

Bidders are advised that the City reserves the right to reject any or all bids it deems in its sole discretion that are incomplete or non-responsive. It is the intent of the City to award a single contract to a sole Contractor for all parts of the bid herein.

Bidder must indicate items included and submitted with bid:

- | | | | |
|-----|-----|----|---|
| 1. | Yes | No | Bid security of 5% of total amount of initial 3-year term |
| 2. | Yes | No | Letter of intent for performance bond |
| 3. | Yes | No | Insurance certificate (City must be listed as additionally insured) |
| 4. | Yes | No | Bid security of 5% of total amount of initial 3-year term |
| 5. | Yes | No | Listing of safety equipment for digester cleaning option |
| 6. | Yes | No | Three (3) references for biosolids projects |
| 7. | Yes | No | Company profile and contingency technologies available through Bidder |
| 8. | Yes | No | Agronomic certification and competency |
| 9. | Yes | No | Three (3) references for public communications |
| 10. | Yes | No | Equipment inventory list |
| 11. | Yes | No | Contract administrator data sheet |

PLEASE NOTE: All factors, including pricing, will be considered in determining the award.

** Bids shall be deemed non-responsive if the above 12 submittals are not included with the bid proposal. The City has determined that the above information is critical to its evaluation of all bidders in the performance of this environmentally sensitive work. A non-submittal and/or check of “NO” above indicate that the Bidder has not fully complied with the bid specifications herein.

The unit prices below shall include all labor, materials and equipment, overhead, profit, insurance, etc., to cover the finished work of the several kinds specified, and the Bidder agrees to perform all of the work described in the Specifications and/or shown on the Plans for the following unit prices:

Part I: Cost per gallon for loading, hauling, land application and agronomic management of liquid biosolids fixed for three (3) year term:

_____ and ___/100 Dollars.

(Written)

_____ x Est. 1,500,000 gal./yr. X 3 yrs. = _____ for 3 yrs.

(Figures)

Part II: Cost per sample for analytical testing of liquid biosolids (Table A) fixed for three (3) year term:

_____ and ___/100 Dollars.

(Written)

_____ x Ext 4 samples/year x 3 = _____ for 3 yrs.

(Figures)

Part III: Cost per hour for digester cleaning services when requested by the City including all safety equipment and confined space work fixed for three (3) year term:

_____ and ___/100 Dollars.

(Written)

_____ x Ext 10 hours/year x 3 = _____ for 3 yrs.

(Figures)

➤ Safety Equipment (List Makes and Models):

Safety Harness: _____

Respirator: _____

Total 3-year bid amount: (Part A + Part B + Part C) = \$ _____

_____ and ___/100 Dollars.

(Written)

RESPECTFULLY SUBMITTED,
COMPANY NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

TELEPHONE _____ FAX _____

EMAIL _____

AUTHORIZED SIGNATURE _____

PRINT NAME AND TITLE _____

DATE _____

**City of Mt. Pleasant
Management of Biosolids Residuals**

SUPPLEMENTAL INFORMATION

A. Term of Contract

Loading, Hauling, and Land Application of Liquid Biosolids – The proposal quoted shall be firm for the initial approximate three (3) year term of August 1, 2014 to July 31, 2017. The City may renew the agreement on an annual basis for up to three (3) consecutive one (1) year terms upon Contractor providing to the Owner at least 30 days prior to anniversary date of the contract the proper proof of insurance and performance bond as required by this contract. Renewals shall be subject to annual pricing adjustments based on Detroit area CPI-U Indexing.

B. References

Each Contractor must **submit with the bid the following references:**

1) Minimum of three (3) references for wastewater plant sewage biosolid land application projects of a similar nature that the City may contact regarding the work to be done.

All references shall be for work completed during 2011 or later and be of a similar nature to that contemplated under this bid. References submitted prior to 2011 will not be considered as a valid reference. References shall be used as a means of demonstrating suitable expertise for work performed under this environmentally sensitive contract.

Additionally, the City reserves the right to orally interview any or all bidders to determine to the sole satisfaction of the City the bidder's knowledge, understanding, and technical expertise in implementing and abiding by all Federal United States Environmental Protection Agency 40 CFR Part 503 regulations and all applicable MDA and MDEQ regulations pertaining to the use and disposal of wastewater biosolids in the United States. The City reserves the right to determine which bidders in its sole discretion are qualified to abide by and administer any regulations. The City reserves the right to disqualify any or all bidders based on this condition.

**City of Mt. Pleasant
Management of Biosolids Residuals**

SPECIFICATIONS

GENERAL:

It is the intent of the City of Mt. Pleasant (“City”) to enter into a contract with a reputable, qualified land application Contractor (“Contractor”) to perform the tasks of testing, hauling, land application, and agronomic management of wastewater plant biosolids generated by the City of Mt. Pleasant. The Contractor must be qualified to perform these tasks in strict compliance with all EPA 40 CFR PART 503 AND MDEQ, and Michigan Department of Agriculture regulations and in accordance with applicable MDEQ, MDA or US-EPA approved permits, programs, and regulations. The Contractor must provide satisfactory proof of agronomic competency as indicated by company staffing and expertise. A detailed corporate or company profile document shall be prepared by each Contractor and submitted with the bid for review by the City.

The Contractor must be familiar with all MDEQ, MDA, and US-EPA regulations regarding lime and biosolids handling and management.

It is the desire of the City to require the Contractor to provide enough application sites with various soil types to permit the uninterrupted land application of residuals during periods of dry as well as wet weather. The City believes it is important that numerous farms are used in the program to permit enough diversity to permit continuous land applications if necessary. Additionally, preference shall be given to Contractors who can provide back-up disposal or land application services to the City in the event biosolids quality prevents the current treatment method(s) from using the material in the proposal land application program. Each Contractor shall submit with the bid tender a comprehensive explanation of available technologies or services it can provide to the City in the event biosolids quality cannot meet current or future regulations.

1.0 RESPONSIBILITIES OF THE CITY OF MT. PLEASANT

The City shall be responsible for the following operations:

- A. Provide personnel to oversee operations including review and approval of application sites and operations and addressing questions on this contract.
- B. Operation of the biosolids production unit processes as preparer of the biosolids.
- C. Approval of proposed biosolids application rates for individual fields, prior to removal of biosolids from treatment plant site.
- D. Provide a PSRP stabilized biosolids according to the US Environmental Protection Agency (EPA) and Michigan Department of Environmental Quality (MDEQ and US-EPA) criteria.

- E. Provide ingress and egress at the City project sites.
- F. Provide a source of high-pressure water if digester cleaning, which at Owner's option is desired.
- G. Provide a storage structure for the thickening and storage of wastewater biosolids for land application.

2.0 RESPONSIBILITIES OF THE CONTRACTOR

The Contractor will be responsible for the following operations and all costs thereof: (Details of items mentioned are defined in subsequent technical specifications).

- A. Obtain sites for land application of biosolids and MDEQ or US-EPA approval for these sites.
- B. Perform soil fertility and Cation Exchange Capacity tests on application sites.
- C. Prepare field application sheets for each application site. Complete required monthly waste disposal documents and compliance with all applicable Federal, State, and Local regulations regarding the land application of wastewater plant biosolids.
- D. Transport biosolids in accordance with Federal, State, and Local requirements
- E. Determine application rates in compliance with EPA 40 CFR Part 503 regulations and all MDA and MDEQ regulations for the land application of biosolids.
- F. Application of biosolids on suitable sites at rates in accordance with Federal, State, and Local requirements and in compliance with all of the provisions of the approved PERM or US-EPA plan for the City and any additions or modifications thereto.
- G. Provide the City, farmer or landowner and regulatory agencies with accurate application records after land application of biosolids. Such records are to be submitted to the City within thirty (30) days after biosolids applications.
- H. Prepare and submit to the City the completed biosolids disposal forms as required by the MDNR and US-EPA within the time frame permitted.
- I. Contractor shall be responsible for and abide by all regulations pertaining to the US-EPA "applier" of the biosolids and documentation associated with such and obtain and analyze biosolids samples as specified within these specifications.
- J. Contractor shall provide a portable top loading pipe system and stand for loading tankers. Top loading tankers shall be the only approved

method of filling transport tankers. Additionally, Contractor shall provide all pumping equipment, mixing equipment, and labor to remove thickened wastewater biosolids from the storage tanks. No dilution water shall be added to remove biosolids from the tank unless the City specifically requests the Contractor to clean the bottom of the tank or digester of all biosolids residuals.

3.0 ACQUISITION OF SITES FOR LAND APPLICATIONS

A. General

The Contractor will be responsible for obtaining permission from the farmer or landowner and scheduling of biosolids application to agricultural lands.

B. Agreement to receive City of Mt. Pleasant Wastewater Plant biosolids.

The Contractor, prior to transporting biosolids to sites, shall obtain the landowner's and City's signatures on a "Biosolids Application Agreement." The agreement shall be provided to the City and the landowner.

C. Data on Proposed Land Application Sites

- i. The Contractor shall gather information on each proposed application site, on a field-by-field basis.
- ii. Code number to identify field by Owner, Township, Section and particular field or field portion and any US-EPA required documentation.
- iii. Report on-site review including field location, approximate total size, usable size, isolation requirements, physical feature, and overall appraisal of the site.
- iv. Identification of landowner and field location on township plat map.
- v. Photocopy of aerial photos of proposed site with field outlined, isolation areas, drainage ways, wells and houses clearly identified.
- vi. Soil map showing soil type, natural drainage class, slopes (information can be put on aerial photo if soil map is not available). Soil Conservation Service mapping may be used if available.
- vii. Soil samples for Soil Fertility Analysis and Cation Exchange Capacity, one (1) composite sample per field. One (1) copy of analysis will be provided to each the City and the farmer.
- viii. Previous crop on field prior to biosolids application and proposed crop after biosolids application.

- ix. Expected future crop yield and plow depth. This information is also required for Soil Fertility Analysis.

D. Notification of New Site Approval

After submission of information required for site approval to the City, the City or the Contractor, with City's permission, will submit the required information to the MDEQ and US-EPA and to the City for approval. No biosolids will be transported to a site until the following events occur:

- i. The City receives approval or authorizes approval on a site from the MDEQ or US-EPA.
- ii. The parties listed to be notified have been notified in compliance with City and MDEQ regulations.
- iii. Local approval has been received where required.

E. Application Schedule

The Contractor shall provide the City on a regular basis, with a proposed application schedule defining the biosolids balance scheme.

4.0 LOADING BIOSOLIDS AT THE TREATMENT PLANTS

A. General

- i. The liquid biosolids will be stored in storage tanks at the treatment plant and removed from these tanks by the Contractor.
- ii. The Contractor shall provide vehicles, equipment, and operators to load and transport the biosolids from the biosolids storage tanks, or other facilities of the City as required, to the field sites.
- iii. The Contractor shall make available a minimum number of four (4) tankers with a minimum capacity of twelve thousand (12,000) gallons each, to remove biosolids to fields. The Contractor shall be capable of removing a minimum of 100,000 gallons of wastewater biosolids per day and shall **submit with the bid an equipment list indicating that capability.**
- iv. The Contractor shall safely drive and park his equipment at designated areas at the treatment plant.
- v. The Contractor desiring to modify existing loading facilities must submit the plan to the City for approval.
- vi. The Contractor shall furnish personnel, pumps, and safety equipment to clean storage structures when requested by the City. Compensation for digester cleaning shall be at the hourly rate plus the per gallon rate as indicated in the bid.

- vii. The Contractor shall be responsible for immediate cleanup of any spilled biosolids on the plant site and shall include the loading areas and roadways. Said cleanup shall include sweeping, shoveling, or washing equipment and/or road areas. Wherever possible, sweeping or shoveling shall be used for cleanup with any washing done so as to use as little water as possible. The Contractor shall provide all cleanup equipment.

5.0 TRANSPORTATION

- A. The Contractor shall provide operators and equipment approved for biosolids transport from the wastewater treatment plant to the application site. The Contractor will also comply with all Federal, State, County, and Local regulations affecting the transport of biosolids. The Contractor shall provide equipment to remove biosolids within ten (10) calendar days notice from the City.
- B. The transportation routes shall be designed to minimize travel through densely populated areas. Proposed routes will be reviewed and approved by the City prior to transport.
- C. The Contractor shall comply with load restrictions placed on certain roads, including when "frost restrictions" are in effect. There will be no additional compensation allowed in the unit price for biosolids hauled during "frost restrictions" on roads.
- D. Loading of vehicles will be such that biosolids are not spilled from the vehicles while en route. All vehicles will be cleaned of any biosolids outside the load area prior to leaving the treatment plant and again prior to leaving the application site. The Contractor will be responsible for any spilled biosolids during transportation activities.
- E. If there are complaints about the odor or spillage from transportation equipment, the Contractor shall take the necessary steps to correct the complaints.

6.0 APPLICATION OF BIOSOLIDS TO LAND

- A. The Contractor shall apply biosolids at the specified rate for each field as approved by the City. The biosolids injecting equipment shall be capable of field adjusting application rates.
- B. Prior to biosolids application, the field will be flagged to reflect staging areas, isolation requirements, and areas of unacceptable soiled types. Proper mapping of each field and coordination with field crews may be an acceptable whole or partial substitute for flagging when approved by the MDEQ, the US-EPA, and the City.
- C. The Contractor shall schedule application of biosolids as near as possible to the time the farmer expects to till the soil if soil tilling is a constraint. In any case, the farmer shall be notified at least 24 hours prior to biosolids hauling and/or spreading.

- D. The application of biosolids will be done by self-propelled equipment with flotation type tires and all wheel drive to minimize soil compaction and avoid ruts in the field. Application vehicles shall have a minimum four (4) 66 x 43 x 25.00 flotation type tires. Contractor shall provide subsurface injection equipment to provide 100% coverage of biosolids by soil after injection to eliminate odors. The City may require Contractor to demonstrate equipment prior to award to insure that this requirement is met.
- E. Loading operations, biosolids application and transport will take place during normal working hours of plant personnel, Monday through Friday, unless otherwise approved by the City (no night spreading). If the Contractor wishes to load, transport, or apply at other times, the Contractor will reimburse the City for any overtime or premium time expense.
- F. The Contractor shall inspect the fields before leaving the site that received biosolids to insure that foreign objects such as rocks or metal were not put on the field due to biosolids application. Fences or gates that were removed or damaged to facilitate equipment going onto the fields must be replaced immediately after biosolids injection operations to the landowner's satisfaction.
- G. The amount of material unloaded at the application site will not be more than the amount scheduled to be applied to that site for that crop year. The staging area (the area where the biosolids are unloaded from the transport vehicle and loaded into the spreader) must be a portion of the field suitable for biosolids application and acceptable to the landowner and farmer. Staging areas must meet application guidance criteria and must be completely tilled once application is completed.
- H. The Contractor will maintain and restore the staging area to conditions to the satisfaction of the landowner. Staging area operations will be conducted in such a manner as to minimize damage requiring such restoration.

7.0 EQUIPMENT

- A. The Contractor will keep his equipment in good operating condition at all times. All maintenance will be done at the Contractor's expense. City facilities will not be used for equipment maintenance except as previously agreed upon by the Contractor and the City.
- B. Equipment used to remove biosolids from the biosolids storage tank shall be replaced should breakdown occur. If equipment is not replaced, the City can, at the Contractor's expense, bring in equipment deemed necessary to maintain operations. Such expenses will be itemized and deducted from any amount due the Contractor.
- C. Disabled vehicles will be towed or pulled at the Contractor's expense. No City equipment will be used for this purpose.

8.0 UTILITIES

Cost of utilities and their installation and hook-up will be borne by the Contractor unless previously otherwise agreed to in writing by the City.

9.0 MANAGEMENT

- A. The Contractor shall designate an employee to be the administrator of this contract and shall **submit a detailed data sheet with the bid proposal describing the administrator's experience and education.** The Contractor shall adopt and implement an in-service training program whereby the contract administrator and its key employees will maintain skills current with changing regulations and procedures.
- B. The Contractor shall establish and maintain good public relations with landowners participating in the program, as well as the general public. Disagreements with, or dissatisfaction of the landowner or farmer shall be reported to the City immediately.
- C. The Contractor shall be responsible for maintaining the records on each field where biosolids were applied.
- D. The Contractor shall maintain on staff a full-time, professional agronomist to monitor field applications, rates, MDEQ and US-EPA guidelines, and interpret wastewater biosolids analyses. The Contractor shall **submit with the bid a detailed data sheet of the agronomist.** The agronomist shall perform certain duties as are necessary for public relations and for the preparation and submittal of monthly MDEQ and US-EPA waste disposal sheets. **It is also required that each bidder submit with the bid tender three (3) references that may be contacted by the City to demonstrate the bidder's expertise in conducting public information meetings, and the bidder's experience in explaining applicable regulations and program organization to townships and organizations as required by the City.**

10.0 MEASUREMENT AND PAYMENT

- A. The method of measurement for wastewater biosolids transported shall be based on any of the following at the City's option.
- B. Determination of the volume of liquid biosolids hauled shall be made according to one or both of the following methods:
 - i. Gallons of biosolids removed shall be equal to the number of inches (or fraction thereof) of biosolids removed from the biosolids storage tank times the volume of biosolids per inch contained in the tank; or
 - ii. The volume of biosolids loaded in each tanker load removed times the number of loads for each respective tanker. The Contractor

weighing each tanker unit when empty on a certified scale and weighing each tanker again when loaded with biosolids shall determine the volume of biosolids contained in each tanker. The net weight divided by 8.34 shall be the number of gallons contained in each respective load. This weighing procedure shall be done on each tanker used on the project at least once each hauling period. The City reserves the right to request the random weighing of tanker units at any time it so desires during the biosolids removal process to assure that each tanker is filled to the same level each time it is loaded. In the event a discrepancy exists between the Contractor tanker data and the City tanker data, the City reserves the right to make final determination of which volume measurement shall be used to determine the gallons of biosolids removed.

- C. Payment for volume hauled shall be made within 30 days after submitting an invoice to the City. Any early payment discounts shall be noted on the bid proposal form.
- D. The Contractor agrees to remove and land apply all biosolids which it is requested to remove from the plant site.
- E. The Contractor agrees to make available at the request of the City all raw data and calculations used in the determination of quantities removed.

11.0 TESTING OF BIOSOLIDS

- A. Contractor shall be responsible for the testing of samples of biosolids as indicated through an analytical laboratory specializing in this type of analyses.
- B. Contractor shall submit a unit price per sample for biosolids analyses on the bid form for the determination of total metals and plant nutrients.
- C. It is anticipated that four (4) samples are to be analyzed each year.

12.0 DIGESTER CLEANING

- A. The Contractor shall be responsible for the safety of all Contractor's employees when entering confined spaces such as digesters or storage structures.
- B. The Contractor shall provide safety equipment for employees entering the structures. At a minimum this shall include:
 - i. Safety harness.
 - ii. Gas meter capable of monitoring combustible gases, oxygen, and hydrogen sulfide.
 - iii. Respiration equipment meeting NIOSH/MSHA Certifications for level A protection as described in 29CFR §1910.120 Appendix B,

Part B and meeting OSHA respirator specifications as listed in 29CFR §1910.120 Appendix B, Part A.

- C. Contractor shall list on the bid form the equipment owned meeting the safety specifications and at Owner's request, present the safety equipment for inspection.

ADMINISTRATIVE MEMO NO. 8-78

Issued: October 10, 1978

Revised: June 21, 1989

Subject: **MINIMUM INSURANCE REQUIREMENTS FOR CONTRACTORS**

Summary Statement

The provision of adequate insurance by persons and businesses working for the city or on street right-of-way is essential to protect the public from the costs of injury or damage and to protect the city from unnecessary liability resulting from the acts of persons and businesses working for the city. Minimum insurance requirements are needed to provide this protection.

Memo

Persons or businesses which provide professional services to the city under the terms of a written contract or provide labor and/or material to accomplish work for the city or for others on or over street right-of-way or other city property shall carry insurance and bonds to protect the public and the City from exposure to unnecessary financial risks.

Prior to signing of contracts, issuance of purchase orders or permits, or other authorization to begin work, certificates of insurance evidencing the purchase of insurance in amounts not less than required by the Administrative memo or bid specifications, whichever is greater, shall be filed with City Clerk. Such certificates shall:

- a. Show that the insurance is currently in force and termination date of each policy.
- b. State the limits of liability of the policies covered by the certificate.
- c. Show that the City of Mt. Pleasant is to be specifically named in policy as an "additional insured" and should be issued to the City of Mt. Pleasant as the certificate holder.
- d. Provide that the City will receive not less than 10 days written notice of the cancellation of any listed policy.
- e. Be issued in the name of an insurance company authorized to conduct business in the State of Michigan.

Required bonds shall be filed with the City Clerk prior to the signing of contracts or other authorizations to proceed with work.

Insurance and bonds shall meet or exceed the following requirements. Exceptions to recognize more or less hazardous operations and financial risks should be considered and with approval of the City Manager may be made in specifications or contract requirements prior to awarding contracts or issuing purchase orders.

INSURANCE REQUIREMENTS

Contractor Type O-W	Limit of Liability	Required of: City Contractor	On	R-
Worker's Compensation and Employer's Liability	Statutory Coverage B \$100,000	X		X
Public Liability (including products and completed operations liability)				
Bodily Injury	\$250,000 each person	X		X
	\$500,000 each accident	X		X
Property Damage	\$250,000 each accident	X		X
	\$250,000 each aggregate	X	X	
Automobile Liability (including hired cars and automobile non-ownership)				
Bodily Injury	\$250,000 each person	X		X
	\$500,000 each occurrence	X		X
Property Damage	\$250,000 each accident	X		X
	\$250,000 each aggregate	X	X	
Additional Insured Clause	City of Mt. Pleasant to be specifically named in policy as an "additional insured"	X		X
Excess Liability (Required unless risk occurrence is nominal)	\$1,000,000 each	X		

Persons or businesses engaged to provide labor and material in an amount in excess of \$10,000, or who will receive partial payments as work progresses will provide labor, performance and material bonds equal to the value of the work being performed. Such bonds are not required where the work to be done is of a type in which the failure to perform will not adversely affect the city's ability to function or increase the city's cost of completing the work.