Leceived 2-27-06 McWell John T. Hestand, 005087 1 Timothy L. Pierson, 005081 Ruth E. Koester, 005788 2 5002 N. Maricopa Road, Box 5090 Chandler, Arizona 85226 3 (520) 796-1344 Attorneys for the Gila River Indian Community 4 5 BEFORE THE ARIZONA NAVIGABLE STREAM 6 ADJUDICATION COMMISSION 7 In re Determination of the Navigability of the) No. 03-007-NAV Gila River in Maricopa County 8 **GILA RIVER INDIAN COMMUNITY'S RESPONSIVE** 9 POST-HEARING MEMORANDUM

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The Gila River Indian Community respectfully submits its Responsive Post-Hearing Memorandum regarding this Commission's determination of whether the reaches of the Gila River, located within the boundaries of Maricopa and Pinal Counties, were navigable within the meaning of A.R.S. § 37-1101 as interpreted by the Court of Appeals in Defenders of Wildlife v. Hull, 199 Ariz. 411, 18 P.3d 722 (2001), as of February 14, 1912.

OVERVIEW

The standard by which the Arizona Navigable Stream Adjudication Commission is to determine navigability is whether on February 14, 1912, "the watercourse, in its natural and ordinary condition, either was used or was susceptible to being used for travel or trade in any customary mode used on water." *Defenders of Wildlife*, 18 P.3d at 737.

The Commission has already conducted a number of hearings dealing with specific reaches of the Gila River, as it flows through the various counties. The Commission will conduct additional hearings concerning the reaches of the Gila River between the Maricopa County border and the confluence with the Colorado River. Ultimately, the Commission

will decide if any of the reaches of the Gila River (whether long, or extremely short) meet the criteria for a determination of navigability for purposes of title.

Whether a particular water course is navigable is not an all or nothing proposition. A river may be navigable in some locations and non-navigable in other locations. The State of Arizona has no claim to the bed and banks of the portions of the Gila River that were non-navigable on February 14, 1912. See Oklahoma v. Texas, 258 U.S. 574, 585, 42 S. Ct. 406, 411,66 L. Ed. 771 (1922) ("To attribute to the parties a purpose to impress this entire stretch of the Arkansas with a navigable character, regardless of the actual conditions, is, in our opinion, quite inadmissible."); Brewer-Elliott Oil & Gas Co. v. United States, 260 U.S. 77, 86, 43 S. Ct. 60, 67 L. Ed. 140 (1922) ("We do not find it necessary to decide either of these questions in view of the finding as a fact that the Arkansas is and was not navigable at the place where the river bed lots, here in controversy, are."); and Northwest Steelheaders Association, Inc. v. Simantel, 199 Or. App. 471, 477, 112 P.3d 383, 385 (2005) (case dealing with the navigability of the John Day River "in the disputed locations").

A determination that the Gila River might have been navigable for two miles upstream from its confluence with the Colorado River, or for a six hundred yard reach in a narrow valley near New Mexico, has no bearing on the whether the Gila River was navigable in the reaches that traverse through Pinal and Maricopa Counties.

Maricopa County bases the sum total of its evidence, that the Gila River was navigable in predevelopment times, on Mr. Hjahlmarson's report and testimony. Mr. Hjahlmarson agreed that he did not provide any information on, nor render any opinion about, whether the Middle Gila River--upstream from the confluence with the Salt River-was navigable on, before, or after 1912. Transcript, Second Day, page 287. Having presented no evidence that supports a claim that the Middle Gila River, in Maricopa and

Pinal Counties, was navigable, the proponents have failed to meet their burden of proof and the Commission must determine that these reaches of the Gila River were not navigable in 1912.

The parties claiming that the Gila River was navigable on February 14, 1912, have the burden of proof and must establish, by a preponderance of the evidence, that all the criteria for navigability have been met. Failure to prove even a single element requires a determination that the applicable reach of the Gila River was not navigable for purposes of title. The proponents of navigability have failed to prove that *any* of the criteria have been met.

I. February 14, 1912

Maricopa County and the Flood Control District of Maricopa County claim that the criteria of navigability in its natural and ordinary condition on February 14, 1912, "does not mean that the determination is based on the physical condition of the river . . . on that date, but only that the determination is made as of that date." Maricopa County is badly mistaken. Maricopa County cites to *United States v. Utah*, 283 U.S. 64, 82, 51 S. Ct. 438, 75 L. Ed. 844 (1931), in support of its false contention. The Supreme Court's opinion in *United States v. Utah* belies Maricopa County's claim. The Court discussed various historic information that was considered in the determination of navigability. 283 U.S. at 82. Some of the evidence involved activities before 1896 and some of the evidence involved activities shortly after 1896. However, *United States v. Utah* did not discuss the possibility that the determination of navigability for title could be made based on the natural and ordinary condition of the river at any date other than the very day that the state enters the Union. Indeed, the Supreme Court wrote: "The master has made his findings as to navigability as of January 4, 1896, the date of the admission of Utah to the Union. The

master finds that at that time the following streams in question were navigable waters of Utah." 283 U.S. at 73, 51 S. Ct. at 440 (emphasis added).

North Dakota, ex rel. Board of University and School Lands v. United States, 972 F.2d 235, 238 (8th Cir. 1992) (North Dakota II) explained that "the State had the burden of proving by a preponderance of the evidence that the Little Missouri River, was navigable at the time of statehood." See also Alaska v. Ahtna, Inc. 891 F.2d 1401, 1404 (9th Cir. 1989) ("the river must be navigable at the time of statehood").

Mr. Hjalmar Hjalmarson readily admitted that he did not base his opinion that the Gila River was navigable on the natural and ordinary conditions that existed on February 14, 1912. He based his opinion on conditions at some unspecified date in the past. Mr. Hjalmarson stated: "What I did was reconstructed what the natural flow was, which occurred roughly 1860 to maybe 1760." Transcript, Second Day, pages 303 and 304. Mr. Hjalmarson had no data as to what precipitation conditions existed during this hundred year period. In the absence of precipitation data, Mr. Hjalmarson's "reconstruction" is nothing more than self serving double talk. Mr. Hjalmarson's opinion did not even consider the effect of the two floods shortly before statehood that resulted in a badly braided river, with multiple channels, that precluded the possibility of navigation on February 14, 1912.

Maricopa County failed to present *any* evidence that the natural and ordinary condition of the Gila River would have allowed even the possibility of navigability on February 14, 1912, without regard to whether human activities were factored out.

Therefore, proponents failed to meet their burden of proof.

II. Natural And Ordinary Condition

A waterway is not navigable for purposes of title, unless, in its natural and ordinary condition, it was used, or susceptible of being used as a highway of commerce, on the day

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of statehood. A water way is not navigable at law unless it is navigable in fact. "[I]n order to be navigable-in-fact, a river must provide practical utility to the public as a means of transportation. ...[O]f paramount concern is the capacity of the river for transport, whether for trade or travel." *Adirondack League Club, Inc. v. Sierra Club*, 92 N.Y.2d 591, 603, 706 N.E.2d 1192, 1195 (1998). If the waterway cannot be used to transport people or items, it is not navigable. In determining whether a river was susceptible as a highway of commerce, courts examine the physical characteristics of the waterway.

In Oklahoma v. Texas, 258 U.S. at 589 and 594, 42 S. Ct. at 412 and 414, the United States Supreme Court discussed the factors to be examined in determining whether a reach of a river was navigable on the date of statehood. These factors included:

- Was there a continuous or predictable flow?
- Was there extreme variation between high and low water?
- Was the geologic composition of the riverbed susceptible to shifting and extensive sand bars?
- Was there a permanent or stable channel?
- Were any periods of flow (high enough to allow a boat to float, but not so high as to flood out the boat) intermittent, irregular, and of short duration?
- Was there a relatively level riverbed over which the water was well distributed?

The Commission needs to examine whether the "stream or body of water is permanent in character, and . . . is of sufficient size and so situated and condition that it may be used for purposes common to the public." Board of Trustees of the Internal Improvement Trust Fund v. Florida Public Utilities Company, 599 So. 2d 1356 (Fla. 1992).

Navigability does not require "the absence of occasional difficulties in navigation."

United States v. Utah, 283 U.S. at 76, 51 S. Ct. at 441. Indeed, the "use of the river need not be without difficulty, extensive, or long and continuous." Oregon v. Riverfront

Protective Association, 672 F.2d 792 (9th Cir. 1982). "[N]avigability . . . is not destroyed because the watercourse is interrupted by occasional natural obstructions or portages."

Economy Light & Power Company v. Untied States, 256 U.S. 113, 122, 41 S. Ct. 409, 412, 651 L. Ed. 84 (1921) (emphasis added). See also Adirondack, 706 N.E.2d at 1197.

If a reach of a river has an occasional sand bar or rock outcropping, navigability would not be destroyed. If a party had to portage for two miles out of a seventy mile reach of the river, navigability would not be destroyed. However, where natural obstructions are the norm, rather than the exception, the river is not navigable in its natural and ordinary condition. The question is whether the condition(s) "constitute a serous obstacle to navigation." *United States v. Utah*, 283 U.S. at 84, 51 S. Ct. at 444. Do the ordinary and natural conditions cause "difficulties precluding utility"? *United States v. Brewer-Elliott Oil & Gas Co.*, 249 F. 609, 623 (D. Ok. 1918).

Occasional obstacles do not preclude navigability so long as "the natural navigation of the river is such that it affords a channel for useful commerce." *The Montello*, 87 U.S. 430, 443, 20 Wall. 430, 443, 22 L. Ed. 39 (1874). In determining the navigability of a particular reach of the McKenzie River, the Ninth Circuit observed that "notwithstanding such difficulties, thousands of logs and millions of board feet of timber were driven down the river." *Oregon v. Riverfront Protection Association*, 672 F.2d 795. Likewise, in *The Montello*, notwithstanding occasional difficulties "commerce was successfully carried on." 87 U.S. at 442.

Rivers with shifting, braided, or multiple channels are not susceptible to navigation. In determining that reaches of the Arkansas River in Oklahoma were not navigable, as of the date of statehood, the *Oklahoma v. Texas* Court observed: "There is no permanent or stable channel. Such as there is shifts irregularly from one side of the bed to the other and

not infrequently separates into two or three parts." 258 U.S. at 589, 42 S. Ct. at 412. See also North Dakota II.

The evidence is clear that the Gila River was not, in its natural and ordinary condition, susceptible of navigability. The proof is in the pudding, or the lack thereof. No navigation took place. The river was an obstacle course of difficulties. The Gila River was extremely flashy, ranging from no flow to massive floods, even before the arrival of Euro-Americans. Expert witnesses can compute "average flows" and proclaim that boats could float on that average amount of water. Unfortunately, nature does not deal in averages. If a river flows at 10 cfs for 364 days and 102, 210 cfs for one day, its average would be 290 cfs. While a boat might be able to navigate on 290 cfs, it still could not have navigated on any day of the year.

In an effort to support his allegation that the Gila River would have had a sufficient flow to allow navigation--at some unknown time centuries before 1912--Mr. Hjalmarson creates numbers that he claims represent the width of the riverbed in the Gila River below the confluence with the Salt River. He manipulates the data. First, he assumes that the width of the water surface was the same as the width of the riverbed.

Surveyors were charged with determining the width of the riverbed and made, at most, anecdotal reference to the width of the water in the channel. It is impossible to determine how much water flows through a riverbed on a specific day by examining the riverbed. The riverbed is normally representative of the flood stage. On a non-flood day, the width of the water passing through the riverbed would be considerably more narrow than the bed length. Indeed it is likely, on a number of days, that a riverbed that was 600 feet wide might have only a foot of water width. Mr. Hjalmarson listed numerous documented widths of the Gila River (approximately 10%) between 1,000 feet and 2,453

feet. However, in computing his answer, he arbitrarily threw out all the widths greater than 1,000 feet so that his graph curves would match his desired answer. It is unacceptable for an engineer to exclude 10% of the known data in order to create a graph to support a dimensional analysis conclusion that could not be derived if all of the data were used.

The formula for dimensional analysis is cfs = width x velocity x depth. By way of an example, if the riverbed was 2453 feet wide with a base flow of 290 cfs at a very low velocity of 2 feet per second, then the depth of the river would be 0.7 inches. Clearly no navigation can take place in water that is less than an inch deep. If an engineer is allowed to create his own data, exclude any data that would conflict with predetermined outcomes, fail to apply proper procedures, and fail to calibrate his computations, it should not be surprising that he would be able to produce an answer that supports the conclusion that he is supposed to reach.

The Gila River had a braided channel that completely precluded navigation on February 14, 1912. No human activities caused the braided river. The braided river was caused by two floods immediately preceding statehood (1891 and 1905). Human activity did not cause those floods. Those floods would have occurred even if no Euro-American had ever set foot in Arizona. Those floods created the natural and ordinary condition of the Gila River in 1912.

Mr. Hjalmarson admitted that both floods changed the Gila River. Transcript, Second Day, page 303. Mr. Hjalmarson's own sources verify that the braiding caused by these types of floods takes decades or even centuries to "heal" (assuming, of course, that there are no future floods that intervene in the "healing process"). See USGS Professionl Paper 1288 and Ecology Magazine October 1996, both authored by Mr. Osterkamp, Mr. Hjalmarson's primary source. The other experts agreed with Mr. Hjalmarson that the 1891

and 1905 floods would have drastically changed the bed of the Gila River. Between the dates of these two floods and statehood, there was no time for the Gila River to "heal" and create the perfect parabolic channel that Mr. Hjalmarson fantasized about in his testimony.

The Commission can take judicial notice that the Gila River and the Salt River, above its confluence with the Gila River, have flooded on numerous occasions between 1912 and today. The Gila River never "wanted" to have a perfect parabolic channel. The Gila River has been subject to patterns of no flow, low flow, high flow, and floods since time immemorial. This natural and ordinary interrelationship between precipitation and geology existed before the Euro-Americans arrived, existed in 1912, and continues to exist today. Humans cannot make it rain or snow, and they cannot prevent rain and snow.

The Gila River was not navigable in its natural and ordinary condition in 1912, without regard to any human activity. The Gila River was not navigable in its natural and ordinary condition on some abstract, undefined date in the past, without regard to human activity. The Gila River is not navigable in its natural and ordinary condition in 2006, without regard to human activity.

III. Used Or Susceptible To Being Used

Before the Gila River could be held to have been navigable for purposes of title, it had to actually be used as a highway of commerce for trade or travel, or have been susceptible of actual use. A reach of a river must actually, in reality, in the real world, be capable of being used as a highway of commerce before it can be considered navigable. Abstract theories, which ignore actual history and are based on manipulation of various unrelated engineering programs, have no value in a determination of navigability. The *fact* is that there was no navigation before or on February 14, 1912.

A determination of navigability cannot be based on "exceptional circumstances" that are neither common nor predictable. *United States v. Oregon*, 295 U.S. 1, 19, 55 S. Ct. 610, 79 L. Ed. 167 (1935). A determination of navigability cannot be based on "exceptional conditions or short periods of temporary high water." *United States v. Utah* 283 U.S. 87, 51 S. Ct. 445. An "occasional use of boats, sporadic and ineffective" does not establish navigability. *United States v. Oregon*, 295 U.S. at 23, 55 S. Ct. at 619. "An isolated and exceptional example of a person using the river for a few miles" does not constitute proof of navigability. *United States v. Crow, Pope & Land Enterprises, Inc.* 340 F. Supp. 25, 35 (D. Ga. 1972). *See also Northwest Steelheaders Association, Inc. v. Simantel*, 199 Or. App. at 477, 112 P.3d at 385.

An examination of the record demonstrates that the pitiful attempts at navigation on the Gila River "did not rise to the level of 'occasional' usage, rather [they] were unique and isolated venture(s)." North Dakota II, 972 F.2d at 239. Navigability cannot be based on whether parties attempted to use the river as a highway of commerce 8 times or 80 times or 800 times. Navigability must be based on successful navigation: the useful and practical movement of people or goods, successfully, from one intended point to a different intended point. When a group intends to go to "Yuma or Bust," it is not a successful navigation if they float for a couple of miles before their boat breaks apart.

A determination of navigability is not conditioned on the use of boats. Using a reach of a river to transport logs or shingles can suffice if the use is not exceptional. However, failed attempts to use a reach of a river to transport logs does not constitute navigability. An attempt to float logs down the Little Missouri River, from 1880 through 1883, did not constitute navigation. As noted by the *Bismarck Tribune* in May of 1883, "He [E. H. Bly] has been three years getting those ties down the river and he is tie-rd of the

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business as a matter of course." North Dakota ex rel. Board of University and School Lands v. United States, 770 F. Supp. 506, 510 (D. N.D. 1991) (North Dakota I). Mr. Bly only succeeded in getting some of the railroad ties down the reach of the river because the stream was very high and still booming. Mr. Bly's tie drive "resulted disastrously from a financial standpoint." Id. The United States Supreme Court has explained that:

It is not, however, as Chief Justice Shaw said, [21 Pickering 344] 'every small creek in which a fishing skiff or gunning canoe can be made to float at high water which is deemed navigable, but, in order to give it the character of a navigable stream, it must be generally and commonly useful to some purpose of trade or agriculture.'

The Montello, 87 U.S. at 442.

A river can be susceptible to use as a highway of commerce in the absence of actual use. However, there has to be a compelling reason to justify the lack of actual navigation.

Such reasons include:

- there were no humans in the area to use the river
- the humans in the area had no incentive to use the river as a highway of trade or commerce

The proponents of navigability are fond of the saying: The absence of evidence is not evidence of absence. This glib generalization can only apply in a setting where there was no reason for someone to gather evidence. As noted in the Opening Memorandum, the absence of early Spanish reports documenting Pima and Maricopa settlements on the Salt River is not evidence that the Pima and Maricopa Indians were not living there. Instead, these reports simply reflect where the Spanish explorers went and what they saw. Since they did not go upstream on the Salt River, they could not have seen the Pima and Maricopa Villages to report on.

This generalization is worthless when discussing the use of boats and other floatation devices on the Gila River on and prior to 1912. There were a lot of people

present. They had a motive to use the Gila River to transport people and goods, if only such use had been possible. The few miserable attempts at using boats on the Gila River were unmitigated disasters that garnered a great deal of press.

It is inane to argue that boating was so common that it was never referenced in any newspaper, flyer, diary, or other contemporaneous document. Automobiles are ubiquitous in our society. Newspapers do report when an automobile suffers the same type of disaster as the alleged incidents of boating occurring before 1912. However, other evidence that cars exist and are common is found throughout our culture. If boating was so common in 1912, where are the ads for the sale of boats, boating equipment or boating attire? Where are the ads for rental of boats as pleasure craft or business craft? Where are the ads for tickets on boats transporting people around or the ads seeking freight to be transported? Where are the society columns discussing Mr. and Mrs. Fancypants' recent Saturday afternoon boating excursion with the Mayor and the lead opera singer? The absence of references to navigation, other than documentation of abysmal disasters is deafening.

While not actually finding the limited boating of various Indian tribes to be viable evidence of navigability, some courts have noted that river use by Indians, as a highway of commerce, can be probative evidence as to navigability. See North Dakota I, North Dakota II, and Northwest Steelheaders Association, Inc. If a river was susceptible of navigation, the indigenous people who lived with the river since time immemorial would have used the river for trade and travel. The Pima-Maricopa Confederation was a unified government between two tribes for purposes of mutual protection, trade, and maintenance of culture. The Pima and Maricopa Indians engaged in extensive trade with other Indians, the Spanish, and the Mexicans long before the arrival of the Euro-Americans. If the Gila River was susceptible of use as a highway for trade and travel, the Akimel O'odham (the River

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People) would have used it. The Pima and Maricopa Indians know that neither they, nor their ancestors the Huhugam, used the Gila or Salt Rivers as highways of trade and travel. The fact that the River People did not use the Gila River as a highway of commerce is definitive evidence that the Gila River was not navigable before the arrival of Euro-Americans—and is certainly more compelling than expert reports that ignore data and history and manipulate formula in order to reach a predetermined conclusion.

IV. For Travel Or Trade

A water course must be a highway of commerce for trade or travel, to be navigable. The river reach must have practical usefulness and utility as a means of transporting people or goods from one specified location to a different specified location. See Adirondack

League Club, Inc. v. Sierra Club; Alaska v. Ahtna Inc.; California Oregon Power Co. v.

Beaver Portland Cement Co.; The Montello; and United States v. Brewer-Elliott.

The water course must provide a "reliable means of transportation." North Dakota I, 720 F. Supp at 52. A river reach must provide a "viable means of transporting persons and goods." Northwest Steelheaders, 112 P.3d at 390. In Oklahoma v. Texas, 258 U.S. at 591, 42 S. Ct. at 413, finding the Arkansas River non-navigable, the Supreme Court noted:

Its [the river reach] characteristics are such that its use for transportation has been and must be exceptional, and confined to the irregular and short periods of temporary high water. A greater capacity for *practical and beneficial use in commerce* is essential to establish navigability. [Emphasis added.]

The proponents of navigability have not provided any evidence that supports their claim that the Gila River was susceptible to being a reliable, viable, practical, and beneficial highway of commerce for travel or trade. Attempted use of a waterway as a highway of commerce that is a financial disaster does not establish navigability. *North Dakota I.* "A

theoretical navigability or one that is temporary, precarious, and unprofitable, is not sufficient." *United States v. Brewer-Elliott Oil & Gas Co.*, 49 F. at 612.

The need for reliable, practical usability of a highway of commerce is obvious. If people can not safely and regularly get from where they are to where they want to go, using the water course, it is not navigable in fact. If a party cannot get goods shipped in a timely manner, in a usable condition, the water course is not navigable. The proponents of navigability list nine examples of navigation on the Gila River--only two of which took place after the 1905 flood that braided the Gila River's bed. None of the trips were successful. It is silly to claim that a capsized boat with a lost cargo represents successful navigation. The proponents claim that Sykes experienced a successful navigation in 1909. Unfortunately Mr. Skyes disagreed and felt that his experience was unsuccessful.

There have been fifteen attempts by people to navigate the reach of the Niagara River from immediately upstream of the Falls to a location immediately downstream from the Falls. The mode of transportation was a barrel. Five of the attempts to travel using this reach of the Niagara were "successful," at least to the extent that the person in the barrel survived the trip. Niagara Falls has been successfully used as a means of transporting people from one location to another more often than the Gila River has been. By the proponents' logic, Niagara Falls is a navigable water way.

In determining navigability, it is necessary to recognize the difference "between a trade-route and a point of interest." *Mountain Properties, Inc. v. Tyler Hill Reality Corp.* 767 A.2d 1096, 1100 (Pa. 2001). Noncommercial fishing, pleasure boating, and water skiing do not establish navigability. *Adams v. Montana Power Company*, 528 F.2d 437, 429 (9th Cir. 1975). Even commercial recreation is problematic as evidence of navigability, now or as of the date of statehood.

While pleasure boating can sometimes indicate a river's susceptibility for commercial use, the type of craft and persons presently using, and enjoying, the river demonstrates that the river's main appeal lies in the frequent excitement one encounters in "running the rapids", observing the "white water", and having short interims of "good water" upon which to relax. It would be an affront to the public's intelligence to classify the river presently suitable for any kind of commercial navigation.

United States v. Crow, Pope & Land Enterprises, 340 F. Supp. at 34.

In Adirondack League Club, Inc., the Court observed that "because of the unpredictability of water flow the South River provides no commercial value for such ventures." 706 N.E.2d at 1197. In this case, the only truly reliable commercial recreational boating appears to be in the reach of the Gila River between Coolidge Dam and the Ashurst-Hayden Diversion Dam. This actually makes sense. The San Carlos Reservoir is an irrigation water storage dam. It makes regular releases of water during the summer months. A proprietor of a boating company could check with the San Carlos Indian Irrigation Project to determine what its scheduled releases will be and then set the recreational trips around that schedule. However, this predictability did not exist in the natural and ordinary condition.

CONCLUSION

The proponents of navigability have failed to establish any of the criteria that must be met before a reach of the Gila River can be determined to have been navigable on February 14, 1912. The Community requests that the Commission issue its determination that the reaches of the Gila River in Pinal and Maricopa Counties were not navigable as of the date of statehood.

RESPECTFULLY SUBMITTED this 27th day of February, 2006.

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