

# AGENDA

2014 March 13

Regular Meeting: 6 pm

Lincoln City, Council Chambers

801 SW Hwy 101, 3<sup>rd</sup> Floor



## Devils Lake Water Improvement District

Post Office Box 974, Lincoln City, Oregon 97367

Phone: (541) 994-5330 Fax: (541) 994-6040

[www.DLWID.org](http://www.DLWID.org)

### Quick Look:

- **Budget Committee Appointments**
- **HABS Stakeholder Meeting**
- ***E. coli* Monitoring**

### **I. Roll Call**

### **II. Consent Agenda**

- Minutes of the Previous Meetings
- Financial Report
- Resolution 2014-02

**III. Comments from Citizens Present on Agenda/Non-Agenda Items:** *This is an opportunity for members of the audience to bring to the District's attention any item not listed on the agenda for public hearing. Comments are limited to five (5) minutes per citizen, and the Board of Directors may use the light system. Speakers may not yield their times to others, and as a general rule this is not a time for exchange of questions. At the conclusion of this agenda item, a board member may discuss or raise questions regarding an item presented by a citizen. The Chair has the authority to reduce the time allowed for comment in accordance with the number of persons present and signed up to speak.*

### **IV. Unfinished Business**

(Agenda Support Item A)

- The Devils Lake Plan
  - Septic / Sewer
  - Save our Shoreline
  - Vegetation Management
- Communications Report
- Safety Report
- MidCoast TMDL
- East Devils Lake Road
- Policy Updates
- Budget Committee

### **V. New Business**

(Agenda Support Item B)

- Lake Steward Nominations
- Devils Lake Revival
- HABS Stakeholder Meeting Review
- Water Quality Monitoring – *E.coli*
- Lab Equipment

### **VI. Non-agenda Items**

### **VII. Additional Comments from Citizens Present on Non-Agenda Items**

### **VIII. Board Comments & Announcement**

### **IX. Adjournment**

Meetings of DLWID are handicapped accessible under the ADA.

If special accommodations are needed, please contact the District Office at (541) 994-5330 48 hours prior to the meeting.

# Staff Reports 2014-03 -13 Robertson

## Consent Agenda

Resolution 2014-02: Transfer to M&S: Accounting, M&S: Consulting

Whereas the District had underestimated the financial accounting, intern and consulting costs estimated to be needed for the remainder of the fiscal year, Be it Resolved that the Board of Directors of the Devils Lake Water Improvement District hereby transfers Four Thousand Dollars (\$4,000.00) from the General Fund: Debt Service to the following:

General Fund: Material & Services: Accounting for \$750

General Fund: Material & Services: Consulting for \$3,250

## Unfinished Business

## Agenda Support Item A

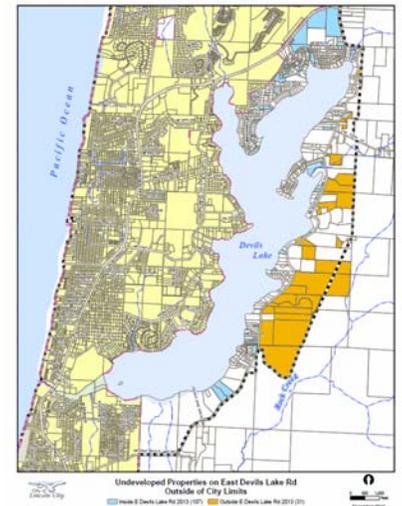
### a. The Devils Lake Plan

#### i. Septic / Sewer:

I have been asked to join the City Manager and the Mayor for a meeting with DEQ in Salem in April to discuss funding options. As part of the preparations I have sent the City information about the 303d listing for Devils Lake and Thompson Creek, making the connection to nutrient abatement and Harmful Algal Blooms, pH and Chlorophyll a concentrations.

Urban Growth Management Agreement: The Lincoln City Planning Commission met recently (2014-02-18) in which the City's Planning and Community Development Director, Richard Townsend, provided goals for 2014. Included was the creation of a Urban Growth Management Agreement: Link to [Staff report](#) and Link to [Video](#).

This agreement is actually a state requirement and thus has additional cause to be moved forward in the coming year. I made public comment at their meeting, supporting the creation of such an agreement, highlighting the benefits of providing clear mechanisms for property owners seeking to be part of the City and a method to insure smart development in the watershed that will help safeguard Devils Lake.



#### To Do and Pending Items:

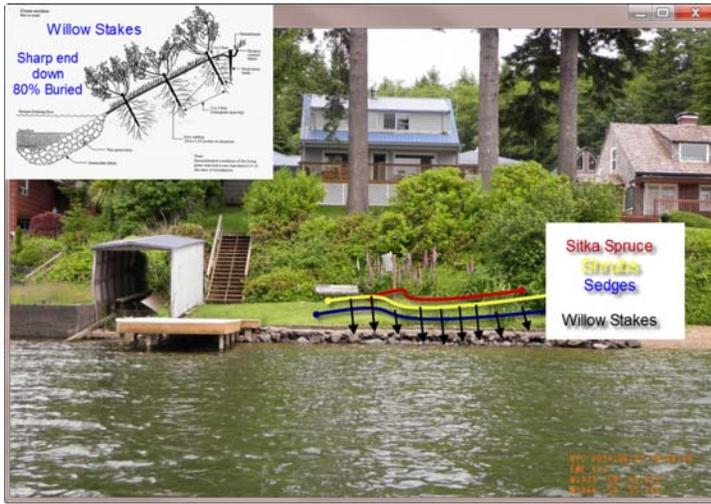
- Meeting with DEQ: City & DLWID
- Copy of the draft Urban Growth Management Agreement forged in the 1990's: Lincoln County
- Copy of UGMA with Toledo: Lincoln County
- Full buildable lands inventory: Lincoln County

Voyage LID: (Chair Green)

Direct Link to Engineer Report:

[http://www.dlwid.org/Projects/Sewer/Voyage\\_LID.pdf](http://www.dlwid.org/Projects/Sewer/Voyage_LID.pdf)

## ii. Save our Shoreline (SOS):



of area planted with the three areas on her property where native vegetation was added. This included 98 sedges, 25 Douglas Spirea, 6 wax myrtles, 3 Sitka Spruce, 6 Red Cedars, 3 Nine Bark, and 25+ willow stakes. Overall 50 volunteer hours were provided for a project value of over \$1,500, yet only out of pocket expense of around \$200, given most of the plants came through our NORP partnership and the nursery at Taft 7-12. A nice photo and article was in the News Guard recently, entitled, “Devilish Deeds!”

**Taft Service Project:** Completed! 2014-02-20. Thanks to the student leaders of Taft 7-12, plus their colleagues from around the state, the service project came together brilliantly. Land owner, Linda Burt was pleased with the project which saw nearly 50 linear feet of shoreline restored and overall 850 square feet



**Vegetation Management:** We received an email from Deputy Director Curt Melcher regarding how staff will be assigned to the project. Recent District Fish Biologist Ben Clemens will be an ongoing part of their staff representation out of Salem along with Assistant Fish Biologists Derek Wilson and John Spangler from the Newport Field office. I took the opportunity to reiterate the point we discussed last meeting regarding the chance to evaluate grass carp from a bottom up approach verses top –down relative to aquatic vegetation. At this point I think we are in a waiting period until they provide further direction or seek additional information.

## b. Communications Report

- Internet Streaming: Meetings the DLWID are now available for live streaming and/or recorded streaming on the internet. The internet feed can be accessed via the City's website: <http://www.lincolncity.org/> by clicking on Agenda, Packets & Video or from the following link: <http://lincolncityor.iqm2.com/citizens/default.aspx>
- Government Access Channel 4: The District's monthly meetings continue to be broadcast live and throughout the month repeatedly airs. This channel is available for Charter subscribers.
- Social Media: The District uses these social media components to reach the general public periodically.
  - YouTube: <http://www.youtube.com/user/DLWID>
  - Facebook: <https://www.facebook.com/DevilsLake.Oregon>
  - Twitter: [https://twitter.com/Devils\\_Lake](https://twitter.com/Devils_Lake)
- KBCH am 1400: The District has had a standing interview spot on the THIRD Tuesday of the Month from 7:30 – 8:00 am.

- Career Day: I participated in the SDCWC sponsored Natural Resources Career Day. Approximately 180 students from Taft over the course of the day attended the event held at Oregon Coast Community College. Additional presenters included representatives from USFS, ODFW, Surfrider Foundation, and Oregon Wild. As the only Taft High and OCCC graduate in the group I felt particularly honored to participate as is obvious from the slide I was asked to prepare.



- Devils Lake Water Quality 101: We provided a three-hour class at Oregon Coast Community College as part of the Community Education calendar. This class will be offered again in the spring. Slides available: [http://dlwid.org/WQ/OCCC\\_Devils\\_Lake\\_Water\\_Quality\\_101\\_SLIDES.pdf](http://dlwid.org/WQ/OCCC_Devils_Lake_Water_Quality_101_SLIDES.pdf)

c. **Safety Report** (Robertson) We recently updated our Safety Policy and have incorporated safety components into the Personnel Policy and Procedures. A formal Safety Manual will be developed in the coming months. Safety is no accident!

d. **MidCoast TMDL** (Robertson) Department of Environmental Quality (DEQ) has begun the planning process for developing an Implementation Ready - Total Maximum Daily Load (IR-TMDL) for 303(d) listed waterbodies in the Oregon Mid-Coast Basin. The initiation of this TMDL process has been a long-time in the works and the process itself will be lengthy stretching over the next 18 - 20 months. Devils Lake is listed for Weeds/Algae, Chlorophyll a and pH and Thompson Creek is listed for fecal coliforms, and thus as a local government

we have been invited to participate. Notably, temperature listings are also proposed by EPA for the lake and one of its tributaries. Representatives from local, state and federal government, special districts, Tribal Nations, private industry, forestry, agriculture, conservation, NGOs, watershed councils, landowners, and others were also identified.

- We have created a web presence under the Project Page for the TMDL process. <http://www.dlwid.org/Projects.html#TMDL>
- Links to the DEQ's website are posted below.  
<http://www.deq.state.or.us/WQ/TMDLs/midcoast.htm>  
<http://www.deq.state.or.us/WQ/TMDLs/midcoastLSAC.htm>

Stakeholder Meeting: No meetings since our last DLWID meeting. A memo from DEQ was provided and is available as a link [here](#). It explains much of the delays associated with the overall TMDL. Next meeting scheduled for April 16, 2014 1:30 in Newport.

Bacteria Technical Working Group: We met on 2014-03-05 In Newport. Major topics of discussion were the preliminary feedback from the Load Duration Curves, upcoming beach water quality summaries, and an unsolicited letter from forest and agricultural trade organizations which suggested a number of weakness or faults in the draft Salmon River summary that they somehow got a copy of. Most if not all of the concerns brought forward were shown to be falsely derived or based on guidance that does not apply to Oregon as addressed in a follow up letter from EPA defending DEQ's work. Further some of their concerns about documentation were only the result of the draft document not housing all the relevant information that would be in the final as it was targeted for internal circulation among TWG members. There were concerns about why certain flow data were used, that have been discussed in full to the TWG and which would be part of the final TMDL. Other suggestions about statistical validity were similarly shown to be inaccurately derived.

- e. **East Devils Lake Road:** On the day of the SOS project I witnessed a "Jack" Coho salmon on the road. I was able to scurry it across the road safely. Later that day I notified the SDCWC. No additional fish to my knowledge were spotted and thus no active fish ferrying occurred.

Downloads: [http://www.dlwid.org/Projects/EDLR/EDLR\\_Feasibility\\_Study-2009-08-31.pdf](http://www.dlwid.org/Projects/EDLR/EDLR_Feasibility_Study-2009-08-31.pdf)

[http://www.dlwid.org/Projects/EDLR/EDLR\\_Alternatives\\_Analysis\\_Summary\\_2012-10-19.pdf](http://www.dlwid.org/Projects/EDLR/EDLR_Alternatives_Analysis_Summary_2012-10-19.pdf)

- f. **Policy Updates:** The District has proposed updates and additions to its Policy Manual for the following items: (**Highlighted require further actions**)

- **Policy and Procedures Manual (Draft sent 2013-12-31)**
- **Personnel Policy/Manual (Draft sent 2013-12-31: reviewed, edited, and tabled)**
- **Mandatory Reporter Policy (Adopted: May 2013)**

- Safety Policy (included in larger update)
- Financial Manual (Adopted 2014-01-09)
- Records Policy (Adopted 2014-01-09)
- Board Duties and Responsibilities (See Policy and Procedures Manual)
- **MSDS (Postponed until 2014 changes)**
- Employee Training (Policy added to Personnel Policy - **Safety Manual forthcoming separately**)
- Light Duty Return to Work (included in Personnel Policy)
- **Investment Policy (Draft Sent 2013-12-31: Reviewed, edited and tabled)**

**Links to these drafts are available on the website:**

[http://dlwid.org/Board%20Directors.html#Board Official Actions](http://dlwid.org/Board%20Directors.html#Board%20Official%20Actions)

**g. Budget Committee:** The District received seven applications all of which have been forwarded to the board. I would like to thank all for their interest. There are currently four vacancies. Appointments may be for 1, 2 or 3 years. Applicants are listed by last name alphabetically as follows:

- Joe Barnes
- Mark Christie
- Douglas Holbrook
- Max Hanson
- Robert Landhuis.
- Mitchell Moore
- Susan Wahlke

- a) **Lake Steward Nominations:** The District is accepting nominations for the 2014 award to be presented during the Community Days Banquet in April. Please forward on nominations to [lake.manager@dlwid](mailto:lake.manager@dlwid) by April 1, 2014.

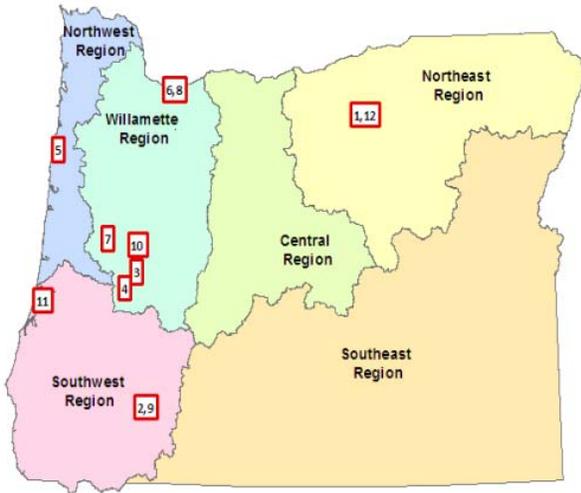
**Forms:** [http://www.dlwid.org/Communications/Lake\\_Steward\\_Nomination.pdf](http://www.dlwid.org/Communications/Lake_Steward_Nomination.pdf)

- b) **Devils Lake Revival RFP:** A Draft has been sent to the Board.
- c) **HABs Stakeholder Meeting:** I attended and presented at the annual meeting held in Corvallis this year. With the end of the CDC grant Oregon Health Authority had the previous five years, Oregon Lakes Association and OSU sponsored the meeting. Presentation on 2013 Bloom recap, monitoring options, federal legislation, dog and human illness, genetics of blooms in the Willamette Valley, and others were given. I was asked to provide an overview of our monitoring program, which I am pleased to say, is largely accepted as one of the premier programs in Oregon.

2014 HABS Stakeholder Meeting Agenda, Presentations and Handouts Available:  
<http://www.oregonlakes.org/Events?eventId=851085&EventViewMode=EventDetails>

In 2013 the Oregon Health Authority reports that 12 advisories were issued spanning 730 days verses 9 advisories and 601 days in 2012. There were actually the same number of lakes and reservoirs affected, but three water bodies had two advisories each in the year. In 2013 60% of the year there were advisories compared to 54% of the year in 2012, demonstrating an up tick statewide. One reservoir had a bloom that wasn't actually lifted until January 21, 2014, and with its initial bloom starting on June 18, 2013 was under advisory for a total of 144 days. Of course as you know Devils Lake also had a lengthy bloom (112 days) beginning August 1 and was finally lifted on November 21 after lab results were eventually obtained. Tenmile Lake relayed a similar delay in lifting their bloom largely due to wanting to be sure the bloom was gone before spending the money on expensive lab tests as is also our policy. The following slides are from Rebecca Hillwig of Oregon Health Authority's presentation which is available through the link above.

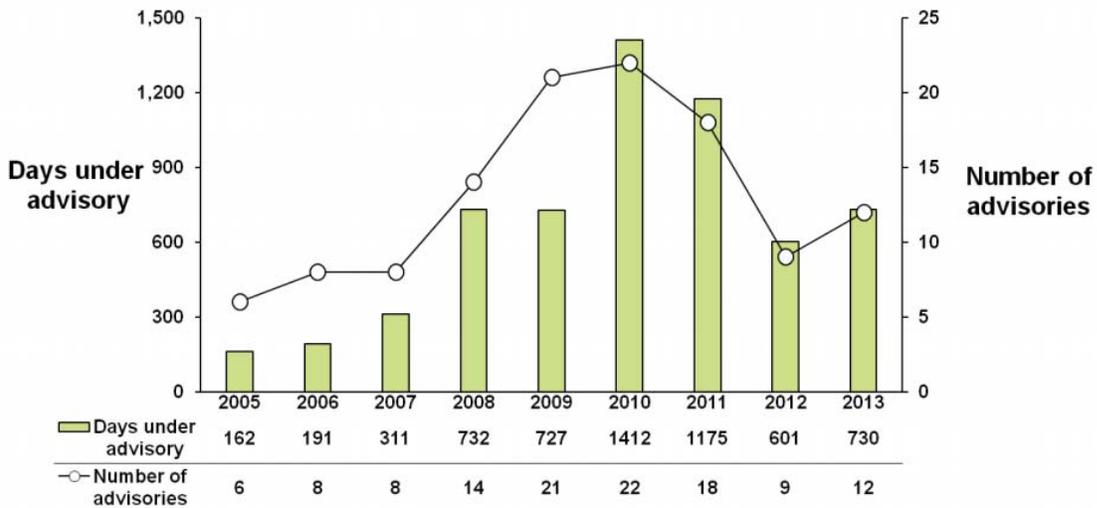
# 2013 HAB Health Advisories



#	Waterbody	Species	Start	End	Days
1	Willow Creek Res	Anabaena f-a	6/18	8/13	56
2	Lost Creek Lake	Anabaena f-a	6/20	7/05	15
3	Dexter Res	Anabaena f-a	7/03	9/19	78
4	Dorena Res	Anabaena f-a	7/25	9/24	61
5	Devils Lake	Microcystis	8/01	11/21	112
6	Blue Lake	Visible scum	8/06	8/09	3
7	Fern Ridge Res	Microcystis	8/15	12/18	125
8	Blue Lake	Visible scum	9/09	9/13	4
9	Lost Creek Lake	Anabaena f-a	9/13	12/30	108
10	Walterville Pond	Microcystis	9/13	10/03	20
11	Tenmile Lake	Microcystis	10/04	12/03	60
12	Willow Creek Res	Anabaena f-a	10/25	1/21	88
		<b>Species</b>	<b>Total</b>		<b>730</b>

# Status and Trends

Number of advisories and days under advisory, by year



Other item of interest is work that Lane County initiated (3 years in the making) relative to getting some HABs research funding legislation through the US Senate and is now looking to get a Representative to get a committee hearing on the same HABS legislation for this year. This could be an opportunity for the District to contact folks in DC to encourage passage of this bill which would provide research funding for Harmful Algal Blooms on the freshwater side through the reauthorization of the act that currently covers the marine environment only. Lane County got involved in this after so many of its local reservoirs became overwhelmed with HABs which was big impacts to the community not only as drinking water supplies, but recreational and economic impacts associated with lake advisories. Senate Bill 1254 which passed just recently is called the Harmful Algal Bloom and Hypoxia Research and Control Act or “HABHRCA”. The Bill was co-sponsored by Senators Wyden, Merkley and Cantwell (WA). The Bill which doesn’t have a House counterpart must first get a hearing in Science or Natural Resources which there are some regional Representatives which have seats on those committees and have been identified below.

From Alex Cuyler’s presentation:

- The purpose of S. 1254 is to reauthorize and amend the Harmful Algal Blooms and Hypoxia Research and Control Act of 1998 (HABHRCA) to promote and coordinate a national research strategy for improving the understanding and prevention of marine and freshwater harmful algal blooms (HABs) and hypoxia events.
- This 2008 report outlines the following priorities for freshwater HAB research and response: (1) improve methods for detecting HAB cells and toxins; (2) improve understanding of HAB toxin uptake, metabolism, and health effects in humans and animals; (3) improve human health and ecological risk assessments; (4) improve knowledge of bloom occurrence through better monitoring; (5) improve bloom prediction; (6) develop HAB prevention and control methods; and (7) improve HAB research and response infrastructure.
- This bill would authorize \$20.5 million to be appropriated for each of the fiscal years 2014 through 2018 to implement the program and the action strategy. Of these appropriations, the new section 610(b) of the HABHRCA would require the Secretary of Commerce to ensure a substantial portion is allocated to extramural research activities.

Key Individuals

- Peter DeFazio, House District #4, OR Ranking member, House Committee on Natural Resources
- Suzanne Bonamici, House District #1, OR Member, House Science, Space and Technology
- Doc Hastings, House District #4, WA Chairman, House Committee on Natural Resources
- Derek Kilmer, House District #6, WA Member House Committee on Science, Space and Technology

Suggested Draft Letter:

I am writing to request that you hold a legislative hearing on S. 1254, the Harmful Algal Bloom and Hypoxia Research and Control Amendments Act of 2013. This important bipartisan legislation passed the U.S. Senate by unanimous consent on February 12, 2014 and is now pending before the House Committee on Natural Resources.

Harmful algal blooms (HABs) and hypoxic events have significant impacts on the Nation’s economy. Commercial fisheries lose approximately \$38 million annually as a result of these events. Health costs associated with human illness is estimated at \$37 million per year. Losses to the recreation and tourism industries, combined with costs of monitoring and managing HABs and hypoxic events, amounts to \$7 million annually.

These events affect the entire country, including the Pacific Northwest. For example, high levels of domoic acid in razor clams, oysters, and Dungeness crabs (which can result in serious human illness if consumed) cost Washington State at least \$10 million in lost revenue in 2002 and 2003. These fisheries contribute more than

\$70 million to the Washington economy, sustain hundreds of jobs, and are critically important to local tribes and recreational anglers. We are also aware that HABs are present in a number of Eastern Washington lakes – such as Rufus Woods, Lake Spokane, Shelley Lake, Moses Lake, Blythe Lake, Potholes Reservoir, and Lake Bryan – which could limit or restrict recreational opportunities and impact drinking water quality.

Advance warning of HABs and hypoxic events increases the options for managing these events. First it is necessary to understand when and where blooms occur and how they respond to changing environmental conditions, through research and reporting programs. Once this information is collected, it is then possible to predict blooms and help mitigate their impacts on local communities and our natural resources. S. 1254 would help accomplish that task by promoting and coordinating a national research strategy for improving our understanding and prevention of HABs and hypoxia events.

S. 1254 is sensible, bipartisan legislation. We respectfully urge you to hold a legislative hearing and work to move this important bill to the House floor as soon as possible.

*Staff recommendation:* Provide a letter to key individuals in the House of Representatives based largely on the suggested draft shown above.

- d) **Water Quality Monitoring *E. coli*:** The Salmon Drift Creek Watershed Council in an effort to find cost savings in their grant supported water quality monitoring program began considering conducting *E. coli* monitoring in house as opposed to sending samples to Neskowin. Based on very positive discussions with the lab analyst a transition plan is in place which will see the mobile lab transferred temporarily to SDCWC's lab and then ultimately likely to the OCCC lab which we share. The lab equipment at Neskowin to my understanding was jointly purchased with funds from the SDCWC, DLWID and Neskowin-Nehalem Watershed Council, so we are part owners of the equipment and thus will continue to have access and use of the equipment. We though will have to either pay SDCWC and/or run the samples ourselves, both of which are desirable for flexibility. We will need however to gain some training which Gale Ousele, the current lab analyst, will seemingly be able to provide assumingly at a reasonable cost. Additionally, online training is also available.

SDCWC is looking at April trainings coupled with their biweekly monitoring program which I am hoping we can piggy-back on for a small fee, estimating \$100 - \$200/day. Gale has provided a decade worth of analysis for us and has significant skills to observe and learn from. During most of the monitoring season we will have our intern available as well, which will provide an even more meaningful internship around the water quality component. In addition to the value to the intern, the District through its lease commitment to OCCC will be able to provide substantially more community outreach of its monitoring program. We have obligated ourselves to inviting the public into watch our water quality monitoring at multiple times during the year, which this would expand our opportunities to meet that obligation and with a scientific enquiry the public has demonstrated resounding interest in.

*Staff recommendation:* Authorize the expenditure of existing Training & Continued Education funds for *E. coli* analyst training, up to \$400.

- e) **Lab Equipment:** As mentioned back in December it was anticipated that we would need to replace our stand alone fridge/freezer with two counter top sized individual units. This was necessary because of the footprint available in the store room of the lab. Also the existing unit is a "Frost Free" unit and thus cycles through a freeze thaw pattern which is not well suited for storing enzymes such as used in our Cyanotoxin monitoring or DNA samples from our bacterial source tracking efforts. While initial estimates were as low as \$600 a piece or

\$1,200 combined, I am revising that estimate to at least \$800 per item, with an upper limit of \$1,000 per item based on more technical research and product comparisons.

**Staff Recommendation:** In order to afford this investment, I am proposing we move by resolution \$2,000 from M&S: Monitoring to Capital Outlay, and then authorize the expenditure of up to the same amount for the replacement products, allowing for more comprehensive product comparison by the District's Senior Scientist.

Below are some sample items I have been investigating.

[https://us.vwr.com/store/catalog/product.jsp?catalog\\_number=89425-622](https://us.vwr.com/store/catalog/product.jsp?catalog_number=89425-622)

**VWR® General-Purpose Freestanding Undercounter Laboratory Freezer**  
Supplier: VWR International

The VWR® General-Purpose Freestanding Undercounter Laboratory Freezer is the ideal choice for laboratories and pharmacies requiring undercounter or countertop applications with adequate space for ventilation.

Freezers are supplied preset at -20°C (-4°F). The unit also includes leveling legs, keyed door locks, and an 0.95cm (¾") probe access port. This freezer features a solid door and white exterior finish.

**Ordering Information:** Accessory items must be purchased separately. Freezers are supplied with a two year parts and labor warranty, with an additional three year warranty on compressor parts.

UL listed.

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**RELATED INFORMATION**

- Technical Drawing 89425-622 Exterior Cutsheet
- AT-Cutsheet\_SCUCFS-0430
- Product Literature Undercounter\_freezer\_flyer

**ORDER ACCESSORIES**

Description	Electrical	Volume	Dimensions	Interior Dimensions	Defrost	Door Type	Temperature Range	Weight	VWR Catalog Number	Unit	Price	Quantity
General-Purpose Freestanding Undercounter Freezer	120V, 2A	115 L (4 cu. ft.)	54.6W x 57.2D x 85H cm (21½ x 22½ x 33½")	39.3W x 33D x 62.2H cm (15½ x 13 x 24½")	Manual	Solid Door	-25 to +15°C (-13 to 5°F)	67 kg (148 lbs.)	89425-622	Each	\$777.24	0

[https://us.vwr.com/store/catalog/product.jsp?catalog\\_number=89238-608](https://us.vwr.com/store/catalog/product.jsp?catalog_number=89238-608)

**Table Top Compact Refrigerator and Freezer, General-Purpose, Nor-Lake® Scientific**  
Supplier: Nor-Lake Scientific

The Nor-Lake® Scientific Table Top Compact Refrigerator unit offers an adjustable temperature control range of 2° to 8°C. Standard features include automatic defrost, door storage compartments, front-mounted lock, fully-finished white cabinet, two leveling feet, R134a refrigerant, one removable wire shelf, and reversible door. They are 100% CFC free. Supplied with Plug Type 5-15P.

The Nor-Lake® Scientific Table Top Compact Freezer unit offers manual defrost, and an adjustable temperature control range -10° to -20°C. Standard features on this unit include front-mounted lock, fully finished white cabinet, two leveling feet, one-piece interior liner, R134a refrigerant, one removable wire shelf, and reversible door. This unit is also 100% CFC free. Supplied with Plug Type 5-15P.

**Ordering Information:** All units include a one-year limited warranty on parts and labor (US & Canada), and a one-year limited warranty on parts (International). Accessories not included.

**ORDER:**

Description	Electrical	Volume	Dimensions	No. of Doors	Weight	Supplier No.	VWR Catalog Number	Unit	Price	Quantity
Laboratory Table Top Freezer	115V	40.2 L (1.42 cu. ft.)	44.2W x 48.3D x 51.3H cm (17.4 x 19 x 20.2")	1 Solid Door	24.9 kg (55 lbs.)	LJ021WWW/0H	89238-610	Each	\$802.88	0
Laboratory Table Top Refrigerator	115V	45.3 L (1.6 cu. ft.)	44.2W x 48.3D x 51.3H cm (17.4 x 19 x 20.2")	1 Solid Door	24.9 kg (55 lbs.)	LR021WWW/0	89238-608	Each	\$802.88	0

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**VWR® General-Purpose Freestanding Undercounter Laboratory Refrigerator**

Supplier: VWR International



The VWR® General-Purpose Freestanding Undercounter Laboratory Refrigerator is the ideal choice for laboratories and pharmacies requiring undercounter or countertop applications with adequate space for ventilation.

Refrigerators are supplied preset at 4°C (39°F). The unit also includes leveling legs, keyed door locks, and an 0.95cm (3/8") probe access port. The unit features a solid door and white exterior finish.

**Ordering Information:** Supplied with two-year parts and labor warranty, with an additional three-year warranty on compressor parts. Accessory items must be purchased separately.

UL listed.

RELATED INFORMATION

- Technical Drawing
- Product Literature

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Description	Electrical	Volume	Dimensions	Interior Dimensions	Defrost	Door Type	Temperature Range	Weight	VWR Catalog Number	Unit	Price	Quantity
General-Purpose Freestanding Undercounter Refrigerator	120V, 2A	127 L (4.5 cu. ft.)	54.6W x 57.2D x 85H cm (21 1/2 x 22 1/2 x 33 1/2")	48.8W x 41.9D x 71.1H cm (17 1/4 x 16 1/2 x 28")	Cycle	Solid Door	0 to 10°C (32 to 50°F)	67 kg (148 lbs.)	89425-620	Each	\$983.50	<input type="text" value="0"/>

[https://us.vwr.com/store/catalog/product.jsp?catalog\\_number=89425-620](https://us.vwr.com/store/catalog/product.jsp?catalog_number=89425-620)

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- VWR (18156)

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**VWR - 89425-620-EACH - GENERAL-PURPOSE FREESTANDING UNDERCOUNTER REFRIGERATOR (EACH)**



**VWR - 89425-620-EACH - General-Purpose Freestanding Undercounter Refrigerator (Each)**

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Item #: 6133866

MFR SKU: 89425-620-EACH

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**Description**

General-Purpose Freestanding Undercounter Refrigerator

The VWR General-Purpose Freestanding Undercounter Laboratory Refrigerator is the ideal choice for laboratories and pharmacies requiring undercounter or countertop applications with adequate space for ventilation.

Refrigerators are supplied preset at 4°C (39°F). The unit also includes leveling legs, keyed door locks, and an 0.95cm (3/8") probe access port. The unit features a solid door and white exterior finish.

Electrical: 120V, 2A Volume: 127 L (4.5 cu. ft.) Dimensions: 54.6W x 57.2D x 85H cm (21 1/2 x 22 1/2 x 33 1/2") Interior Dimensions: 48.8W x 41.9D x 71.1H cm (17 1/4 x 16 1/2 x 28") Defrost: Cycle Door Type: Solid Door Temperature Range: 0 to 10°C (32 to 50°F) Weight: 67 kg (148 lbs.) Unit: Each

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**Summit FS22LMEDSC 1.42 Cu ft Compact -20° C ACCUCOLD Lab Freezer** My Shortlist (0)

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Summit - Upright - Compact - 1.4 cubic foot

Ensure that your vaccines and medical supplies are safe with the high-tech Summit Accucold Lab Freezer (FS22LMEDSC). The built-in security lock adds extra convenience and safety and keeps your supplies secure from theft, and the hospital grade cord removes the risk of accidental power-down from tripping over the cord. Because of its size, you can easily store the freezer on a countertop or any small space in the room. The high temperature warning alarm notifies you when temperatures are about to reach unsafe levels, and the front display area shows you the current high and low temperatures for accuracy and monitoring. With a removable wire shelf included, this unit can store small or large things with relative ease, and the manual defrost ensures a stable temperature throughout the unit. With all of these features, it's a real winner.

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**Summit Medical All-Freezer FS20LMEDDT**

Commercially listed to NSF-7 standards and CalCode compliant

Compact cube size is ideal for countertop use

-20°C capable with manual defrost operation

Digital thermostat offers precise and convenient temperature control

High temperature alarm includes external temperature readout

Factory installed lock provides security you can count on

Includes a hospital grade cord with a 'green dot' plug

SUMMIT's MEDDT series all-freezers include advanced features for temperature precision in medical, scientific, pharmaceutical, and laboratory institutions.

The FS20LMEDDT is a commercially approved "cube" shaped all-freezer with a 20" footprint. The door includes a front lock and high temperature warning alarm that also displays the current and high/low temperatures. A digital thermostat ensures precise and convenient temperature management.

This manual defrost freezer can hold temperatures as low as -20°C, ideal for sensitive laboratory material or certain vaccines. Additional features include a hospital grade cord with 'green dot' plug.