				Debris Characteristics that Drive Problems							Mechanical Dredging					Hydraulic Dredging					Mechanical Transport & Handling				Hydraulic Transport & Handling				Disposal		
	Consistency	Size	Type	High density debris (>2)	Low density debris (~1)	Hardness	Chemistry	Embedded-ness	Weight	Length (Longer than width)	Incomplete bucket closure	Incomplete bucket penetration	Unable to remove debris in same pass as dredging	Disturbance of surrounding sediment when debris is removed	Disrupts clean cut between target and underlying sediments	Failure to intake sediments	Incomplete penetration	Unable to remove debris in same pass as dredging	Disturbance of surrounding sediment when debris is removed	Disrupts clean cut between target and underlying sediments	Complicates Barge Transport and Transload	Complicates Truck Transport and Transload	Complicates mechanical processing (i.e., screens, mills, mixers)	Complicates dewatering processes (i.e., amendment, draining)	Clog intake and pumps	Wear on pumps and pipes	Complicates mechanical processing (i.e., screens, mills, mixers)	Complicates dewatering processes (i.e., amendment, draining)	Issues for landfill disposal	Issues for CDF disposal	Requires regulated specialized disposal
		Wood																													
1	Wood	Large	Pilings				X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X		X	X	X
1	Wood	Large	Rail ties				X			X	X	X	X	X	X	X	X	X	X	X			X		X		X		X	X	X
1	Wood	Large	Telephone poles				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X		X	X	X
1	Wood	Large	Trees							X	X	X	X	X	X	X	X	X	X	X		X	X		X		X			X	
1	Wood	Medium	Large branches								X	X			X	X	X	X	X	X			X		X		X			X	
1	Wood	Medium	Plank wood								X	X			X	X	X	X	X	X			X		X		X			X	
1	Wood	Small	Sawdust		X																							X		X	
1	Wood	Small	Strippings/furring		X						X					X									X			X		X	
1	Wood	Small	Vegetation		X																			X	X			X		X	
1	Wood	Small	Wood chips		X																							X		X	
2	Stone	Large	Asphalt & concrete slab						X		X	X	X	X	X	X	X		X	X			X				X				
2	Stone	Large	Boulders								X	X	X		X	X	X			X	X	X	X				X				
2	Stone	Large	Consolidated slag	X			X				X	X	X	X	X	X	X		X	X			X		X		X				
2	Stone	Large	Culvert			X				X	X	X	X	X	X	X	X		X	X			X				X				
2	Stone	Large	Riprap			X			X		X	X	X		X	X	X			X			X				X				
2	Stone	Medium	Block												X			X		X											
2	Stone	Medium	Brick															X													
2	Stone	Medium	Cobble															X													
2	Stone	Small	Ballast																							X					
2	Stone	Small	Gravel																							X					
2	Stone	Small	Taconite																							X					
3	Metals	Large	Girders	X					X	X	X	X	X	X	X	X	X		X	X		X	X				X				
3	Metals	Large	Rail	X		X					X	X	X	X	X	X	X		X	X			X				X				
3	Metals	Medium	Scrap metal															X							X	X					
3	Metals	Small	Bearings			X																			X	X					
3	Metals	Small	Metal filings/small scrap																						X	X					
3	Metals	Special	Cable							X	X		X	X	X	X		X	X	X	X	X	X		X		X				
3	Metals	Special	Chain			X				X	X		X	X	X	X		X	X	X	X	X	X		X		X				
4	Waste	Large	Appliances								X		X	X	X	X			X	X			X				X			X	
4	Waste	Large	Cars						X		X	X	X	X	X	X	X		X	X	X	X	X				X		X	X	X
4	Waste	Large	Vessels						X		X	X	X	X	X	X	X		X	X	X	X	X				X		X	X	X
4	Waste	Medium	Drums				X							X	X			X	X	X			X	X			X		X	X	X
4	Waste	Medium	Tires											X	X			X	X	X					X				X		X
4	Waste	Medium	Trash																						X			X			
5	Special	Large	Bedded clay					X				X			X		X			X											
5	Special	Special	Bedded strippings/chips		X						X	X	X		X	X	X			X					X			X		X	
5	Special	Special	Buildings foundations					X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X			X	
5	Special	Special	Cemented fines					X			X	X	X		X	X	X	X		X											
5	Special	Special	Obstruction								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X			X	
5	Special	Special	Peat		X										X					X								X		X	