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Section   Part	367	401-081	Nancy Schuldt	Fond du Lac Band	·	•	No	3/16/2018	1 1;1
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throughout the entire contross protion of the state to Minnesota under the 1854 Treaty of IsoProceded Territory). Rand members view in those rights to barm, if his may gather natural resources on which those rights telephon. In addition, the food out as Bandis accordingly have a legal interest in protecting natural resources on which those rights depend. In addition, the food out as Bandis accordingly have a legal interest in protecting natural resources on which those rights depend. In addition, the food out as Bandis and outper operation. The food out as Bandis and outper operation entire the federal Clean Water Act for own Report to Band accordingly have a legal interest in protecting natural resources on which these rights to Band and other qualifying persons. Among those government functions are those to protect the environment. With regard to water qualify, the Band has interest members on the design of the store of the state and brief the Minnesos has rights and interest time the rights and interest time the federal Clean Water Act for own Recoveration waters. The Band accordingly has rights and interest to the Protect, and therefore submits bleeve comments as an "interest de proton" induce the Minnesos has rights and interest time protontiative Real-as Additionally, the Bandian has an interest in maintaining the water qualify owners of the State and United States affected by this project, because it is a water qualify wateriory with the Band provided at the public hearing in Duluth on February 8, 2018, the Band fundamentally disagrees with MPCA and any supporting the State and United States affected by this project, be also adversariated under qualify water and provided at the public hearing in Duluth on February 8, 2018, the Band fundamentally disagrees with MPCA and any supporting the State and United States and Even Act and the State and Eve					a cooperating agency on the Project during the National Environmental Policy Act review process, along with the Grand				
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371 401-081 Nancy Schuldt Fond du Lac Band inform our objection to the draft \$401 certification.  II. The Band Has Longstanding Concerns that it has Repeatedly Raised with the State and EPA The Band Has Longstanding Concerns that it has Repeatedly Raised with the State and EPA The Band Has Longstanding Concerns that it has Repeatedly Communicated our concerns that the \$401 certification process has not been sufficiently rigorous to ensure the protection of water under the Clean Water Act and Minnesotal aw and regulations and that from our perspective, the project would not only violate state WQS but also create conditions that could violate tribal WQS and degrade the quality of our water resources downstream. In our comments on the 2009 draft EIS, we noted that MPCA had actually waived certification by default when the USACE germit application was publicly noticed in 2005. As a result, the USACE did in fact re-notice the \$404 permit application, and MPCA did commit to conducting their certification responsibilities.  Additionally, we commented:  As a downstream water quality regulatory agency, Fond du Lac is specifically concerned about this project's potential for further degradation of our most important on-reservation fishery, the St. Louis River. Any additional releases of mercury, or loadings of sulfate that enhance downsteam methylation of mercury and bioaccumulation in fish, is an unacceptable violation of our water quality standards authority.6  In our review of the supplemental draft EIS, we challenged the conclusion that the NorthMet Project Proposed Action would increase mercury loadings in the Embarrass River but decrease mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings to the downstream St. Louis River. 7 As we explained there:  401-011, General 401-011, Gener									
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The Band has repeatedly communicated our concerns that the §401 certification process has not been sufficiently rigorous to ensure the protection of water under the Clean Water Act and Minnesota law and regulations and that from our perspective, the project would not only violate state WQS but also create conditions that could violate tribal WQS and degrade the quality of our water resources downstream. In our comments on the 2009 draft EIS, we noted that MPCA had actually waived certification by default when the USACE permit application was publicly noticed in 2005. As a result, the USACE did in fact re-notice the §404 permit application, and MPCA did commit to conducting their certification  Nancy Schuldt  Fond du Lac Band  As a downstream water quality regulatory agency, Fond du Lac is specifically concerned about this project's potential for further degradation of our most important on- reservation fishery, the St. Louis River. Any additional releases of mercury, or loadings of sulfate that enhance downstream methylation of mercury and bioaccumulation in fish, is an unacceptable  Nancy Schuldt  Fond du Lac Band  violation of our water quality standards authority.6  In our review of the supplemental draft EIS, we challenged the conclusion that the NorthMet Project Proposed Action would increase mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings in the Dararass River but decrease mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings in the Dararass River but decrease mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings in the downstream St. Louis River.7 As we explained there:	371	401-081	Nancy Schuldt	Fond du Lac Band	•	General Permit;#10	No	3/16/2018	5 2;2
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perspective, the project would not only violate state WQS but also create conditions that could violate tribal WQS and degrade the quality of our water resources downstream. In our comments on the 2009 draft EIS, we noted that MPCA had actually waived certification by default when the USACE permit application was publicly noticed in 2005. As a result, the USACE did in fact re-notice the §404 permit application, and MPCA did commit to conducting their certification  372 401-081  Nancy Schuldt  Fond du Lac Band responsibilities.  As a downstream water quality regulatory agency, Fond du Lac is specifically concerned about this project's potential for further degradation of our most important on- reservation fishery, the St. Louis River. Any additional releases of mercury, or loadings of sulfate that enhance downstream methylation of mercury and bioaccumulation in fish, is an unacceptable  Nancy Schuldt  Fond du Lac Band  violation of our water quality standards authority.6  In our review of the supplemental draft EIS, we challenged the conclusion that the NorthMet Project Proposed Action would increase mercury loadings in the Embarrass River but decrease mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings to the downstream St. Louis River. As we explained there:  401-11B, Mercury -  Water Quality;#47  No 3/16/2018 7  3/2					The Band has repeatedly communicated our concerns that the §401 certification process has not been sufficiently rigorous				
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actually waived certification by default when the USACE permit application was publicly noticed in 2005. As a result, the USACE did in fact re-notice the \$404 permit application, and MPCA did commit to conducting their certification  72 401-081 Nancy Schuldt Fond du Lac Band responsibilities.  8372 401-081 Roman Additionally, we commented:  84 Additionally, we commented:  85 Additionally, we commented:  86 As a downstream water quality regulatory agency, Fond du Lac is specifically concerned about this project's potential for further degradation of our most important on- reservation fishery, the St. Louis River. Any additional releases of mercury, or loadings of sulfate that enhance downstream methylation of mercury and bioaccumulation in fish, is an unacceptable will accommend additional violation of our water quality standards authority.6  8401-081 Nancy Schuldt Fond du Lac Band violation of our water quality standards authority.6  8401-11B, Mercury - Water Quality;#47 No 3/16/2018 7 3;2  8502 No 3/16/2018 7 3;2  8502 No 3/16/2018 7 3;2  8503 No 3/16/20					perspective, the project would not only violate state WQS but also create conditions that could violate tribal WQS and				
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an overall reduction in mercury loadings to the downstream St. Louis River.7 As we explained there:  401-11B, Mercury -									
37/1/1/11-UXI INDITED SON TO COMMON STREET OF COMMON STREET OF COMMON CONTROL OF THE CONTROL OF TH	27/	401-081	Nancy Schuldt		<> Refer to comment attachment to view the EIS comments listed for this topic.	•	Yes, Excerpted	3/16/2018	8 3;3
		404.534			increase mercury loadings in the Embarrass River but decrease mercury loadings in the Partridge River, with the net effect of an overall reduction in mercury loadings to the downstream St. Louis River.7 As we explained there:	401-11B, Mercury -		0 14 6 10 = 15	

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				Subsequent to the DEIS, as the co-lead agencies were determining the information needs to conduct a supplemental					
				environmental review, the USACE asked the Band to clarify our WQS program and concerns as a downstream regulator. The					
				Band responded:					
				<> The USACE and other co-lead agencies ultimately declined to require that assessment. <> Refer to comment					
				attachment to view the Band response to USACE (related to the EIS) which requests the collection of mercury data in biota	401-11A, Mercury -				
375	401-081	Nancy Schuldt	Fond du Lac Band	to characterize current conditions in and around the proposed project area.	Limits;#46	Yes, Excerpted	3/16/2018	9	4;2
				But the Band's concern for protecting downstream aquatic resources is not limited to mercury impacts. We have also clearly					
				communicated our concerns to the state and federal regulatory agencies about protecting our efforts to reestablish lake					
				sturgeon in the St. Louis River upstream of the estuary, where state stocking efforts have been focused. From our SDEIS					
					401-05B, Scope MPCA				
376	401-081	Nancy Schuldt	Fond du Lac Band	<> Refer to comment attachment to view the EIS comments listed for this topic.	Other Permit;#28	Yes, Excerpted	3/16/2018	10	5;3
				Again, the co-lead agencies declined to address this water quality concern in the supplemental EIS, and repeated their same					
				claim of "an overall reduction in mercury loadings to the downstream St. Louis River upstream of the Fond du Lac					
				Reservation boundary. Therefore the NorthMet Project Proposed Action would not add to any potential exceedance of the					
				Fond du Lac mercury water quality standard of 0.77 ng/l within the reservation."14 This conclusion in the FEIS was simply an					
					401-05B, Scope MPCA				
377	401-081	Nancy Schuldt	Fond du Lac Band	increase in mercury loading to the Embarrass River would be a violation under the CWA and Great Lakes Initiative.	Other Permit;#28	No	3/16/2018	11	6;3
3,,	401 001	runey sendiat	Torra da Lac Barra	III. Actions the MPCA Should Take	Other remit, ii 20	110	3/10/2010	111	0,3
				As the Band's prior comments and the comments below describe, PolyMet has not shown that it will comply with all					
				applicable pollution control statutes and rules, or the conditions of the permit. For that reason, the MPCA should not issue					
					401-01A, General				
				pending problems with the draft permit to mine and draft NPDES/SDS permit that are discussed here, and show that	Opinion;#1;#401-01J,				
270	401-081	Nancy Schuldt	Fond du Las Dand	PolyMet will be able to comply with all applicable federal and state laws.	General Permit;#10	No	3/16/2018	12	6.4
3/6	401-061	ivality Stilulut	FOIIU UU LAC BAIIU	IV. The Band's Comments and Reasons Supporting Them	General Permit,#10	No	3/10/2018	12	6;4
				Both federal regulations and Minnesota rules require that a § 401 certification only be issued if "there is a reasonable					
				assurance that the activity will be conducted in a manner which will not violate applicable water quality standards."16 MPCA					
				must deny §401 certification if it finds that the proposed permittee "will not comply with all applicable state and federal	404 041 Cananal				
270	404 004	Name Cala Isla	Food de Loopeed	, , , , , , , , , , , , , , , , , , , ,	401-01J, General	NI -	2/46/2040	4.2	7.0
3/9	401-081	Nancy Schuldt	Fond du Lac Band	all facts relevant to the facility or activity to be permitted."17	Permit;#10	No	3/16/2018	13	7;2
				In comments submitted to the MPCA regarding the draft PolyMet NPDES/SDS permit, the Band asserts there is ample	401-10A, Permit				
				reason to expect the project to violate applicable water quality standards, but MPCA has not established a sufficient	Conditions - Review		0 /4 0 /0 0 4 0		
380	401-081	Nancy Schuldt	Fond du Lac Band	monitoring system (surface and groundwater) to be able to detect violations at either the mine site or plant site.	Process;#44	No	3/16/2018	14	7;2
					401-04A, PolyMet				
				There are substantial information gaps at this late point, after environmental review, regarding both the extent of direct	Reports;#25;#401-				
				wetland impacts and the verifiable adequacy of proposed mitigation. PolyMet has failed to provide vital analysis of project	07A, Mitigation -				
					Adequacy;#35;#401-				
381	401-081	Nancy Schuldt	Fond du Lac Band	disturbance, and from plant site and mine site seepage that is not captured or is directly discharged.	11B, Mercury - Water	No	3/16/2018	15	7;2
					401-11A, Mercury -				
				point, and MPCA has not imposed a mercury limit on the tailings basin discharge at SD026 proposed for dewatering the	Limits;#46;#401-13A,				
				former LTVSMC tails in preparation for constructing the additional dams, buttressing and seepage collection system for their	_				
382	401-081	Nancy Schuldt	Fond du Lac Band		and Water;#51	No	3/16/2018	16	7;2
					401-11D, Mercury -				
383	401-081	Nancy Schuldt	Fond du Lac Band		Public Protection;#49	No	3/16/2018	17	7;2
				In short, the overarching question here is whether the grant of a § 404 federal permit by the Army Corps of Engineers	401-05B, Scope MPCA				
				wetlands permit result in violations of water quality standards? For the reasons discussed below, the Band believes that it	Other				
384	401-081	Nancy Schuldt	Fond du Lac Band	will.	Permit;#28;#401-05D,	No	3/16/2018	18	7;3

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				1 Wetland Impacts Remain Unresolved Because of a Lack of Necessary, Relevant Facts on Wetlands Delineation and the					
				Selected Mitigation Bank					
				The NorthMet mine project, if permitted, would result in the largest wetlands destruction ever to be approved in this region					
				of the U.S. Army Corps since the Clean Water Act was adopted. PolyMet acknowledges that its project would result in 930					
				acres of complete loss of wetlands and peatlands from direct removal or immediate fragmentation. PolyMet proposes to	401-01H, General				
				impact 127 wetlands, covering a total of approximately 930.2 acres. Direct impacts from excavation and/or fill are proposed	Resource;#8;#401-				
				for 903.3 acres of wetland, and the remaining 26.9 acres would become fragmented wetlands (the remnants of a directly	01K, General Mining				
385 40	01-081	Nancy Schuldt	Fond du Lac Band	impacted wetland).	Impacts;#11	No	3/16/2018	19	7;4
				PolyMet has proposed to mitigate the impacts through the purchase of no less than 1282 credits from the Lake Superior					
				Wetland Mitigation Bank, located in the St. Louis River watershed. Arrangements for this credit purchase are already in	401-07B, Mitigation -				
386 40	01-081	Nancy Schuldt	Fond du Lac Band	place, including any necessary approvals from the Minnesota Board of Soil and Water Resources.19	Banking;#36	No	3/16/2018	20	8;2
				But the Band has challenged this accounting of direct wetland impacts, in our comments to the MNDNR on the draft permit					
				to mine: [B]ased upon an updated GIS analysis done by Dr. Coleman at GLIFWC last summer,20 the Band believes this					
				fundamental inventory of direct wetland impact acreage has not been confirmed. This issue was raised with the U.S. Army					
				Corps, U.S. Environmental Protection Agency, and U.S. Forest Service staff well before the revised application for the permit					
				to mine was released. At a meeting held at Fond du Lac Resource Management on August 8, 2017, Dr. Coleman presented					
				the results of his analysis which suggests that wetland acreage at the PolyMet mine site may be more than identified during					
				the EIS process, and proposed an approach to resolve the uncertainty raised by his analysis. Dr. Coleman's analysis relied					
				upon newer, higher resolution Lidar elevation data than what was used for PolyMet's original wetland delineation. Using					
				slope analysis and GIS analytical routines, he identified 'lowlands' (i.e., potential wetlands) within the PolyMet mine site					
				project area or in the direct impact footprint that represented up to 28% more area as likely wetlands than PolyMet's					
				analysis. Dr. Coleman suggested that, because of this discrepancy, it would be prudent to verify a set of random points	401-04A, PolyMet				
387 40	01-081	Nancy Schuldt	Fond du Lac Band	within the areas where his and PolyMet's estimates differ.		No	3/16/2018	21	8;2
		,		He proposed that he accompany USACE, MNDNR and PolyMet staff to conduct a field verification, but PolyMet refused to			, 20, 2020		-/-
				allow him access to the site. The Band understands that staff from the USACE conducted a field verification exercise in					
				September, but to date, despite numerous direct requests to USACE management, we have not been provided with the	401-05C, Scope -				
				results of that verification, or even a report of the methods used. Since so many regulatory decisions are based upon the	Other State				
				determination of directly- impacted wetlands at the mine site, it is imperative that this basic inventory be accurate. The	Agency;#29;#401-05D,				
				MDNR should not issue a permit to mine for this project until this issue is resolved with a clear analysis of the field	Scope-Federal				
388 40	01-081	Nancy Schuldt	Fond du Lac Band		Agency;#30	No	3/16/2018	22	8;3
300 10	01 001	runey senarae	Torra da Lac Barra	When we questioned MPCA staff about their understanding of the status of this wetland field verification at a tribal	, igency),iio		3/10/2010		0,0
				consultation on March 1, 2018, they responded that to their knowledge, that verification had not been completed and they					
				were incorporating the original EIS acreage in their permitting documents. The Band has since learned, through a third					
				party, that the US Army Corps of Engineers had indeed discovered discrepancies between the original delineation and					
				random field checks of Dr. Coleman's updated delineation, at a field visit in September 2017.21 The Corps has evidently	401-04A, PolyMet				
289 10	01-081	Nancy Schuldt	Fond du Lac Band	tasked PolyMet with verifying the wetland delineation, but has not yet received a report from the company.	· · ·	No	3/16/2018	23	9;2
303 40	01 001	ivancy Schalat	Toria da Lac Baria	The full and proper delineation of the wetlands impacted by the project obviously constitute "facts relevant to the facility or	ПСРОГСЗ,#23	IVO	3/10/2018	23	J,Z
				activity to be permitted" since the replacement of the impacted wetlands acreage is necessary under state law. Certainly, no	101-01C General Data				
				permits should be issued until this most fundamental environmental analysis has been completed and fully scrutinized by all					
					10B, Permit				
200 40	01 001	Nancy Schuldt	Fond du Las Band	EIS. Not only is the directly-impacted wetland acreage vital to accurately inventory, but the wetland types must also be	Conditions -	No	2/16/2019	24	0.2
59U 4L	01-081	Nancy Schuldt	Fond du Lac Band		Assessments;#45	No	3/16/2018	24	9;3
				It is impossible to have trust in the regulatory process when inaccurate baseline information has been incorporated into					
				multiple permitting decisions, especially for a project as large, controversial, and environmentally risky as this one, and after	404 04F C				
				more than ten years of review. For the Band – and the public – to have confidence in a new, accurate direct wetland impact					
				acreage total, the Corps should be taking responsibility for that validation. In the meantime, the MPCA should withdraw its	Agencies;#6;#401-04B,		0/10/2015		
391 40	01-081	Nancy Schuldt	Fond du Lac Band	draft §401 certification until a legitimate correction to this primary data element is provided.22	PolyMet MPCA;#26	No	3/16/2018	25	9;3

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			2 The Proposed Wetland Mitigation May Not Be Sufficient, and the Suitability of the Wetlands Bank Must be Addressed					
			The CWA § 401 certification Fact Sheet states "The Wetland Replacement Plan provides updated information that is					
			consistent with PolyMet's request for 401 Certification, its application for a Permit to Mine, and with the information					
			currently submitted by PolyMet to USACE as part of the Section 404 permitting." As the Fact Sheet indicates, both federal					
			and state laws and regulations protect wetlands and govern PolyMet's proposed mine. Minnesota law provides that it is the					
			policy of the State to preserve wetlands23, and requires that permits to mine must include a wetlands replacement plan					
			approved by the MDNR commissioner.24 That plan must "replace the public value of wetlands lost" from the permitted					
			activity, according to a set formula by which the lost wetlands are replaced by a certain amount of new wetlands.25 This					
			may be done through purchasing credits from an approved wetland bank.26 The bank offers credits based on the work it					
			does to establish or restore wetlands, according to the type of land restored and the sort of work that the bank does.27					
			Credits are then obtained according to a "minimum replacement ratio" under which a permittee must obtain a certain					
				401 01H Conoral				
			amount of credits for each acre impacted, according to the type of wetland impacted and the location of the replacement	401-01H, General				
			wetland.28 In short, then, the amount of replacement credit a permittee can purchase depends on the amount of acres	Resource;#8;#401-				
			being impacted – in PolyMet's case, outright destroyed – the location of the replacement acres, and what exactly the bank is					
92 401-081	Nancy Schuldt	Fond du Lac Band	doing to restore wetlands.	Adequacy;#35	No	3/16/2018	26	9;4
			There are serious and substantial questions about whether the proposed wetland replacement program meets these					
			requirements and the absence of relevant information prevents a determination on whether compliance can be verified.	401-07B, Mitigation -				
93 401-081	Nancy Schuldt	Fond du Lac Band	More information needs to be released about what the bank is doing and whether they can meet the ratios required here.	Banking;#36	No	3/16/2018	27	10;2
			As the Band submitted to the MNDNR in comments on the draft Permit to Mine, <> we are not able to verify that the					
			wetland bank that is the source for mitigation credits has sufficient credits available to replace the public value of the					
			wetlands that will be lost at the site. The Band objects to approval of the wetland replacement plan at this time; the	401-07B, Mitigation -				
94 401-081	Nancy Schuldt	Fond du Lac Band	necessary and required information for the application has not been included.	Banking;#36	Yes, Excerpted	3/16/2018	28	10;3
			The Band has sought clarifying information about the quality, condition, and status of the wetlands in the bank with whom					
			PolyMet has purportedly secured a purchase agreement (EIP Credit Co. LLC; Lake Superior Wetland Bank). We have only					
			been able to learn that very few acres of wetland qualify as 'restored', since the bank 'restoration' has only involved					
			plugging ditches with felled trees in drained peatlands. There has not been any vegetation enhancement, and it is uncertain					
			that appropriate hydrology has been reestablished, since this wetland bank was only certified a few years ago. In fact, as	401-07A, Mitigation -				
			recently as March 2013, the state wetland Technical Evaluation Panel (TEP) raised substantial criticisms in its findings and	Adequacy;#35;#401-				
NE 404 004	Nana Calada	Family de Lan David	recommendations after reviewing EIP's Concept Plan.29 The vast majority of the credits available were ultimately classified	07B, Mitigation -	NI.	2/16/2010	20	11.1
95 401-081	Nancy Schuldt	Fond du Lac Band	as 'preservation', which should demand a substantially higher replacement ratio required than for restored wetlands.	Banking;#36	No	3/16/2018	29	11;1
			Given that a majority of the wetlands in the Wetland Replacement Plan are not actually restored wetlands, it is clear that	401-07A, Mitigation -				
			the CWA §404 permit will result in a net loss of wetlands in the St. Louis River watershed and the 1854 Ceded Territory,	Adequacy;#35;#401-				
			· · ·	07B, Mitigation -				
96 401-081	Nancy Schuldt	Fond du Lac Band	of high quality treaty resources.	Banking;#36	No	3/16/2018	30	11;1
			There are more significant questions about whether the chosen mitigation bank can actually deliver on an adequate					
			mitigation of the wetlands that PolyMet will destroy. In 2014, the bank submitted its draft mitigation bank plan to an					
			Interagency Review Team, of which the EPA was a part, seeking approval for operation as a wetland bank under the Federal					
			Mitigation Rule, 40 C.F.R. pt. 230, subpt. J.30 EPA raised significant concerns about many elements of the proposed plan,					
			including "[l]ack of hydrologic and hydraulic analysis to depict site conditions and site design," "[l]and title acquisition status					
			from the County and/or State and obstacles anticipated in obtaining title to these lands," "long term management"					
			including "the need to develop a Plan, which discusses specific activities to be undertaken after release from monitoring					
			with a discussion of how these activities will be funded (in perpetuity)," the need to develop a management strategy to					
			address potential unforeseen changes in site conditions," and the establishment of performance standards.31 And as					
				401 07C Mitigation				
07 404 224				401-07C, Mitigation -		0/46/00:5	0.4	14.0
97 401-081	Nancy Schuldt	Fond du Lac Band	and how it could credit some lands for enhancement, that were actually preservation areas.32	Location;#37	No	3/16/2018	31	11;2

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			Before the certification is issued, there should be an accounting of how these issues were addressed, if at all, before the bank was authorized to offer credits. This is especially important given that, as far as the Band is aware, this bank has never been involved in such a large mitigation plan.  The use of the 1:1 replacement ratio for these wetlands is also totally insufficient. Wetland replacement must "be of a size sufficient to ensure that it provides equal or greater public value than the impacted wetland it will replace."33 The wetlands PolyMet will destroy are exceptionally high quality given their biodiversity. All that is known about the bank's replacement wetlands indicates that they are not nearly as high quality, and they only address mitigation for one wetland type (Type 8), whereas the PolyMet project needs to mitigate six wetland types. A 1:1 ratio will therefore not replace the "public value" of					
			the wetlands that will be destroyed. The draft permit must be revised to either increase the ratio to ensure that the bank provides more replacement wetlands, or that the replaced wetlands are of a higher quality. If the current bank cannot make	401-07A, Mitigation -				
398 401-081	Nancy Schuldt	Fond du Lac Band		Adequacy;#35	No	3/16/2018	32	11;2
399 401-081 400 401-081	Nancy Schuldt  Nancy Schuldt		existing and beneficial uses will be protected, and the proposed activity is necessary to accommodate important economic or social changes in the geographic area in which degradation of existing high water quality is expected. However, PolyMet's wetlands mitigation plan that supports this determination is not sufficient to meet the antidegradation standards, because it relies on an incomplete wetlands delineation.  The Minnesota Administrative Rules provide that §401 certifications for new federal licenses can only be issued when "existing uses and the level of water quality necessary to protect existing uses are maintained and protected."35 Existing uses can be preserved by "compensatory mitigation when there is a physical alteration to a surface water" only when certain conditions are met, including that prudent and feasible alternatives are not available to avoid or minimize adverse impacts, the mitigation is sufficient in quality and quantity to ensure replacement of the lost surface water, the mitigation is accomplished by "establishing or enhancing a surface water of the same type," and that it occurs within the same watershed	Antidegradation - Water Quality;#42;#401-09B, Antidegradation - Review Process;#43  401-09A, Antidegradation - Water Quality;#42;#401-09B,	No	3/16/2018		12;2
			If a permittee is seeking compensatory mitigation, then it is required to provide to the MPCA a proposed compensatory mitigation plan.37 The plan must, among other things, provide a "description of how compensatory mitigation will establish sufficient quality and quantity of uses to preserve existing uses and the level of water quality" needed to preserve them, and "a proposal for monitoring and reporting the changes in existing uses and the level of water quality necessary to protect existing uses of the surface waters in which mitigation will occur."38 Because PolyMet proposes to destroy an extensive	401-07B, Mitigation -				
401 401-081	Nancy Schuldt	Fond du Lac Band	area of wetlands that are "surface waters" under Minnesota law, it has submitted a wetland mitigation plan that it claims will meet these standards.39 However, it is far from clear that PolyMet's proposed mitigation plan is sufficient, and the §401 certification should not be granted until these issues with the antidegradation standards can be addressed.  The Band has expressed our concerns regarding the incomplete wetland delineation at this critical moment where the public has its single opportunity to review relevant draft permits, and our conclusion that the wetland replacement plan will result in a net loss of wetlands.  Those issues alone should be cautionary indication that PolyMet has not provided sufficient evidence that their proposed project will not result in water quality exceedances or degradation of aquatic resources, and the §401 certification should	Banking;#36;#401- 09A, Antidegradation - Water Quality;#42	No	3/16/2018	35	13;2

rt ID	Commenter #	Commenter Name	Commenter Org	Comment Text	Theme Number	Comment	Date	Comment #	Page;Paragraph
403	401-081	Nancy Schuldt	Fond du Lac Band	The Project would disturb 1,725 acres of surface lands at the Mine Site and have the greatest effect on upland forest land cover types. The majority of additional ground disturbance for the Project, including approximately 2,190 acres of Plant Site (including the Colby Lake Pipeline Corridor) and 120 acres of Transportation and Utility Corridors will occur in already disturbed locations.40		No	3/16/2018	37	13;4
404	401-081	Nancy Schuldt		This description of the 'footprint' of the PolyMet project deliberately downplays the significance of a thousand-acre wetland direct destruction (accuracy as yet unconfirmed) and leaves unstated the potential for thousands more acres of indirect wetland impacts. It exaggerates the predominance of 'already disturbed locations' by neglecting to account for the relatively unimpacted condition of the transportation and utility corridors and the new wetland disturbances that will occur at the toe of the flotation tailings basin (FTB). Yet it completely fails to acknowledge easily predictable impacts such as mercury release from peatland disturbance as the case for nondegradation is being introduced, despite numerous comments from multiple parties during environmental review.	401-09A, Antidegradation - Water Quality;#42;#401-09B, Antidegradation -	No	3/16/2018	20	14;2
			Fond du Lac Band	For example, In addition to waste rock sources for mercury, much of the overburden to be excavated prior to mining will contain peat. Peat preferentially sequesters mercury, largely from atmospheric sources, by binding with sulfate groups present in organic matter. Peat can sequester more than 20 times atmospheric emission levels, a rate significantly higher than other land types (Grigal 2003). The peat-rich overburden will be used onsite for construction and reclamation purposes and will be subjected to periodic wetting and drying cycles. Recent research has shown that repeated wet-dry cycles cause oxidative release of mobilized sulfate, mercury, and in particular, methylmercury (Wasik et al. 2015). The latter compound is particularly toxic as it is more readily available for uptake in organisms and tends to biomagnify in the food chain. Similarly, water level fluctuations that would be a part of any groundwater/surface water discharge downgradient of the containment barrier will produce increased mercury mobilization. No analysis of this transport mechanism in groundwater or surface water is provided in the FEIS.41 The MPCA cannot determine whether the discharge of water from the mine site will comply with water quality standards until the necessary studies are done analyzing the release of mobilized sulfate, mercury, and methylmercury from the stored peat overburden. The §401 certification cannot be issued until this is complete and a determination made that the water quality standards can be met.42	401-07B, Mitigation - Banking;#36;#401- 09A, Antidegradation -	No	3/16/2018		14;3
406	401-081	Nancy Schuldt	Fond du Lac Band	the MPCA cannot find that water quality standards in those surface waters will be maintained. Accordingly, the §401 certification should not be granted until such modeling is done and can be assessed.	401-01J, General Permit;#10;#401-04A, PolyMet Reports;#25	No	3/16/2018	40	14;4
407	401-081	Nancy Schuldt		6.Additional Sources of Mercury Have Not Been Adequately Considered Based on environmental review documents, the hydrometallurgical waste facility would sulfate concentrations above 7,300 milligrams per liter (mg/L), 700 times Minnesota's wild rice sulfate standard and, over the proposed 20 years of operations, would hold 3,280 pounds of highly toxic mercury44  •The hydrometallurgical waste facility would be built on an unstable foundation, including wetlands and slimes, immediately adjacent to a stream. The draft state agency permits we have reviewed do not require PolyMet to excavate unstable foundations, or ship concentrated waste to a dedicated waste storage facility in a safer location. The WWTS discharge has a limit in the draft NPDES/SDS permit of 1,000 ng/l and 2,000 ng/l, based upon new source guidelines. The GLI criterion is the applicable standard for any receiving water in the Great Lakes Basin. This represents a significant new source of mercury to waters that are already impaired for mercury and do not have a TMDL.	401-05B, Scope MPCA Other Permit;#28	No	3/16/2018	41	15;4

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				7.There is Inadequate Treatment to Meet Mercury Limit					
				PolyMet's claim that mercury concentrations in existing LTVSMC tailings seepage is below the 1.3 ng/L Great Lakes Initiative					
				(GLI) water quality standard is based on selective and misleading reporting of available information. Even though PolyMet					
				claims that passing through LTVSMC tails reduces mercury in water, FEIS data on existing conditions at the tailings site					
				clearly contradicts this claim. Mean mercury concentration in the existing Cell 2E pond is 1.4 ng/L; at the toe of the existing					
				tailings facility mercury concentrations range as high as 153 ng/L with a mean concentration of 4.9 ng/L. Contrary to	401-11B, Mercury -				
				PolyMet's assertion, data presented in the FEIS shows that in passing through existing LTVSMC tailings, mean mercury	Water				
				concentration more than triples.45	Quality;#47;#401-12A,				
408	401-081	Nancy Schuldt	Fond du Lac Band	<>Comment provides Table 4.2.2-23 Existing Pond Water and Groundwater Quality at the Toe of the Tailings Basin	Tailings - Seepage;#50	Yes, Excerpted	3/16/2018	42	15;7
				The information available in the draft NPDES/SDS permit and draft permit to mine shows that the PolyMet surface discharge					
				from its wastewater treatment system, without definitive treatment for mercury removal, may cause or contribute to					
				exceedances of Minnesota's Lake Superior Basin water quality standard for mercury46, and exacerbate existing impairments					
				for mercury in the water column and in fish tissue in the Embarrass River, the Embarrass chain of lakes and other					
				downstream waters.					
				For outstanding international resource waters (OIRWs) of the Lake Superior Basin, which includes all receiving waters					
				downstream of the PolyMet project, if a designated use of the water body is impaired, "there can be no lowering of the					
				water quality with respect to the GLI [Great Lakes Initiative] pollutants causing the impairment."47 These waters					
				downstream of the project are all impaired due to mercury in the water column or methylmercury in fish tissue; therefore					
				no further impairment may be allowed. The §401 certification should be withheld until compliance with these standards can	401-11B, Mercury -				
409	401-081	Nancy Schuldt	Fond du Lac Band		Water Quality;#47	No	3/16/2018	43	16;2
				, , ,	401-03E, Permit				
				Not Properly Considered in the Draft Certification	Agency;#24;#401-11B,				
				· · · · · · · · · · · · · · · · · · ·	Mercury - Water				
410	401-081	Nancy Schuldt	Fond du Lac Band	and omissions and general lack of critical data in PolyMet's portrayal of their mercury impacts.	Quality;#47	No	3/16/2018	44	17;2
				From comments on the final EIS: The background site-specific analyses and data presented in the FEIS for total mercury and					
				methylmercury in surface and groundwater is not sufficient to either adequately describe existing conditions or evaluate the					
				potential for impact due to changes in hydrology and water quality as a result of the NorthMet Proposed Project. There is					
				very little methylmercury data included in the analysis for any waterbodies, and there is no sediment mercury or					
				methylmercury data used to evaluate and understanding existing conditions. For the data that is presented, there are					
				numerous inconsistencies in reporting limits and method detection limits, casting doubt on data quality and its utility for					
				critical analysis of Project impacts.					
				The Band echoed the expert review conclusions provided by Dr. Brian Branfireun to WaterLegacy in their comments on the	401-11B, Mercury -				
411	401-081	Nancy Schuldt	Fond du Lac Band		Water Quality;#47	No	3/16/2018	45	17;3
					401-05C, Scope -				
					Other State				
					Agency;#29;#401-05D,				
/112	401-081	Nancy Schuldt	Fond du Lac Band	<> The commenter provides FEIS comments that list deficiencies in data presented in the FEIS.	Scope-Federal	Yes, Excerpted	3/16/2018	46	17;5

Sort ID	Commenter #	Commenter Name	Commenter Org Comment Text	Theme Number	Comment	Date	Comment #	Page;Paragraph
			n his discussion regarding the MPCA's Mercury Risk Estimation Method (MMREM), Branfireun refutes the assumption of					
			proportionality between mercury deposition and mercury in fish. He considers it an 'archaic approach' which "does not					
			reflect current scientific through or the best available tools." He cautions that "without knowledge concerning the					
			hydrological interactions between surface waters and the watershed, predictions about the dominant source(s) of mercury					
			to biota are not possible. <> This conclusion itself is a clear and compelling argument against the §404 permit and the §40	<u> </u>				
			certification for the NorthMet Project. To further connect the technical flaws the Band has identified in the FEIS to Project mercury impact predictions, Branfireun established the correlation between wetland drawdown and enhanced mercury					
			methylation. Project changes to the natural hydrology of the mine site and at the tailings basin will amplify drought-					
			rewetting cycles, and:					
			independent of any additional releases of sulfate or mercury from the proposed NorthMet development, dewatering of					
			wetlands surrounding the tailings basin through seepage collection and even modest impacts on water table position by					
			underdrainage of mine site peatlands through open pit dewatering could increase total mercury, methylmercury and sulfate					
			in the Partridge, Embarrass and ultimately the St. Louis River.					
			Branfireun also provides a clear analysis of Project sulfate deposition impacts, demonstrating that the atmospheric sulfate					
			loading from the Project would be nearly 4X the background sulfate deposition. The experimental wetland research					
			conducted by Jeremiason and Coleman- Wasik showed significant increases in pore water methylmercury, methylmercury	401-11B, Mercury -				
413	401-081	Nancy Schuldt	Fond du Lac Band export and sulfate regeneration at enrichment levels equivalent to the Project's potential increase in deposition.	Water Quality;#47	Yes, Excerpted	3/16/2018	47	19;4
		,		, ,,				
			In his concluding statement, Branfireun completely disputes the FEIS conclusion that the proposed NorthMet Project would					
			not increase risks of methylmercury production and transport in the Partridge and Embarrass River watersheds <> The					
			FEIS evaluation of mercury impacts is exceptionally deficient, and the conclusion of 'no mercury impacts' downstream in the					
			St. Louis River watershed is not supported by the information presented. Our analysis and the expert opinions of mercury					
			researchers conclude that the FEIS approach is not scientifically defensible, and the NorthMet Project is likely to result in					
			significant and long-lasting downstream mercury impacts to aquatic life, wildlife and human health. Furthermore, the Band					
			would bring attention to the alarming lack of regulatory controls for the very processes that will most likely contribute to	401-11B, Mercury -				
414	401-081	Nancy Schuldt	Fond du Lac Band the identified mercury impacts, with the sole exception of the §404 permit and connected §401 certification.	Water Quality;#47	Yes, Excerpted	3/16/2018	48	21;1
			To date, neither MPCA nor any of the state or federal co-lead agencies for the environmental review have specifically					
			responded to these well-supported analyses. The Band is convinced that the PolyMet project, when examined holistically for	r				
			its direct and indirect impacts to surrounding watersheds and waterways, will contribute to mercury exceedances in					
			downstream and downgradient waters, and will contribute to existing wildlife and human health impairments. Section 401	401-11B, Mercury -				
415	401-081	Nancy Schuldt	Fond du Lac Band certification should not be issued for the project as it cannot comply with all applicable pollution control requirements.	Water Quality;#47	No	3/16/2018	49	21;4
			9.The Cross-Media Mercury Analysis Is Insufficient					
			The cross-media mercury analysis has been strangely (or strategically) constrained from evaluating many obvious pathways					
			for mercury release and methylation. PolyMet explicitly excludes any effects of mercury in tailings basin seepage in the					
			"water component" of their cross-media analysis of mercury and methylmercury, again assuming it "will be collected be	401-11B, Mercury -				
			collected by the FTB seepage capture systems."53 But more broadly, any impacts of mercury seepage cannot be included in	Water				
			the mercury analysis, because PolyMet has not been required to characterize mercury in wastes or wastewater either	Quality;#47;#401-12A,				
416	401-081	Nancy Schuldt	Fond du Lac Band during environmental review, or in its Permit to Mine and NPDES/SDS permit applications.	Tailings - Seepage;#50	No	3/16/2018	50	21;5
			PolyMet is proposing that any mine site water not in direct contact with mining surfaces, OSLA storage or construction will					
			be considered non-contact "stormwater." This stormwater will not be managed to prohibit the release of dissolved or					
			suspended contaminants to surrounding surface waters, including wetlands. The stormwater "will be separated from mine					
			water and controlled through a system of ditches, dikes, and ponds; and will discharge off-site either directly or after being					
			routed through on-site sedimentation ponds to reduce total suspended solids (TSS)."54 PolyMet has not provided any					
			analysis for either the effect of mercury in mine site stormwater, or the effect of sulfate in stormwater on mercury					
			methylation within the "wetland of interest" or any other adjacent wetlands that may receive captured mine site					
			stormwater. Despite this omission, it should be recognized by the regulatory agencies that all stormwater channeled off the					
			proposed PolyMet mine would effectively be "contact" stormwater because of the ubiquitous deposition of reactive dust					
			from blasting and hauling.	401 OFP C NAPCA				
417	401 001	Nancy Cobulds	The impacts of this direct surface water drainage to wetlands and streams adjacent to the proposed PolyMet mine must be			2/16/2010	E1	22.2
41/4	401-081	Nancy Schuldt	Fond du Lac Band included in any cumulative analysis of the impacts of the project on mercury release, methylation and transport.	Other Permit;#28	No	3/16/2018	21	22;2

		Comments, as organ			Theme Number	Comment	Date	Comment #	Page;Paragraph
			3	The cross-media analysis also fails to evaluate the impacts of loading inorganic mercury directly to wetlands, which are					3.7
				primary sites for methylation. In spite of more than thirteen years of planning for the NorthMet project, PolyMet has not					
				been required to monitor the wetlands into which treated tailings basin seepage would be discharged. Barr's memo on the					
					401-11B, Mercury -				
				the tailings facility, rather than the Trimble Creek and Unnamed Creek headwater wetlands, because "No mercury	Water				
				monitoring has been conducted in these wetlands."55 This critical data gap has been noted in the Band's comments on the	Quality;#47;#401-12A,				
/118	401-081	Nancy Schuldt	Fond du Lac Band	draft NPDES/SDS permit as well.	Tailings - Seepage;#50	No	3/16/2018	52	22;3
710	401 001	Namey Schalat	Toria da Lac Baria	PolyMet neglected to incorporate any analysis of the impacts of drying and rewetting on any wetlands affected by	Tallings Scepage,#30	140	3/10/2018	32	22,3
				dewatering at the mine site or FTB seepage collection in any aspect of its cross-media analysis, despite specific comments	401-11B, Mercury -				
/110	401-081	Nancy Schuldt		regarding this methylation pathway by Branfireun and others.	Water Quality;#47	No	3/16/2018	52	22;4
413	401-061	ivaricy scriutat	Foriu du Lac Bariu	The PolyMet cross-media analysis claims, "The primary potential source of mercury emissions for the Project is the	vvater Quality,#47	INO	3/10/2010	J3	22,4
				Autoclave Stack, which will be located at the Plant Site. Mercury emissions are concentrated at the plant site, particularly on					
				the south side of the site, where the plant facilities are, contributing as much as 3 percent of mercury background					
				concentrations south of the tailings site.56 The analysis further notes that, along with increased surface discharge of					
				mercury from the wastewater treatment system (WWTS) at the Second Creek discharge point (SD026),57 "Mercury					
				deposition from Project air sources is also focused in the Second Creek watershed."58 But the PolyMet cross-media analysis					
				fails to evaluate mercury air deposition from plant site stack emissions at any site near the emissions sources. The closest					
				site at which air deposition to Second Creek is evaluated is 11 miles downstream at MNSW8.59					
				Even so, PolyMet concluded that sulfate from Project air emissions could cause a small increase (0.003 to 0.005 ng/L) in					
				water column methylmercury in the Partridge River and Embarrass River watersheds, but this small increase would not be					
				"measurable." 60 The only "measurable" change PolyMet acknowledged was an increase due to the surface discharge of					
				treated water at the headwaters of Second Creek (SD026) prior to their mine operations, as the LTVSMC tailings are being					
				dewatered.61 The Band has already commented extensively that this is a violation of state and federal water quality	401-05B, Scope MPCA	-			
420	401-081	Nancy Schuldt	Fond du Lac Band	regulations.	Other Permit;#28	No	3/16/2018	54	22;5
				Because the cross-media analysis fails to evaluate so many sources of mercury and their impacts, it does not disclose all	401-01J, General				
				facts relevant to the operation of the mine, and it does not support the conclusion that PolyMet will comply with all	Permit;#10;#401-11B,				
				applicable pollution control laws and regulations that limit mercury levels in the State's waters. Therefore, the MPCA cannot	Mercury - Water				
421	401-081	Nancy Schuldt	Fond du Lac Band	issue the §401 certification until the cross-media analysis is amended to address all these gaps in its assessments.	Quality;#47	No	3/16/2018	55	23;4
				V.Summary					
				The Fond du Lac Band's decision, more than twenty years ago, to pursue federal delegated authorities under the CWA was					
				centered on Anishinaabe values for water (nibi) and the cultural and spiritual basis for the shared sense of responsibility to					
				protect her. Clean water is not just essential for life, it is life, and must be guarded and protected if we and all other beings					
				are to survive on this earth. We come from water; we are made of water. This is not a radical perspective (although some	401-01A, General				
422	401-081	Nancy Schuldt	Fond du Lac Band	choose to paint it that way); it is very simple, pragmatic, and respectful.	Opinion;#1	No	3/16/2018	56	23;5
				In considering how we might go about using the regulatory tools and authorities of the CWA to better protect water, our					
				default premise has always been to interpret and implement the rules as simply and straightforwardly as possible.					
				Throughout the environmental review process and now the permitting process, there has been a fundamental disconnect or	401-03E, Permit				
				lack of understanding on the part of the state and federal regulatory agencies about just how essential it is, for all of our	Agency;#24;#401-01H,				
423	401-081	Nancy Schuldt	Fond du Lac Band	well-being, to keep protection of this vital element first and foremost.	General Resource;#8	No	3/16/2018	57	24;2
				Regardless of the length of time and money spent on processes that have brought us to this decision point, PolyMet simply					
				has not shown that it will comply with all applicable pollution control statutes and rules, or the conditions of the permit; nor					
				have the permitting agencies clearly indicated that they will enforce limits and conditions according to state and federal					
				regulations. MPCA should not issue a §401 certification until PolyMet and state agencies resolve the pending problems with	401-01J, General				
				the draft permit to mine and draft NPDES/SDS permit that have been raised by the Band and many other concerned	Permit;#10;#401-01F,				
424	401-081	Nancy Schuldt	Fond du Lac Band	Minnesota citizens, and show that PolyMet will be able to comply with all applicable federal and state laws.	General Agencies;#6	No	3/16/2018	58	24;3
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