

AGENDA

Unless specifically noticed otherwise, this meeting and all other meetings of this body are open to the public. Proper notice has been posted and given to the media in accordance with Wisconsin Statutes so that citizens may be aware of the time, place and purpose of the meeting.

MEETING NOTICE

BOARD OF PUBLIC WORKS

Monday, August 5th, 2019

4:30 p.m.

Council Chamber, New London Municipal Building

1. Call meeting to order, Adopt Agenda
2. Director's Memo
3. Wastewater Treatment Plant Updates
4. Discussion possible action on Change Orders for the Waste Water Treatment Plant Digester upgrade project
5. Report on July 20th storm damage and clean-up process
6. Other Matters & Updates
7. Next Month Agenda Items
8. Adjournment

**Mike Barrington, Chairman
Board of Public Works**

Agenda items are listed so as to accurately describe the actions or issue being considered instead of simply the document listing title or the parties to a contract. This is done as such titles or a list of parties to a contract conveys insufficient information to the public on whether a topic or project they are interested in is being considered. It is the policy of the City of New London to comply in good faith with all applicable regulations, guidelines, etc. put forth in the American with Disabilities Act (ADA). To that end, it is the City's intent to provide equal opportunity for everyone to participate in all programs and/or services offered, to attend every public meeting scheduled, and to utilize all public facilities available. Any person(s) in need of an alternative format (i.e. larger print, audio tapes, Braille, readers, interpreters, amplifiers, transcript) regarding information disseminated by the City of New London should notify the City 48 hours prior to a meeting, etc., or allow 48 hours after a request for a copy of brochures, notices, etc. for delivery of that alternative format. Contact ADA Co-Coordinator Paul Hanlon or Chad Hoerth by telephone through: (Relay Wisconsin) – or 920/982-8500 and in person/letter at 215 N. Shawano Street, New London, WI 54961.

Memorandum

To: Board of Public Works
From: Chad Hoerth, Director of Public Services
Date: 7-30-19
Re: August 5th, 2019 Board of Public Works Meeting

- Wastewater Treatment Plant Update – Ben’s report is included in your packet
- Discussion possible action on Change Orders for the Waste Water Treatment Plant Digester upgrade project- The WWTP Digester project has overall been going pretty well, the contractors appear to be on track at this point with the project. There have been however a few more change orders than we originally anticipated for the project. You may recall that we had a contingency budget of 5% of the overall cost of the project equaling \$218,915.00. Before the project took place I requested that the council grant me authorization to approve change orders up to a total of \$50,000. Unexpectedly we’ve gotten close to that number already and have approved \$42,187.00 in changes. Ben is providing a detailed description of each of those change orders in his report and the reason why we felt each one was important enough to justify and proceed with. We also have one change order to consider that didn’t require immediate approval, and since its \$15,000 we needed to bring it to the Board for consideration. This proposal is to change the stairway to the roof of the Digester complex, Ben has a write up in his report of the reasoning behind the change. If the Board agrees with the stairway change:

Potential/recommended motion: I make a motion that council considers approving the proposed change order for a new stairway to be built to the digester roof.

- Report on July 20th storm damage and clean-up process: Obviously our focus in the past few weeks was clean up from damage created by the July 20th storm. Crews reported to work on Saturday July 20th to open up the streets from fallen trees. On the following Monday, we began brush/debris clean up. We hired DTAK to assist with clean-up, which without them the process would have taken months to complete. We also needed to hire Mid State Tree Service and New London Tree Service to assist with taking down some dangerous trees/branches that we could not do without some type of bucket truck (NL Utilities was extremely busy with their own work). Unfortunately on Tuesday July 23rd one of our box trucks was involved in a significant accident which disabled the vehicle and injured the employee (who is still off of work at this time). In a little over a week we did complete one full round of curb side pick up in the city. After that we started having DTAK pick up the drop off piles. We’ll continue with our staff for a few weeks picking up the remaining brush that is being pulled out to the curb. I foresee our staff doing this for one or two weeks yet, then we’ll have to focus back on other projects. Judy is working with Waupaca County for potential disaster relief reimbursement. There is also a

DNR grant I'm looking at submitting to assist with some of the tree removals we had to complete on city property.

Other Matters & Updates

- Work Anniversaries:
 - Ben Greuel, 19 years on July 3rd
 - Luke Hammons, 4 years on July 28th
- The Klatt Road utility extension contractor has finished up the sanitary and water main extensions and is starting to work on the electrical extension. The same utility contractor is working on the Cedar Dr. /Northridge Dr. utility repairs and started that work on Tuesday July 30th as well. The contractor for the Rail Road Crossing project is still trying to coordinate those improvements with Canadian National.
- High water continued into July (wow, I feel like a broken record....). On Wednesday July 17th the river receded to 5.8' on the gauge and finally gave us an opportunity to see what the sinkhole on Oshkosh Street was from (picture below). The 48 inch Storm main pipe was still about $\frac{3}{4}$ full of water but we could determine that the storm inlet lead collapsed next to the storm main. At this point we feel we can repair this with our staff as it *doesn't appear* that the storm main has collapsed (to be confirmed once we dig around it). We planned on making this repair the following Monday (July 22nd) as we hoped the river was going to continue to recede and empty the pipe. Mother Nature had a different plan with the July 20th storm. So we're waiting for the river to go down.....again.



- Abel Cantu, our new Street/Park Superintendent started on July 15th. We had a 2 week overlap where Don was still in a Superintendent position as Abel completed his orientation and job shadowed for a bit.
- Don Parker's contract from Division Street is still open as they need to yet replace two outfalls. We're waiting on the river, but Parker may need to look at possibly coffer damming around the outfalls to get them replaced if the river doesn't recede in time.

August 5th 2019 Board of Public Works Meeting

Wastewater notes

It is budget time again. Judy, Chad and I will be discussing projects for 2020 and their anticipated costs. I will be presenting to you our budget at the September meeting. As of now I am not anticipating any individual projects over \$30,000.

Jim, Gerid and I have been busy with tank cleaning, repairs and regular preventative maintenance when we are not assisting the construction crews with the digester project.

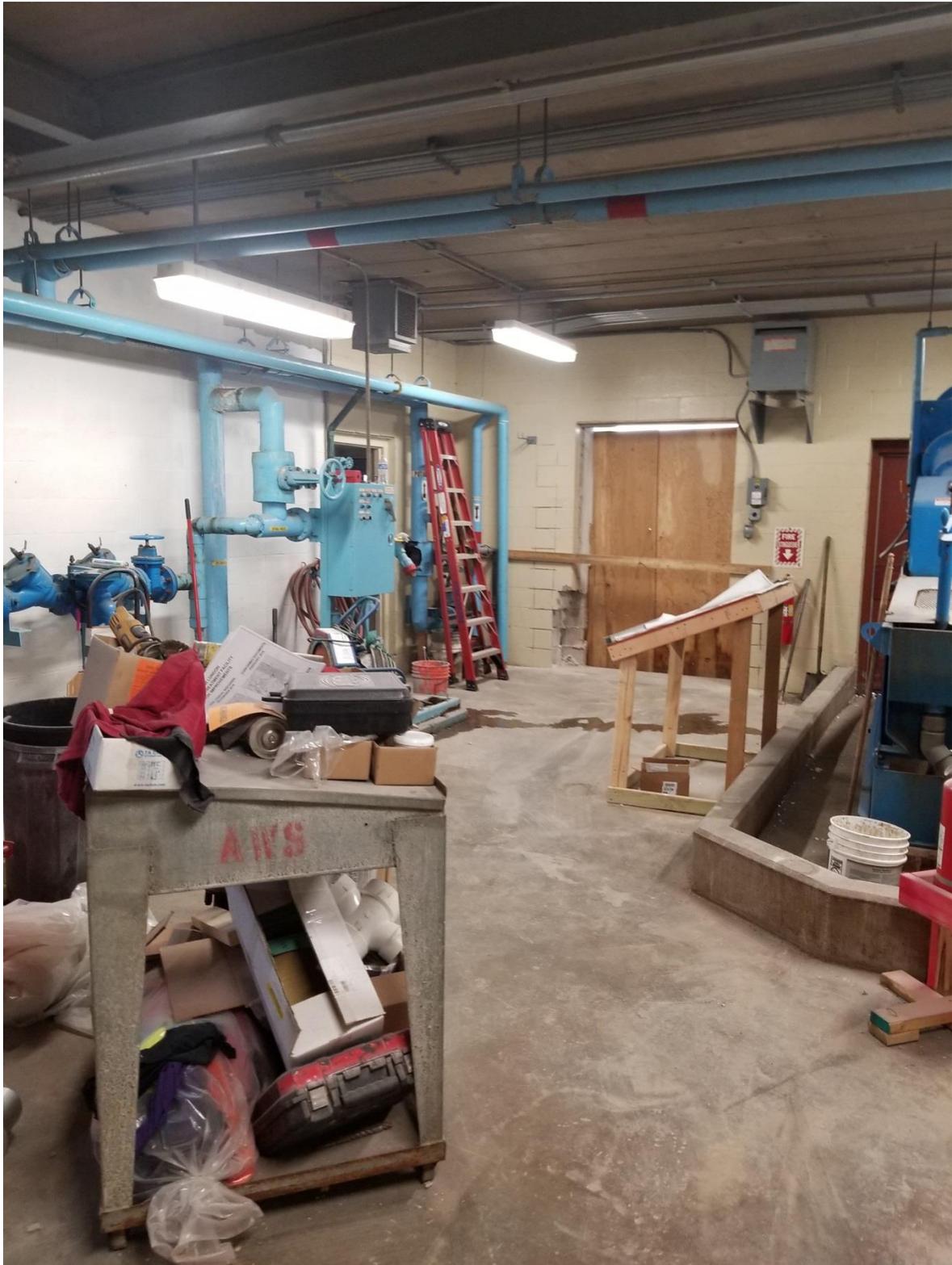
The digester project is going well and is in the demolition process. Attached are some pictures of the progress:













On July 9th the engineers from Ovivo came to inspect the digester covers to see if any modifications are needed to support the new mixing system that will be mounted to the covers. While inside they noticed that the majority of the coal tar that was applied to the attic space has flaked off. They said the metal is in really good shape and feel that the heat from the sun beating on the cover over the last 32 years made the paint flake off as there is no sign of moisture penetration inside. We will not be adding additional cost to the project by having someone blast and recoat the interior of the attic. We clean out and inspect the attic of the digesters every 3 years and the attics have looked the same since I started in 2000. If in the future we notice that there are issues with the interior I will budget to have someone come in and recoat the interior using capital improvement funds.

Green Bay Pipe is scheduled to come to town in September to televise the sewer mains and laterals for future road projects and our ongoing search for clear water intrusion.

July 20th a strong storm blew through the City. My crew and I were busy running the generator from lift station to lift station until all power was restored. There were some issues at the plant due to the sporadic power loss but everything eventually was able to be reset. On one of the areas under construction was an air exchanger that was blown off the roof. Luckily it was due for demolition. Unfortunately it fell onto the emergency generator. We are getting a cost to have the generator shroud replaced as it was damaged during the event.



On July 30th the DNR sent a letter to all wastewater treatment facilities in the State to inform them about the final ruling from the EPA regarding the disposing of pharmaceuticals into the sewer system. I would like to send out the attached information to the local health care, dentists and veterinarians to inform them about the upcoming changes. Please let me know if you have concerns or changes to the write-up.

Wohlt Cheese							
Month	Flow	BOD		TSS		Phos.	
	gals	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	11121	1033	103	677	66	34.9	3.3
Feb	7636	1088	86	732	57	33.2	2.6
Mar	7742	1284	125	675	75	33.0	3.0
April	13017	1331	151	940	102	34.2	3.8
May	13074	1046	116	803	86	31.3	3.4
June	12597	1212	124	1361	119	35.9	3.6
July	13150	1193	143	751	88	26.7	3.2
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	11191	1170	121	848	85	32.7	3.3
Max	13150	1331	151	1361	119	35.9	3.8
Min	7636	1033	86	675	57	26.7	2.6

Influent							
Month	Flow	BOD		TSS		Phos.	
	mgd	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	1.0264	208	1800	227	1991	4.7	41.6
Feb	0.8486	249	1813	217	1572	5.7	41.1
Mar	2.0985	174	2605	151	2081	3.9	53.9
April	2.3697	117	2223	152	2876	3.4	64.0
May	1.8861	168	2731	213	3449	3.9	63.1
June	1.4323	165	2006	213	2681	4.6	55.0
July	1.1764	232	2230	276	2676	5.7	54.7
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	1.5483	187	2201	207	2475	4.5	53.3
Max	2.3697	249	2731	276	3449	5.7	64.0
Min	0.8486	117	1800	151	1572	3.4	41.1

Effluent							
Month	Flow	BOD		TSS		Phos.	
	mgd	mg/L	lbs	mg/L	lbs	mg/L	lbs
Jan	1.1674	2	21	4	38	0.3	2.7
Feb	0.9654	1	5	4	36	0.2	1.7
Mar	2.1674	5	115	8	174	0.5	10.8
April	2.3688	6	128	11	223	0.5	9.0
May	1.9608	3	46	6	106	0.3	5.6
June	1.5293	5	68	15	227	0.5	6.9
July	1.3246	4	41	7	75	0.4	4.4
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	1.6405	4	60	8	126	0.4	5.9
Max	2.3688	6	128	15	227	0.5	10.8
Min	0.9654	1	5	4	36	0.2	1.7
Limit:		25		30		1.0	

Utility							
Month	Rain	Super-natent	Ferric	Methane	Natural Gas	Water	Electricity
	in.	gal	gal	ft ³	ft ³	gal	
Jan	0.11	11,746	87	40	46	754	
Feb	0.17	10,200	86	40	47	546	
Mar	0.32	2,519	65	35	41	659	
April	0.31		108	64	23	769	
May	0.37		77	56	21	1,006	
June	0.31	15,968	92	22	28	1,294	
July	0.39	11,241	88		25	1,272	
Aug							
Sept							
Oct							
Nov							
Dec							
Ave	0.28	10,335	86	43	33	900	
Max	0.39	15,968	108	64	47	1,294	0
Min	0.11	2,519	65	22	21	546	0

Hauled Waste		
Month	Holding	Septic
	Total gals	Total gals
Jan	757,050	63,250
Feb	647,350	79,150
Mar	1,053,600	120,750
April	1,031,740	239,700
May	1	553,350
June	939,415	510,200
July	1,016,485	432,150
Aug		
Sept		
Oct		
Nov		
Dec		
Total:	5,445,640	1,998,550
\$/gal	0.00875	0.02000
Total:	\$47,649.35	\$39,971.00

Mercury		
Quarterly	Inf	Eff
	ug/L	ug/L
Jan	407.00	0.73
Feb		
Mar		
April	52.30	0.82
May		
June		
July		
Aug		
Sept		
Oct		
Nov		
Dec	407.00	0.82
Max		
Min	52.30	0.73
Limit:		1.30

Ammonia	
Month	mg/L
Jan	<.14
Feb	0.76
Mar	3.7
April	6.3
May	12
June	8.3
July	5.3
Aug	
Sept	
Oct	
Nov	
Dec	

Whole Effluent Toxicity
Pass

Fecal Coliform	
Month	
May	25
June	96
July	53
Aug	
Sept	
Limit	400

So far there have been seven accepted change orders associated with this project. I have listed them along with an explanation of why they are needed.

CHANGE ORDER #1

Date of Issuance: 7-2-19

1. Repaint old locker room prior to conversion to Motor Control Center room.

The walls and ceiling in the old bathroom/locker room were not originally slated to be painted. After the old fixtures and pipe brackets were removed there were many areas that were chipping and block was exposed. It made sense to have the walls lightly sandblasted and to remove the imperfections and allow a better surface for the paint to adhere.

Cost: \$3,500

2. Remove existing window and replace with a double door by the new boiler area.

The new heat exchanger for the digester complex is to be moved to ground level above the existing heat exchanger location. In order to fit the unit in the area will require a 90° rotation of the heat exchanger resulting in the flue access roughly 3 feet from the window. Before heating season starts we open up the access to the flues to clean out the siloxane dust and inspect for leaks to ensure optimal efficiency. The rod used to clean the flue tube is 10 foot long. We felt the best way to address the issue is to have a door opening in front of the access point so proper maintenance can be done with no structural impedance. Addition of the door will require some masonry work as well as the double insulated door itself.

Cost: \$15,621

3. Swap the regular sludge valves to be full port to minimize chance of plugging.

The consistency of the High Strength Receiving Station waste will most likely be much thicker than normal sludge. In order to keep lines from plugging we felt it would be best to install open port valves. Normal valves reduce the opening where the plug portion of the valve is seated. For example a 4 inch normal valve only has a 3.25" opening at the valve seat. This area is a prime location for rags and other materials to get caught on and eventually plug up the line resulting in costly down time and possible damage to pumps. Open port valves have the valve seat out of the flow line of the pipe resulting in a 4 inch pipe having a 4 inch opening at the valve seat.

Cost: \$5,468

4. Revise location of the potable water gate valve.

When August Winter was tearing the insulation off of the 4" gate valve for the potable water line it was observed that the bolts and valve superstructure were corroded from 32 years of sweating pipes and moisture being trapped by the insulation. This valve will need to be completely replaced and moved closer to the new booster pump location.

Cost: \$1,156

CHANGE ORDER #2

Date of Issuance: July 23, 2019

1. Additional Demo in old Motor Room.

Removal of abandoned pipes and valve stand in the second floor level. Rebuild floor and redo the coatings protecting the concrete.

Cost: \$4,596

2. Remove existing pipe corbels in both digesters.

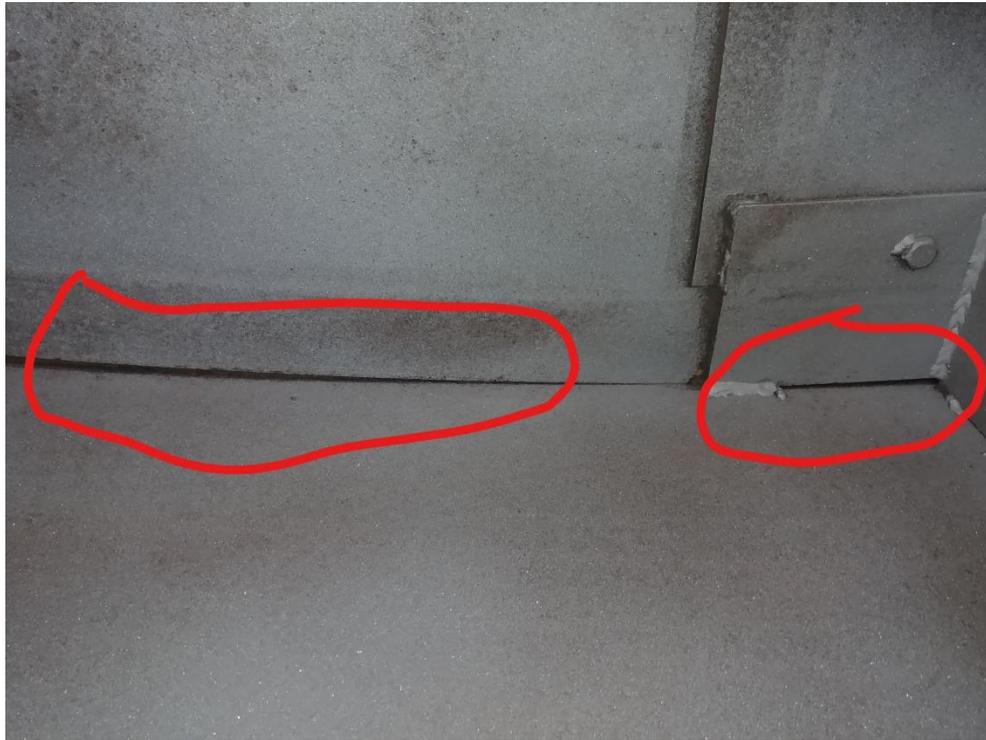
The concrete corbels that held the old mixing system in place need to be removed to eliminate dead spots in the digester.



Cost: \$6,745

3. Seal seams in digester holding cover.

The weld seams in the digester cover from the 1987 construction were only spot welded and there are significant gaps. It cannot be guaranteed that the painters will be able to get the protective coating behind the gaps and there is potential for corrosion and structural failure to happen.



To remedy this, an epoxy mud will be shoved into all of the existing gaps before the final coating is applied.

Cost: \$5,101

Another change order that will be coming up soon is the non-compliant ladder to the roof of the digester building. The following write-up explains why this should be addressed.

The new mixing systems for the digesters require weekly lubrication and preventative maintenance on the reducer mechanism and gas collection system. This will require tools to be brought up onto the roof of the digester complex in order to reach the mixers. The existing ladder from 1987 is not up to current OSHA code for clearance between the wall and ladder rungs.



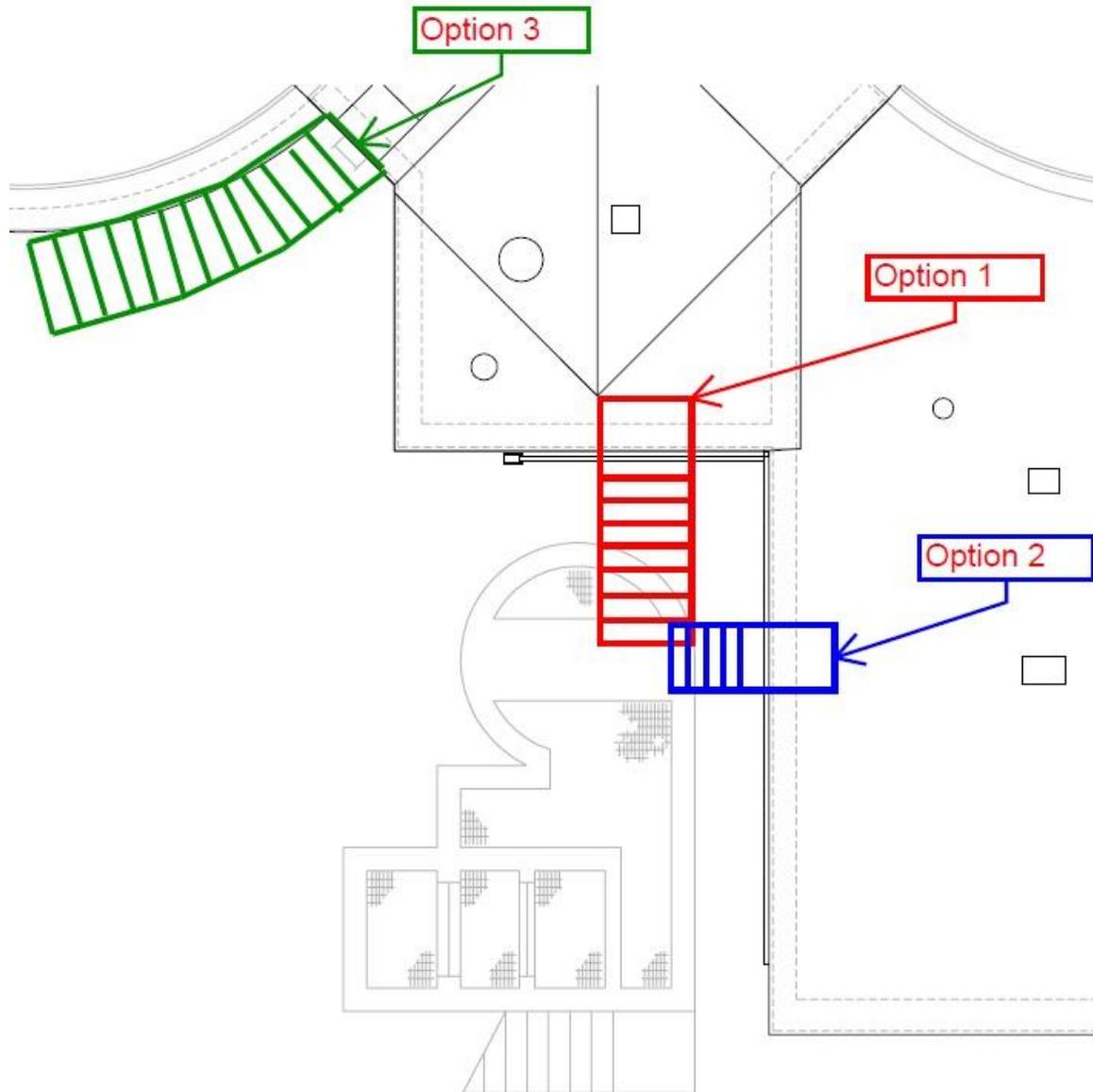
Portion of ladder
not to code





The first picture shows the area in non-compliance and the next three show how only the toe of the boot fits onto the ladder rung. The ladder rung should rest against the heel of the boot. Getting onto the roof in sunny weather is tricky enough. In winter where there is ice and snow makes the use of the ladder very dangerous, especially if tools and jugs of oil are being hauled onto the roof.





A different solution that Donohue is proposing to address this issue is to add a stairway to the existing grit chamber up to the roof. Option 1 is the cheapest and easiest to achieve. Cost estimates are in the \$10,000 - \$15,000 range. This way it will be easy for a single person to bring tools to the roof during the weekend or holiday stretches where another employee is not available to assist. The last two photos show the proposed way to the roof.

Will the Board give approval to the relocation of access to the digester complex roof?

Let me know if you have any questions regarding the change orders.





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Let me know if you have any questions regarding the change orders.

New London Wastewater Treatment Facility
215 N. Shawano St.
New London, WI 54961

August XXth, 2019

Services Director
Healthcare Facility
Stethoscope Dr.
New London, WI 54961



Dear Services Director:

This letter is in regards to a final ruling by the United States Environmental Protection Agency entitled "Management Standards for Hazardous Waste Pharmaceuticals and Amendment to the P075 Listing for Nicotine" which will take effect on August 21st 2019. The EPA has been in contact with healthcare and pharmaceutical facilities regarding the ruling so disposal solutions can be made before the ruling takes effect.

On July 30th 2019 the Wisconsin Department of Natural Resources sent out a notice to wastewater facilities in the State regarding the EPA's final ruling. The notice instructs publicly owned treatment facilities to contact any health and pharmaceutical facilities in their jurisdiction to make sure they are aware of the new ruling and have an action plan in place for the disposal of their waste pharmaceuticals. I have included that notice with this letter.

If you have any questions or concerns regarding this ruling the following contacts can assist you:

Amy Walden – DNR Hazardous Waste program, at (608) 266-0272 or amy.walden@wisconsin.gov

Ben Greuel – New London Wastewater Treatment Facility (920) 982-8511 or bgreuel@newlondonwi.org

Thank you for your time and cooperation.

Regards:
Ben Greuel
New London Wastewater Treatment Facility
920-982-8511
bgreuel@newlondonwi.org

New Federal Rule Includes Hazardous Waste Pharmaceuticals Sewering Ban

In December 2018, the EPA Acting Administrator signed the final rule, titled, "[Management Standards for Hazardous Waste Pharmaceuticals and Amendment to the P075 Listing for Nicotine](#)". This final rule allows for cost savings and streamlined standards for handling hazardous waste pharmaceuticals to better fit the healthcare industry while maintaining protection of human health and the environment.

This final rule includes a sewerage ban on hazardous waste pharmaceuticals which prohibits healthcare facilities and pharmaceutical reverse distributors from sewerage such waste.

The rule and sewerage ban go into effect nationwide on **August 21, 2019**, independent of the status of state regulations. This action is intended to address issues pertaining to the presence of pharmaceuticals in drinking and surface waters, as well as the negative impacts to aquatic and riparian ecosystems. EPA projects that this rule will improve our drinking and surface water quality by reducing pharmaceuticals entering our waterways by 1,644 to 2,300 tons annually nationwide. EPA and the Department strongly recommend not sewerage any waste pharmaceutical (i.e., hazardous or non-hazardous) from any source or location as a best management practice.

The DNR is communicating with healthcare facilities and pharmaceutical reverse distributors in Wisconsin regarding changes needed to comply with the sewerage ban. Healthcare facilities are defined as any entity that is lawfully authorized to:

1. provide preventative, diagnostic, therapeutic, rehabilitative, maintenance or palliative care, and counseling, service, assessment or procedure with respect to the physical or mental condition, or functional status, of a human or animal or that affects the structure or function of the human or animal body; or
2. distribute, sell, or dispense pharmaceuticals, including over-the-counter pharmaceuticals, dietary supplements, homeopathic drugs, or prescription pharmaceuticals.

This definition includes, but is not limited to, wholesale distributors, third-party logistics providers that serve as forward distributors, military medical logistics facilities, hospitals, psychiatric hospitals, ambulatory surgical centers, health clinics, physicians' offices, optical and dental providers, chiropractors, long-term care facilities, ambulance services, pharmacies, long-term care pharmacies, mail-order pharmacies, retailers of pharmaceuticals, veterinary clinics, and veterinary hospitals.

See the following for a definition of pharmaceutical reverse distributor:

<https://www.epa.gov/hwgenerators/frequent-questions-about-management-standards-hazardous-waste-pharmaceuticals-and#reverse>

This new rule **does not** apply to pharmaceutical manufacturers (unless they act as reverse distributors), production facilities or other generators of hazardous waste pharmaceuticals.

NOTE: Publicly-owned wastewater treatment works (POTWs) and other wastewater treatment facilities should review any sewer use agreements with healthcare facilities and pharmaceutical reverse distributors to determine whether changes are required due to the ban on hazardous waste pharmaceuticals. The "sewer-able seven" - calcium salts, dextrose, lactated ringer's, magnesium salts, potassium salts, saline and sterile water – are not hazardous wastes and are not included in the sewerage ban.