



CITY OF CHARLEVOIX

210 STATE ST. CHARLEVOIX, MICH. 49720

September 14, 2016

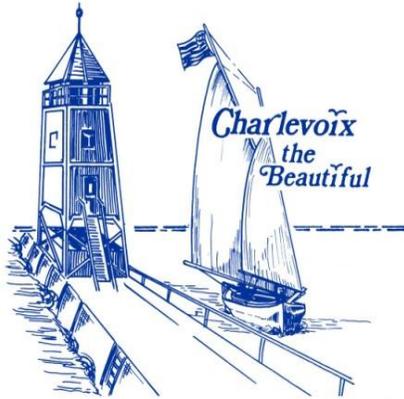
Advertisement for Bids Transportation, Land Application and Agronomic Management of Wastewater Biosolids

The City of Charlevoix will accept sealed proposals for the removal, transportation, and subsurface land-application of stabilized biosolids, or sludge from the Charlevoix Wastewater Treatment Plant located at 15116 Lake Shore Drive, Charlevoix, MI 49720. These proposals will be accepted at the City Clerk's office 210 State Street, Charlevoix, MI 49720, until 11:00am September 28, 2016 EDT. At that time publicly opened and read aloud. Sealed proposals must be clearly labeled "**Removal of Biosolids**". Proposals received after 11:00am September 28, 2016 EDT will not be opened.

Specifications for this work may be obtained on the City's web site www.cityofcharlevoix.org and at the City Manager's Office at 210 State Street Charlevoix, MI 49720. A copy of the City of Charlevoix's "local bidder's preference policy" can also be viewed on the City's web site.

The City of Charlevoix reserves the right to accept or reject any or all proposals, to waive irregularities, and to accept the proposal deemed to be in the best interest of the City of Charlevoix.

Randy Wurst
Operator in Charge, Waste Water Treatment Plant
231-547-3274



CITY OF CHARLEVOIX

210 STATE ST. CHARLEVOIX, MICH. 49720

Bid Specifications For Transportation, Land Application and Agronomic Management of Wastewater Biosolids

The City of Charlevoix will accept sealed proposals for the removal, transportation, and subsurface land-application of Biosolids, or sludge from the Charlevoix Wastewater Treatment Plant located at 15116 Lake Shore Drive, Charlevoix, MI 49720. These proposals will be accepted at the City Clerk's office 210 State Street, Charlevoix, MI 49720, until **11:00am September 28, 2016 EDT**. At that time, the bids will be publicly opened and read aloud. Sealed proposals must be clearly labeled "**Removal of Biosolids**". Proposals received after 11:00am September 28, 2016 EDT will not be opened.

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Request for Bid Proposal

The City of Charlevoix is seeking sealed proposals for the removal, transportation, and sub-surface land-application of biosolids, or sludge.

The BIDDER's responsibilities will provide labor, materials and services as necessary for the removal, transportation and land application of 600,000 – 750,000 gallons of biosolids in November and/or December of 2016, November and/or December of 2017 and November and/or December of 2018 from the Charlevoix Wastewater Treatment Plant located at 15116 Lake Shore Drive, Charlevoix, Michigan.

The contract period may be extended for an additional two (2) years, if mutually agreed upon by the City of Charlevoix and the BIDDER. The City is under no obligation to extend or renew any existing contract.

The BIDDER must protect the public during biosolids removal, transportation and land application. All costs (including transportation, application, handling and all other costs) must be included in the Proposal Form

BIDDER's Responsibilities

1. The BIDDER shall accept from the City of Charlevoix stabilized biosolids that are suitable for beneficial use in a land application program under federal, state and local laws, rules and regulations.
2. The BIDDER will provide farm fields suitable for subsurface land application of City's biosolids.
3. The BIDDER shall provide the necessary labor and equipment to load biosolids into transport vehicles at the Wastewater Treatment Plant (WWTP) and to transport the biosolids to suitable farmland application sites in accordance with federal, state and local laws, rules and regulations. Vehicles used by the BIDDER shall be watertight and shall not leak. If Application is to unplowed land, the BIDDER shall provide all equipment and accessories required to assure as smooth a finished ground surface as possible following application.
4. The BIDDER shall provide to the City of Charlevoix a copy of all load sheets, which details the date, time truck left WWTP, truck number, driver name, gallons of biosolids loaded and site ID where the application occurred. The quantity of biosolids loaded on a vehicle expressed as gallons shall be mutually agreed to by BIDDER and the City and will be used for billing purposes.
5. The BIDDER shall provide labor and equipment to properly apply the biosolids by subsurface injection to suitable application sites at agronomic rates in accordance with applicable federal, state, and local laws, rules, and regulations. BIDDER shall review the permits obtained by the City, and assist in obtaining any additional required federal, state, or local permits, as deemed necessary.
6. The BIDDER shall complete any required federal or state biosolids disposal sheets as required by the City of Charlevoix biosolids management permits that are applicable to the beneficial land application of the biosolids.

7. The BIDDER shall provide any additional biosolids analyses deemed necessary that are not already completed by the City of Charlevoix. These may include but are not limited to total metals, nutrient analyses and fecal coliform as required by MDEQ, USEPA 40 CFR part 503 Regulations and the City of Charlevoix RMP. BIDDER shall be responsible for all routine soil fertility tests associated with land application of City of Charlevoix biosolids. Biosolids analyses shall be performed prior to each seasonal application.

8. The BIDDER shall be paid in accordance with the PROPOSAL FORM.

Insurance

The BIDDER will provide the City of Charlevoix with required proof of Workers Compensation Insurance and Liability Insurance in the following amounts:

Workers Compensation As required by the State of Michigan + Employers liability \$500,000

Public Liability & Property Damage - - Occurrence Form

Bodily Injury: Occurrence	\$1,000,000
Aggregate	2,000,000
Products-completed/operations aggregate	2,000,000
Personal & Advertising Injury	500,000
Fire damage (any one fire)	50,000
Medical payment (any one person)	5,000

Coverage to include (if applicable):

- Contractual liability
- Broad form property damage
- Explosion, collapse and underground damages - XCU
(When applicable - demolition excavation, use of explosive)
- Owners & contractors
Protective liability & property damage (construction projects)

Motor Vehicle (including owner, hired & non-owned vehicles)

Bodily injury: Occurrence	1,000,000
Bodily injury: Accident	1,000,000
Property damage: Occurrence	250,000
Or combined single limit	1,000,000

Umbrella Liability

Per Occurrence:	1,000,000
Aggregate:	2,000,000

Pollution Liability Insurance

The Bidder shall provide a minimum combined single limit of 2,000,000, including the broad form property damage endorsement.

The City of Charlevoix must be a named insured on the policy.

Proof of insurance must be furnished the City before work begins. Underground construction coverage is required only when applicable. Thirty (30) days written notice from the carrier is required prior to cancellation.

The City's Responsibilities

1. The City shall provide access to facilitate removal of biosolids from the Facility.
2. The City will provide all information integral to the generation and composition of biosolids that are to be land applied. The City agrees and hereby certifies that none of the materials to be provided under this agreement shall constitute hazardous waste under federal, state, or local law. The City will provide high quality, nonhazardous stabilized biosolids to the BIDDER that are acceptable for land application. The BIDDER will provide farm lands suitable for subsurface land application of the City's biosolids.
3. The City will to provide copies of all applicable permits and approvals acquired from regulatory agencies that are relevant to the proposed work. NPDES Permit Number MI0057737 issued by the DEQ.
4. Attached are site maps where the biosolids are currently being applied. This property is approximately five (5) miles from the WWTP.

Charlevoix WWTP biosolids system consists of 2 anaerobic digesters: the primary digester contains 177,000 gallons, is heated to 98 degrees Fahrenheit and uses a digester gas mixing system. The secondary digester contains 155,000 gallons of liquid biosolids at an average consistency of 4 to 6 percent. It is neither heated nor mixed, being used for storage. Biosolids are transferred from the secondary digester to the 600,000 gallon storage tank automatically. Supernatant is returned to the primary clarifier. Biosolids were last removed from the secondary digester in October 2015.

The intent of work under this proposal is to empty the 600,000 gallons from the biosolids storage tank. The City may transfer an additional 150,000 from the secondary digester to the storage tank for removal. Bid price should include a land application rate for biosolids hauled and biosolids analyses.

Digester or Tank Cleaning

At the request of the City, the BIDDER shall provide all necessary equipment and labor for confined space digester or tank cleaning services to remove accumulated biosolids for subsequent land application. Under these conditions, the City shall provide all required cleaning water at no cost to the BIDDER. The material removed on this confined space option shall be billed at the appropriate rate per gallon for land application.

Submittal

Proposals should be submitted in a sealed envelope with "Removal of Biosolids" written on the outside, and will be accepted at the Charlevoix City Clerk's office until **11:00am September 28, 2016 EDT**. At that time, the bids will be publicly opened and read aloud. Proposals received after 11:00am September 28, 2016 EDT will not be opened.

Proposal

1. Land Application. This proposal is for a three (3) year contractual period, being 2016, 2017 and 2018. The contract period may be extended for an additional two (2) years, if mutually agreed upon by the City of Charlevoix and the BIDDER. Biosolids removal is planned as a late fall application (November or December). The November application should be completed by November 14, if possible. There is some flexibility in this schedule. Approximately 600,000 to 750,000 gallons are to be removed per year. BIDDER will be required to inform WWTP Plant operating personnel in advance of scheduled hauling times. Preference will be given to a weekday schedule, rather than weekends because of traffic congestion.
2. Prices should include a land application rate for biosolids hauled, biosolids analyses, as requested on the Proposal Form.

QUESTIONS

Please contact Charlevoix WWTP for any questions or details: Randy Wurst, Operator in Charge, Wastewater Treatment Plant, 210 State Street, Charlevoix, MI 49720 Phone: 231-547-3274

PROPOSAL FORM

Company – Bidder Information	
Land Application Unit Rate at BASE Fuel Cost	
	_____ / Gallon 2016
	_____ / Gallon 2017
	_____ / Gallon 2018
Biosolids Analyses	_____ / Sample
Digester or Tank Cleaning	_____ / per hour (Confined space)

I am agreeable to entering into a contract with the City of Charlevoix for this work. I understand the City may reject any or all bids and award the work to the bidder deemed to serve its best interest.

By: _____

Title: _____

Company: _____

Address: _____

Telephone: _____

Date: _____

Michigan Department of Environmental Quality- Surface Water Quality Division
DEQ SITE IDENTIFICATION FORM

Complete the following information and provide the attachments listed below for each new site or existing site that has not had a Site Identification Form with attachments submitted to the DEQ since January 1, 1998. Please amend any previous Site Identification Forms when it becomes known that any of the information requested below has changed (i.e. new land owner).

SITE IDENTIFICATION FORM													
FACILITY NAME Charlevoix WWTP			NPDES or COC PERMIT NUMBER M10057737										
A. Site ID	Site ID #	Street or Route #											
	33N08W11-DM01	Access through 2 track S side Veenstra Rd.											
B. County/Township:	County		Township										
	Charlevoix		Marion										
C. State Planar Coordinates:	SW 1/4	SE 1/4	Section 11	Town 33 N	Range 8 W								
	Latitude N 45°16'27"		Longitude W 85°15'38"		Method Used (i.e. GPS, topo) GPS								
E. Site Ownership	Name of Owner			Phone									
	Dave Martinchek			231-675-0887									
	Street or P.O. Box												
	4930 Marion Ctr. Rd.												
	City or Town			State	Zip								
	Charlevoix			MI.	49720								
Is there a written agreement from the owner to land apply?			Previous landowners name										
<input checked="" type="checkbox"/> Yes			Family										
<input type="checkbox"/> No, written agreement is required			Property purchase date										
F. Site Characteristics	Name of Lessee (if different)			Phone									
	Same												
	Street or P.O. Box												
	City or Town			State	Zip								
Site Type <input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> * Reclamation Site <input type="checkbox"/> Forest <input type="checkbox"/> ** Lawn/Home Garden <small>*Separate approval is required **Requires EQ Biosolids</small>			Soils Information Date of last soils analysis <u>8/6/2012</u> *Phosphorous <u>11</u> units ppm Potassium <u>65</u> units ppm pH <u>7.6</u> Soil type(s) <small>*300 lb/ac Bray P1 maximum</small> Soil Attached										
Expected crops/vegetation to be grown <table border="0"> <tr> <td>Crop/Vegetation</td> <td>Nitrogen Requirement</td> </tr> <tr> <td><u>Corn</u></td> <td><u>165</u> lbs. N/acre</td> </tr> <tr> <td>_____</td> <td>_____ lbs. N/acre</td> </tr> <tr> <td>_____</td> <td>_____ lbs. N/acre</td> </tr> </table>			Crop/Vegetation	Nitrogen Requirement	<u>Corn</u>	<u>165</u> lbs. N/acre	_____	_____ lbs. N/acre	_____	_____ lbs. N/acre	Percent slope Highest percent slope of the site? <input checked="" type="checkbox"/> 0-6% <input type="checkbox"/> 6-12% <input type="checkbox"/> *Higher (Requires an approved site reclamation plan)		
Crop/Vegetation	Nitrogen Requirement												
<u>Corn</u>	<u>165</u> lbs. N/acre												
_____	_____ lbs. N/acre												
_____	_____ lbs. N/acre												
Total acreage of site <u>40</u> Acreage used for crops <u>20</u>			If agricultural, is the site tilled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA										
Public Exposure Is this land with a high potential for public exposure? (See Definitions section on Page 19) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No													
On an attached sheet provide a copy of the following: <ul style="list-style-type: none"> A Farm Services Agency map (formerly ASCS) of the proposed application site with property boundaries, surface waters, and discharge location of field tiles when present. A copy of the soil test analysis that is no older than 2 years old at the time of land application. A copy of the plat map (or other map showing property dimensions) with the proposed land application site highlighted. A soil survey map with the land application site identified. 													

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SITE IDENTIFICATION FORM					
FACILITY NAME Charlevoix WWTP			NPDES or COC PERMIT NUMBER MIG 570207		
A. Site ID	Site ID # 33N08W10-DM03		Street or Route # SE corner Veenstra & Marion Ctr		
	County Charlevoix		Township Marion		
B. County/Township:					
C. State Planar Coordinates:	NW 1/4	NE 1/4	Section 10	Town 33 N	Range 8 W
	Latitude N 45°16'33"		Longitude W 85°16'4"		Method Used (i.e. GPS, topo) GPS
D. Lat/Long (nearest second):					
	Name of Owner Dave Martinchek			Phone 231-675-0887	
	Street or P.O. Box 4930 Marion Ctr. Rd.				
	City or Town Charlevoix			State Mi.	Zip 49720
	Is there a written agreement from the owner to land apply? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, written agreement is required			Previous landowners name Family Property purchase date	
E. Site Ownership	Name of Lessee (if different) Same			Phone	
	Street or P.O. Box				
	City or Town			State	Zip
F. Site Characteristics	Site Type		Soils Information		
	<input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> *Reclamation Site		Date of last soils analysis 11/21/2007		
	<input type="checkbox"/> Forest <input type="checkbox"/> **Lawn/Home Garden		*Phosphorous 31 units ppm		
	*Separate approval is required **Requires EQ Biosolids		Potassium 97 units ppm		
	Expected crops/vegetation to be grown			pH 7.5 Soil type(s)	
	Crop/Vegetation	Nitrogen Requirement		*300 lb/ac Bray P1 maximum	
	Corn	190 lbs. N/acre		See Attached	
		lbs. N/acre			
		lbs. N/acre			
	Total acreage of site 159			Percent slope	
Acreage used for crops 159			Highest percent slope of the site?		
Public Exposure			<input checked="" type="checkbox"/> 0-6%		
Is this land with a high potential for public exposure? (See Definitions section on Page 19)			<input type="checkbox"/> 6-12%		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> *Higher (Requires an approved site reclamation plan)		
			If agricultural, is the site tilled?		
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
On an attached sheet provide a copy of the following:					
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FACILITY NAME Charlevoix WWTP			NPDES or COC PERMIT NUMBER MIG 570207																																																									
A Site ID	Site ID # 33N08W10-DM01	Street or Route # E. side Marion Rd. S. of Gregory																																																										
B County/Township:	County Charlevoix		Township Marion																																																									
C State Planar Coordinates:	NE 1/4	NE 1/4	Section 10	Town 33 N	Range 8 W																																																							
D Lat/Long (nearest second):	Latitude N 45.16.073"	Longitude W 085.16.282"	Method Used (i.e. GPS, topo) GPS																																																									
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- A Farm Services Agency map (formerly ASCS) of the proposed application site with property boundaries, surface waters, and discharge location of field tiles when present.
- A copy of the soil test analysis that is no older than 2 years old at the time of land application.
- A copy of the plat map (or other map showing property dimensions) with the proposed land application site highlighted.
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Michigan Department of Environmental Quality- Surface Water Quality Division
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A. Site ID	Site ID # 33N08W15-FS01	Street or Route # N. side E. Ferry Rd. 1/4mi E of Black rd											
B. County/Township:	County Charlevoix		Township Marion										
C. State Planar Coordinates:	NE 1/4	NE 1/4	Section 15	Town 33 N	Range 8 W								
D. Lat/Long (nearest second):	Latitude N 45°15'38"		Longitude W 85°16'2"		Method Used (i.e. GPS, topo) GPS								
E. Site Ownership	Name of Owner Francis Seidel			Phone 231-547-2181									
	Street or P.O. Box 4136 Marion Center Rd.												
	City or Town Charlevoix			State Mi.	Zip 49720								
	Is there a written agreement from the owner to land apply? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, written agreement is required			Previous landowners name Ann Raymon Property purchase date 1954									
F. Site Characteristics	Name of Lessee (if different) Dave Martinchek			Phone 231-675-0887									
	Street or P.O. Box 4930 Marion Ctr. Rd.												
	City or Town Charlevoix			State Mi.	Zip 49720								
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**Michigan Department of Environmental Quality- Surface Water Quality Division
DEQ SITE IDENTIFICATION FORM**

Complete the following information and provide the attachments listed below for each new site or existing site that has not had a Site Identification Form with attachments submitted to the DEQ since January 1, 1998. Please amend any previous Site Identification Forms when it becomes known that any of the information requested below has changed (i.e. new land owner).

SITE IDENTIFICATION FORM					
FACILITY NAME Charlecoix Waste Water Treatment Plant			NPDES or COC PERMIT NUMBER 10022824		
A. Site ID	Site ID # 33N08W10-FS01	Street or Route # Marion Center Rd.			
B. County/Township:	County Charlecoix	Township Marion			
C. State Planar Coordinates:	1/4	SE 1/4	Section 10	Town 33N	Range 08W
D. Lat/Long (nearest second):	Latitude 45*16.12' North	Longitude 85*15.56' West		Method Used (i.e. GPS, topo) Topo	
E. Site Ownership	Name of Owner Francis Seidel			Phone	
	Street or P.O. Box				
	City or Town			State	Zip
	Is there a written agreement from the owner to land apply? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, written agreement is required			Previous landowners name	
				Property purchase date	
F. Site Characteristics	Name of Lessee (if different) Joe Martinchek			Phone 231-547-4210	
	Street or P.O. Box 4223 Black Rd.				
	City or Town Charlecoix			State MI	Zip 49720
	Site Type <input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> *Reclamation Site <input type="checkbox"/> Forest <input type="checkbox"/> **Lawn/Home Garden <small>*Separate approval is required **Requires EQ Biosolids</small>			Soils Information Date of last soils analysis 5/14/2007 *Phosphorous 29 units ppm Potassium 83 units ppm pH 5.6 Soil type(s) see attached <small>*300 lb/ac Bray P1 maximum</small>	
	Expected crops/vegetation to be grown Crop/Vegetation Nitrogen Requirement corn 190 lbs. N/acre _____ _____ lbs. N/acre _____ _____ lbs. N/acre			Percent slope Highest percent slope of the site? <input checked="" type="checkbox"/> 0-6% <input type="checkbox"/> 6-12% <input type="checkbox"/> *Higher (Requires an approved site reclamation plan)	
Total acreage of site 159 Acreage used for crops 40			If agricultural, is the site tilled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Public Exposure Is this land with a high potential for public exposure? (See Definitions section on Page 19) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

On an attached sheet provide a copy of the following:

- A Farm Services Agency map (formerly ASCS) of the proposed application site with property boundaries, surface waters, and discharge location of field tiles when present.
- A copy of the soil test analysis that is no older than 2 years old at the time of land application.
- A copy of the plat map (or other map showing property dimensions) with the proposed land application site highlighted.
- A soil survey map with the land application site identified.

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SITE IDENTIFICATION FORM						
FACILITY NAME Charlevoix WWTP			NPDES or COC PERMIT NUMBER MI0057737			
A. Site ID	Site ID # 33N08W10-FS03	Street or Route # Acces 2 track entry on East side Marion Ctr.				
B. County/Township:	County Charlevoix		Township Marion			
C. State Planar Coordinates:	SE 1/4	SE 1/4	Section 10	Town 33 N	Range 8 W	
D. Lat/Long (nearest second):	Latitude N 45*15'58.06		Longitude W 85*15'51.46		Method Used (i.e. GPS, topo) Google	
E. Site Ownership	Name of Owner Francis Seidel			Phone 231-547-2181		
	Street or P.O. Box 4136 Marion Center Rd.					
	City or Town Charlevoix			State Mi.	Zip 49720	
	Is there a written agreement from the owner to land apply? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, written agreement is required			Previous landowners name Family Property purchase date		
F. Site Characteristics	Name of Lessee (if different) Dave Martinchek			Phone 231-675-0887		
	Street or P.O. Box 4930 Marion Ctr. Rd.					
	City or Town Charlevoix			State Mi.	Zip 49720	
	Site Type <input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> * Reclamation Site <input type="checkbox"/> Forest <input type="checkbox"/> ** Lawn/Home Garden <small>*Separate approval is required **Requires EQ Biosolids</small>			Soils Information Date of last soils analysis <u>11/30/2012</u> *Phosphorous <u>24</u> units <u>ppm</u> Potassium <u>78</u> units <u>ppm</u> pH <u>7.4</u> Soil type(s) <small>*300 lb/ac Bray P1 maximum</small> See Attached		
Expected crops/vegetation to be grown Crop/Vegetation Nitrogen Requirement <u>Corn</u> <u>150</u> lbs. N/acre _____ _____ lbs. N/acre _____ _____ lbs. N/acre			Percent slope Highest percent slope of the site? <input checked="" type="checkbox"/> 0-6% <input type="checkbox"/> 6-12% <input type="checkbox"/> *Higher (Requires an approved site reclamation plan)			
Total acreage of site <u>59</u> Acreage used for crops <u>25</u>			If agricultural, is the site tilled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA			
Public Exposure Is this land with a high potential for public exposure? (See Definitions section on Page 19) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
On an attached sheet provide a copy of the following:						
<ul style="list-style-type: none"> • A Farm Services Agency map (formerly ASCS) of the proposed application site with property boundaries, surface waters, and discharge location of field tiles when present. • A copy of the soil test analysis that is no older than 2 years old at the time of land application. • A copy of the plat map (or other map showing property dimensions) with the proposed land application site highlighted. • A soil survey map with the land application site identified. 						

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SITE IDENTIFICATION FORM						
FACILITY NAME Charlevoix Water Treatment Plant			NPDES or COC PERMIT NUMBER			
A. Site ID	Site ID # 33N08W10-RB01	Street or Route # Marion Center Road				
B. County/Township:	County Charlevoix	Township Marion				
C. State Planar Coordinates:	N 1/2 1/4	SW 1/4	Section 10	Town 33N	Range 08W	
D. Lat/Long (nearest second):	Latitude 45N16'13''	Longitude 85W16'35''		Method Used (i.e. GPS, topo) topo		
E. Site Ownership	Name of Owner Robert Best			Phone 231-547-9087		
	Street or P.O. Box 04485 Marion Center Road					
	City or Town Charlevoix		State MI	Zip 49720		
	Is there a written agreement from the owner to land apply? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, written agreement is required			Previous landowners name		
				Property purchase date		
	Name of Lessee (if different) Joe Martinchek			Phone 231-547-4210		
	Street or P.O. Box 4223 Black Road					
	City or Town Charlevoix		State MI	Zip 49720		
F. Site Characteristics	Site Type <input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> * Reclamation Site <input type="checkbox"/> Forest <input type="checkbox"/> ** Lawn/Home Garden <small>*Separate approval is required **Requires EQ Biosolids</small>			Soils Information Date of last soils analysis 4/21/2004 *Phosphorous 35 units ppm Potassium 81 units ppm pH 5.9 Soil type(s) Emmet sandy loam <small>*300 lb/ac Bray P1 maximum</small>		
	Expected crops/vegetation to be grown Crop/Vegetation Nitrogen Requirement corn 200 lbs. N/acre ___ lbs. N/acre ___ lbs. N/acre			Percent slope Highest percent slope of the site? <input type="checkbox"/> 0-6% <input checked="" type="checkbox"/> 6-12% <input type="checkbox"/> *Higher (Requires an approved site reclamation plan)		
	Total acreage of site 80 Acreage used for crops 23			If agricultural, is the site tiled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
	Public Exposure Is this land with a high potential for public exposure? (See Definitions section on Page 19) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

On an attached sheet provide a copy of the following:

- A Farm Services Agency map (formerly ASCS) of the proposed application site with property boundaries, surface waters, and discharge location of field tiles when present.
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