FLATHEAD BASIN COMMISSION

VIRTUAL ZOOM MEETING

September 23, 2020

AGENDA

9:30 AM	Welcome, Introductions, Confirm Quorum	Rich Janssen, CSKT (Chair)
9:40 AM	ACTION: Discussion/approval of DRAFT 7/8/20 Minutes	Kate Wilson, FBC staff
9:45 AM	What Have Staff Been Up To? Activities/Events; Budget and Grants; Projects; Website ACTION: 2020 Sponsorships	Kate Wilson; Cassidy Bender, FBC staff
	ACTION: Bylaw Amendments	
10:20 AM	What Should We Expect From the 2021 Legislative Session? Planning for the Upcoming Session; Agency/Legislature Updates	Mark Bostrom, DNRC Toni Henneman, Legislative Services (<i>Invited</i>)
10:40 AM	How Is the Stormwater Project Going? Presentation of Work Plan for Stormwater Project	Casey Lewis, City of Kalispell; Emilie Henry, Big Sky Watershed Corps; Kate Wilson
11:05 AM	How is the Onsite Wastewater Treatment Committee Progressing? Committee Approach & Timeline. Legislative Connections.	Mike Koopal, Whitefish Lake Institute/FBC; Ed Lieser, FBC Vice Chair; Kate Wilson
11:15 AM	Synthetic DNA Overview & Project Concept	Dr. Walter, Cornell University (<i>invited</i>)
11:40 AM	Education & Outreach Committee Committee Approach & Deliverables. Next Steps.	Lech Naumovich, Casey Lewis and Kate Wilson
11:50 AM	ELECTION: Chair/Vice Chair	Kate Wilson
11:55 AM	Public Comment	Rich Janssen
12:00 PM	Wrap Up & Adjournment Next Meeting Dates/Locations, Doodle Poll Results 2021: January 20, March 31, August 25	Rich Janssen; Kate Wilson

***ACTION ITEMS INDICATED IN BLUE**

We promote participation! All Flathead Basin Commission (FBC) meetings are open to the public and stakeholders. To participate in the upcoming virtual meeting, or to request special accommodations, please contact Cassidy Bender (cassidy.bender@mt.gov or 406-542-5886) as soon as possible before the meeting date.

MEETING MINUTES

Meeting/ I Name:	Flathead Basin Commission			
Date of Meeting:		Sept 23rd, 2020	Time:	9:30am-12pm
Minutes P By:	repared	Cassidy Bender	Location:	Virtual-Zoom/Call in
List of Ac	ronyms			
AIS	Aquatic i	nvasive species	FBC	Flathead Basin Commission
BOR	US Burea	au of Reclamation	FLBS	Flathead Lake Biological Station
BPA	Bonnevil	le Power Administration	FWP	Montana Fish, Wildlife & Parks
BSWC	Big Sky V program	Big Sky Watershed Corps (AmeriCorps program)		Glacier National Park
CEMIST	Central E	astern MT Invasive Species Team	MCWD	Missoula County Weed District
CFC	Clark For	Clark Fork Coalition		National Park Service
CRB	Columbia	a River Basin	NRCS	Natural Resource Conservation Service
CRC	Clearwater Resource Council		UC ³	Upper Columbia Conservation Commission
CSKT	Confederated Salish & Kootenai Tribes		UCLN	Upper Columbia Lakes Network
DEQ	Departm	ent of Environmental Quality	USACE	US Army Corps of Engineers
DNRC	Dept. of	Dept. of Natural Resources & Conservation		US Forest Service
eDNA	Environn	Environmental DNA		US Fish & Wildlife Service
E & O	Education	n & Outreach	WLI	Whitefish Lake Institute
EPA	US Enviro	onmental Protection Agency	WRDA	Water Resources Development Act
EQC	Environmental Quality Council (Interim)		WRP	Western Regional Panel
1. Welcome and Introductions				
Rich Jansse	Janssen Welcome. Rich opened the meeting. Confirmed quorum present (for voting purposes).			

(Chair)	welcome. Rich opened the meeting. Commed quorum present (for voting purposes).
Introductions	Each participant introduced themselves including name, location and organization/interest that
(Roundtable)	they are representing.

2. Attendees

FBC (voting members underlined): <u>Rich Janssen</u> (CSKT), <u>Mike Koopal</u> (Whitefish Lake Institute/UC³), <u>Randy Brodehl</u> (Flathead County Commission), Mark Bostrom (DNRC Helena), <u>Jack Potter</u> (Governor-appointed member), Myla Kelly (DEQ), <u>Kurt Steele</u> (USFS), Kate Wilson (DNRC/FBC & UC³ Commission Administrator), <u>Ed Lieser</u> (Flathead Basin Commission), <u>Kathy Olsen</u> (DNRC Kalispell), <u>Casey Lewis</u> (City of Kalispell), Cassidy Bender (DNRC/FBC & UC³ Commission Coordinator), <u>Steve Frye</u> (Governor Appointed), <u>Jim Simpson</u> (Lake County Conservation District), Jim Williams (Montana FWP), Mark Reller (BPA), <u>Dave Stipe</u> (Lake County Commissioner), <u>Lech Naumovich</u> (Flathead Conservation District), Jason Gildea (EPA)

Absent: Jasmine Courville-Brown; Patrick Holmes, Dennis Philmon, Kurt Steele, Jeff Mow

Public/Other: Tom Bansak (FLBS), Emilie Henry (BSWC, City of Kalispell), Valerie Kurth (MT DNRC), Sam Bourett (FWP), Toni Henneman (MT Legislative Services), Dr. Todd Walter (Cornell), Aaron Losing (Kalispell WWTP), Mikaela Richardson (FCD BSWC), Jadin Doerr (Little Bitterroot Lake Association LEAP), Onno Wieringa (Flathead Citizen), Breanna Carr (Morrison-Mairele), Hope Stockwell, Tim Burton (MT Cities and Towns), Rachel Malison (FLBS)

Presenter	Topic/Discussion		
Kate Wilson,	<u>Motion</u> to approve minutes from July 28 th , 2020 meeting (Ed Lieser) Second (Randy		
Commission	Brodehl). All in favor. Motion passes.		
Administrator	 Overview of Agenda: Minutes, Staff Report (Budget, Grants, Projects), Agency 		
	Updates/Legislative Planning, Stormwater Project, Onsite Wastewater Treatment		
Approval of	Committee, Synthetic DNA project, E&O Committee updates.		
Minutes			
	Staff Update:		
Staff updates/Budgets	 Kate and Cassidy split their time 50/50 with FBC and UC³ both working (mostly) remotely due to COVID-19. 		
	Notable staff activities:		
	 Meeting follow up and planning; 		
	 Executive Committee planning and participation; 		
	 Grant & Budget management (writing/reporting/tracking) – EPA grant 		
	application submitted;		
	 Monitoring Flathead Basin natural resource issues; 		
	 NEW! Flathead Basin Septic Leachate Partnership; 		
	 support septic leachate committee and tech subcommittee support; 		
	 support stormwater project with City of Kalispell shared Big Sky Watershed 		
	member;		
	 BSWC projects & planning (application fo2 2021 submitted; 		
	\circ support UC ³ and FWP on AIS (50% of time);		
Kate Wilson,	 follow legislative committees on topics of interest including the Local 		
Commission	Government Interim Committee;		
Administrator	 Crown Managers Partnership steering committee (represent both Commissions); 		
	 North American Invasive Species Management Association virtual conference 		
	Oct 6-8 th (board member, conference chair);		
	 PNWER (co-chair of invasive species working group); 		
	 Western Regional Panel (chair of Fire AIS protocol committee); 		
	 BC Columbia River Basin Steering Committee (member); 		
	 Pend Oreille Basin Commission (Ex-officio, MT upstream rep); 		
	 County Assist Team (CAT) Public Information Officer & Liaison Officer; 		
	 NEW! Kate is attending graduate school- MPA Certificate 		
	Upcoming Events: North American Investive Species Management Acceptation (NAISNAA) Oct C 8		
	 North American Invasive Species Management Association (NAISMA)-Oct 6-8 		
	 (virtual) Business of Outdoor Recreation Summit- Oct 10-13th (virtual) 		
	 MWCC Stream to Summit- Oct 13-15th (virtual) Pend Oreille Basin Commission- Oct 20th (virtual) 		
	x = 2 = $y = x$ and $x = x$		
	 UC³ Fall Meeting- Nov 4th (virtual) Local Government Interim Committee Meeting- Nov? (virtual/Helena) 		
	 Environmental Quality Council- Nov? (virtual/Helena) 		
	 North American Lake Management Society- Nov 16-20th (virtual) 		
	 Columbia River Basin (AIS)- Dec 2-3rd (virtual) 		
	 Montana Legislative Session- Jan-April 2021 		
	 Pacific Northwest Economic Region (PNWER)- Winter Economic Summit (Nov); 		
	Annual Summit rescheduled for August 2021: Big Sky, MT		
	Budget & Finances:		
	 FY20 Personnel: expended \$12,925/\$77,000 		

		erating: expended \$9,890/\$	
			t) + \$20,000 (addition One-Time-Only, OTO)
			\$15,000 (accrued to Windfall)
		•	stormwater project (data plan), member travel,
Mark Postrom		website updates, sponsorshi	•
Mark Bostrom, DNRC			Resource Operating (NRO) account shortfall (less
DINKC		paid for than anticipated out Adds \$35,000 to FY21 budge	-
	0		RDG contract (septic leachate risk map/GIS)
			Windfall contract (water quality campaign, website,
		etc.)	
	Sources of Fund	•	
		Resources Operating Fund F	Y21:
) requested to be permanent (operating budget)
			staff salary, benefits- split with UC ³)
	Natural	Resources Operating Fund F	Y20:
	0	\$20,000- accrual from FY20 t	to RDG contract
	0	\$15,000 - accrual from FY20 t	to Windfall contract
	0	Accrual is a carry forward of	money to the next year, the spendable amount is
		increased but does not chan	ge the base budget amount.
		EPA Multipurpose State & T	
			spent (stormwater project, 2 years)
	0	\$26,000- Pending EPA grant	(septic leachate GIS mapping contract)
			d (Revised) Budget
	AMOUNT	CATEGORY	NOTES
	RECOMMENDED	Contia Loophoto contract (to data), ctudu	May include: 1) CIC monitoring contract (\$24,000 volue): 2) augment
	PREVIOUS: \$15,000 W/Accruals: \$35,000	Septic Leachate contract (to date), study and/or water quality monitoring to verify	May include: 1) GIS monitoring contract (\$24,800 value); 2) augment synthetic DNA pilot study to validate model results (Whitefish Lake, Echo Lake
	••••••••••••••••••••••••••••••••••••••	model, report generation	TBD); 3) build layer of state-owned/managed lands and facilities; 4) additional
			studies (drones, thermal studies, nearshore monitoring, etc.; 5) report
		Education Quantum of Mater Ovelity	studies (drones, thermal studies, nearshore monitoring, etc.; 5) report writing/formatting/design. Augment EPA grant (pending).
	PREVIOUS: \$8,000	Education & outreach, Water Quality Campaign, Biennial Report, outreach	
	PREVIOUS: \$8,000 W/Accruals \$23,000		writing/formatting/design. <i>Augment EPA grant (pending)</i> . Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new website at flatheadbasincommission.mt.gov (vsorg); 4) Biennial Report –
		Campaign, Biennial Report, outreach	writing/formatting/design. <i>Augment EPA grant (pending).</i> Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new
	W/Accruals \$23,000 PREVIOUS: \$3,000	Campaign, Biennial Report, outreach materials	writing/formatting/design. <i>Augment EPA grant (pending)</i> . Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new website at flatheadbasincommission.mt.gov (vsorg); 4) Biennial Report – 2019/2020 due to Governor's Office by Fall 2020 May include: dataplan for tablet, additional sampling, ½ of BSWC position,
	W/Accruals \$23,000 PREVIOUS: \$3,000 NEW: \$2,000 PREVIOUS: \$5,000	Campaign, Biennial Report, outreach materials Stormwater Project (2 nd year)	 writing/formatting/design. Augment EPA grant (pending). Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new website at flatheadbasincommission.mt.gov (vsorg); 4) Biennial Report – 2019/2020 due to Governor's Office by Fall 2020 May include: dataplan for tablet, additional sampling, ½ of BSWC position, professional development, etc. Augment EPA grant for 2nd year of project. Includes member travel, facility fees and refreshments for meetings See sponsorship opportunities in packet. Prioritize MT-based events. Examples: MWCC Stream to Summit, Crown Managers Partnership, MT Lakes
	W/Accruals \$23,000 PREVIOUS: \$3,000 NEW: \$2,000 PREVIOUS: \$5,000 NEW: \$2,000 PREVIOUS: \$5,000	Campaign, Biennial Report, outreach materials Stormwater Project (2 nd year) Member travel and meetings	 writing/formatting/design. Augment EPA grant (pending). Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new website at flatheadbasincommission.mt.gov (vsorg); 4) Biennial Report – 2019/2020 due to Governor's Office by Fall 2020 May include: dataplan for tablet, additional sampling, ½ of BSWC position, professional development, etc. Augment EPA grant for 2nd year of project. Includes member travel, facility fees and refreshments for meetings See sponsorship opportunities in packet. Prioritize MT-based events.
	W/Accruals \$23,000 PREVIOUS: \$3,000 NEW: \$2,000 PREVIOUS: \$5,000 NEW: \$2,000 PREVIOUS: \$5,000 NEW: \$8,500	Campaign, Biennial Report, outreach materials Stormwater Project (2 nd year) Member travel and meetings Conference/meeting sponsorships	 writing/formatting/design. Augment EPA grant (pending). Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new website at flatheadbasincommission.mt.gov (vs. org); 4) Biennial Report – 2019/2020 due to Governor's Office by Fall 2020 May include: dataplan for tablet, additional sampling, ½ of BSWC position, professional development, etc. Augment EPA grant for 2nd year of project. Includes member travel, facility fees and refreshments for meetings See sponsorship opportunities in packet. Prioritize MT-based events. Examples: MWCC Stream to Summit, Crown Managers Partnership, MT Lakes Conference, Stormwater Conference, etc. E.g. desk, computer, cell phone, printing, training, some travel on FBC-related
	W/Accruals \$23,000 PREVIOUS: \$3,000 NEW: \$2,000 PREVIOUS: \$5,000 NEW: \$2,000 PREVIOUS: \$5,000 NEW: \$8,500 \$2,000 (same) PREVIOUS: \$2,000	Campaign, Biennial Report, outreach materials Stormwater Project (2 nd year) Member travel and meetings Conference/meeting sponsorships Staff Supplies/Travel	 writing/formatting/design. Augment EPA grant (pending). Includes: 1) Development of Water Quality campaign and associated materials; 2) Materials for FBC tabling, events, activities; 3) Building new website at flatheadbasincommission.mt.gov (vsorg); 4) Biennial Report – 2019/2020 due to Governor's Office by Fall 2020 May include: dataplan for tablet, additional sampling, ½ of BSWC position, professional development, etc. Augment EPA grant for 2nd year of project. Includes member travel, facility fees and refreshments for meetings See sponsorship opportunities in packet. Prioritize MT-based events. Examples: MWCC Stream to Summit, Crown Managers Partnership, MT Lakes Conference, Stormwater Conference, etc. E.g. desk, computer, cell phone, printing, training, some travel on FBC-related business

	 See Executive Committee's sponsorship prioritization in packet. \$1,000- MWCC Stream to Summit (virtual conference, committed) \$1,500- North American Lake Management Society Conference \$2,750- Montana Stormwater Conference (Gold)- Missoula, May 2021 \$3,250- Crown Managers Partnership (annual)- Steering Committee \$8,500 TOTAL in sponsorships FY21 We have put priority into Montana based events/conferences or international
	 conferences that are being held in Montana. Crown Managers Partnership counts on agency contributions for funding, staff sits on steering committee, we support with projects as well.
	• <u>Motion</u> to approve revised FY21 budget (Casey Lewis). Second (Lech Naumovich). All in favor. <i>Motion passes</i> .
	Bylaw amendments:
	 See meeting packet for specific by law changes. Main changes were to clean up confusing language of IV: Officers and Duties, item D. New language: "The Commission may, with the agreement of the Chair and Vice Chair, vote to renew or extend the terms of either or both, for an additional two-
	 year term." Executive committee has oversight authority including expenditure of funds and project progression, anyone can attend bi-weekly Executive Committee meetings (every other Tuesday at 10am).
	• Addition to bylaws: 75-7-308. Cooperation with other agencies and organizations. "To fulfill its duties, the commission shall develop and maintain cooperative programs with federal, state, provincial, tribal, and local agencies or organizations that are responsible for natural resource management and monitoring in the Flathead basin. Participating federal and provincial agencies must be requested to provide adequate funds to participate on the commission and to monitor resources within their areas of responsibility."
	 Existing language on meeting locations: MCA 75-7-304(7) FBC is, "to meet at least semiannually within the Flathead basin, alternating the meeting site between the cities of Kalispell and Polson." <u>Motion</u> to approve amended bylaws (Dave Stipe). Second (Steve Frye). All in favor.
	Motion passes.
Mark Bostrom,	Agency Updates and Discussion
DNRC	 DNRC is asking for the one-time-only \$20,000 per year to be made permanent. We are seeking additional monitoring authority in the state revolving fund. Found issue in cases were the federal government continue to operate on resolutions regarding the assistance grant revolving fund for water systems and water treatment plants. The lack of certainty of the state assistance grant arriving at a certain time tends to disrupt construction timelines of big projects. We are looking for the ability to write
Agency & Legislative Updates	 general obligations bonds to keep construction going, which will be paid back by the city, knowing the federal money will come through eventually. DEQ is the lead agency for engineering design and DNRC operates the financial arm of
	 DEC is the lead agency for engineering design and DARC operates the mancial annot the state revolving program. Debt issuance for irrigation districts and counties, irrigation law is quite old (1930s). DNRC is working on cleaning up the law so irrigation districts have ability to improve their infrastructure through the renewable resource grant program. Other CARDD legislative bills are UC³ and the MISC:

 Toni Henneman, Legislative control to CDS and libraries. Any legislature control to Spendbel portion with a set to Spendbel portion with a set to Spendbel portion with a set to Spendbel portion. Spendbel portion set to Spendbel portion with the set of and Spendbel portion. Spendbel portion set to Spendbel portion set to Spendbel portion set to Spendbel portion. Spendbel portion set to Spendbel portion set to Spendbel portion. Spendbel portion set to Spendbel portion set to Spendbel portion. Spendbel portion set to Spendbel portion was set in stone in a recent previous session? Hopefully not the furture as that is the core of many things. Several coal tax bonds depend on that trust being whole, don't see it being a target. Toni Henneman, Legislative is the spend set to Spendbel portion was set in stone in a recent previous session that gave a percent of allocation to CDS and libraries. Any legislature can change previous legislature so that is still unknown. Loal Government Interim Committee Updates Oronnittee warped up work Spendbel. Taked with SJ3 study to look at alternative septic systems. Expanded the scope of the study with issues on old or failing septic systems. Spendbel the scope of the study with issues on SPR Spring set to replace septic replacement is limited, holdster this and implement education and outreach to let landowners knows. 2) JDS: Request draft legislation looking at requiring DEQ to mandate a regular schedula to review experimental systems. Scora DEQ settems Drivision in the receive the letter and are deciding how they will respond. Three was a prior new proposal in the executive planning process requesting a \$200,000 general fund bump to go toward septic issue and ROS program to establich aspecific septic systems stark that are		1
	Legislative Services	 that FWP do not have explicit authority for aquatic plants as no real AIS list exists like the noxious weed list. This agency bill is requesting the creation of an AIS list. The other two legislative items will not be agency bills, but will may be carried by legislators from UC³ 1) Pull the plug rule 2) Increase ticket amount for inspection station drive-bys Natural Resource tax revenues have seen a long steady decline in the coal severance tax revenues which conservation districts are very dependent on. We have seen a soft revenue collection on the oil and gas tax (oil war between Saudi Arabi and Russia). Soft revenue collection on the oil and gas tax (oil war between Saudi Arabi and Russia). Soft revenue collections in the mining tax as well which feeds into natural resource ops and projects account. We have been able to take those shortfalls internally as much as possible so outside forces (CDS and attachments) don't have to take the brunt of it. This will continue to be a topic in the next session Do you expect to see the coal severance tax fund being touched this session? Hopefully not the trust as that is the core of many things. Several coal tax bonds depend on that trust being whole, don't see it being a target. The spendable account funds government, conservation districts, and the library. Distribution to spendable portion was set in stone in a recent previous session that gave a percent of allocation to CDS and libraries. Any legislature can change previous legislature so that is still unknown. Local Government Interfind Committee Updates Committee wrapped up work Sept 9th. Tasked with SI3 study to look at alternative septic systems. Expanded the scope of the study with issues on old or falling septic systems. Mike and Ed presented on our Onsite Wastewater Treatment Committee's progress and projects. Two conclusions: 1) Send a letter to DNRC requesting expanded grant opportuniti
		 Improving digital services to be able to broadcast sessions and make every meeting zoom capable.

	Presentation about Lewis and Clark Septic Inspection and Maintenance Program to Local
	Gov Summary: SJ3 final report has a piece about this topic as well. They presented on
	how they set up the program, what it does, and any successes or failures. Committee
	didn't act on this presentation it was more informational, presenting an option that
	could be implemented at the local level. There was some public comment against point
	of sale inspections.
Emilie Henry, Big Sky	Introduction:
Watershed Corps;	 Our BSWC member, Emilie's, position is funded primarily by the EPA grant. Grant
Kate Wilson	Components (2020-2022)
	 Big Sky Watershed Corps (partial, 2 years)
	 Stormwater Monitoring & Inventory Project
	 Education & Outreach: Rain Garden Initiative; Adopt-a-Drain program; Flathead
	watershed/stormwater curriculum; organize local river clean up event(s)
	 Utilize City of Kalispell as a Pilot for Dry-Weather Inspection of Outfalls
	 Casey: Emilie has been awesome, has learned so much and taken the project to
	new heights and gotten great results.
Big Sky Watershed	Project Updates:
Corps Member	Gathering stormwater infrastructure data for the urban and semi urban areas in the
Activities &	Flathead Basin.
Outreach Project	Data Collection Campaign:
	 Solicited volunteers to locate and characterize catch basins, storm manholes,
	and outfalls in Polson in August.
	 Figuring out how catch basins are connected and to which outfalls they are
	running.
	 Digitized and added to stormwater inventory.
	• One of the volunteers was a Polson City commissioner and was very excited to
	encourage the community to use this data now that they have it.
	• It was a low-cost awesome event and has potential to be a reoccurring effort.
	 Got great press on this event, see NBC Montana article <u>here.</u>
	Monitoring, Inspections, & Sampling:
	 Performed dry-weather outfall inspections on 20 sites. Method could be
	implemented Basin wide.
	 Collected one sample in the beginning of May.
	• Sampling the first flush during daylight hours was difficult and very rare- will
	likely be difficult to get the 4 samples before November.
	 May have to change the methodology to get these samples safely. Even if we
	must tweak the methods, we can still see what the weather was like during
	these events and interpret the data appropriately.
	• Created weather tracker to document weather in Kalispell, Whitefish, and
	Columbia Falls
	Rain Garden Initiative: Working with the Flathead Conservation District
	• Created resources to help homeowners plan their own gardens, including pre-
	made designs and native plants list
	• Have been working closely with homeowners to plan, design, and build rain
	gardens in Flathead County.
	 5 completed so far and are expecting 7 more to go in this fall. 2 webinars were
	hosted this summer to educate on the rain gardens implementation: watch here.
	 Provide residents with a fixed amount of funding toward native plants to take off
	the financial burden on homeowners. FCD received a 319 grant to continue to
	supplement funding for projects like these.

	0	View two news articles on the Flathead Rain Garden Initiative from <u>NBC</u>
		Montana and the <u>Flathead Beacon</u> .
•	Stormv	vater Inventory- Locations within the basin that we currently have infrastructure
	data fo	r.
	0	Whitefish data: catch basins, outfalls, and manholes. Symbolized by ownership, direction of flow included. Individual drainage basins that drain to associated outfall.
	0	Kalispell data: massive data set with similar information
	0	Evergreen does not have a city owned sewer system, there are some private stormwater systems and dry wells. Collected data using same methodology from
		the Polson volunteer event.
	0	Bigfork: data set provided.
	0	Lakeside: does not have city owned stormwater system, data was collected with FCD BSWC member of private systems.
	0	Polson: Data collected from volunteers and supplemented from former engineers with the City of Polson.
	0	Ronan: data for Ronan was provided by engineering consultations.
•	Conclu	sions:
	0	Became very clear that ownership is variable across the basin. Some areas are only state- and privately-owned infrastructure. Some areas have no preemptive maintenance plan causing them to be reactive instead of proactive. Some areas have older or private systems that do not have data from the implementation of
		those systems and therefore have no maintenance plan either.
	0	Columbia Falls are currently digitizing their data.
	0	MDT owned infrastructure is another source to tap into.
	0	This is meant to be a dynamic tool rather than a static snapshot in time. We do not want this data to be put on a shelf until it is obsolete. Hope is that this data
		is used and expanded in years to come.
•		Prioritization Ranking:
	0	Ranked according to drainage basin area.
	0	Will get into specific pollutants and land use in Phase 2. Phase 1 is broader,
	0	focusing on impairment classifications and rankings. 11 high priority areas were identified: 7 in Kalispell, 3 in Whitefish, 1 in Polson
	0	Major conclusions:
	0	 It was difficult to compare with differences in ownership, maintenance, and documentation.
		 Would like to add in other parameters that would affect the potential for
		pollution like density of septic systems in the area.
•	Recom	mendations:
-	0	Additional data will polish existing rankings and will allow to include additional
		parameters (rate of filtration, land use, pollutants, etc.).
	0	Create a technical sub-committee to iron out these parameters. Similar body to the technical septic committee would be extremely helpful in advising the
		continuation of prioritization rankings.
D '	0 	She'll be back for 2021: Phase 2!
	sion/Qu	
•	•	Ils and possible spills from industry would be great to include, curious if data has
		hard with disaster and emergency services so they have in case of emergencies.
	Goodio	dea as we are hoping to have a rail safety panel in a future meeting.

P	
Ed Lieser, FBC Vice	 Dr. Walter: Emilie is spot on with the importance of updating the data set, things are changing all the time and we would hate to have to go back and update things again. Important to find people that will take this over and keep this information up to date. Emilie: Will be creating a story map as an easily updatable tool that everyone can collaborate on within the basin Technical Committee question- we have a tech for septic leachate effort, do we form multiple committees, or should we have more of a long standing tech committee that would be fluid and bring in/out people but maintain a chair that would provide consistency over time? Kathy: Should be one committee, people can come in and out as the topic changes. But a mutual set of people would be most efficient. Mike: We could develop a broader base with that tech subcommittee. As we move through different subjects the chair can reach out to other experts to include. Creating committees is not in the bylaws so we are just operating as a majority vote to create/continue committees. Executive committee an talk this over separately to flesh out the idea of a tech subcommittee. Steve: Charter of sorts that lays out the objectives and expectations for the committee, so they have direction and some flexibility. On-going water quality committee, whether that should be a standalone committee of folded into the tech subcommittee. ACTION: Add creation of a standing technical subcommittee for various projects to the next executive committee agenda. Steve: Exceptional piece of work to get us data. It is important to know how different municipalities treat stormwater in terms of policies/procedures and to identify if there is consistency in the management/maintenance regimes. Huge benefits of Emilie's work. When windfall completes the website is there potential that we can deploy some of these
Ed Lieser, FBC Vice	
Chair; Mike Koopal,	 Participation: state, municipal, advocacy/lobbyists, concerned citizens (26+)
Whitefish Lake	 Previous Meetings: Dec 18th, Feb 20th, April 2nd, May 29th, July 1st
Institute/FBC; Kate	 Data Needs: GIS/Mapping- risk/vulnerability map; potential verification of
Wilson	model/monitoring
Oracita Maria	 Meet roughly monthly and we identified data needs early on. Have entered a 2-year
Onsite Wastewater	contract through the RFP process for a GIS mapping project with River Design Group.
Treatment Committee updates	 Status Update: Applied for EDA grapt for \$26k to fund synthetic DNA study (Dr. Todd Walter)
	 Applied for EPA grant for \$26k to fund synthetic DNA study (Dr. Todd Walter) Formed Technical Subcommittee to discuss/recommend path forward.

 GIS/Mapping project, phase 2 (2020-2021): Southern end of lake- no electronic
data, new method for that portion of the model.
 Local Government Interim Committee presentation 7/15
 Annotated bibliography of Montana research/studies
 State lands/infrastructure inventory (& associated septic/wastewater policies)
 Committee Report with Recommendations.
Technical Subcommittee Update (Mike Koopal)
• GIS risk assessment model is currently underway. We are having difficulties getting the
data for Lake County & CSKT and are currently working through how to deal with this.
• Staff is working on an annotated bibliography for water quality studies/research in the
Flathead Basin, greater Montana, and beyond.
• Committee is looking to additional studies that can help describe information here in the
basin: remote sensing imagery, eDNA, and synthetic DNA (Dr. Walter).
• Lake Mary Ronan does not have septic information because it is in Lake County.
• We have settled on Whitefish Lake for synthetic DNA study for multiple reasons:
• 1) WLI did a study back in 2011-2012 that created a risk assessment map and
RDG data correlates with that risk assessment map.
\circ 2) We have more specific data on Whitefish Lake than most other waterbodies in
the basin.
 WLI (pro-bono) can do the field investigation here in MT and then ship the
samples to Dr. Walter on the east coast.
Synthetic DNA Overview & Project Concept (Dr. Todd Walter, Cornell University)
• Nonpoint Source Challenge: pollution flows to waterways, we try to see where it comes
from but it's coming from everywhere. There are various tracer options, but challenges
arise with limited number of uniquely different tracers and some tracer compounds
already being abundant in the environment, etc. Using synthetic DNA provides a
compound that has lots of individual tracers that can be distinguished from one another
in the landscape.
Crash Course in DNA:
 4 chemical compounds that distinguish 1 piece of DNA from another (base pairs)
• Base pairs: A, T, C, G are all different bandwidths in the bar code which make the
bar code distinguishable from any another one.
 Human genome: ~3 million base pairs
 Smallest known genome: ~600,000 base pairs
• We use ~100 bases= 1.6 + 60-zeros of unique combinations.
 How does it work: DNA in aquatic environments does not last that long (~month)? We
wrap them in a biodegradable plastic sphere to protect it from the environment (smaller
than microplastics).
• The size, surface, properties, density, and degradation rate of the microsphere can be
controlled during fabrication.
Because we use DNA to label or tag our tracers, we can make nearly limitless uniquely
distinguishable tracers with identical transport properties.
• The tracers can be placed at different places in the landscaper (flushing down the toilets
of many residents). Then water samples are collected at the watershed outlet.
waterbody and collect water samples within an established time frame. Samples are
analyzed on qPCR to determine which traces were in the water sample and their
abundance. The results are used to interpret the hydrologic connections between the
landscape and the stream.
• Skeptical if it would work so they started with experiments small (6 inches tall, 6 feet,
etc.) Upscaled to rivers and streams (.5 mile to a mile long) Then went to an airplane م

	crash site in Sweden to run test on how fast the jet fuel would run into the glacier (kilometer between test sites and tracer implementation).
	Questions/Comments:
	• The assumption is that the tracers will move through the soil similarly to the pollutants that we are concerned about (phosphorous and nitrogen). Level 2 systems filter pollutants. Is this true?
	 They move through the soil as bacteria does, unless there is a UV system that is killing bacteria the tracer would move get through and pollutants wouldn't. Transformations can be made to some pollutions that tracers would not be affected by. Tracers are not going to move in as great of abundance as nitrogen
	does and they would move faster.
	• Tech subcommittee getting together to work out scope of work details. We received the
	EPA grant that will be the funding this project.
Kate Wilson;	Education & Outreach Committee
	• We had steering committee meeting with co-chairs last week. Setting committee up a
Co-Chairs: Lech	little differently regarding the Water Quality campaign. Concept: work with partners in
Naumovich; Casey	the basin that do similar work to get feedback/ideas to implement a large-scale basin
Lewis	wide water quality campaign that could be an umbrella to the different issues we are
	seeing in the basin.
Education &	Status/Objectives:
Outreach	Convene stakeholder team to develop water quality campaign for Flathead Basin
Committee	(project)
	 Solicit buy-in for concept
	 Nov 2020- partner meeting to set goals and timelines
	 Campaign logo/look & feel/materials would be available to all partners to use free of charge
	 Increase consistency and effectiveness of messaging
	 Build respect and conservation attitudes
	 Change problematic behaviors
	 Address multiple water quality objectives and topics
	Support efforts to build new website
	 Support efforts to develop new education and outreach materials
	ACTION: Send FBC E&O meeting invite/introduction email to water quality partners in
	the basin.
	Discussion:
	Will develop scope/mission to have the most contact points in which everyone should
	feel comfortable providing suggestions and insight to use E&O strategically.
	 Long list of folks to reach out to, if you have ideas or suggestions let us know.
	 Basin wide campaign, FBC website would be the home where materials could be
	downloaded and used basin wide from other agencies.
Commission	 Rich Janssen (Chair)- We are doing some amazing and new things I am excited about. I
Chair/Vice Chair	would like the opportunity to continue for at least two years to continue these important
Election	projects. Thank you for the opportunity.
	 Ed Lieser (Vice-Chair): It is an honor to help in anyway, I am dedicated to the FBC mission
	and am truly excited about work with the stormwater and septic leachate group. It has
	been great working with the staff and the executive committee functions very well. I will
	do everything I can to help move the Flathead Basin Commission forward.
	• Election options: renew both chairs for a two-year term or we can move forward with a
	new election.

	<u>Motion</u> to re-elect both chair and vice chair to their respective positions (Jim Simpson). Seconded (Jack Potter). All in favor. <i>Motion passes.</i>			
Public Comment	None			
Kate Wilson Wrap up & Adjournment	 Next meeting dates (2021): Winter- Jan 20th (virtual) Spring- March 31st (TBD/likely virtual) Summer- August 25th (TBD/likely virtual) Meeting dates will be updated on the website. Contact us ahead of time for zoom/call in information has been working well. <u>Motion</u> to adjourn (Lech). Seconded (Jack). All in favor. <i>Motion passes.</i> Meeting adjourned at 12:02pm. 			

4. Action Items						
Action		Assigned	Due Date	Status		
1	Send out draft minutes	Kate Wilson Cassidy Bender	10/07/2020	Completed		
2	Next meeting dates, location and logistics	Kate Wilson	9/29/2020	Completed		
3	Add creation of a standing technical subcommittee for various projects to the next executive committee agenda.	Kate Wilson Cassidy Bender	9/23/2020	Completed		
4	Send FBC E&O meeting invite/introduction email to water quality partners in the basin.	Kate Wilson Cassidy Bender	10/07/2020	Completed		
EXISTING ACTION ITEMS FROM PREVIOUS MEETINGS						
4	Draft joint UC ³ letter on AIS importance/partnerships. Exec Comm to approve before submitting to local papers.	Kate Wilson	2020-21 season	In progress		
5	Work with watershed staff on looking at opportunities that may work for state/federal partnerships	Agencies, Kate Wilson, Cassidy Bender	On-going	On-going		
6	Reach out to other groups in basin for discussion on priority issues and potential partnerships	Kate Wilson, Cassidy Bender	On-going	On-going		
7	Check with EPA and Lake/Flathead Conservation Districts (have watershed restoration plans to address TMDLs)	Kate Wilson	On-going	On-going		
8	Address vacancies and reappointments on FBC –BC rep (ex-officio)	Kate Wilson	On-going	Completed with exception of BC		