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# Motion of the Spokane Tribe of Indians to Amend Findings in Court's Memorandum Opinion

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*Woodward Engineering*

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August 3, 1979

Robert D. Dellwo  
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Spokane, WA 99201

Dear Bob,

On July 23rd you asked me to check some ambient temperatures and water temperatures on the Lower Chamokane for the high period of a few days and to estimate the flow of the creek.

On July 24th I made my usual monthly rounds of the creek and wells and found the following:

No flow at North Gaging Station  
Monitoring wells very similar to 1973, this date  
Irrigation Seagle 18 heads Newhouse 51 heads  
Kids redamed below the Lower Gaging Stations so I removed my recorder as useless.

My son and I measured the flow near the South Gaging Station by cross section and average velocity using my price flow meter. My measurements indicated 23 CFS flowing at 1 p.m. this date. At this time the air temperature was  $82^{\circ}$  and the water had risen to  $66^{\circ}$  F.

Above the Falls at 2:10 p.m. the air temperature had reached  $86^{\circ}$  F. and the temperature reading of the water was  $70^{\circ}$  F.

Returning to the Boardman Bridge at 2:35 p.m. the air temperature was still at  $86^{\circ}$  F. and  $70^{\circ}$  F. water temperature.

July 31, 1979

I did not remeasure stream flow, but it appeared to be down slightly. At 5:20 p.m. at Boardman Bridge I found  $92^{\circ}$  F. air temperature and water temperature was  $72^{\circ}$  F. At the Lower Gaging Station at 5:40 p.m.  $92^{\circ}$  F. air, lowest water reading  $71\frac{1}{2}^{\circ}$  F.

Above the Falls 5:50 p.m. air temperature dropped to  $90\frac{1}{2}^{\circ}$  F. and water temperature at  $70\frac{1}{2}^{\circ}$  F.

Smithpeter farm not irrigation - very sparce crop of bails of hay. Field appeared to be very dry.

Flow of Hatchery spring, No. 1 weir, was 4.35 CFS or very close if not slightly less than in 1973 recorded this date.

August 2, 1979

At 3:55 p.m. I again returned to the Lower Chamokane area and found the air temperature to be  $90\frac{1}{2}^{\circ}$  F. This being  $2\frac{1}{2}^{\circ}$  F. warmer than the radio report at Spokane, I moved to a full shaded area and found no change. The water at this time was at  $72\frac{1}{2}^{\circ}$  F.

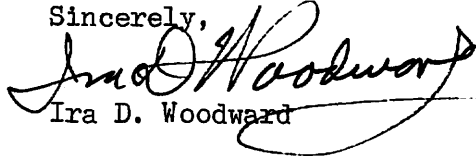
Robert Dellwo Aug. 3, 1979 sheet 2

Another look at the Smithpeter farm, with the very spotty individual green alfalfa growths among dead or dried up crowns I would guess that it had not been irrigated since a first cutting of hay and maybe not even before that.

At 4:30 p.m. with the ambient temperature at  $89^{\circ}$  + F. at the Lower Gaging Station, water temperature was  $72^{\circ}$  F. Again I did not remeasure the flow of the stream but a slight decline was evident. A guess would be that it may be near a 20 CFS flow.

I hope this bit of data gathering meets with your request.

Sincerely,



Ira D. Woodward