Re-Planting Detroit - Farming and Fertilizer

DEQ Update-
Year in review/
Problems in the
field /Miwaters

Mike Person
Greg Merricle
GLWA /NEFCO

- Began meeting with NEFCO – on land application plan – late 2014/2015
- Approved RMP March 12, 2015
- Initiated land application September 2015
GLWA / NEFCO Summary

- FY 15 - -- DTs Land applied (July – Sept)
- FY 16 –
  - 23,385 DTs Land applied (Oct – Jun)
  - Approx 115 sites
  - 6 - 7000 Acres treated
- FY 16 total - projected to be over 30,000 dt pellets land applied in Michigan
GLWA Residuals Handling
2012 - 16
BS program - First year focused on just 2 External user components

- Annual Reports
- Submission of New / updated site packets

- Eventually will have all sites will be mapped and boundaries delineated.
- All sites / boundaries will be visible to the public
Michigan Biosolids Program – Miwaters

2015 - Biosolids AR form

- First SOC report
- Few issues, overall fairly smooth

2016 AR

- No big changes, few tweaks to make it easier to understand.
- Due October 30, SOC will become available to complete August 30
Problems in the field
Public Relations
The Truth about Biosolids

1. Sewer-sludge is a complex mix of human and industrial waste. Sludge generated in large urban centers contain thousands of chemicals, many of which are toxic, persistent, and can be absorbed by plants.

2. Sewage treatment plants were designed to clean water - not make fertilizer. The removed pollutants are concentrated in the resulting sludges. Spreading sludge on land is not recycling; instead it transfers these man-made chemicals and pollutants from urban industrialized centers to relatively pristine rural soils.

3. Major food processing companies, such as Heinz, Campbells, DelMonte, and Whole Foods, do not accept produce that is grown on land treated with biosolids. They consider it potentially toxic.

4. The process is self-regulated by the sludge industry, with little to no monitoring by the government. No one claims that this process is without risk, and it is unsuspecting rural people who are expected to take the risk, while private companies profit by their suffering.

5. Many countries in Europe severely limit, or outright ban the use of biosolids on agricultural land - they have found the practice too risky to human health.

6. Many environmental groups such as The Suzuki Foundation, The Sierra Club, oppose the land application of biosolids because current policies do not protect human health, agricultural productivity, or the environment.
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7/8/2016
NMS

VERY data intensive

Mistakes nearly impossible

Data was available to Staff in the blink of an eye
Data Entry Nightmare
Data Entry Nightmare
Data Entry Nightmare
MiWaters Predictions

As data intensive as NMS

Prescribed order to data entry

There will be bugs!

One day in the field generates 0 days in the office
MiWaters Predictions

Mistakes still nearly impossible

Data will be available to everyone in the blink of an eye
Data Entry Dream
Data Entry Dream
Data Entry Dream
MiWaters - What We Were Promised
MiWaters - What We Got

EVERYBODY NEEDS A YUGO SOMETIME

*$3990 MFG. SUGG. PRICE FOR YUGO G.V. TRANS. $320, DEALER PREP $90, TOTAL $4,400 EXCL. TAX AND TITLE.
MiWaters – It’s Getting Better
Data Entry Present Reality
Click “Start New Form”
1) Search “bio”,
2) Find “Internal Biosolids Site ID”,
3) Click “Begin Submission”
Click “Begin Form Entry”
Click “Next Step”
Internal Biosolids Site ID

Site ID Info and Uploads

Designated Site (Waste Name: Sc. 0110063.JS001)

Biosolids Field Location

Coordinates

Enter WAD 83 Latitude/Longitude Coordinates on the Tools To Help Identify Coordinates options below. Latitude/Longitude coordinates must be entered in decimal degrees, using a negative value for the longitude (e.g. -82.032346, -73.638901).

Tools To Help Identify Coordinates

Click Find Site and authorize between to try to identify your location with location on map below.

Address

Enter an address and click Find to identify location with location on map below.

Map

Drag marker on map to identify location

Search Application Access (Members Only)

Editor's Name

Owner's Name

Biosolids Site Packet

Multiple files can be uploaded here. Please be aware that files exceeding 10 MB in size are not recommended.

Comment

6. Save for Later
Designated Site (Field) Name: Ex: 07n03e25-JM01
07n1 0e13-W501

Biosolids Field Location

Coordinates

Enter NAD 83 Latitude/Longitude Coordinates or use the Tools To Help Identify Coordinates options below. Latitude/Longitude coordinates must be entered in decimal degrees, using a negative sign for South latitude and West longitude.

43.0027493519556; -33.32470103823697

Tools To Help Identify Coordinates

Click Find Me and authorize browser to try to identify your location (verify location on map below)

Address

Enter an address and click Find to identify location (verify location on map below)

Map

Drag marker on map to identify location

Land Application Acreage (Numeric Only)
Click Find Me and authorize browser to try to identify your location (verify location on map below)

Address
Enter an address and click Find to identify location (verify location on map below)

Map
Drag marker on map to identify location

Land Application Acreage (Numeric Only)
44

Farmer's Name
Howard Stack

Owner's Name
Howard Stack

Biosolids Site Packet
Multiple files can be uploaded here
- Mi-LA-LAI S-W501 Site ID.pdf

Please be aware that files exceeding 10 MB in size are not recommended

Comment:
Review and click “Next Step”
Click “Submit Form”
Click on “Convert to Polygon”
1) Drag the polygon to the shape of the site,
2) Click “Save”
The Airing of Grievances

“I got a lot of problems with you people and now you’re gonna hear about it!”
Site ID # Format

► There is only one format!

- Town, Range, Section – 2 initials of owner, 2 digit # (preferably sequential)

  ► ie. 03s02w35-JH01

  ► This is James Howe’s first field in Section 35 of Spring Arbor Township
Common Site ID Problems

► Ownership is Strange

- City of Litchfield: CL
- Mike and Jan Bauer: MB or JB
- Mike Bauer and Jim Timms: MB or JT
- Jan Bauer Trust: JT or BT
- MDOC: SM, MI or DC
- MDOT: SM, MI or DT
Common Site ID Problems

► French Claims in Monroe County
Common Site ID Problems

► French Claims in Monroe County
  - They suck!
  - NMS had a work around for them that didn’t really work that well
  - MiWaters has no such work around!
  - Your only option is to get your ruler out and figure out what the Section # is!
Common Site ID Problems

► Some Plat Maps don’t make a lot of sense at first glance

▪ They can suck too!

▪ Watch out for:

► Multiple Towns or Ranges on one Plat Map

► Odd borders

► Odd shaped Sections
Common Site ID Problems

► Carelessness
- Mistakes happen, but the frustration is amplified when data entry is required
- Watch out for:
  ► Owner/Farmer correct?
  ► Township correct?
  ► Section correct?
  ► Arial map correct?
  ► Soil map correct?
  ► Acreage correct?
  ► Is the Site Packet complete?
Common Site ID Problems

► Site ID Packet in multiple pdfs
  ▪ Adobe doesn’t play well with other large entities
    ▶ Most State Employees only have Reader
  ▪ If it’s necessary, attachment name is important!

► Site ID Packet without instructions
  ▪ I’m going to assume it’s a new site.
  ▪ I’m going to be frustrated if I find out it’s a transfer, repermit, split, or something other than a new site.
How Can I Make It Easier?

► Get your poop in a group
► Be careful
► Send a single pdf if possible
► Name the attached pdf(s) precisely
  - Mason WWTP 03s02w35-JH01.pdf
  - DWSD WWTP 03s02w35-JH01.pdf
  - DWSD WWTP 03s02w35-JH01-05.pdf
  - DWSD WWTP 03s02w35-JH.pdf
  - DWSD WWTP 03s02w35-JH part 1.pdf
How Can I Make It Easier?

- Name the attached pdf(s) precisely (cont.)
  - Transfer DWSD WWTP 03s02w35-JH01.pdf
  - Repermit DWSD WWTP 03s02w35-JH01.pdf
  - Split DWSD WWTP 03s02w35-JH01-05.pdf
LP’s property
ES’s property
Why Should You Care?
MiWaters - What We Were Promised
Data Entry Dream to Reality
Data Entry Dream to Reality
Data Entry Dream to Reality
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