City of WHITEWATER

Parks and Recreation Board Agenda
Wednesday, July 6, 2016 – 6:30 pm
Cravath Lakefront Conference Room
2nd Floor, Whitewater Municipal Building
312 W. Whitewater St. Whitewater, WI 53190

Call to Order and Roll Call

Consent Agenda:

CA-A	Approval of Parks and Recreation Board minutes of June 1, 2016

Hearing of Citizen Comments:
No formal action will be taken during this meeting, although issues raised may become part of a future agenda. Participants are allotted a 3 minute speaking period. Specific items listed on the agenda may not be discussed at this time; however, citizens are invited to speak to those issues as designated in the agenda.

Staff Reports:

Senior Coordinator	Starin Park Fitness Equipment; Fundraiser
Parks & Recreation Director	4th of July Parade, Improvement Project Update; Grand Opening Celebration at Starin Park; Staffing Update

Considerations:

C-1	Discussion and presentation related to Aquatic Center including May financial report and current pass holder report
C-2	Discussion and possible action related to lightning policy at Whitewater Aquatic Center
C-3	Discussion and possible action related to proposals received for fencing project in Cravath Lakefront Park
C-5	Request for future agenda items
C-6	Adjourn

Memo

To: Parks and Recreation Board

From: Matt Amundson, Parks and Recreation Director

Date: July 6, 2016

Re: July 6th Parks & Recreation Board Meeting

C-1 Discussion and presentation related to Aquatic Center including May financial report and current pass holder report

I have included in the support material the packet presented to the WAC Board last month that is current through the end of May. Debbie and I will present the information and ask any questions about the report in addition to providing an update on the first few days of operation at the Aquatic Center.

C-2 Discussion and possible action related to lightning policy at Whitewater Aquatic Center

I have included an article that Jeff Knight asked me to share with the Board. I also included an article from the National Lightning Safety Institute. I did have Delta Electric review the grounding of the facility and although not a technical review, Rich Rozelle shared that the facility is properly grounded. There may be some bonding that was not required in 2001 that would be if the pool was built today. I also spoke with Jason Krapfl from Carrico Aquatic Resources. Jason shared that more and more indoor pools are now clearing. The National Athletic Trainers Association (NATA), American College of Emergency Physicians, US Swimming, Inc and the YMCA Services Corporation all have recommended indoor pool activity suspension when nearby thunderstorms threaten. This is clearly an issue with people with strong opinions on what should be done. Debbie & I will be asking for direction from the Board related to this item in terms of application of a policy at the facility.

C-3 Discussion and possible action related to proposals received for the fencing project in Cravath Lakefront Park

I have received three proposals for this project that has a $25,000 budget in the CIP. The low bid is from Century Fence who we have worked with on several projects in the past. The low bid is $32,860 and I would like to take this item to Common Council for approval on July 19th. I have contacted Century regarding options to reduce the overall cost of the project if the Council so chooses including alternative materials or reduction in the amount of lineal feet proposed (such as the south side behind the depot). The photo below depicts what was requested in the proposal.

Your consideration of these matters is greatly appreciated.

Thanks!
Matt Amundson, CPRP
Parks & Recreation Director

Parks & Recreation Project Update (July 2016)

1. **Piers on Cravath & Trippe:** DPW has picked up needed materials and is on the schedule for installation
2. **Effigy Mounds Signage:** Boulders need to be placed on site
3. **Lake Harvesting:** The first harvest was completed between 6/13-6/13 by Midwest Aquatics, they removed approximately 250 cubic yards of plant matter. Shortly after leaving, green filamentous algae (that grows over the winter, under the ice in the lake sediment and then dies in warm temperatures) floated to the surface. This algae is typically broken up by heaving rains or wind. Midwest Aquatics is available to return the week of July 18th for a second harvest.
4. **Dredging Feasibility Study:** The consultant has created a map of the proposed dredging locations and submitted for DNR approval, once approved he can begin sediment sampling.
5. **Cravath Lakefront Fence:** Proposals have been received, PRB on 7/6, Council on 7/19
6. **Bike/Ped Way finding Signage:** Anticipate proposals being due prior to PRB on 8/17 and go to Council on 9/6
7. **Municipal Building Keyless Entry:** Proposals going to Council on 7/19
8. **WAC Carpet:** Have contacted companies to give proposals to replace carpet in lobby, offices and hallway
9. **WAC LED Lighting:** Facilities staff has replaced lights in hallway and will soon be scheduling installation for lobby and lap pool
10. **WAC Fitness Equipment:** Debbie and Matt met with Jen Kaina and Direct Fitness Solutions who provides UW-W's equipment. Will be bringing in demo equipment soon as we work on creative solutions to replace equipment. UW-W purchases through State Contract pricing with Direct Fitness Solutions who would provide same pricing to Parks & Recreation. Also researching the ability to refurbish 3 year old treadmills the University is replacing.
11. **WAC Signage:** Awaiting logo for facility

2016 Completed Projects:

- Starin Way finding & Refuse
- Outdoor Fitness Equipment
- Restroom & Concession Building

City of Whitewater
Parks and Recreation Board
Minutes
Wednesday, June 1, 2016 - 5:30 pm
Cravath Lakefront Room – 2nd Floor, Whitewater Municipal Building
312 W. Whitewater St. Whitewater, WI 53190

Call to Order and Roll Call
Bruce Parker, Kori Oberle, Nate Jaeger, Brandon Knedler, Steve Ryan, and Chris Grady
Absent: Jen Kaina, Ken Kidd, Larry Kachel and Rachel Deporter
Staff: Matt Amundson, Debbie Oas, and Michelle Dujardin
Guests: None

Consent Agenda:
Approval of Parks and Recreation Board minutes of May 18, 2016
No items to be removed from consent agenda. Grady moved to accept the consent agenda. Second by Jaeger. Ayes: Nate Jaeger, Bruce Parker, Brandon Knedler, Steve Ryan, Chris Grady, and Kori Oberle. Noes: None. Abstain: None. Absent: Jen Kaina, Rachel Deporter, Larry Kachel and Ken Kidd.

Hearing of Citizen Comments:
No formal action will be taken during this meeting, although issues raised may become part of a future agenda. Participants are allotted a 3 minute speaking period. Specific items listed on the agenda may not be discussed at this time; however, citizens are invited to speak to those issues as designated in the agenda.

No Citizen Comments

Considerations:
Discussion and possible action related to the Whitewater Aquatic Center Operations Manual
Amundson introduced the manual as a working document and invited Debbie Oas to explain the manual and ask the boards opinion on needed subjects.

Larry Kachel arrives at 5:35pm

Oas asked the board suggestions on a Inclement Weather Policy. Amundson suggested the facility be open as much as possible but making sure safety is the number one concern. Ryan suggested using staff within a certain mileage from the facility on inclement weather days. Jaeger suggested not tying any policy to the school district decisions. The board suggested keeping the facility open as much as possible, but leave program cancelations due to inclement weather at the digression of staff.

Oas asked the board suggestion on changing the word “member” to possibly; patrons, yearly pass holders, or customers. The board agreed with the changing of the word “member” and directed Oas to select the best fit word.

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Knedler moved to accept the Whitewater Aquatic Center Operations Manual with the noted changes, review from the City Attorney, and that the manual will return monthly to the board for review and suggestions. Second by Grady. Ayes: Nate Jaeger, Bruce Parker, Brandon Knedler, Steve Ryan, Chris Grady, Larry Kachel, and Kori Oberle. Noes: None. Abstain: None. Absent: Jen Kaina, Rachel Deporter, and Ken Kidd.

Discussion and possible action on the creation of an ad-hoc committee for the Whitewater Aquatic Center.
Amundson introduced the topic and possibility of creating an ad-hoc committee. Knedler shared concerns that creating a committee might delay items due to the frequency of meeting times. Ryan shared concerns of the need of the committee to help look at the manual without taking up valuable time at Park & Recreation Board meetings. Grady shared concerns of the need of the committee to help focus on items such as marketing. Knedler and Parker shared concerns of creating a committee to early and not allowing staff time to start the job process.

The board directed staff to work with J-Hawks and to get rolling with the facility change over on July 1st, and the need for an ad-hoc committee will be determined after a few months.

Discussion and possible action related to the scheduling of future Parks & Recreation Board meetings.
Amundson stated that at the last meeting, the dates of the future board meetings would be the first Wednesday of each month. Amundson suggested we change this meeting date due to the ability to supply financial reports from the previous month in a timely manner.

The July & August Parks & Recreation Board Meetings dates have been set for:
Wednesday, July 6th at 6:30pm
Wednesday, August 17th at 6:30pm
Monday, August 29th at 6:30pm (This meeting is tentative and based on Aquatic Center discussion needs)

Discussion and possible action on request from "Just Bling It" to be a vendor at Starin Park and similar future requests
Amundson introduced the "Just Bling It" email that has asked to set up a table at Starin Park during a baseball tournament. The email states that the company is willing to pay a flat fee or give 20% back to the department.

The board directed Amundson to offer the company the current Tournament Sponsor package that everyone is offered at $500. They also suggested using this same practice to any company asking in the future.

Request for future agenda items
Logo
6 Month Plan from the Aquatic Center
August Meeting- Site plans for Minneiska Park & Clay Street Nature Park

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Adjourn to Park Tour
Parker moved to adjourn at 6:47 to the annual park tour. Second by Kachel. Ayes: Nate Jaeger, Bruce Parker, Brandon Knedler, Steve Ryan, Chris Grady, Larry Kachel, and Kori Oberle. Noes: None. Abstain: None. Absent: Jen Kaina, Rachel Deporter, and Ken Kidd.

Next scheduled meeting: Wednesday, July 6th, 6:30 pm

Respectfully submitted,
Michelle Dujardin

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Day Pass Purchases

	2014						2015												2016				
	July	August	Sept	October	Nov	Dec	Jan	Feb	March	April	May	June	July	August	Sept	October	Nov	Dec	Jan	Feb	Mar	April	May
Resident 10 Pk	19	10	11	13	6	12	11	8	5	5	3	3	1	5	6	3	10	12	16	6	5	3	8
Non-Resident 10 Pk	0	3	7	7	7	13	12	4	4	1	5	5	0	5	4	7	3	11	10	8	9	10	8
Resident Adult	610	282	189	135	211	398	339	313	360	369	338	335	292	275	181	192	212	248	325	339	373	352	291
Non-Resident Adult	0	378	170	154	251	445	610	550	625	518	250	395	345	291	178	166	360	475	639	630	791	544	382
Resident Youth	259	442	102	134	144	140	209	170	350	169	265	336	357	289	96	81	162	130	194	275	343	186	139
Non-Resident Youth	0	471	158	132	255	487	571	465	690	620	327	402	371	413	189	167	288	312	555	561	971	501	278
Resident Senior	29	6	3	1	0	5	2	4	5	0	1	4	0	0	5	3	0	0	0	0	1	2	0
Non-Resident Senior	0	13	3	1	5	6	5	2	3	3	1	7	0	0	2	7	1	0	2	1	0	0	2
Total day passes	**917**	**1605**	**643**	**577**	**879**	**1506**	**1759**	**1516**	**2042**	**1685**	**1190**	**1487**	**1366**	**1278**	**661**	**626**	**1036**	**1188**	**1741**	**1820**	**2493**	**1598**	**1108**
Resident 10 Pk	2.1%	0.6%	1.7%	2.3%	0.7%	0.8%	0.6%	0.5%	0.2%	0.3%	0.3%	0.2%	0.1%	0.4%	0.9%	0.5%	1.0%	1.0%	0.9%	0.3%	0.2%	0.2%	0.7%
Non-Resident 10 Pk	0.0%	0.2%	1.1%	1.2%	0.8%	0.9%	0.7%	0.3%	0.2%	0.1%	0.4%	0.3%	0.0%	0.4%	0.6%	1.1%	0.3%	0.9%	0.6%	0.4%	0.4%	0.6%	0.7%
Resident Adult	66.5%	17.6%	29.4%	23.4%	24.0%	26.4%	19.3%	20.6%	17.6%	21.9%	28.4%	22.5%	21.4%	21.5%	27.4%	30.7%	20.5%	20.9%	18.7%	18.6%	15.0%	22.0%	26.3%
Non-Resident Adult	0.0%	23.6%	26.4%	26.7%	28.6%	29.5%	34.7%	36.3%	30.6%	30.7%	21.0%	26.6%	25.3%	22.8%	26.9%	26.5%	34.7%	40.0%	36.7%	34.6%	31.7%	34.0%	34.5%
Resident Youth	28.2%	27.5%	15.9%	23.2%	16.4%	9.3%	11.9%	11.2%	17.1%	10.0%	22.3%	22.6%	26.1%	22.6%	14.5%	12.9%	15.6%	10.9%	11.1%	15.1%	13.8%	11.6%	12.5%
Non-Resident Youth	0.0%	29.3%	24.6%	22.9%	29.0%	32.3%	32.5%	30.7%	33.8%	36.8%	27.5%	27.0%	27.2%	32.3%	28.6%	26.7%	27.8%	26.3%	31.9%	30.8%	38.9%	31.4%	25.1%
Resident Senior	3.2%	0.4%	0.5%	0.2%	0.0%	0.3%	0.1%	0.3%	0.2%	0.0%	0.1%	0.3%	0.0%	0.0%	0.8%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Non-Resident Senior	0.0%	0.8%	0.5%	0.2%	0.6%	0.4%	0.3%	0.1%	0.1%	0.2%	0.1%	0.5%	0.0%	0.0%	0.3%	1.1%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.2%
Groups																							
Resident	16	38	80	0	104	101	0	0	79	110	15	339	80	80	0	15	0	0	0	0	0	204	560
Non-Resident	45	93	15	17	15	199	166	253	278	50	190	508	70	414	673	381	89	189	501	469	266	307	242
B-Day Party attendees	64	51	107	73	244	238	196	439	390	346	211	103	62	184	97	125	207	288	338	411	513	377	187
Total Groups	**125**	**182**	**202**	**90**	**363**	**538**	**362**	**692**	**747**	**506**	**416**	**950**	**212**	**678**	**770**	**521**	**296**	**477**	**839**	**880**	**779**	**888**	**989**
Total Resident	**933**	**778**	**385**	**283**	**465**	**656**	**561**	**495**	**799**	**653**	**622**	**1017**	**730**	**649**	**288**	**294**	**384**	**390**	**535**	**620**	**722**	**747**	**998**
Total Non-Resident	**45**	**958**	**353**	**311**	**533**	**1150**	**1364**	**1274**	**1600**	**1192**	**773**	**1317**	**786**	**1123**	**1046**	**728**	**741**	**987**	**1707**	**1669**	**2037**	**1362**	**912**
	978	**1736**	**738**	**594**	**998**	**1806**	**1925**	**1769**	**2399**	**1845**	**1395**	**2334**	**1516**	**1772**	**1334**	**1022**	**1125**	**1377**	**2242**	**2289**	**2759**	**2109**	**1910**
Total Resident	**95%**	**45%**	**52%**	**48%**	**47%**	**36%**	**29%**	**28%**	**33%**	**35%**	**45%**	**44%**	**48%**	**37%**	**22%**	**29%**	**34%**	**28%**	**24%**	**27%**	**26%**	**35%**	**52%**
Total Non-Resident	**5%**	**55%**	**48%**	**52%**	**53%**	**64%**	**71%**	**72%**	**67%**	**65%**	**55%**	**56%**	**52%**	**63%**	**78%**	**71%**	**66%**	**72%**	**76%**	**73%**	**74%**	**65%**	**48%**
Total Check-ins	**4538**	**4174**	**3658**	**3696**	**3794**	**3801**	**4532**	**4323**	**4775**	**4284**	**3675**	**4117**	**4234**	**4094**	**3586**	**3459**	**3677**	**2568**	**4850**	**4634**	**4718**	**4462**	**3778**
Silver Sneakers	**167**	**206**	**178**	**208**	**137**	**162**	**132**	**159**	**300**	**301**	**280**	**316**	**317**	**354**	**371**	**446**	**447**	**453**	**499**	**512**	**522**	**519**	**466**
enrolled	**32**	**36**	**44**	**64**	**34**	**35**	**34**	**37**	**37**	**57**	**79**	**125**	**127**	**143**	**154**	**176**	**179**	**189**	**207**	**209**	**218**	**219**	**474**
Free Friday 1st 5-7 pm	**0**	**6**	**17**	**7**	**25**	**8**	**4**	**29**	**25**	**6**	**19**	**12**	**7**	**9**	**23**	**14**	**9**	**16**	**4**	**39**	**33**	**38**	**8**
Total Traffic	**5811**	**6224**	**4805**	**4651**	**5442**	**6253**	**6985**	**7158**	**8279**	**7128**	**5791**	**6985**	**6198**	**6597**	**5508**	**5191**	**5672**	**4990**	**8271**	**8296**	**9058**	**7882**	**6536**
						33,186						**75,512**						**76,482**					
												1 year						2015					

Whitewater Aquatic Center Inc.
Profit & Loss
January through May 2016

	Jan 16	Feb 16	Mar 16	Apr 16	May 16	TOTAL
Ordinary Income/Expense						
Income						
40000 · Memberships						
40001 · Family Memberships	10,487.04	7,299.13	11,925.90	9,745.74	7,939.89	47,397.70
40002 · Adult Memberships	3,942.07	4,160.54	3,204.13	3,979.71	3,221.43	18,507.88
40003 · Youth Memberships	609.08	148.46	30.00	0.00	277.76	1,065.30
40004 · Senior Memberships	4,663.22	2,455.59	1,899.53	2,485.38	2,250.17	13,753.89
40005 · Couple Memberships	4,690.36	2,817.36	5,549.00	4,086.96	3,800.45	20,944.13
40007 · Heathways Payment-Silver Sneak	898.50	1,108.50	1,217.50	1,117.50	1,115.00	5,457.00
Total 40000 · Memberships	25,290.27	17,989.58	23,826.06	21,415.29	18,604.70	107,125.90
40010 · Day Passes						
40011 · Adult Day Passes	6,992.62	7,742.95	9,331.50	6,812.90	5,681.30	36,561.27
40012 · Youth Day Passes	4,943.98	5,768.44	9,638.64	5,312.62	3,332.36	28,996.04
40013 · Senior Day Passes	15.16	7.58	6.64	13.28	668.25	710.91
40020 · Group Rates	3,083.18	4,039.72	2,299.66	3,576.72	5,087.86	18,087.14
Total 40010 · Day Passes	15,034.94	17,558.69	21,276.44	15,715.52	14,769.77	84,355.36
40040 · Classes-Programming						
40042 · Swim Lessons	4,501.50	3,210.00	4,369.00	3,839.96	3,962.00	19,882.46
40044 · Summer School Swim Lessons	0.00	216.00	0.00	0.00	0.00	216.00
40046 · Lifeguard Classes	0.00	0.00	700.00	325.00	143.49	1,168.49
40047 · WSI Classes	0.00	0.00	1,100.00	1,750.00	500.00	3,350.00
40048 · Land Fitness Classes	105.00	30.00	0.00	0.00	0.00	135.00
40066 · Water Classes	20.00	0.00	180.00	-180.00	0.00	20.00
Total 40040 · Classes-Programming	4,626.50	3,456.00	6,349.00	5,734.96	4,605.49	24,771.95
40050 · Rental Income						
40052 · Meeting Room Rental	370.00	265.00	-250.00	40.00	145.00	570.00
40053 · Whitewater School Distt Rental	0.00	555.00	0.00	0.00	0.00	555.00
40054 · Birthday Parties	3,339.50	3,961.50	4,904.50	4,152.00	2,005.91	18,363.41
Total 40050 · Rental Income	3,709.50	4,781.50	4,654.50	4,192.00	2,150.91	19,488.41
40060 · Other Incomes						
40065 · Life Guard Reimbursement WHS	829.00	0.00	0.00	0.00	0.00	829.00
40070 · Gift Certificates	-653.08	7.49	-116.00	-1.50	-9.01	-772.10
40071 · Massage	56.88	56.88	56.88	113.76	28.44	312.84
Total 40060 · Other Incomes	232.80	64.37	-59.12	112.26	19.43	369.74
40063 · Personal Training Income	120.00	120.00	0.00	0.00	0.00	240.00
40080 · Concessions Stand	5,258.24	5,653.35	6,429.43	5,174.37	5,273.14	27,788.53
40090 · Pro-Shop Income	413.51	636.97	797.92	508.32	396.09	2,752.81
40802 · Interest Earned - Endowment	4.46	4.80	4.80	4.49	4.96	23.51
40998 · State Sales Tax	14.71	0.74	26.30	13.92	1,762.85	1,818.52
40999 · County Sales Tax	-1.86	9.57	-1.79	-1.87	173.72	177.77
Total Income	54,703.07	50,275.57	63,303.54	52,869.26	47,761.06	268,912.50
Expense						
50001 · Administrative Expenses						
50002 · Office Supplies	39.00	19.95	0.00	0.00	0.00	58.95
50005 · Supplies - Checks	0.00	0.00	0.00	0.00	219.00	219.00
50006 · Insurance	2,460.42	1,853.12	1,853.12	3,727.12	1,852.12	11,745.90
50007 · Telephone	454.07	455.05	455.91	455.91	455.70	2,276.64
50011 · Member Key tags admission pass	0.00	295.00	0.00	0.00	0.00	295.00
50013 · Cleaning & Supplies	924.71	1,500.40	1,175.95	822.00	715.84	5,138.90
50020 · Credit Card Processing Costs	544.46	691.29	744.41	896.15	838.59	3,714.90
50021 · Bank Charges	368.95	101.15	90.25	90.00	95.40	745.75
50025 · Computer Tech Support	140.00	140.00	140.00	140.00	639.00	1,199.00
50030 · Family Partnership Payouts	238.50	0.00	590.50	572.50	333.75	1,735.25
Total 50001 · Administrative Expenses	5,170.11	5,055.96	5,050.14	6,703.68	5,149.40	27,129.29
60000 · Pool Expenses						
60001 · Lifeguard Supplies	421.00	27.00	407.43	0.00	0.00	855.43
60003 · WSI Class expenses	0.00	0.00	0.00	0.00	870.00	870.00
60004 · Lifeguard Class Expenses	0.00	0.00	0.00	0.00	1,091.00	1,091.00
60005 · General Pool Maintenance	948.05	382.57	342.44	460.35	212.65	2,346.06
60040 · Pool Chemicals	1,500.00	1,500.00	1,500.00	1,848.52	1,500.00	7,848.52
Total 60000 · Pool Expenses	2,869.05	1,909.57	2,249.87	2,308.87	3,673.65	13,011.01
60150 · Utilities						
60151 · Electric	8,570.80	8,102.10	7,981.36	8,427.70	7,928.47	41,010.43
60152 · Gas	5,653.30	6,547.59	5,571.28	3,657.38	3,116.98	24,546.53
60153 · Water-Sewer	2,636.47	2,665.29	2,635.55	2,569.19	2,374.00	12,880.50
Total 60150 · Utilities	16,860.57	17,314.98	16,188.19	14,654.27	13,419.45	78,437.46
66000 · Payroll Expenses						
66001 · Fitness Salary	1,848.00	1,848.00	1,386.00	0.00	0.00	5,082.00
66003 · Fitness Desk	232.50	114.00	559.75	1,433.50	918.50	3,258.25
66004 · Fitness Group	108.00	175.50	327.75	117.00	120.00	848.25
66005 · Massage	30.00	67.50	50.00	100.00	50.00	297.50
66006 · Management Assistant	1,980.00	2,250.00	3,450.00	2,300.00	2,323.08	12,303.08
66007 · Aquatic Salary	1,848.00	1,386.00	0.00	0.00	0.00	3,234.00
66009 · Head Guard	3,684.50	2,373.75	1,911.00	858.00	2,209.00	11,036.25
66010 · Life Guard	7,390.81	9,236.14	15,461.53	10,441.12	9,479.52	52,009.12
66011 · WSI Aide	0.00	68.75	46.25	0.00	0.00	115.00
66012 · WSI Certified	18.00	117.00	130.50	0.00	507.00	772.50
66013 · Water Group	1,593.25	959.00	1,368.00	1,196.50	413.25	5,530.00
66015 · Front Desk	4,225.75	4,396.25	6,154.00	3,061.25	3,282.50	21,119.75

Whitewater Aquatic Center Inc.
Profit & Loss
January through May 2016

	Jan 16	Feb 16	Mar 16	Apr 16	May 16	TOTAL
66018 · Maintenance	36.00	63.00	130.50	486.00	0.00	715.50
66800 · Unemployment Payments	0.00	0.00	0.00	5,827.32	0.00	5,827.32
66997 · Land Fitness Instructors	0.00	20.00	60.00	40.00	0.00	120.00
66998 · Pool Labor	3,430.00	1,680.00	1,610.00	1,389.64	1,120.00	9,229.64
66999 · Management-Director	3,230.76	3,230.76	4,846.14	3,230.76	3,230.76	17,769.18
66000 · Payroll Expenses - Other	3,077.07	2,005.62	2,628.00	2,128.75	2,491.88	12,531.32
Total 66000 · Payroll Expenses	32,732.64	29,991.27	40,319.42	32,609.84	26,145.49	161,798.66
70011 · Land Fitness Special Events	0.00	0.00	48.00	0.00	0.00	48.00
90001 · Concessions	3,512.48	4,162.65	4,475.75	5,823.61	4,380.42	22,354.91
90002 · Pro-Shop Inventory	0.00	450.35	261.85	439.36	0.00	1,151.56
Total Expense	61,144.85	58,884.78	68,593.22	62,539.63	52,768.41	303,930.89
Net Ordinary Income	-6,441.78	-8,609.21	-5,289.68	-9,670.37	-5,007.35	-35,018.39
Other Income/Expense						
Other Income						
99900 · Public Money	78,000.00	0.00	0.00	0.00	0.00	78,000.00
99989 · Fund Raising						
99993 · Capital Campaign	330.00	130.00	120.00	120.00	120.00	820.00
Total 99989 · Fund Raising	330.00	130.00	120.00	120.00	120.00	820.00
Total Other Income	78,330.00	130.00	120.00	120.00	120.00	78,820.00
Other Expense						
80000 · Equipment Replacement						
80010 · Leisure Pool - Equipment replac	824.23	0.00	755.21	0.00	0.00	1,579.44
80011 · Lap Pool - Equipment Replacemen	310.86	0.00	0.00	0.00	0.00	310.86
80012 · Whirlpool Equipment Replacement	0.00	752.78	0.00	1,253.45	0.00	2,006.23
80014 · Concessions Equipment	0.00	377.17	0.00	552.75	0.00	929.92
80025 · HVAC Equipment Replacement	1,857.53	0.00	2,642.43	0.00	0.00	4,499.96
80027 · Locker Room replacement	101.43	0.00	0.00	0.00	5,505.94	5,607.37
Total 80000 · Equipment Replacement	3,094.05	1,129.95	3,397.64	1,806.20	5,505.94	14,933.78
99999 · Voided Checks	0.00	0.00	0.00	0.00	0.00	0.00
Total Other Expense	3,094.05	1,129.95	3,397.64	1,806.20	5,505.94	14,933.78
Net Other Income	75,235.95	-999.95	-3,277.64	-1,686.20	-5,385.94	63,886.22
Net Income	68,794.17	-9,609.16	-8,567.32	-11,356.57	-10,393.29	28,867.83

Whitewater Aquatic Center Inc.
Profit & Loss
January through May 2016

	Jan - May 16	Jan - May 15	$ Change	% Change
Ordinary Income/Expense				
Income				
40000 · Memberships				
40001 · Family Memberships	47,397.70	46,988.98	408.72	0.87%
40002 · Adult Memberships	18,507.88	20,608.72	-2,100.84	-10.19%
40003 · Youth Memberships	1,065.30	2,070.90	-1,005.60	-48.56%
40004 · Senior Memberships	13,753.89	14,188.07	-434.18	-3.06%
40005 · Couple Memberships	20,944.13	20,882.77	61.36	0.29%
40007 · Heathways Payment-Silver Sneak	5,457.00	2,723.75	2,733.25	100.35%
Total 40000 · Memberships	107,125.90	107,463.19	-337.29	-0.31%
40010 · Day Passes				
40011 · Adult Day Passes	36,561.27	30,769.10	5,792.17	18.83%
40012 · Youth Day Passes	28,996.04	28,795.54	200.50	0.7%
40013 · Senior Day Passes	710.91	185.80	525.11	282.62%
40020 · Group Rates	18,087.14	10,288.03	7,799.11	75.81%
Total 40010 · Day Passes	84,355.36	70,038.47	14,316.89	20.44%
40040 · Classes-Programming				
40041 · Land Special Events	0.00	756.00	-756.00	-100.0%
40042 · Swim Lessons	19,882.46	24,607.00	-4,724.54	-19.2%
40044 · Summer School Swim Lessons	216.00	0.00	216.00	100.0%
40046 · Lifeguard Classes	1,168.49	8,100.00	-6,931.51	-85.57%
40047 · WSI Classes	3,350.00	1,900.00	1,450.00	76.32%
40048 · Land Fitness Classes	135.00	2,016.00	-1,881.00	-93.3%
40066 · Water Classes	20.00	195.00	-175.00	-89.74%
Total 40040 · Classes-Programming	24,771.95	37,574.00	-12,802.05	-34.07%
40050 · Rental Income				
40051 · Pool Rental	0.00	522.00	-522.00	-100.0%
40052 · Meeting Room Rental	570.00	673.51	-103.51	-15.37%
40053 · Whitewater School Distt Rental	555.00	0.00	555.00	100.0%
40054 · Birthday Parties	18,363.41	16,526.69	1,836.72	11.11%
Total 40050 · Rental Income	19,488.41	17,722.20	1,766.21	9.97%
40060 · Other Incomes				
40065 · Life Guard Reimbursement WHS	829.00	0.00	829.00	100.0%
40070 · Gift Certificates	-772.10	-975.82	203.72	20.88%
40071 · Massage	312.84	305.96	6.88	2.25%
Total 40060 · Other Incomes	369.74	-669.86	1,039.60	155.2%
40063 · Personal Training Income	240.00	405.00	-165.00	-40.74%
40080 · Concessions Stand	27,788.53	24,262.83	3,525.70	14.53%
40090 · Pro-Shop Income	2,752.81	2,908.30	-155.49	-5.35%
40802 · Interest Earned - Endowment	23.51	14.43	9.08	62.92%
40998 · State Sales Tax	1,818.52	-173.91	1,992.43	1,145.67%
40999 · County Sales Tax	177.77	35.50	142.27	400.76%
Total Income	268,912.50	259,580.15	9,332.35	3.6%
Expense				
50001 · Administrative Expenses				
50002 · Office Supplies	58.95	59.00	-0.05	-0.09%
50005 · Supplies - Checks	219.00	0.00	219.00	100.0%
50006 · Insurance	11,745.90	11,302.49	443.41	3.92%
50007 · Telephone	2,276.64	3,161.81	-885.17	-28.0%
50010 · Permits & Fees	0.00	655.00	-655.00	-100.0%
50011 · Member Key tags admission pass	295.00	671.96	-376.96	-56.1%
50013 · Cleaning & Supplies	5,138.90	5,841.77	-702.87	-12.03%
50020 · Credit Card Processing Costs	3,714.90	3,310.81	404.09	12.21%
50021 · Bank Charges	745.75	723.73	22.02	3.04%
50025 · Computer Tech Support	1,199.00	1,782.00	-583.00	-32.72%
50030 · Family Partnership Payouts	1,735.25	888.50	846.75	95.3%
50040 · Chamber Dues & Expenses	0.00	250.00	-250.00	-100.0%
50090 · Fitness Class Supplies	0.00	19.26	-19.26	-100.0%
Total 50001 · Administrative Expenses	27,129.29	28,666.33	-1,537.04	-5.36%
60000 · Pool Expenses				
60001 · Lifeguard Supplies	855.43	195.00	660.43	338.68%
60002 · First Aid	0.00	166.52	-166.52	-100.0%

Whitewater Aquatic Center Inc.
Profit & Loss
January through May 2016

	Jan - May 16	Jan - May 15	$ Change	% Change
60003 · WSI Class expenses	870.00	580.00	290.00	50.0%
60004 · Lifeguard Class Expenses	1,091.00	1,876.00	-785.00	-41.84%
60005 · General Pool Maintenance	2,346.06	1,726.77	619.29	35.86%
60030 · Pool Equipment	0.00	329.97	-329.97	-100.0%
60040 · Pool Chemicals	7,848.52	4,166.64	3,681.88	88.37%
Total 60000 · Pool Expenses	13,011.01	9,040.90	3,970.11	43.91%
60150 · Utilities				
60151 · Electric	41,010.43	40,984.16	26.27	0.06%
60152 · Gas	24,546.53	30,831.45	-6,284.92	-20.39%
60153 · Water-Sewer	12,880.50	8,669.96	4,210.54	48.57%
Total 60150 · Utilities	78,437.46	80,485.57	-2,048.11	-2.55%
66000 · Payroll Expenses				
66001 · Fitness Salary	5,082.00	10,164.00	-5,082.00	-50.0%
66003 · Fitness Desk	3,258.25	1,660.67	1,597.58	96.2%
66004 · Fitness Group	848.25	981.75	-133.50	-13.6%
66005 · Massage	297.50	220.00	77.50	35.23%
66006 · Management Assistant	12,303.08	990.00	11,313.08	1,142.74%
66007 · Aquatic Salary	3,234.00	10,164.00	-6,930.00	-68.18%
66009 · Head Guard	11,036.25	13,992.85	-2,956.60	-21.13%
66010 · Life Guard	52,009.12	46,268.87	5,740.25	12.41%
66011 · WSI Aide	115.00	0.00	115.00	100.0%
66012 · WSI Certified	772.50	1,402.95	-630.45	-44.94%
66013 · Water Group	5,530.00	5,662.90	-132.90	-2.35%
66015 · Front Desk	21,119.75	24,192.23	-3,072.48	-12.7%
66016 · Maintenance	715.50	297.00	418.50	140.91%
66800 · Unemployment Payments	5,827.32	0.00	5,827.32	100.0%
66997 · Land Fitness Instructors	120.00	420.00	-300.00	-71.43%
66998 · Pool Labor	9,229.64	5,355.00	3,874.64	72.36%
66999 · Management-Director	17,769.18	17,769.18	0.00	0.0%
66000 · Payroll Expenses - Other	12,531.32	10,562.62	1,968.70	18.64%
Total 66000 · Payroll Expenses	161,798.66	150,104.02	11,694.64	7.79%
70001 · Marketing				
70015 · Advertising-general	0.00	75.00	-75.00	-100.0%
Total 70001 · Marketing	0.00	75.00	-75.00	-100.0%
70011 · Land Fitness Special Events	48.00	228.10	-180.10	-78.96%
90001 · Concessions	22,354.91	18,243.32	4,111.59	22.54%
90002 · Pro-Shop Inventory	1,151.56	1,826.24	-674.68	-36.94%
Total Expense	303,930.89	288,669.48	15,261.41	5.29%
Net Ordinary Income	-35,018.39	-29,089.33	-5,929.06	-20.38%
Other Income/Expense				
Other Income				
99900 · Public Money	78,000.00	78,000.00	0.00	0.0%
99989 · Fund Raising				
99993 · Capital Campaign	820.00	1,816.00	-996.00	-54.85%
Total 99989 · Fund Raising	820.00	1,816.00	-996.00	-54.85%
Total Other Income	78,820.00	79,816.00	-996.00	-1.25%
Other Expense				
80000 · Equipment Replacement				
80010 · Leisure Pool - Equipment replac	1,579.44	0.00	1,579.44	100.0%
80011 · Lap Pool - Equipment Replacemen	310.86	0.00	310.86	100.0%
80012 · Whirlpool Equipment Replacement	2,006.23	267.20	1,739.03	650.84%
80014 · Concessions Equipment	929.92	0.00	929.92	100.0%
80025 · HVAC Equipment Replacement	4,499.96	18,026.94	-13,526.98	-75.04%
80027 · Locker Room replacement	5,607.37	167.25	5,440.12	3,252.69%
Total 80000 · Equipment Replacement	14,933.78	18,461.39	-3,527.61	-19.11%
99999 · Voided Checks	0.00	0.00	0.00	0.0%
Total Other Expense	14,933.78	18,461.39	-3,527.61	-19.11%
Net Other Income	63,886.22	61,354.61	2,531.61	4.13%
Net Income	28,867.83	32,265.28	-3,397.45	-10.53%

Green = actuals	Proposal	2009	2010	2011	2012	2013	2014	2015	$2,016.00	$2,017.00	$2,018.00	$2,019.00	$2,020.00
Ordinary Income/Expense													
Income													
40000 · Memberships	$177,188.00	$274,038.87	$270,683.49	$258,932.78	$271,698.24	$252,845.53	$231,894.38	$240,660.49	$250,286.91	$260,298.39	$270,710.32	$281,538.73	$292,800.28
40010 · Day Passes	$148,188.00	$101,882.77	$127,524.29	$142,026.48	$133,442.60	$138,875.15	$146,419.25	$145,461.36	$151,279.81	$157,331.01	$163,624.25	$170,169.22	$176,975.99
40040 · Classes-Programming	$54,500.00	$40,946.29	$67,978.99	$65,242.94	$80,673.60	$71,055.96	$82,114.38	$77,257.28	$80,347.57	$83,561.47	$86,903.93	$90,380.09	$93,995.29
40050 · Rental Income	$2,500.00	$21,182.90	$23,057.37	$20,943.90	$23,601.39	$28,944.03	$27,539.80	$30,943.71	$32,181.46	$33,468.72	$34,807.47	$36,199.76	$37,647.75
40060 · Other Incomes		$5,158.92	$5,430.04	$4,521.20	$6,782.68	$1,292.65	$1,449.26	$804.92	$837.12	$870.60	$905.43	$941.64	$979.31
40063 · Personal Training Income		$815.95	$2,738.72	$4,177.56	$4,676.76	$2,708.00	$1,080.00	$1,475.00	$1,534.00	$1,595.36	$1,659.17	$1,725.54	$1,794.56
40080 · Concessions Stand	$75,000.00	$32,556.21	$33,331.91	$33,621.26	$40,722.39	$42,144.31	$49,183.27	$52,953.74	$55,071.89	$57,274.77	$59,565.76	$61,948.39	$64,426.32
40090 · Pro-Shop Income	$3,000.00	$4,141.41	$4,772.42	$5,680.84	$5,429.75	$5,970.34	$6,690.65	$10,665.72	$11,092.35	$11,536.04	$11,997.48	$12,477.38	$12,976.48
40802 · Interest Earned - Endowment		$688.25	$270.97	$108.35	$115.01	$74.77	$21.60	$49.72	$51.71	$53.78	$55.93	$58.17	$60.49
40810 · Family Partnership Contributio		$3,080.00	$4,272.00	$2,787.00	$2,215.00	$6,729.50	$1,516.05	$3,480.00	$3,536.00	$3,677.44	$3,824.54	$3,977.52	$4,136.62
40811 · Interest Earned - FFP		$2.93	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Total Income	$485,376.00	$484,494.50	$540,060.20	$538,042.23	$549,357.42	$550,648.24	$547,908.64	$563,671.94	$586,218.82	$609,667.57	$634,054.27	$659,416.44	$685,793.10
Expense													
50001 · Administrative Expenses	$72,000.00	$73,919.21	$75,635.36	$60,058.42	$60,800.07	$63,151.97	$56,824.73	$59,587.81	$60,779.57	$61,995.16	$63,235.06	$64,499.76	$65,789.76
60000 · Pool Expenses		$19,369.76	$22,959.15	$20,258.51	$21,600.32	$19,565.85	$20,349.13	$20,506.36	$20,916.49	$21,334.82	$21,761.51	$22,196.74	$22,640.68
60010 · HVAC Supplies		$2,224.64	$4,286.97	$2,511.48	$1,514.28	$980.37	$1,136.32	$1,131.46	$1,154.09	$1,177.17	$1,200.71	$1,224.73	$1,249.22
60150 · Utilities													
60151 · Electric	$71,500.00	$98,907.49	$111,155.17	$102,303.29	$94,391.86	$100,245.21	$102,288.00	$100,115.03	$105,120.78	$110,376.82	$115,895.66	$121,690.44	$127,774.97
60152 · Gas		$75,121.23	$77,267.39	$27,604.74	$49,939.41	$47,935.38	$68,035.24	$45,780.48	$48,985.11	$52,414.07	$56,083.06	$60,008.87	$64,209.49
60153 · Water-Sewer	$10,000.00	$15,266.53	$20,990.66	$19,735.16	$23,102.46	$19,593.26	$18,274.17	$19,126.50	$30,000.00	$30,600.00	$31,212.00	$31,836.24	$32,472.96
Total 60150 · Utilities		$189,295.25	$209,413.22	$149,643.19	$167,433.73	$167,773.85	$188,597.41	$165,022.01	$184,105.90	$193,390.89	$203,190.72	$213,535.56	$224,457.42
66000 · Payroll Expenses	$465,366.00	$382,498.71	$387,511.43	$391,828.40	$416,255.76	$394,301.07	$375,261.96	$368,874.60	$376,252.09	$383,777.13	$391,452.68	$399,281.73	$407,267.36
70001 · Marketing		$1,860.65	$2,142.75	$1,329.15	$3,154.06	$684.50	$530.60	$788.03	$3,000.00	$3,000.00	$3,000.00	$3,000.00	$3,000.00
90001 · Concessions	$20,000.00	$18,628.42	$27,641.79	$25,483.82	$32,382.93	$36,518.32	$41,965.72	$43,448.01	$45,185.93	$46,993.37	$48,873.10	$50,828.03	$52,861.15
90002 · Pro-Shop Inventory	$2,000.00	$2,183.30	$2,472.54	$3,018.12	$2,555.22	$2,555.22	$3,577.36	$7,075.44	$7,358.46	$7,652.80	$7,958.91	$8,277.26	$8,608.35
Total Expense	$650,866.00	$689,979.94	$732,063.21	$654,131.09	$705,696.37	$685,202.75	$688,243.23	$666,433.72	$698,752.52	$719,321.33	$740,672.69	$762,843.81	$785,873.95
Net Ordinary Income	-$165,490.00	-$205,485.44	-$192,003.01	-$116,088.86	-$136,338.95	-$134,288.01	-$140,334.59	-$102,761.78	-$112,533.70	-$109,653.76	-$106,618.42	-$103,427.37	-$100,080.85
Other Income/Expense													
Other Income													
99980 · Public Money		$150,000.00	$250,000.00	$150,000.00	$150,000.00	$150,000.00	$156,000.00	$156,000.00	$159,120.00	$162,302.40	$165,548.45	$168,859.42	$172,236.61
99989 · Fund Raising													
Total 99989 · Fund Raising		$8,437.81	$30,627.84	$37,813.68	$39,806.56	$13,139.88	$20,483.00	$21,632.12	$35,000.00	$35,000.00	$35,000.00	$35,000.00	$35,000.00
Total Other Income		$158,437.81	$280,627.84	$187,813.68	$189,806.56	$163,139.88	$176,483.00	$177,632.12	$194,120.00	$197,302.40	$200,548.45	$203,859.42	$207,236.61
Other Expense													
80000 · Equipment Replacement	$10,000 pr yr												
80010 · Leisure Pool - Equipment replac		$19,452.41	$5,742.50	$14,078.23	$3,675.19	$9,794.43	$6,120.54	$6,688.49	$16,000.00	$54,500.00	$6,500.00	$0.00	$0.00
80011 · Lap Pool - Equipment Replacemen		$16,716.50	-$2,472.55	$0.00	$292.50	$6,467.12	$1,743.36	$4,800.55	$0.00	$5,000.00	$0.00	$0.00	$50,000.00
80012 · Whirlpool Equipment Replacement		$1,040.68	$1,684.58	$13,265.41	$349.77	$4,355.49	$1,197.91	$7,351.59	$1,000.00	$0.00	$0.00	$0.00	$0.00
80013 · Fitness Center Equipment Replac		$6,464.24	$1,530.88	$2,201.49	$1,146.86	$723.24	$120.00	$879.97	$30,400.00	$32,300.00	$31,300.00	$9,000.00	$0.00
80014 · Concessions Equipment		$248.50	$762.19	$1,515.68	$353.86								
80018 · Virginia Graeme Baker		$4,350.00	$18,532.59		$0.00			$2,397.32					
80019 · Concessions Equipment Repair		$0.00	$509.56	$659.38	$12.18		$974.09						
80021 · Lobby & Computers		$3,540.63	$0.00	$1,115.14	$0.00	$533.00	$7,672.70	$962.45	$3,200.00	$600.00	$0.00	$0.00	$0.00
80022 · Meeting Room									$0.00	$0.00	$0.00	$0.00	$0.00
80024 · Mezzanine						$9,855.07	$5,171.35	$19,613.51	$39,000.00	$8,000.00	$0.00	$0.00	$0.00
80025 · Filter Room Equipment Replacement		$10,431.51	$3,258.82	$5,533.26	$8,294.72				$18,000.00	$22,000.00	$7,000.00	$6,000.00	$6,000.00
80026 · VFD/UV Project Costs		$0.00	$5,184.50	$89,659.43	$42,090.00								
80027 · Locker Room replacement		$0.00	$0.00	$682.00	$1,719.48	$2,654.48	$158.28	$18,122.36	$10,750.00	$0.00	$0.00	$0.00	$0.00
Total 80000 · Equipment Replacement		$62,244.47	$34,733.07	$128,710.02	$57,934.56	$34,382.83	$23,158.23	$60,816.24	$118,350.00	$122,400.00	$44,800.00	$15,000.00	$56,000.00
99999 · Voided Checks		$0.00	$0.00	$0.00	$0.00								
Total Other Expense		$62,244.47	$34,733.07	$128,710.02	$57,934.56	$34,382.83	$23,158.23	$60,816.24	$118,350.00	$122,400.00	$44,800.00	$15,000.00	$56,000.00
Net Other Income		$96,193.34	$245,894.77	$59,103.66	$131,872.00	$128,757.05	$153,324.77	$116,815.88	$75,770.00	$74,902.40	$155,748.45	$188,859.42	$151,236.61
Net Income		-$109,292.10	$53,891.76	-$56,985.20	-$4,466.95	-$5,530.96	$12,990.18	$14,054.10	-$36,763.70	-$34,751.36	$49,130.03	$85,432.05	$51,155.76
								-$95,339.17					

	2013-2020	2014-2020	2009-2015	2016-2020
80010 · Leisure Pool - Equipment replac	$99,603.46	$89,809.03	$65,551.79	$77,000.00
80011 · Lap Pool - Equipment Replacemen	$68,011.03	$61,543.91	$27,547.48	$55,000.00
80012 · Whirlpool Equipment Replacement	$13,904.99	$9,549.50	$29,245.43	$1,000.00
80013 · Fitness Center Equipment Replac	$104,723.21	$103,999.97	$13,066.68	$103,000.00
80014 · Concessions Equipment	$0.00	$0.00	$2,880.23	$0.00
80018 · Virginia Graeme Baker	$2,397.32	$2,397.32	$25,279.91	$0.00
80019 · Concessions Equipment Repair	$974.09	$974.09	$2,155.21	$0.00
80021 · Lobby & Computers	$12,968.15	$12,435.15	$13,823.92	$3,000.00
80022 · Meeting Room	$0.00	$0.00	$0.00	$0.00
80024 · Mezzanine	$81,639.93	$71,784.86	$34,639.93	$47,000.00
80025 · Filter Room Equipment Replacement	$59,000.00	$59,000.00	$27,518.31	$59,000.00
80026 · VFD/UV Project Costs	$0.00	$0.00	$136,933.93	$0.00
80027 · Locker Room replacement	$31,685.12	$29,030.64	$23,336.60	$10,750.00
Total 80000 · Equipment Replacement	$474,907.30	$440,524.47	$401,979.42	$356,550.00
	Actual	$341,163.18	$401,979.42	
	Proposal	$130,000.00	$130,000.00	
		$211,163.18	-$95,339.17	2009-2015

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Risk Management

When Lightning Strikes

Should you close your indoor pool when lightning approaches? The answer may surprise you.

By Tom Griffiths, Matthew Griffith

While there are many urban legends in the world of aquatics, one is by far the greatest of all — lightning and indoor swimming pools. The truth is, the practice of clearing indoor pools during outside thunderstorms does not keep people safe and, in many cases, may put them in higher-risk situations. Delving deeper into the issue reveals why adopting a policy of clearing indoor pools for lightning is completely unfounded.

First of all, the safety record of indoor pool facilities as it relates to lightning cannot be discounted. No death has been recorded to date from lightning during indoor swimming activities. The U.S. Consumer Product Safety Commission reported 60 swimming pool electrocutions between 1990 and 2003, and none were from lightning.

Furthermore, CPSC could find no reports or documentation of fatality related to lightning for indoor pools. This fact alone is enough to make a responsible aquatics manager question the closing of indoor pools during thunderstorms, but there are other reasons, too.

The National Electric Code, which has been adopted by every governmental body in the United States, requires all buildings to have the ability to shunt the voltage generated by a lightning strike. The structure must have a complete lightning protection system, and be properly grounded and bonded.

"If the electric wiring/grounding in your facility is up to the required code, no indoor area should close during outdoor thunderstorm activity," says Dr. Vicki Weiss, a regular lap swimmer in Maryland. "In fact, a pool closure policy is in violation of the National Electric Code section 250.4(A)(1) and you will be subject to regulatory enforcement." Dr. Weiss adds that facility operators must understand they are breaking the law by closing indoor pools. She is not alone. Her efforts have been supported by two local regulatory agencies, Howard County, Md., electrical inspectors and the Maryland Occupational Safety and Health Administration. As a result, Montgomery County, Md., recently changed their swimming pool codes to reflect this.

There's confusion about what grounding, bonding and lightning protection systems do. Generally, the following must be bonded: all metal parts of and surrounding pools, along with their electrical support equipment. In basic terms, bonding includes interconnecting all pool metal and equipment to bring everything to the same earth potential.

Once bonded, all metal also must be grounded. Grounding usually is done by way of wire to a grounding electrode or rod driven into the earth. Together, these two systems help protect swimmers from many shock hazards.

Outdoor pools are also required to be properly bonded and grounded, but they are exposed to direct strike possibility from lighting, and this has been documented. This is not the case for indoor pools that are enclosed by a protective structure with a complete

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lightning protection system. Specially designed to protect structures and the people occupying them, lightning protection systems provide a safe pathway to earth for the energy from a lightning strike. Contrary to one widely held belief, they do not to prevent lightning strikes.

The basic components of a lightning protection system include air terminals ("lightning rods"), main conductor cables, ground rods and lightning arrestors installed to protect electrical equipment from surges. A lightning protection system provides a means for controlling a lightning strike and thereby preventing damage to the building components (including indoor swimming pools).

The discussion of lightning and indoor pools must include addressing the nature of humans. Human nature actually puts facility guests in situations statistically shown to be of higher risk when they are forced to leave indoor pools during thunderstorms. When an indoor pool is cleared, guests go to the locker rooms, where they shower before changing. There have been numerous cases of reported shocks and electrocutions of people in showers and bathtubs, or at sinks, washing their hands. Just standing near metallic plumbing systems and metallic drainage systems carries the possibility of shock (actual documented cases).

Also, there are inevitably children who need to call for a ride home. Again, there are reports every year of people injured from being shocked while using landline telephones. (This is the mechanism most frequently used by lightning to enter a building.) Even if these practices are banned and monitored, people are still allowed to leave the facility.

In 98 percent (44 out of 45) of the fatalities attributed to lightning in the United States during 2007, the people were outside. When people leave the facility and run across the parking lot to their car, they are exposed to a direct strike. Car accidents increase as well during thunderstorms due to hazardous road conditions. It is clear that closing indoor pools actually puts people at higher risk of being injured by lightning than allowing them to keep swimming.

Interestingly, many "aquatic safety consultants" and the National Lightning Safety Institute have been promoting the mistaken policy of clearing indoor pool facilities for years. Based on their "recommendations" to evacuate indoor pools during electrical storms, some of the major lifeguard training agencies have jumped on the bandwagon.

Because there's never been a documented fatality as a result of lightning at an indoor pool, those who are closing indoor pools are not making the decision based on any evidence nor sound risk management practices, but rather on an urban myth that evokes strong emotion.

It should be noted that in a position statement published by the National Lightning Safety Institute (which has become widely regarded as the prevailing document on the subject), several groups are misquoted and misrepresented. In the paper, USA Swimming is quoted as having "recommended indoor pool activity suspension when nearby thunderstorms threaten." USAS makes no such recommendations. According to Mick Nelson, club facilities development director, USA Swimming averages about an inquiry a week regarding lightning and indoor swimming pools. "We have no policy on indoor pools and electrical storms," Nelson says. "We defer to each aquatics facility manager to make that decision. They must do due diligence to come up with their own policy. Lightning should not be a problem for pools that are grounded."

The National Lightning Safety Institute also claims that the National Collegiate Athletic Association recognizes "building interior pool hazards when nearby thunderstorms threaten." The truth is, they do not.

The *NCAA Swimming and Diving Rule Book*, *NCAA Sports Medicine Handbook*, and NCAA Championships Severe Weather Policy only address outdoor pools; they do not have an indoor pool policy. The two largest governing bodies for competitive swimming in the United States have been unfairly used to support a protocol that they clearly do not.

Still, many steps need to be taken to keep swimmers safe at indoor pools during outdoor thunderstorms. First, assuming the pool and facility were built to meet national standards, a qualified electrician should conduct a comprehensive inspection of both on a regular basis. Pool managers and other staff members should be trained to recognize and report potential electrical issues as part of their daily facility check. During thunderstorms, all doors and windows to the outside from the pool area should be kept closed. Also, staff and guests must not be allowed to talk on landline telephones or take showers during this time, and people should be encouraged to stay in the building.

For facility managers who are still skeptical, a compromise might be to let individual swimmers decide. A brief announcement on the public address system explaining that "severe weather is approaching and if you fear for your safety, please enter the locker

ABOUT THE AUTHOR
Tom Griffiths

ABOUT THE AUTHOR
Matthew Griffith

TRENDING

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rooms and be seated in a dry place." If this approach is taken, guests must be kept out of showers and off landline telephones. They also should stay in the building because being outside is proven to be the most dangerous place during electrical storms.

Ultimately, aquatics and recreation professionals must remember why people come to the facility: to have fun! It's impossible to eliminate all risk associated with pools without also eliminating the numerous benefits also associated with them. Competent operators and managers of aquatics facilities should be focusing on actual risks that are known to cause catastrophic injury and death, not on an urban myth that has no supporting evidence. Remember, hundreds of indoor pools are open every day during thunderstorms, and there's never been a documented case of death attributed to lightning. Remember, too, that people swimming indoors during a thunderstorm are as safe as they can be.

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lapswimmer 149 days ago

I have an on-going battle with our city-owned natatorium manager over when it's OK to open the roof. He opens it during the winter, sometimes when the temp is in the 40s (with sun shining). I submit that there should be a policy that dictates when the roof may be opened. But he is consistently evasive. I'm ready to go to the mayor about this. It's cold to wet swimmers, and he is venting thousands and thousands of dollars in heat to the ski. Any helpful comments on this would be appreciated. I am at jha@knology.net Big thanks.

Like Reply Share 0

Life 382 days ago

I work at a ymca in Colorado as an indoor pool lifeguard. Our insurance company requires us to close in lightning or thunderstorms. It's not a location choice. Liability says we must close down. And maybe there has never been a case of lightning death in an indoor pool because it's common policy to clear them. Can't die in a pool that you're not in.

Like Reply Share 0

Pool Man 1001 days ago

Although lightning is the most common reason for electrocution fears, a swimmer was recently electrocuted when a car hit a power pole while she was in the water, causing power lines to fall to the ground outside the facility. She was fine until she touched the stainless steel ladder, which was grounded. The electricity went through the ground, into the pool reinforcing steel, the bond wire, the ladder and ultimately the swimmer. Ironically, had the ladder NOT been grounded, she would still be with us.

Like Reply Share 0

Kelly Martinez 1001 days ago

Great Article! I was frustrated many years ago when I was a Coordinator at an indoor pool and the policy was to make everyone get out of the pool during a lightning storm based on the recommendations of the National Lightning Institute. After listening to Dr. Tom Griffiths discuss this topic at a NAC conference many years ago, I called the National Lightning Institute for information supporting their position. I was shocked when they confirmed that there was not one documentated incident in the world of someone being electrocuted while in an indoor pool. They went on to say that although it wasn't probable, it thier opinion it was still possible and therefore should be enforced. With this information, the city I worked for, verified that the indoor pool facility was properly grounded and the procedure for closing during lightning storms was eliminated. I love that aquatic professionals are now questioning and changing some old standard procedures that have no basis of support. Someone thought it was a good idea and the time and we all follow it without questioning why.

Like Reply Share 0

Brooks Wedeking 1027 days ago

This article is ridiculous. I am located in Howard County MD, and have been instructed in the past 5 years to close an indoor pool by the Howard County HD, which is referenced in this article. Furthermore, there is NO code in the National Electric Code, or State and County codes that state that a "pool closure policy.....will be subject to regulatory enforcement." No governing body can force you to not close a pool with any type of enforcement. If a pool operator wants to close a pool because there's a single cloud in the sky, or even if it's because they just feel like it, they can. It may not be good business, but no one can tell a public, semi-public, or private pool when they can not close. Health Departments have the power to close pools for violations, not to keep them open for lack of violations. Also, closing an indoor pool for lightning has nothing to do with the cited National Electric Code in this article, which details specifics of grounding principles. I am not convinced either way that the dozen indoor pools I manage should close during lightning/thunder. However, I will continue to research the subject, and discount this fallacy ridden article. We are in a major liability industry - any article that summarizes a potentially valid concern with "remember why people come to a pool - to have fun!" is a discredit to the swimming pool industry.

Like Reply Share 0

Vicki Weiss 1099 days ago

The National Electrical Code Article 250.4(A)(1) reads as follows: Electrical System Grounding. Electrical systems that are grounded shall be connected to earth in a manner that will limit the voltage imposed by lightning, line surges, or unintentional contact with higher-voltage lines and that will stabilize the voltage to earth during normal operation.

Like Reply Share 2 replies 0

Russell Nicholson 249 days ago

A brief review of what causes the phenomenon of high ground voltage will be helpful in understanding how industrial, commercial or residential locations result in costly electrical component and equipment damage.

When a high surge of current is released into the ground by a lightning strike (or even something similar like a downed power line), the energy spreads out like a wave. Imagine a large rock being dropped into a still pond. The ripples are more frequent and intense at the point of origin, growing longer and less intense as the wave moves outward.

Similarly, the ground potential at the release point can be hundreds of volts higher that it will be even a few hundred feet away. This difference in voltage levels is the cause of the trouble. As the current moves through the ground, it naturally wants to find a way to equalize and to travel along the path of least resistance. Parts of a building (foundation) found along this path will be connected to the ground (earth), have buried grounding wires, cables and other access points where the current can enter the structure. These wires and other connections provide an exponentially easier path for the high voltage to travel across and attempt to equalize. The result can be large amounts of current entering the building at multiple entry points. It should go without saying that the larger the structure, the higher the potential of transient voltage entering. The damage occurs when this high voltage hits equipment and building components that are not capable of handling the sudden surge – the effect is over $4 billion annually in the United States

alone.
Now that you know; why would you want to be sitting in a swimming pool, indoors or out, when there is an electric storm? Just maybe, the reason there is not one documented incident of someone being electrocuted while in an indoor pool is because most indoor pool policy is to make everyone get out of the pool during a lightning storm. Would you be willing to test the water during a lightning storm and possibly become the first documented fatality?

Like Reply Share 1 reply 0

Jack Mace 11 days ago

I find this a I find this a rather uncompelling argument.
High School physics taught me that he electricity does not flow through anything. It runs along the surface; even the surface of copper wire. Therefore, even in an automobile that has struck directly by lightning, the occupants are basically safe. One of the few conceivable ways in which they could be harmed is if one person is holding onto a door handle on one side while holding hands with another person holding onto a door handle on the other. Since lightning strikes and travels along the surface it will go straight to the ground because of the rain that has encased the automobile and is therefore grounding the automobile.
Any argument involving pipes and wires as entry points into the interior of the structure would fail by the same standard.

Like Reply Share 0

Melinda Erwin 1172 days ago

So, sinks/showers present potential risks because of the metal piping during an electrical storm. Got it, however, if a pool were filling, through auto fill, during an electrical storm, could that put an indoor pool at risk? In addition, what if there was an emergency in an indoor facility during an electrical storm? Could it put the person placing a 911 call at risk through a landline? Many agencies discourage the use of cell phones due to distraction and because they won't work if dropped in pool. What are thoughts regarding this?

Like Reply Share 1 reply 0

James Gray 339 days ago

My city says that we are operating pools because we want to give kids safe activities. If that is true the question should be will that kid be at greater risk if we send him home than if we let him continue to swim. If it is true that there is no record of anyone being electrocuted in an indoor pool during a lighting storm then we are making a terrible choice by closing the pool. (We don't keep the people in a dry place in the building.) We send then out into that world that we say we are trying to protect them from. I don't think there is a land line in any of our pool houses. We will either use a cell phone of just shout loudly.

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~ National Lightning Safety Institute ~

July 6, 2016

Section 4.7.1

Lightning and Aquatics Safety: A Cautionary Perspective for Indoor Pools

by Richard Kithil (President & CEO, NLSI)
Kevin Johnston (Senior Consultant, Professional Aquatics Consultants International)

1. Abstract

Lightning behavior is arbitrary, capricious and random. A first flash to earth can travel tens of miles from a distant cloud to a grounded object. Statistically, more lightning originates from the back edge of a thundercloud than from the front side, making recreation activity resumption decisions difficult. Risk management of the lightning hazard necessarily calls for a cautious and conservative approach. This paper describes lightning pathways to interior structures and provides references to recent national codes and standards. It recommends guidelines for decision-making in order to maximize lightning safety for indoor pools.

2. Physics of Lightning

There are some 22 million cloud-to-ground lightning flashes in the USA annually. A helpful lightning flash density map can be seen on this site. Lightning travels at about 1000 feet in a millionth of a second. A typical flash is as thick as one's thumb. Lightning's currents average about 25,000 amps with voltages in the hundreds of millions. Lightning follows Benjamin Franklin's maxim of Path of Least Resistance through the air and along or through the ground. According to insurance information, the ratio of damage due to indirect effects vs. direct effects is a ratio of some 2000:1. This means that if lightning strikes the ground near to an indoor pool, depending upon localized circumstances, it may be conducted into the building via low resistance conductors. These can be:

- Buried or pole-mounted telephone and electric wires
- Buried metal water lines or gas lines
- Metal light masts in parking lots with AC power fed from the building
- Fences that are contiguous to the building
- Cable TV lines, both aerial and buried
- Root systems of nearby trees
- Wet ground and wet paved parking lots (from rain) adjacent to buildings

3. Statistics

Observable lightning effects inside pool buildings have included: main circulation pump destroyed; injuries to employees touching electrical panels; concrete footing of slide blown apart; and visible lightning inside

natatorium. The authors know of no databases recording deaths to persons in indoor pools. Lightning studies from NOAA over a 35-year period are not detailed and show only generalized activities or locations of lightning victims as below:

- Under trees = 13.7%
- Water related (fishing/boating/swimming) = 8.1%
- Golfing = 3.9%
- Driving machinery = 3.0%
- Telephone-related = 2.4%
- Open fields/ballparks = 26.8%
- Radios/antennas = 0.7%
- All others/unknown categories = 40.4%

However, lightning incidents to persons in non-pool buildings such as houses, apartments, office buildings, small shelters, etc. are well characterized with examples in the thousands. Such incidents describe lightning insults to people indoors on telephones, in contact with domestic water (sinks, tubs, showers, etc.) and touching metal doors, windows and other outside-to-inside conductors.

4. Codes and Standards

An internet search in "Google" under "indoor pools and lightning" will display more than 2,700 citations. Many of them describe swimming pool safety procedures when under lightning threat. Six states have recommendations or regulations for suspending indoor pool activities when under lightning threat: Delaware, North Dakota, South Dakota, Maryland, Rhode Island, and Michigan. Delaware's state code reads "during electrical storms the use of a pool (indoor or outdoor) shall be prohibited." Several large national groups describe building interior pool hazards (*) or have recommended indoor pool activity suspension (**) when nearby thunderstorms threaten. See:

- National Athletic Trainers Assn.** (NATA)
  www.nata.org (type "lightning" in search box)
- National Collegiate Athletic Assn.* (NCAA)
  www.ncaa.org/library/sports_sciences/sports_med_handbook/2002-03/1d.pdf
- American College of Emergency Physicians ** (ACEP)
  www.acep.org (type "lightning" in search box)
- US Swimming, Inc. **
  www.usa-swimming.org (type "lightning" in search box)
- YMCA Services Corporation**
  www.yservicescorp.com/Docs/Guidelines/LightningPoolGuide.doc

All pool buildings should be equipped with lightning protection as specified in the most recent version of National Fire Protection Association NFPA-780 Standard for the Installation of Lightning Protection Systems. Special attention should be paid to surge protection and bonding issues. A comprehensive inspection should be conducted by a qualified electrician every five years.

5. Recommendations for Lightning Safety at Indoor Pools

1. Recognize the threat. We suggest detection methods such as: the TV Weather Channel; an inexpensive weather radio; seeing lightning and/or hearing associated thunder; or subscription services such as www.lightningstorm.com We do not recommend expensive dedicated lightning detectors. (See more details on lightning detection).

2. Identify in advance SAFE and NOT SAFE places:

- SAFE = dry areas inside large permanent buildings
- NOT SAFE = near electrical conductors, electrical equipment, metal objects (lifeguard stands, ladders, diving board stanchions), and water, including showers

3. Take action to suspend activities. When lightning is within 6-8 miles, evacuate people to safe areas. Guards should secure the entrance to the pool deck.

4. Determine when activities should be resumed. Wait 30 minutes after the last observed lightning or thunder, since lightning may visit from the back end of the passing thunderstorm.

6. Conclusion

There is a built-in conflict between indoor pool activities and lightning safety. Both recreational swimming and competitive swimming events are based upon three icons of Entertainment, Health, and Pleasure. Lightning safety is founded on stopping all those forms of enjoyment. A Risk Management/Safety Professional will err on the side of caution every time and will be found harmless from allegations or claims of negligence. Such a conservative approach will find many objectors. Safety, however, is the prevailing directive.

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7.3 Uman, M.A., et al, 2002: Correlated time derivatives of current, electric field intensity, and magnetic flux density for triggered lightning at 15 m, Jrnl. Geophysical Res., Vol 107, No. D13.

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Whitewater, WI

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excludes: private underground utility locate, rock excavation, prevailing wage

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Tom Foerster

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Matt Amundson ma mundson@whitewater-wi.gov PHONE 473-0122

262 PHONE 903-9507

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Submitted by
Pete Roth

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TAX		
LABOR		
TOTAL		

City of Whitewater
312 W Whitewater
Whitewater, WI 53190

June 29, 2016

Attention: Matt Amundson

We are pleased to quote you for the fence work as per your email as follows:

818’ Fence Style – 5’ high, Black Montage Steel.

Posts – 2 ½ x 2 ½ ” Standard steel, set 8’ or less apart.

Rails – 3 - Steel.

10 End Posts – 3” x 3” steel

Erection - All posts set in 36" deep concrete footings.

The above fence complete and erected for.....$49,765.00

NOTE: These are wider spaces than in between the pickets than what is there.

Terms: **Return signed** acceptance copy, balance due upon completion.
*Owner responsible for Permit & fees where applicable.
*Owner responsible for locating private utility lines.
* Fence lines may have to be adjusted due to buried utility lines.
*Owner to provide survey stakes or fence location.
*Line clearing by Owner.

Very truly yours,
LEMKE FENCE OF JEFFERSON, INC.

David A Schmitz, President

Accepted by:

_____ _____
Signature Date Signature Date

QUOTE GOOD FOR 30 DAYS