

we energies

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January 15, 2004

Ms. Magalie R. Salas, Secretary (C. 1 0014 18010R)
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

ORIGINAL

RE:

Peavy Falls Hydroelectric Project - FERC No. 11830-009

Article 407 - Year 2003 - Water Quality Monitoring Report

Wisconsin Electric (WE) doing business as We-Energies, is hereby filing one original and eight additional copies of the results of water quality monitoring for the above identified Project performed during 2003 in fulfillment of the monitoring plan approved and incorporated in the article identified above by FERC for this project.

The Commission issued a new license for the above Project on January 12, 2001 and by Order issued March 9, 2001 clarified certain Water Quality Monitoring requirements. The approved monitoring plan assures that the discharges from the above Project meet the state's water quality standards for temperature and dissolved oxygen (DO). The applicable mean temperature standards for the months during which continuous monitoring takes place are shown in the table below:

Month	June	July	August	September
°F	80	83	81	74
<u>°C</u>	26.7	28.3	27.2	23.3

The applicable D.O. standard is 5.0 mg/l at all times.

The Plan as approved by FERC order dated January 12, 2001 was subsequently modified by WE, with approval of consulted state agencies. The modified plan was filed with FERC in correspondence dated May 20, 2003. The modified plan now requires continuous monitoring of temperature and dissolved oxygen for the next three years at only those projects where problems in meeting the water quality standards were encountered during the previous two year (2001-2002) period. Peavy Falls was one among three projects where problems were encountered.

In addition, the modified plan also requires the collection of vertical profile measurements in the flowage upstream of any project when continuous monitoring is being conducted in the tailrace waters.

The results of our 2003 monitoring for the Peavy Falls Project are as follows:

I. Continuous water quality monitoring

Appendix A contains summary tables for the continuous monitoring data. In 2003, continuous monitoring at Peavy Falls was conducted to ascertain the downstream extent of low DO regions in the river segment that connects Peavy discharge with Michigamme Falls flowage. Appendix A also contains a description of this river segment as well as the monitoring work that was conducted in 2003.

Temperature and DO were monitored continuously from mid-July through the end of September at five locations (Figure A-1). As in previous years, the Peavy Falls Project tailrace area failed to meet the dissolved oxygen standard for periods ranging from a few hours to nearly 24-hours during selected days in the immediate area of the tailrace. In the tailrace location, approximately 12.6% of all hourly

DO readings were less than 5.0 mg/l during the entire monitoring period. However, at the more downstream locations, the percentage of time DO was below 5.0 mg/l dropped to less than 3% (Table A-1).

Table A-2 contains the annual monitoring summaries as well as data recovery statistics, by location for each of the multi-function data sondes.

II. Flowage measurements

Appendix B contains the results of the vertical profile measurements made in 2003 for the project. Patterns observed in Peavy Falls flowage were very similar to measurements made during the two previous years.

Consideration of Corrective Measures

The work conducted in 2003 represent WE's latest efforts to understand the extent of the low DO problem that was identified during the initial two-year monitoring period specified by the initial Water Quality Monitoring Plan for this Project. The low DO problems encountered at Peavy Falls during 2001 and 2002 were expected, due to the nature of operations and the location of the intake relative to historic flowage thermocline. Low DO in the tailrace was again encountered during the warmer months in 2003. Our analysis indicates that the Plant's intake structure opening is situated near or below the hypolimnion, which is largely devoid of oxygen during the warmest part of summer. When the plant is operating, water richer in oxygen is pulled from a portion of the hypolimnion as well as from the upper portions of the water column in the flowage, which is well oxygenated. However, when the plant is offline, leakage flow through the plant's wicket gates, which originate in the hypolimnion, dominate the flow released to the tailrace area. The monitoring data showed that the vast majority of time (90 or more percent) when low DO conditions in the tailrace were detected, occurred while the plant was offline. However, the monitoring conducted during 2003 showed that this leakage flow did not cause the entire river segment to be out of compliance with the DO standard of 5.0mg/l. Most significantly, the total amount of time the discharge was below 4.0 mg/l was less than 1.0 percent in the tailrace and at or near zero% at the more downstream stations.

Given the apparent limited nature of the stream segment in which sub-standard DO levels were detected in 2003, WE is proceeding with discussions involving the state regulatory agencies as to what further studies / mitigation strategies may be justified for the Peavy Fall Project.

As part of this filing, a diskette containing all the raw data and accompanying explanatory sheets are being submitted to the agencies for their use.

Enclosed is a proof of service to the agencies listed on the copy list.

Rauselu

Please call me at (414) 221-2413, if you have questions on this matter.

Sincerely,

William Rauscher

Manager, Hydroelectric Operations

Enclosures

cc: Mr. Thomas Meronek, WDNR
w/diskette
Ms. Jessica Mistak, MDNR w/ diskette

Mr. Larry Thompson, USFWS Mr. John Suppnick, MDEQ

Certificate of Service

I hereby certify that I have this day served the foregoing document upon all entities specified in the order to issue license to be consulted on matters related to the Commission filing. Service was done pursuant to Rule 2010 of FERC's Rules of Practice and Procedure 18 CFR, Section 385.2010

Dated this day Thursday, January 15, 2004

Annie Salmona
We Energies

Annie Salmona We Energies 333 W. Everett Street Milwaukee, WI 53203 (414) 221-4151

APPENDIX A

Water Quality Monitoring Conducted at Peavy Falls Project During 2003

Description of River Segment

The river segment, as depicted in Figure A-1, ranges in depth between two and three meters, except in the immediate vicinity of the turbine discharge area, where it is approximately four meters deep. The habitat in this segment (total length of river segment between the tailrace and the downstream-most station was approximately 1300 ft.) would best be described as riverine, with a few sandy areas interspersed among many boulders, gravel and bedrock.

Monitoring Strategy

The purpose of the monitoring program during 2003 was to determine the downstream extent of the low DO water released from the plant. To accomplish this, arrays of continuous recording data sondes were deployed at two location located approximately 700 ft (T-1) and 1300 ft (T-2) downstream of the tailrace monitoring location, which was the site of all data sonde placements in previous years. Since the discharge flow could have been slightly cooler than the water present in the river segment separating Peavy tailrace and Michigamme Falls flowage, the discharge could have become stratified in the river segment. It was subsequently decided to place two sondes at each of the two downstream locations; one near the surface and one near the bottom to make sure that the effect of the discharge was well characterized.

During each sonde change out, vertical profile measurements were made at all three locations in the river segment as a quality control check for the data sondes.

Monitoring Results

Table A-1 provides a frequency of occurrence analysis of the continuous recording data base for each location. By hour of the day, the number of hours during which DO was less than 5.0, 4.0, or 3.0 mg/l during the entire study period (mid-July through end of September). As can be seen, in the immediate area of the tailrace, DO was less than 5.0 mg/l approximately 231 hours or 12.6% of the time during this study. By contrast, at T-2 (1700 ft downstream), DO was below 5.0 mg/l 2.6 to 0.3 % of the time.

Our analysis of plant operating data revealed that DO levels less than 5.0 mg/l were associated with the times the plant was off-line (Table A-1). only one reading below 3.0 mg/l out of 1838 hourly measurements was observed in the tailrace; none were observed at any other monitoring location.

Table A-2 provides the summary statistics for each of the monitoring locations. No violations of the state's temperature standard were observed at any location. There was no evidence of stratification (as inferred by temperature) at any monitoring location.

Appendix B

Vertical Profile Results

Tables B-1 through B-3 provide the results of vertical profile measurement made in Peavy Flowage during 2001 through 2003, respectively. For each measurement, the Table contains the corresponding tailrace measurement for temperature and DO taken by the continuous recording data sondes during the same hour on the same day when the vertical profile measurement was taken. This comparison allows one to observe how operating conditions result in the discharge being in compliance with the DO standard in spite of intense thermal and DO stratification conditions that exist in the flowage during the warmest time of the summer months.

Table B-4 provides the results of vertical profile measurements made in the Peavy Tailrace as well as in the downstream river segment near continuous monitoring stations T-1 and T-2. In addition, vertical profile measurements were taken near the spillway discharge channel which is situated west of the tailrace.

These measurements clearly show the D.O. tends to be stratified near the tailrace, but less so at the more downstream monitoring locations. Most significantly, on the days these measurements were taken, we see no D.O. levels less than 5.0 mg/l at the downstream locations even if less than 5.0 mg/l conditions are found near the tailrace.

Measurements taken near stations T-1 and T-2, during the 30 July through the 10 August surveys, show that there was no significant difference in temperature or D.O. distribution across the river.

Figure A-1

Peavy Tailrace Study - 2003

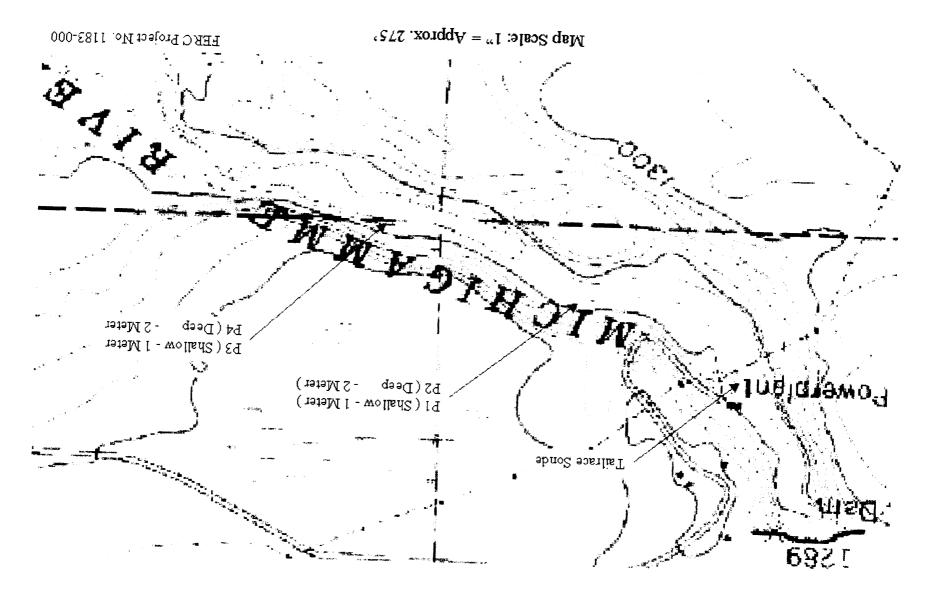


Table A - 1
Peavy 2003 Monitoring Data - Frequency Table
Data from July 16 - Sept 30, 2003

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Hour of	ę.	Peavy Talirace	8		Ē	P1 - Shallow Set	Set		Ż	P2 - Deep Set	Ĭ		5	P3 - Shallow Set	ě		Z	P4 Deep Set	¥	
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1600	က	0	0	0	9	0	0	S	7	0	0	0	-	0	0	0	-	0	0	0
1700	-	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Percent of Total Obs Below 5 mg/l	otal Obs	Below 5	þ	12.6%			11.6%				1.7%				0.3%				2.6%	
Percent of Total Obs Below 4 mg/l	otal Obs	Below 4	ě	0.7%			0.2%				Š				É				0.06%	
						}														

Units Off-line: For each hourly groupling, this is the number of hours the units were off line compared to the total number of hourly readings < 5.0 mg/l. At the bottom of the Unit Off-line column is the percent of time the < 5.0 mg/l reading occurred while the units were off line.

	% Data Recovery	wery All but one lost data point was during September
PV- Tailrace	100.0	1838 of 1838
P1 - Shallow Set of 1st set downstream	85.3	1748 of 1834
P2 - Deep Set of 1st set downstream	9.5	1734 of 1834
P3 -Shallow Set of 2nd set downstream	97.1	1780 of 1833
P4 - Deep Set of 2nd set downstream	0.98	1760 of 1833

Stirrer malfunction on sondes at Peavy tailrace (7/16-7/29) and P1 (7/16 - 7/30) may have negatively impacted the dissolved oxygen readings.

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Table A - 2

We Energies Peavy Falls 2003 Hydro Monitoring Data Summary

Temperature and Dissolved Oxygen (D.O.) Stations

Dissolved Oxygen Limit 5.0 mg/l Monthly Average Degree F
Temperature Limits: July 83 28.3
August 81 27.2
Sept 74 23.3

Peavy Tailrace - 2003 Data Summary

Month	OBS	Temperatu	re (Degree	sC)	DO % Satu	ration		Dissolved (Dxygen (m	g/I)
		Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
Jul	374	20.7	23.2	18.2	66.2	93.6	35.6	5.8	8.1	3.27
Aug	744	21.8	25.9	19.3	67.4	89.6	31.3	5.7	7.6	2.77
Sep	720	18.3	22.2	12.8	74.8	90.9	46.6	6.8	9.2	4.12

Station P1 2003 Data Summary

Month	OBS	Temperatu	re (Degree	sC)	DO % Satu	ration		Dissolved C	Oxygen (m	g/l)
{		Mean	Max	Min	Mean	Max	Min_	Mean	Max	Min
Jul	370	21.1	24.4	19.5	65.0	99.1	43.4	5.6	8.3	3.85
Aug	744	22.2	25.5	20.3	70.4	91.0	46.8	6.0	7.6	3.96
Sep	634	18.1	22.9	12.7	75.2	88.6	54.3	7.0	9.1	4.95

95.3% Data Recovery

Bad batteries caused a data loss of 86 observations from 9/8/03 @ 0000 - 9/11/03 @ 1300

Station P2 2003 Data Summary

Month	OBS	Temperatur	e (Degree	sC)	DO % Satu	ration		Dissolved (Dxygen (m	g/l)
		Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
Jul	370	20.9	22.2	19.5	77.7	93.1	58.1	6.8	8.0	5.18
Aug	744	21.9	23.7	20.3	72.6	92.6	47.6	6.2	7.8	4.12
Sep	620	17.9	21.3	12.7	78.8	91.2	55.5	7.4	9.4	5.05
4.5% Data	Recover	у			-					
3ad batterie	s caused	a data loss o	f 100 obse	rvations fro	om 9/7/03 @	1100 - 9/11	/03 @ 140)0		

Station P3 2003 Data Summary

Month	OBS	Temperatu	re (Degree	sC)	DO % Satu	ration		Dissolved (Dxygen (m	g/l)
		Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
Jul	369	21.5	23.6	19.6	85.8	103.4	61.9	7.4	8.7	5.54
Aug	744	22.5	25.7	20.7	77.3	99.9	56.0	6.5	7.9	4.67
Sep	667	18.5	22.8	12.8	78.0	87.4	57.8	7.2	8.8	5.24

97.1% Data Recovery

Bad batteries caused a data loss of 53 observations from 9/9/03 @ 1000 - 9/11/03 @ 1400

Station P4 2003 Data Summary

Month	OBS	Temperatu	re (Degree	sC)	DO % Satu	ration		Dissolved (Oxygen	
		Mean	Max	Min	Mean	Max	Min	Mean	Max	Min
Jul	369	21.2	23.0	19.5	77.9	100.5	51.9	6.7	8.5	4.43
Aug	743	22.0	24.4	20.5	73.5	91.6	47.0	6.2	7.7	3.97
Sep	648	18.2	21.5	12.7	79.2	90.0	59.4	7.4	9.3	5.29

96.0% Data Recovery

Bad batteries caused a data loss of 72 observations from 9/8/03 @ 1500 - 9/11/03 @ 1400

341	Appendix Table B-1 Pervy 2001 Hydroelectric Project Vertical Profile Data -	
PU - P P		

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Revised 1/13/2004

		Tailrace data for	Høy	ŀ		10.5			17.0					140					1 6 6										2 2 2						23			breezy	NE winds 12-18 alph	Secci Depth:6.0 ft. water depth 60to 65	Approximate:		
	22.1	r same time	lighted Dep		9.9		10.3				_	11.7	121	21	2/	12.9	3.4	3.6	-	# 59 - 60		17.7			0.0	3.4	3.4 7	35	23.5							(C) (mon	ì		udtu	ft. water des	air lenip: 21		
	6.8 79.7	•	Highlighted Depth Opening of the intake forebay (2 to 10			03 31		30						2 107	3 120			5 14.8	15.1			28 27.1		3.6 36.1		2 87.4	85.3	33 T	90.0		7.6 91.3		7.8 94.4		7.8 94.9	1	0.0			Xh 60to 65°	0	26-Jul-01	
	126 2167	cal profile on	the intake for	ā	11	1	1 8		į	8	8	83	91 9	9 9	2 2	2	87	8 8	8	<u> </u>	88	8 §	ខ្មែ	Ē	2 =	124	8	5 8	ន់ន់	128	នី ខ	ន៍ន៍	126	126	127	on (uS/cm)		Bright Sun	10:	Time			
٠.	3 B	7/28/01	bay (2 to 10 r	6.7	6.7	6.7	9 :	» o	0.0	9 (3	6.6	Ø.	7.0	3 (0	יט יט ת	o on o ch	9 . 8	0 i	3) (C	0.7	6.7	0 0	0 0 0	Ge	7 ;	7.8	7.8	7.5	7.8	7.0	7.0	7 60	8.0	8.0	ор о О	PH(S.U.)		ā	10% clouds	e. 1015			
	1 k	Tallinace data	_3_	19.4	19.0		3	17.0	16.5	16.0	15.5	15.0	1 5	1 2 2	3 6	12.5	12.0	1.5	1 0 0	10.0	9.55	9 0		7.5	7.0		Ø !	91 4 O 6	* 6	3.5	3.0	20	1.5	1.0	0 0		:	Hot and nuggy	southernly v	Secci Dept	Approximate air		
	K	for same t		bottom	9.0	5 5	5 5			5 12	1.5	11.7	120	122	12.7	: : : : : : : : : : : : : : : : : : : :	14.0	1	# F	i d	8.0	16 E	8	20.3	2 <u>.</u>	21.6	21.9	2 2	3 E	24.8	8 9	27.4	20.0	28.2	2 6 2 6	10	į	VEGN.	southernly wrids ignt variable	Secci Depth. 7.5 h. water depth 65' to 66	nae air emp		
	7	time period :			2	D 9) • 4	2 5	2 5		0.4	0.4	0.4	- c	0.0	0.5	0.5	•	o c	0.0	1.3 3	<u>.</u>	20	2.4	ມ ເ ພິ		4.0	ب ن	n (3)	7.0	7.4	7.5	7.7	7.8	7.0		0.		ariable	r depth 65't	32 C	3-Aug-01	•
3	08.3 08.3	as vertical p			သ (၁)	ယ (တ ရ	۵ د د د	- C	. u			•	<u>+</u>		ه ه د د	A	50	4 4 0 1	• •	6.4	14.3	<u> </u>	23	26	37.8	50.2	54. 0	62.7	75.0	85.8	9 8 5 0	97.0	100.5	102.3	183.7		00.%			8		9	PICE FIG
2	ī [2	as vertical profile on 8/8/01			124	12 5	5 5	į	ទី	Ŕ	5	8	8 8	3 8	8 8	83	8	2 2	S <	ខិន	107	1 7	=	15	<u></u>	ន៍	2	1 2 8	128	8	ដូ ខ	: :	137	137	137	(uS/cm) pH			100% clouds	Time. 1			- 25
2	\$ B				8.6 6	3 6			o c	9 (3)	6 1.55	6.5	0. 4. 0. 4.	א קר	0. 10.	(B)	6.6	о с О с	3 0	9 59	5.0	8.7	6.7	6.8	о» с С	7.0	7.1	7.5	7.4	7.6	7.8	9 00	<u></u>	œ :	<u>.</u>	(S.U.)	i		buds	1400			
ŝ	1400	Tailrace data		18.4	19.0	5 0	3 6	17.0	, j	6.0	15.5	15.0	4 5	5 0	13.0	12.5	120	<u> </u>	1 6	10.0	9.5	B 0		7.5	7.0	6.0	5.5	g, ş		35	30	20	5	1.0	0.5	弎				Secci Depth	Approximate		
د	IC.	for same		9.5	6 0 (9.9	2	5.4	10.5	10.9	11.3	1.0	12.1	ร์ รับ	12.0	33	13.7	1 C	7.0	10.8	19.6	8 8	3 25	20.7	2 25	8	20.9	8 8	21.0	21.0	21.1	2 22	21.3	21.6	2 2	' ල	•			Secci Depth. 7.0 ft. water depth 65' to 66	ate air temp.		
•	Ø			0.3	0 3	ے د ن د) C) ()		0.3	0.3	0.3	0.0) C	0.3	0.3	03	<u>၀</u>) ()	22	3.4	ن جن 4 دي	9 (5)	8 9	9 9	6.2	ල (ය	o o	0	6.0	@ <u>`</u>	7.2	7.2	7.1	7.4					r depth 65' i	24 C	22-≜⊔	
75 A	74.9	as vertical p		2.8	22	3 6) k	2 2	2.4	2.4	2.5	2.4	25	3 6) (N (P	2.7	2.8	2 S	ه د عاد	24.3	37.1	36 S	2	87.4	2 2 7 k	70.3	72.8	72.1	73.2	74.5	77.3	81.7	82.8	83.8 8	8 8 9	aturation (D.O. %			9. 0.		Ş	
ż	126 28	_	:	3 9 0	Ē	1 6	i ī	3 =	117	<u>.</u>	ខ្ល	₫ :	<u> </u>	3 8	2 9	97	8	9 7 8	8 2	15	1	\$ 6	127	127	2 5	ន់ន	ន	<u> </u>	ន៍នី	124	1 2 2	124	13	Ŕ	នីនី	Γ			Partly Clo.id)	Time: 1400			
₹	3 B	8/22/01	:	7.2	8	3 C) d	9 0	0 00	9	8.9	8.9	0 C	• 0	7.0	7.0		70	::	7.3	7.3	7.0	7.5	7.5	7 . 5 .	7.6	7.6	7.0	7.6	7.6	7.6	7.6	7.5	7.5	7.5	PH (S.U	•		9	200 E			

Appendix Table B-1
Peavy 2001 Hydroelectric Project
Vertical Profile Data -

FERC Project No. 11830-000

Peavy 2001-2003 Verticals.xls Peavy 2001

		Г				Approx	Approximate pir temp. 10	ပ			
Approx	Approximate air tenip. 10	ه د د									
Secci Depl	Secci Depth. 7.0 ft. water depth 65' to 86'	r depth 65°	to 86 ⁻	Tim	Time: 1445	Secci Depth	Secol Depth 8.0 ft. water depth 65' to 63'	depth 65° to	8,	K	Time: 0845
Winds S SE breeze	E breeze			9	100% clouds	North winds 4-7 mph	4-7 mph			01	100% clouds
										Ç	foggy. misty
			D.O. %				 		% O.C		
Depth (m)	ତ୍ର	-		(ES/SII)	pH(S.U.)	Depth (m)	Temp. (C)	D.O. (mp/l)		(uS/cm)	pH (S.U.)
0	18.3	7.6	82.8	138 8	7.8	0.0	14.8	4 .	8	131	6
0.5	18.2	7.5	91.9	5	7.8	9.0	14.8	ල (භූ	X	131	80.0
2 !	16.2	7.4	90.0	8	7.8	0.5	# :	ο ·	en i	131	0.0
<u>.</u>	15.2	 	0.7	8	8.7 0.0	e i	1 *.	D	53	131	60
2.0	18.2		8. R.	<u>ਲ</u> ;	7.7	2.0	14.7	m (23.0 23.0 23.0	131	0.0
C 1	18.	5	59/	<u> </u>	7.7	2.5	14.7	M;	33	131	O :
3.0	100	0.7	78.1	5	7.7	3.0	4.8	m On i	93.3	131	0.0
ص ص	9	7.5	77.7	S	7.7	3.5	14.6	E)	33.3	131	0.0
0.4	100	7	77.6	1 35	7.7	0	14.8	69 69	85.8	131	6 0
4	181	7.0	78.6	<u>8</u>	7.7	4.5	14.6	9.5	82.3	131	0 .0
9.0	18.1	7.0	75.3	35.	7.7	9	14.6	œ.	80	132	0
5.55	18.1	6 0	74.6	5	7.7	in in	4.3	6.7	8 8.7	132	7.9
0.0	181	69 69	74.2	8	7.7	9	14.2	8 9	85.5	<u> </u>	7.8
6.5	18.1	6 9	<u>ئ</u>	13S	7.8	6	14.2	¥0 ₩0	55.5	<u>\$</u>	9 .
7	18.0	9.6	77.8	137	7.8	7.0	14.2	8 5	7	<u> </u>	4.0
7.5	18.0	6.7	72.3	137	7.6	7.5	14.2	6 5.5	\$	<u> </u>	7.0
8.0	17.9	9.0	717	136 8	7.6	9:0	14.1	8 9	8.48	133	7.9
8.5	17.9	9.0	713	137	7.6	6	14.1	8.5	6.49	133	7.0
9.0	17.8	9	70.7	5	9.7	0.0	14.1	9:0	9.50	133	7.9
8.5	17.8	9	89.09	Ξ	9 .7	9.5	14.1	8.5	85.0	133	7.9
10.0	17.5	6 0	88 .1	₹	7.5	10.0	140	8.5 5.5	2	138	7.9
10.5	17.3	5.0	63.5	142	7.5	10.5	13.9	8.5	3 &	-	7.9
-	17.1	9. 9.	29.5 28.5	-	7.5	1.0	13.8	8.5	Z	147	7.8
1.5	16.0	7	1	85	7.3	1.5	13.7	8.5	83.0	1	6 .
12.0	40.4	÷.	18.2	123	7.2	12.0	13.6	£0 €0	83.3	152	7.0
125	16.0	9	9	13		12.5	13.4	*	81.8	167	9. -
130	15.0	0.2	+	\$	7.0	13.0	13.4	න න	81.6	<u>\$</u>	4.9
13.5	-	0.2	4.7	සි	7.0	13.5	13.4	භ භ	81.4	181	6 ~
14.0	13.4	9.0	4	102	7.0	7	13.4	8.3	4.16	168	7.9
14.5	12.9	9	9	ន្	20	14.5	13.3	8.3	0.10	174	7.0
15.0	12.5	9	4.4	ş	7.0	15.0	13.2	8 .3	1.1	<u>\$</u>	7.9
15.5	12.2	9	4.	6	7.0	15.5	13.1	8.3	8 0 80	2	4.9
18.0	11.7	0.5	4.4	Š	7.0	16.0	13.1	8.2	8	\$	6.7
10.5	<u>=</u>	0.5	4 .3	117	7.0	16.5	13.0	6 0	78.3	173	7.9
17.0	10.8		₽.4	121	7.0	17.0	130	8.2	8	174	7.9
17.5	10.4	0.5	4.3	127	7.0	17.5	12.8	7.8	75.3	174	7.8
18.0	10.2	0.5	7	131	7.1	18.0	12.8	7.3	70.3	165	8.7
18.5	10.1	0.5	4.2	139	7.1	18.5	12.8	7.1	0.80	<u>\$</u>	7.8
0.0	19.0	0.5	7	14.6	7.1	18.0	12.6	67	8	175	7.7
19.5	9.6	0.5	7	152	7.2	19.5	12.6	6.5	62.6	2	7.7
	- Highlighted	Depth: Op	ening of the	intake for	Highlighted Depth. Opening of the intake forebay (2 to 10 m)	ا ا				ı	
Tailrace data	for same	time period	as vertical	profile on 9/18/01	/18/01	Tailrace det	Tailrace data for same time	ne period as	period as vertical profile on 10/3/01	ile on 10/3/0	Ξ
T.mg	Temp	DO HOM	DO % Sa	S		Time	Temp C	0.0	D.O % Sat	DE CO	
Ş	180	9	737		1 5	٤	141	7.8	•		1 8
\$, e) C	0.6	5		38	7	7 .	7	<u> </u>	2
3	9		2.0	- 2		3		•			2
			•	, ,	•		! !			} {	! .

	Approximate air temp: 26.6 C	Approximate air temp; 29 C	temp: 21 C
	2-Jul-02	20-Jun-02	6-Jun-02
		Vertical Profile Data -	
		Peavy 2002 Hydroelectric Project	
FERC Project No. 1		Appendix Table B- 2	

FERC Project No. 11830-000

	•	-Jun-02			1		3	5					22	2-Jul-02		
Appro	Approximate air tensp: 21 C	9: 21 C				Approximate air temp; 29	e air temp: 29 C	28				Approximate air	<u>@</u>	26.6 C		
Secci Depth: 6.0 ft. water depth 65 to 66'	water depth	85 to 88°	Time:1130		Secci Dept	Secci Depth. 5 0 ft. water depth 62to 67	ar depth 62	20 67	Time: 1230		Secci Depth:6.0 ft. water depth 62to 66"	160ft wat	er depth 62	8 ,	Time: 1130	-
WSW winds 8-12 mph	mph		blue sky		westerly 8-12 mph	12 mpl			10% clouds blue sky	s blue sky	strong 12-18 mph westerly	g why west	Br/y		80% clouds	ч
	D.O.	D.O. %	Sec.	I			00	0.0 %	§				00	D.O. 3*	Coad	
m) Temp.	(C) (mg/l	3	3	р Н (S.U.)	3	0		18	(uS/cm)	ρΗ (S.U.)	Depth (m)	Temp. (C)	3	3	(uS/cm)	pH(S.U.)
18.8	, O	93 3 8	2 &	7.3	20	- 10	9 53		8 8	7.2	200) N	e ion	2	Ē	-
ő i	0 (8 6 6	88 8	7.3	(c		ов с Ю -	00 6 00 A	8 8	7.	0	8 8	7 G	8 2	į į	76
		6 88	87	7.3	1.5	18.7	.		8	7.4	<u>.</u>	25.9	7.6	94.0	Ž	7.6
2.0 15.6		8.7	7 8	7.3	20		9 9		8 97	7.4	2.0	25.4	7.5	92.8	ස්	7.8
3.0	. C	87.8	8 7 9	7.3	3.0	5 G	9 0 V K	8 8	9 %	7.4	3 2	3 5	2 3	8 9 8 12	វិ នី	7.5
_	(39	88.7	8	7.3	3.5	18.2	00 I	88 8 N	97	7.4	<u>မ</u> ှ (24.7	71	87.3	<u> </u>	7.4
		24.6	83	7.3	4.0	17.8	<u></u>	87.1	97	7.4	6	22.5	0	77.4	8	7.3
50 13.9		81.9	3 8 8	7.3 7.3	n 🚣 C Cn	177	7 O.O	65 4	R 8	7.4	5 5	2 2	8 2	72.0	8 8	73
		3	3 8	7.2	д () Я С	17.7	7 .	97 Y	8 8	7.0	n ()	3 <u>^</u>	e a	8 7 C	2 5	1 2
	80	80.7	35	7.2	.	1	7.4	78.3	£ 8	7.3	0 0	100	5 C	83. ED 0	<u> </u>	7.2
		79.9	75	7.2	8.5	16.8	7.2	75 0	8	7.3	0	 00	5.8	23 34	8	7.2
		7	. 74	! ::	7.0	16.3	7.0	71.8	8	7.2	7.0	18.3	5.8	62.6	88	7.1
8.0	. C	78.0	3 3	7.	39 . C	5.0	30 g 30 G	3 6	2 £	7.2	20	17.6	יט ני יט ני	2 S	8 8	7.7
8.5 11.4		78.6	3	7.1	OP (15.3	6.0	7	87	7.1	œ (52	53 S	8 8	72
		79.0	74	7.2	9.0	15.5	6.0s	8.9	8	7.2	9.0	<u></u>	<u>5</u>	52.6	8	7.2
	o on	77.3	3	7.2	9.5 5	14.7	6.7	67.1	8	7.2	9.5	150	5.1	51.5	æ	7.2
10.5	9 0 N	76.7	3 2	7.2	5 6	1 4	2 O 4 C	8 8	3 2	7.3	10.0	3 <u>1</u> 3	à	47.6	8	: :
_		75.9	7	7.1	11.0	120	e :	50.7	31 :	7 :	110	- - - -	♣ 4	5 -	3 6	7. :
		75.6	7	7.1	11.5	11.6	6.3	50.0	73	7.0	1.5	11.6	•	10	3 3	7.0
	. 05	74.2	ដ	: :	12.0	11.3	6.2	58.3	75	7.0	12.0	11.2	4.7	43.2	75	7.0
130 103	3 A	73.4	3 2	70	12.0	11.1	3 5	57.1	2 2	7.0	125		á	12.0	8	7.0
	7	72.2	7 1	7.0	13 c	10.7	8 9	ទូ ទូ	려 7	ф.	ដូ ខ		A 4	417	7 6	7.0
		71.6	3	7.1	14.0	10.6	6 .0	05.O	72	8.0	14.0	10.7	ž,	41.7	7	9 9
	7.9	71.4	: 73	7.0	1 45	10.5	0.0	9	74	8.9	14.5	10.6	<u>.</u> 5	41.3	74	6.9
10.0		71 2	1 74	7.0	15.0	ō	9 0	<u>Σ</u>	12	9. 6	15.0	50.5	i Ci	41.3	74	69
16.0	B 7.7	00 c	3 5	7 6	16.0	5 5	9 G	n 0	3 6	a (3	ត់ <u>ពី</u>	5 6	Ġ	5 5	5 5	9 6
	7 7.4	66 .3	72	7.0	16.5	10	5.7	52.4	7 5	8.0	<u> </u>	103	•	9 6 60 6	7 5	о» (с 10 с
		6 5 3	74	7.0	17.0	9.8	5.2	&	74	6.9	17.0	<u></u>	4 .2	37.9	75	OD 1
		2 2 3 3	74	7.0	17.5	9.6	5	8	2	8.9	17.5	<u></u> 01	•	35.9	75	(3) (3)
	P.0	2 2	7 A	200	18.0	ວ ເ ດ	4 2	3 6	8 6	9 6		9 60	Θ	32.4	3	(D)
	5.9	52.4	75		1 0.0	9 0	ယ <u>.</u> တ -	35.2	2 8	GD (1 0	20 to) (()	3 6 20 6	žõ	3 C
19.5 9.1	5.7	50 2	75	5.9	19.5	9.2	3.0	31 6	2	7.0	19.5	9.5	2.8	24.8	8 8	
19.8											19.8	9.0	2.8	25.5	8	
	Highlight	Highlighted Depth. Opening of the intake forebay (2 to 10 m)	ening of the i	ntake foreba	y (2 to 10 m	3										
Tailrace data for same time period as vertical profile on 6/8/02 Time Temp C D.O. mp/I D.O. % Sal Cond	ame time period	od as vertical	profile on 6/6 Cond		Tailrace de	•	time period as vertical profile on 6/20/02	as vertical	profile on 8	/20/02 24	Tailmace data	a for same	time period	for same time period as vertical profile on		7/2/02
1100 13.8		87.5	8	2/6	1200	17.2	<u>.</u>	85.4	8	D/a	1 8	21.8	6.8	6.6 78.4	8	B/U
1300 13.7	7 9.0	87.9	88	2, 2	1 i	17.0	9 0	2 8 3 8	3 4	2 2 2	3 2	21.0	n (2)	78.4	8 8	5
data a					•					,		!	į	•	;	į

Appendix Table B-2
Peavy 2002 Hydroelectric Project
Vertical Profile Data -

| 1400 | 1300 | | Tailmace du | | | 19.5 | 19.0 | 18.5 | 18.0 | 17.5 | 17.0 | 18 .5
 | 1 5 | j (| 4 6 | 1 | 35 | 130 | 125
 | 120 | <u>≓</u> | 1 6 | 5 6 | 5 6 | 80
 | о
С | 8.0 | 7.5 | | | | 5.0 | 4 .5 | • 6 | ي د
م | 2 5 | 2.0 | 1.5 | 10
 | 0 0 | Depth (m) | • | 8-12 nph | NITE winds | Secri D | MORON
 | |
|----------|---|---|--|--|--|------------------------|------------------------------------|--|--|---|---
--|--|---|--|---
--|---|--|--|---|------------
---|--|--|--|--|---|---|---|---
---|--|---|--|---|--|--|--|---|---
--|-------------|--|--|---
--|
| 22.9 | 22.8 | | ta for same | Highlighte | | 9.5 | 9.7 | 9.7 | 9.0 | 10.0 | <u></u> | 502
 | 5 5 | 5 5 | , i | 10.0 | 10.9 | 11.2 | <u> </u>
 | 11.9 | 12.4 | <u> </u> | 14.7 | 10.2 | 19.0
 | 19.9 | 20.4 | 20 | 210 | 21.7 | 22.2 | 22.5 | 3 | 23 5 | 3 3 | 25 | 25.8 | 25.9 | 25.8
 | 28 8 | emp (C) | i
Š | | • | epth 6 0 ft. | mane avr (ev
 | |
| <u>.</u> | 0 | | ione peri | d Depth O | | 13 | 1.4 | 1.4 | <u>.</u> | 21 | 22 | 22
 | بر
د
د | n u | S P. | - | <u>د</u> | <u>3</u> | <u></u>
 | <u>ω</u> : | 3.0 |) <u>.</u> | 3 | א ני
דט ח | 2.7
 | 3.2 | 3.0a | . | 4 | | <u> </u> | 5.2 | Ø.
4 | 7.0 | 7.2 | 1.7 | 7.2 | 7.4 | 7.4
 | 73 | 3 | | | | water dopt | 30: 23 C
 | 4 |
| 70.4 | 70.9 | 1 00 % S | XI BE VENTICE | pening of the | | 12.1 | 12.4 | 12.9 | 14.0 | 17.4 | 20 2 | 19 E
 | 3 2 | 3 6 | 3 5 | 26.3 | 28.3 | 28.0 | 28.9
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| F | <u>ş</u> ş | | | e intake for | | 8 | 8 | 2 | 82 | 8 | 78 | % :
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Ge (| | | • : | . <u></u> | 2.3
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25.5 22.2 7.8 24.0 115 73 2.5 22.5 2.5 2.5 3.4 4.1 111. 20. 25.5 22.2 7.8 24.0 115 7.7 3.5 22.5 2.5 2.5 78.4 111. 20. 25.5 22.8 2.6 2.7 21. 20. 24.8 7.3 27.8 114 77 3.5 22.5 2.5 2.5 78.4 111. 20. 24.8 7.3 27.8 113 7.8 4.5 27.1 5.4 62.5 109. 20. 25.5 22.8 5.6 27.1 111 7.4 5.5 27.1 5.4 62.5 109. 20. 25.5 22.8 5.6 27.1 111 7.4 5.5 27.1 4.5 12. 20. 25.5 22.8 5.6 27.1 111 7.4 5.5 27.1 4.5 12. 20. 25.5 22.8 5.6 27.1 111 7.4 5.5 27.1 4.5 12. 20. 25.5 22.8 5.6 27.1 111 7.4 5.5 27.1 5.4 6.5 27.1 109. 20. 25.5 22.8 5.6 27.1 111 7.4 5.5 27.1 5.4 6.5 27.1 109. 20. 25.5 27.1 27.1 111 7.4 5.5 27.1 5.5 27.1 4.5 12. 20. 25.5 27.1 27.1 111 7.4 5.5 27.1 5.5 27.1 4.5 12. 20. 25.5 27.1 27.1 111 7.4 5.5 27.1 109. 20. 27.1 27.1 109. 20. 27.1 27.1 109. 20. 27.1 27.1 109. 20. 2 | 110 256 778 972 1115 779 100 229 73 844 111 111 111 111 111 111 111 111 111 | 0.0 0.0 227 7.9 990 119 800 00 00 128 7.2 87.4 111 110 256 7.8 81 115 7.9 1.5 22.8 7.3 84.4 111 110 256 7.7 86.1 115 7.9 1.5 22.8 7.3 84.4 111 110 256 7.7 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Unofficial FERC-Generated PDF

29- rp: 21 C ter depth :	Aug-02 55' to 67"		e: 1100	1 ''	nate a riter		2-Sep-02					47	-Oct-02		
ter depth :	55' 10 67'		: 1100	1 ''	nale a riter				_				-XXI-72		
	55° to 67°		: 1100	i		np 183C	•	•		Approx	mate air le	mp92 C			
D.O.	_	100		Secci Dep	th:5.5% w	iter depth (55' to 66	Tir	ne. 1130	Secci Depti	1.60ft. wal	ler depth 6i	0° to 67°	Tin	ne: 1100
D.O.	_		louds	North Wes	st Win is 1.	? - 8 mon		clea	r blue sky	North West	Winds 4-7	moh		30	% clouds
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D.O.	D.O. %	Cond.	- Crear	<u> </u>		D.O.	D.O. %	Cond.		╅			D.O. %		it breeze
(mg/l)	Saturation		oH (S.U.)	Depth (m)	Temo (C:		Saturation		pH (\$.U.)	Depth (m)	Temp. (C	D.O.) (mg/l)	Saturation	Cond.	-N/C !!
7.3	84.8	114	7.4	0.0	213	7.8	87.7	123	7.8	0.0	9.5	9.7	84.7	112	pH (S.U. 7.7
7.3	84.0	114	7.4	0.5				_			E .				7.7
7.4	83.6	114	7.4	1.0	21.3	7.8	87.5	122	7.8	1.0	9.5	9.7	85.1	112	7.8
7.3	83.0	114	7.4	1.5	21.3	7.8	87.7	122	7.8	1.5	9.5	9.7	84.6	112	7.8
	82.8	114	7.4	2.0	21.2	7.8	88.7	122	7.5	2.0	9.5	9.7	83.7	112	7.8
					21.2	7.7	88.3	122	7.5	2.6	9.4	9.7	84.3	112	7.8
									–	3.0	9,4	9.7	84.2	112	7.6
					1		-							_	7.8
					1										7.8
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															7.8
										1					7.6 7.6
5.9	66.2	115	7.2	8.5	20.5										7.6
5.8	64.8	116	7.2	7.0	20.3	5.7	62.5	124	73	1					7.6
5.7	64.2	117	7.2	7.5	20 2	5.4	59.0	124	72	7.5	9.4	9.5			7.6
5.7	64.2	119	7.2	8.0	20.2	5.3	57.6	124	72	8.0	94	9.5	82.9	112	7.6
5.7	63 4	125	7.2	8.5	20.2	5.1	54.2	124	7.1	8.5	94	9.5	82.7	112	7.6
		128		9.0	19.9	4.6	49.0	124	7.1	9.0	94	9.5	83.0	112	7.8
						_	48.2	123	7.1	9.5	9.4	9.6	83.3	111	7.5
													83.2	111	7.5
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				1						I		-			7.5 7.5
0.9	8.2	88	6.8	13.5	12.6	0.6									7.5 7.5
0.9	8.0	86	6.8	14.0	12.5	0.6	5.2	93		I					7.5 7.5
0.9	8.0	85	6.8	14.5	12.1	0.6	5.1	93	6.8	14.5	8.5	9.7			7.5
0.9	7.8	84	6.8	15.0	11.7	0.5	4.6	91	67	15.0	8.4	9.6	81.5	101	7.5
			6.7	15.5	11.1	0.5	4.6	90	6.8	15.5	8.4	9.6	81.7	101	7.4
								96	8.8	16.0	8.4	9.6	81.4	101	7.4
													81.5	100	7.4
										I					7.5
										I					7.5
				1								_			7.5
0.9	7.5	110	6.8	19.0	97	0.6	5.1	115	8.8	19.0	8.2				7.4
			0.0	19.3	9.6	0.6	5.2	121	6.8	19.3	8.2	9.6 9.5	81.3 80.3	100 100	7.5 7.5
	7.3 7.4 7.3 7.4 7.2 6.7 6.2 6.0 5.8 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0	7.3 84.0 7.4 83.6 7.3 83.0 7.3 82.8 7.4 83.9 7.4 83.4 7.2 82.0 7.2 82.1 6.7 75.6 6.2 69.9 6.2 69.6 6.0 87.4 5.9 66.2 5.8 64.8 5.7 64.2 5.7 63.0 5.6 61.5 5.1 56.0 3.6 38.0 0.9 8.6 0.9 8.6 0.9 8.6 0.9 8.6 0.9 8.6 0.9 8.7 0.9 8.7 0.9 7.7 0.9 7.6 0.9 7.7 0.9 7.6 0.9 7.7	7.3 84.0 114 7.4 83.6 114 7.3 83.0 114 7.3 82.8 114 7.3 82.8 113 7.4 83.4 113 7.2 82.0 113 7.2 82.1 113 6.7 75.6 113 6.2 89.9 114 6.2 89.9 114 6.0 87.4 115 5.9 86.2 115 5.8 84.8 116 5.7 84.2 117 5.7 84.2 117 5.7 84.2 117 5.7 83.1 128 5.7 63.0 129 5.6 51.5 133 3.6 38.0 125 5.7 63.0 129 5.6 51.5 133 3.6 38.0 125 0.9 8.6 92 0.9 8.6 92 0.9 8.6 92 0.9 8.6 92 0.9 8.6 92 0.9 8.6 92 0.9 8.6 86 0.9 8.0 86 0.9 8.0 86 0.9 8.0 86 0.9 8.0 86 0.9 8.0 86 0.9 7.7 94 0.9 7.6 99 0.9 7.7 103 0.9 7.5 102 0.9 7.5 102	7.3 84.0 114 7.4 7.4 83.6 114 7.4 7.3 83.0 114 7.4 7.3 82.8 114 7.4 7.4 83.9 113 7.4 7.4 83.4 113 7.4 7.2 82.0 113 7.4 7.2 82.1 113 7.4 6.7 75.6 113 7.4 6.2 89.9 114 7.3 6.2 89.9 114 7.3 6.2 89.6 115 7.2 5.9 86.2 115 7.2 5.9 86.2 115 7.2 5.8 64.8 116 7.2 5.7 84.2 117 7.2 5.7 83.4 125 7.2 5.7 63.0 129 7.2 5.7 63.0 129 7.2 5.7 63.0 129 7.2 5.7 63.0 129 7.2 5.6 61.5 133 7.2 5.1 56.0 133 7.2 5.6 61.5 133 7.2 5.1 56.0 133 7.2 5.6 61.5 88.0 126 7.0 0.9 8.6 92 6.8 0.9 8.6 8.6 8.8 0.9 8.6 8.8 0.9 8.6 8.8 0.9 8.7 886 6.8 0.9 8.8 88 6.8 0.9 8.8 88 6.8 0.9 8.8 88 6.8 0.9 8.0 85 6.8 0.9 7.8 84 6.8 0.9 7.8 84 6.8 0.9 7.8 84 6.8 0.9 7.7 94 6.7 0.9 7.6 99 6.7 0.9 7.7 103 6.8 0.9 7.5 102 6.8	7.3 84.0 114 7.4 0.5 7.4 83.6 114 7.4 1.0 7.3 83.0 114 7.4 1.5 7.3 82.8 114 7.4 2.0 7.4 83.9 113 7.4 2.5 7.4 83.4 113 7.4 3.5 7.2 82.0 113 7.4 4.0 6.7 75.6 113 7.4 4.0 6.7 75.6 113 7.4 4.5 6.2 89.6 114 7.3 5.0 6.2 89.6 114 7.3 5.5 6.0 67.4 115 7.2 8.5 5.8 64.8 116 7.2 7.0 5.7 64.2 117 7.2 7.5 5.7 63.4 125 7.2 8.5 5.7 63.1 128 7.2 9.5 5.6 61	7.3 84.0 114 7.4 0.5 214 7.4 83.6 114 7.4 1.0 21.3 7.3 83.0 114 7.4 1.5 21.3 7.3 82.8 114 7.4 2.0 21.2 7.4 83.9 113 7.4 2.5 21.2 7.4 83.4 113 7.4 3.0 21.0 7.2 82.0 113 7.4 4.0 20.7 6.7 75.6 113 7.4 4.5 20.8 7.2 82.1 113 7.4 4.5 20.7 6.7 75.6 113 7.4 4.5 20.7 6.7 75.6 113 7.4 4.5 20.7 6.7 75.6 113 7.4 4.5 20.7 6.7 75.6 90.8 114 7.3 5.0 20.7 6.7 75.6 90.8 114 7.3 </td <td>7.3 84.0 114 7.4 0.5 21.4 7.8 7.4 83.6 114 7.4 1.0 21.3 7.8 7.3 83.0 114 7.4 1.5 21.3 7.8 7.3 82.8 114 7.4 2.0 21.2 7.8 7.4 83.9 113 7.4 2.5 21.2 7.7 7.4 83.4 113 7.4 3.0 21.0 7.5 7.2 82.0 113 7.4 4.0 20.7 6.7 7.2 82.1 113 7.4 4.0 20.7 6.7 6.7 75.6 113 7.4 4.5 20.7 6.7 6.2 69.9 114 7.3 5.0 20.7 6.7 6.2 69.6 114 7.3 5.5 20.7 6.5 6.0 87.4 115 7.2 8.5 20.5 5.6 5.8<td>7.3 84.0 114 7.4 0.5 21.4 7.8 88.3 7.4 83.6 114 7.4 1.0 21.3 7.8 87.5 7.3 83.0 114 7.4 1.5 21.2 7.8 86.7 7.4 83.9 113 7.4 2.5 21.2 7.7 86.3 7.4 83.4 113 7.4 3.0 21.0 7.5 81.3 7.2 82.0 113 7.4 3.6 20.8 7.0 81.3 7.2 82.1 113 7.4 4.0 20.7 6.7 73.9 6.7 75.6 113 7.4 4.6 20.7 6.7 74.9 6.2 69.9 114 7.3 5.0 20.7 6.7 74.9 6.2 69.6 114 7.3 5.5 20.7 6.5 73.0 5.9 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83.9 113 7.4 2.5 21.2 7.7 88.3 122 7.5 2.6 9.4 7.4 83.4 113 7.4 3.0 21.0 7.5 81.3 123 7.5 3.0 9.4 7.2 82.0 113 7.4 3.0 21.0 7.5 81.3 123 7.5 3.0 9.4 7.2 82.0 113 7.4 3.5 20.8 7.0 81.0 123 7.4 3.5 9.4 8.7 2.2 82.1 113 7.4 4.0 20.7 6.7 7.9 9.12 7.3 4.0 9.4 8.7 2.8 82.1 113 7.4 4.5 20.7 6.7 7.9 123 7.3 4.0 9.4 8.2 82.1 113 7.4 4.5 20.7 6.7 7.9 123 7.3 4.0 9.4 8.2 82.1 113 7.4 4.5 20.7 6.7 7.9 123 7.3 4.5 9.4 8.2 82.1 113 7.4 4.5 20.7 6.7 7.9 123 7.3 4.5 9.4 8.2 82.1 113 7.4 4.5 20.7 6.7 7.9 123 7.3 4.5 9.4 8.2 82.1 115 7.2 8.0 20.7 8.6 73.0 124 7.3 5.0 9.4 8.2 82.1 115 7.2 8.0 20.7 8.6 73.0 124 7.3 5.0 9.4 8.2 82.1 115 7.2 8.0 20.6 8.2 69.0 124 7.3 5.0 9.4 8.2 82.1 115 7.2 8.5 20.5 80.6 8.7 1.5 124 7.3 8.0 9.4 8.5 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4	7.3 84.0 114 7.4 1.0 5.5 21.4 7.8 88.3 123 7.5 0.6 96 0.7 7.4 83.6 114 7.4 1.0 21.3 7.8 87.5 122 7.8 1.0 9.5 9.7 7.3 83.0 114 7.4 1.5 21.3 7.8 87.7 122 7.5 2.0 9.5 9.7 7.3 82.8 114 7.4 2.0 21.2 7.8 88.7 122 7.5 2.0 9.5 9.7 7.4 83.4 113 7.4 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214 7.8 88.3 123 7.5 0.6 85 6.7 84.5 7.4 83.6 114 7.4 1.0 213 7.8 87.5 122 7.8 1.0 95 9.7 85.1 7.3 82.8 114 7.4 1.5 21.3 7.8 87.7 122 7.6 1.5 9.5 9.7 86.6 7.3 82.8 114 7.4 2.0 21.2 7.8 88.7 122 7.5 2.0 9.5 9.7 83.7 7.4 83.4 113 7.4 2.5 21.2 7.7 88.3 122 7.5 2.6 9.4 9.7 84.3 7.4 83.4 113 7.4 3.0 21.0 7.5 81.3 123 7.5 3.0 9.4 9.7 84.3 7.2 82.0 113 7.4 3.5 20.8 7.0 81.0 123 7.5 3.0 9.4 9.7 84.3 7.2 82.0 113 7.4 4.0 20.7 6.7 7.3 9.1 123 7.5 3.0 9.4 9.6 83.6 7.2 82.1 113 7.4 4.0 20.7 6.7 7.3 9.1 123 7.3 4.0 9.4 9.8 83.6 7.2 82.1 113 7.4 4.0 20.7 6.7 7.3 9.1 123 7.3 4.0 9.4 9.8 83.6 83.6 83.8 83.8 83.8 83.8 83.8 83	7.3 84.0 114 7.4 0.5 214 7.8 88.3 122 7.5 0.5 95 6.7 84.5 112 7.4 83.6 114 7.4 1.0 213 7.8 87.5 122 7.8 1.5 9.5 9.7 84.6 112 7.3 82.8 114 7.4 1.0 213 7.8 87.5 122 7.8 1.5 9.5 9.7 84.6 112 7.3 82.8 114 7.4 2.0 212 7.8 86.7 122 7.5 2.6 9.4 9.7 83.7 112 7.4 83.9 113 7.4 2.5 212 7.7 86.3 122 7.5 2.6 9.4 9.7 83.7 112 7.4 83.9 113 7.4 2.5 212 7.7 86.3 122 7.5 2.6 9.4 9.7 84.3 112 7.2 82.0 113 7.4 3.0 21.0 7.5 81.3 123 7.5 3.0 9.4 9.7 84.2 112 7.2 82.0 113 7.4 3.6 20.8 7.0 81.0 123 7.4 3.5 9.4 9.6 83.6 112 7.2 82.0 113 7.4 4.0 20.7 8.7 7.9 124 7.3 3.5 9.4 9.6 83.6 112 7.2 82.1 113 7.4 4.5 20.7 8.7 7.9 124 7.3 4.5 9.4 9.6 83.8 112 8.2 89.8 114 7.3 5.5 20.7 8.6 7.4 9.1 24 7.3 4.5 9.4 9.8 83.8 112 8.2 89.8 114 7.3 5.5 20.7 8.6 7.15 123 7.4 5.6 9.4 9.8 83.9 112 8.2 89.8 114 7.3 5.5 20.7 8.6 7.15 123 7.4 5.6 9.4 9.8 83.9 112 8.2 89.8 114 7.3 5.5 20.7 8.6 7.15 123 7.4 5.6 9.4 9.8 83.8 112 8.2 89.8 114 7.3 5.5 20.7 8.6 7.15 123 7.4 5.6 9.4 9.8 83.8 112 8.2 89.8 116 7.2 7.5 8.5 20.5 80 66.7 124 7.3 6.0 9.4 9.8 83.3 112 8.8 84.8 116 7.2 7.0 20.3 5.7 62.5 124 7.3 6.0 9.4 9.8 83.3 112 5.7 94.2 117 7.2 7.5 20.2 54 59.0 124 7.3 7.0 9.4 9.8 83.3 112 5.7 94.2 117 7.2 7.5 20.2 54 59.0 124 7.3 7.0 9.4 9.6 83.3 112 5.7 84.2 117 7.2 7.5 20.2 54 59.0 124 7.3 7.0 9.4 9.6 83.3 112 5.7 84.2 117 7.2 7.5 20.2 54 59.0 124 7.3 7.0 9.4 9.6 83.3 112 5.7 84.2 117 7.2 7.5 20.2 54 59.0 124 7.2 7.5 9.4 9.5 82.9 112 5.7 83.4 125 7.2 8.5 20.2 54 59.0 124 7.2 7.5 9.4 9.5 82.9 112 5.7 83.4 125 7.2 8.5 20.2 54 59.0 124 7.2 7.5 9.4 9.5 83.3 112 5.7 84.2 117 7.2 7.5 20.2 54 59.0 124 7.2 7.5 9.4 9.5 83.3 112 5.7 84.2 117 9.5 9.4 9.6 83.3 112 5.7 83.4 125 7.2 8.5 20.2 54 59.0 124 7.2 7.5 9.4 9.5 83.3 112 5.7 83.4 125 7.2 8.5 20.2 54 59.0 124 7.2 7.5 9.4 9.5 83.3 112 5.7 83.4 125 7.2 8.5 20.2 54 59.0 124 7.2 8.5 9.4 9.5 83.3 112 5.7 83.4 125 7.2 8.5 20.2 54 59.0 124 7.1 8.5 9.4 9.5 83.3 112 5.7 83.3 112 5.7 83.3 112 5.7 83.3 112 5.7 83.3 83.3 112 5.7 83.3 83.3 112 5.7 83.3 83.3 112 5.7 83.3 83.3 112 5.7 83.3 83.3 112 5.7 83.3 83.3 112 5.7 83.3 83.3 112 5.7 83.

Appendix Table B-3
Peavy 2003 Hydroelectric Project
Vertical Profile Data

John Hrober and Russ Rick	16-Jul-03	Secu Depth 7.0 ft water depth 64 to 67	Taken in howage	O.	₹	226 8.2	8.2	21.2	21.1 7.9	.7	21.0 7.8		20.6	20.4	10.3		17.5		5 6	5		14.4	19.7	125	12.1			50	100				9.5	_ 7
	03	to 67" Tame: 1030		D.O. % Cond.	(uS/cm)	97.3 106	95.6	P4.5							57.4											22:0 82						•	87	
 	\downarrow				٦	7.0	71	7.5	7.	7.4	7,7	7	7.4	7.3	72	7.2	7:	7.1	7 2	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	-	7.0	8.8 8.9	6.00 0 7.0 0.00 0 0	3 0 0 0 0 7	0000000
John Hrober and Russ Rich	A CONTRACTOR	Secol Depth: 8 0 ft 1	exec		Depth (m) Te	0.0	5	3 5	2 2	3.0	35	5.	5.0		2 6	7.0	3 .	<u>.</u>	» c	0.0	1 6 5 6	15.5	120	13.0	35	4.0	50			17.0	17.5	-	, i	5 5 5 5 5 6
nd Russ Ric	2	Secol Depth: 8 Oft water depth 64 to 67	eken in flowage	0.0.	Temp (C) (mg/l)	2 2	22.7	220	2 2	22.3	3 22	21.9	21.8	21.7	20.0	8.1	1 2 3 3 3 3 3 3 3 3 3 3		, ō	15.0		13 (i	12.ED	12.2	=======================================	<u> </u>			5 <u>5</u>		200			
1 ~	30-Jul-03	r depth 64 t). D.O. %	1	B (2	-		00 D	æ		72	ja I	• ~	5 0	'n	ة م		.	Ö	6 C			o -		0 .0 0	9	07	2 6	0.2	2	=	2 :	229
		3 67 ⁻			12		97.5		98 ×			2 2		76.6				24.0			0 E	8 (5.5	9 6	9.3	9 .0 9 .0	2) <u>(0</u>	- C	5	N	J K	,	2
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 §,			` -		(S.U.) Depth			7.6			7.6	7.5			7.5	7.4	7 2	7.2	32	7.2	<u> </u>	<u> </u>	:: —	<u> </u>	7.1	12 —	<u> </u>	-	* 9	2 :	-	9 6	•	6.9
John Hrober and	and special state of the state	Secci Depth 8	Taken in		3																					3 6							ē 6	
d Noel Curigh	3	Depth 8 5 ft. water	n flowage	0	тр. (C) (m	26.7	24.0	323	22.0	22.5	3 13	23	22.2	3 2	21.0	20.6	10.7	5	17.4	15.0	# # # #	13.6	133	12.4	12.0	= == =================================	11.4	11.0	5 č	10.2	00	9 8	6 0 (
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10/2/2003 John Hrobar and Russ Rick

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10/203 PH Na	2 to 10 m)	7.6	7.6	7.6	7.0	7 .	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	77	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	77	7.7	7.0.0	5	Circles Car Product	Cases Strains	Time: 0900	

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																					0.5 21.0	_	Depth (m) Temp. (C) (mg/l)	D.	Vertical Profile taken near Peavy tailrace station		Approximate air temp: 18.3 C	
																			7.0	7.0	7.0	_		D.O.	r Peavy t		18.3 C	16-Jul-03
																				81.9	82.2	82.8	Saturation	0.0	uirace stati			103
																			Ž.	Ī	Ę	104	(uS/cm)	<u>§</u>	ğ	Time		
																			7.9	7.9	7.9	7.8	pH (S.U.)			Time: 1630		
4.2	4.0	<u>3</u> .5	3.0	25	20	<u>.</u>	1.0	0.5	0.0			Vertica		Approxin		2.7	2.5	2.0	<u>.</u>	1.0	0.5	0.0	Depth (m)		~		Approxim	
bottom	20.8	20.0	20.8	20.6	20.8	20.8	20.8	20. 6	20.8	Depth (m) Temp. (C) (mg/l)		Vertical profile taken near station T-2		Approximate air temp: 18.3 C		bottom	21.1	21.1	21.1	21.1	21.1	21 1	Temp. (C) (mg/l)		entical profi		Approximate uir temp: 18 3 C	
	(3)	7.0	7.0	7.0	7.1	7.1	7.1	7.2	7.4	(TOF	D.O.	an near st		p: 18.3 C	10		7.0	7.0	7.0	7.0	7.0	7.0	(mg/l)	D.O.	e taken n		5: 18 3 C	ī
	78.6	79.5	79.6	80.2	81.1	81.8	82.1	82.8	82.6	Saturation (uS/cm)	D.O. 🔏	ation T-2			16-Jul-03		82.0	82.2	82.2	82.3	82.5	82.7	Saturation (uS/om)	D.O. 🛠	Vertical profile taken near Station T-1		ļ	16-Jul-03
	Ī	ខ្ល	Ē	ឪ	Ē	Ē	Ē	ខ្	104	(uS/am)	Cond		Tim				Ź	Ę	Ş	\$	Ş	\$	(uS/am)	Cond.	•	Time	٠	
	71	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.0	pH (S.U.)			Time: 1437				7.7	7.7	7.7	7.7	7.7	7.7	pH (S.U.)			Time: 1635		

87.7 87. 0	5.0							•							
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75.7		21.5	2.5	7.4	8	80.2	3	20.3	2.5	7.2	97	128	3.9	18.7	2.5
2	7.2	22	20	7.5	ខ	61.0	O. 4	20.4	2.0	7.2	82	43.9	4.0	68	2.0
91.2	7.6	22	5	7.5	5	70. 6	6.2°	20.0	<u>-</u>	7.2	8	45.2	4.2	19.2	<u>.</u> .5
94 .3	7.9	23	<u>.</u>	7.5	5	79.5	6.0	21.5	 O	7.3	នី	78.0	6.9	20.7	1.0
86. V.	8.0	23	0.5	7.5	2	93.1	7.8	22.9	0.5	7.3	101	90. 4	7.8	224	0.5
95.3	8.0		0.0	7.5		83.8	7.9	23.0	0.0	7.2		93.7	7.9	227	0.0
Seturation	(mg)	Tempo (C)		pH (S.U.)	(uS/cm)	Saturation	(mg/l)	Temp. (C)	Depth (m)	рH (S.U.)	(uS/cm)	Saturation	(mg/l)	Temp (C)	opm (m)
D.O. %	D.O.				S C	D.O. %	D.O.				_	D.O. %	0.0) <u>.</u>	
7-2	ar station i	of river ne		6 clauds	1009	-	ar station T	of river ne		DAG	2		DOM	anyer Cha	F-0-07/
n on east sid	rofile taker	Vertical c		26		on east side	roffle taken	Vertical p		ciouds	200%		. 5	Provide taxe	Veruca
				0: 1130					•	1115	Time.				•
•	πp. 23.8 C	mate air ter	Approxi				30, 23 8 C	nuette air ter	Appro di		ļ		to 23.8 C	mate air ten	Approx
Lutos	8					Jul-03	ğ					ģ	30,70		
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86.0	5.8	21.0	3.0							7.1	88	40.0	3.7	18.5	3 .0
0 6. 0	3	21.1	25	7.4	<u>5</u>	63.0	5.6	28.4	2.5	7.1	8	40.3	3.7	18.5	2.5
85 -	7.3	22.4	20	7.5	ខី	2	5.7	20.5	20	7.1	8	41.0	3. 8	18.5	2.0
88.7	7.5	227	15	7.5	<u></u>	75.9	6.N	21.4	5	7.2	8	5.	*	19.3	1.5
83.1	7.8	22.9	<u>.</u>	7.5	102	86.3	7.3	223	<u>.</u>	7.2	<u></u>	78.7	6.8	21.2	1.0
95.5	3 .0	23.4	0.5	7.5	<u></u>	89.7	7.8	228	0.5	7.1	ខ្ល	90.6	7.7	22.4	0.5
85.7	80	23.4	0.0	7.5	- 1	83.3		_	0.0	7.0		81.7	7.8	22.5	0.0
Saturatio) S			pH (S.U.)	_	Saturation	(mg)		Depth (m)	pH (S.U.)		Saturation	•	Temp. (C)	Depth (m)
	D.O.				Ç C		0.0				Cond	D.O. %	0.0		
-2	av station i	of river ne		100% cloud		-	er station T	of over no		of rain	threa			lant off line	
1 on west sig	rofile taker	Vertical p	-	nain Tain		on west side	rofile taken	Verbcal p		ciouds	100%	8	Poavy laike	taken near.	ertical Profile
·	70: 23.6 C	THE SH FOR	nondov	e: 1130	Tim		40. 23.0 C	tare an ren	Approva	: 1105	Tima		6. Kö. a	roote an terr	, marine
7000	٤					VOTE:	٤					18	3		
	5					2	3					5	5		
	D.O % Cond. Saturation (uS/on) 96.7 102 96.6 102 96.6 101 96.5 102 96.6 101 96.5 101		Temp. (C) (mg/l) 23.4 8.0 23.4 8.0 23.4 8.0 23.4 8.0 23.4 8.0 23.4 8.0 23.6 5.8 22.7 7.5 22.8 7.8 22.9 5.7 20.9 5.7	Approximate air temp: 23.8 C Vertical profile taken or of their near station 7.2 Depth (m) Temp. (C) (mgf) 0.0 23.4 8.0 1.5 23.4 8.0 1.5 22.7 7.5 2.0 22.4 7.3 2.5 21.1 5.8 3.0 21.0 5.8 3.5 20.9 5.7 4.0 20.9 5.7 Approximate air temp: 23.8 C Vertical profile taken or of their near station 7.2 Vertical profile taken or of their near station 7.2	Approximate air temp: 23.8 C Approximate air temp: 23.8 C Vertical profile taken or or fiver near station 7.2 D.O. S. 0.5 23.4 8.0 S. 1.5 22.7 7.5 S. 2.0 22.4 7.3 S. 2.1 5.8 3.0 21.0 5.8 3.5 20.9 5.7 Approximate air temp: 23.8 C Approximate air temp: 23.8 C Vertical profile taken or of near near station 7.2	Time: 1130 Take: 1130 Take: 1130 Paperoximate air temp: 23.8 C Approximate air temp: 23.8 C Vertical profile taken or 100% cloud Vertical profile taken or 100% cloud Vertical profile taken or 100% cloud Vertical profile taken or 12.8 C Cond. Co	Dick Cond Approximate air termp: 23.8 C	Dic Time: 1130 Approximate air termp: 23.8 C	30-Jul-03 30-J	30-Jul-03 20-Jul-03 20-Jul	Approximate air temp: 23.8 C Time: 1130 Vertical profile taken on west side Time: 1130 Vertical profile taken on west side Time: 1130 Vertical profile taken on west side Time: 1130 Vertical profile taken or of mer near station 7-1 100% cloud Vertical profile taken or of mer near station 7-2 10.9 Cond. Con	Solution Solution	30-Jul-03 30-J	30-Jul-03 30-J	30-Jul-d3 30-J

Į.	10-Aug-03		_		Ę	10-200-03					į			
Approximate air temp: 29.4 C			Αφριοχ π	Approximate air lemp: 28.4 C	29.4 C	ľ			Approxim	Approximate air temp: 29.4 C	29.4 C	ľ		
		Time 1415					Time	Time: 1440	;				Time	Time: 1510
Vertical Profile taken near			Vertical.	Vertical profile taken on west	On West				Vertical C	Vertical profile taken on west	OT WEST			
Peavy Tair race station			2	side of river near station T-1	Br station 1					side of river near station T-2	ar station	7-2	1	
D .O.	ზ ზ.	Cong		п	0.0	9	8				0	⊃ ≠	Cond	ļ
Depth (m) Temp. (C) (mg/l)	Saturation (ut	(us/cm) pH (S.U.)	Depth (m)	Temp. (C) (3	<u>8</u>	(Exem)	PH છે.∪.)	(E)	Temp. (C)	9	3		DH (S.U.)
0.0 22.8 8.5	77.0		0.0	23.2	ျီ		<u>ā</u>	- 1	00		8	24.0	3	7.
0.5 22.4 6.5	76.0	108 7.4	0.5	23.2	6.7	79.0	ਛ	7.3	0.5	ខ្ល		82.0	ន	7.4
	71.0		1.0	23.0	8	78.0	ន្ត	7.3	1.0	23.0		81.0	ē	7.4
1.5 19.4 4.7	\$ 3.0	108 7.4	1.5	21.7	6 .	30	107	7.4	-5	222	6.7	78.0	ខ្ល	7.3
2.0 19.3 3.5	38.0		2.0	21.4	6.3	72.0	107	7.3	20	21.9	0	74.0	ន្ត	7.4
2.5 19.1 3.2	34.0	107 7.3							25	21.7	<u>ه</u>	720	E	7.4
3.0 18.1 3.0	33.0	107 7.2							30	21.0	8 .2	71.0	흁.	7.4
3.5 18.1 3.0	33.0	107 7.2							3.5	21.0	60	28	107	7.4
4.0 19.1 3.0	320	107 7.2							37	bottom		•		
4.5 18.1 3.0	32.0	107 7.2	L											
1-0t	0-Aug-03		F		10-∧	10-Aug-03					Ę	10-Aug-03		
Approximate air temp: 29.4 C		Time: 1430	Approx in	Approximate air temp: 29.4 C	29.4 C		Time	1460	Approxim	Approximate air lemp; 29,4 C	: 29.4 C		Time	. 16 30
Vertical profile taken in			Vertica!	Ventical profile taken on east	on mast		r area	78700	Vartical	Vonfile taken			9eur r	11me: 1520
Tainter channel			9	side of river near station T-1	er station i	T-1			90	side of river near station T-2	ar station	7-2		
D.O.	ک 4'0'0 1	C .			D.O.	D.O. %	Cond				0	*	3	
] -	3	uS/cm) pH (S.U.)	Depth (m)	Temp. (C) ((mg/l)	Š	(uS/cm)	pH (S.U.)	Depth (m)	(m) Temp. (C) (mg/l)		3	(uS/cm)	子 (S)
23.5	88.0	106 7.3	0.0	23.6	7.0	84.0	108		01	24.4	6.8	82.0	ē	7.3
<u> </u>	6.0		 O	23.6	O	61.0	õ	7.4	05	24.4	6.7	82.0	2	7.3
20.3	50.0	106 7.3	1.0	23.2	8.7	79.0	ē	7.3	1.0	22.0	6.9	81.0	ē	7.4
18.7	42.0		1.5	22.0	Ø.5	75 0	ē	73	1.5	22.3	6 .0	79.0	é	7.4
10.4	36.0		20	21 2	8 .3	72.0	107	7.4	20	220	O	77.0	ź	7.4
2.5 19.3 3.4	37.0	107 7.2	2.4	21.1	8.3	72.0	107	7.3	25	21.7	0 3	720	107	7.4
2.7 bottom									ه د	٠ ٢	3	200	Š	7.1

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Approxer	11 Аррохипата ви тептр 26.00	26.00	11-\$ep-03 C	Į	ŝ	Арроха	Approximate 8# (8/10/26 6C	0.26 SC	11-Sep-03		
Ventical	Vertical profile taken near	200		50% o	Time 1500 50% overcast	Vertx	Verical profile taken in	§ 5			Time: 1515 50% overtast
79,	Tail Race station					060	centor of river year Station T-1	cor Stotic	n 7.1		
	D	D.O.	D.O. ≯	5				O	0	•	Coa
Depth (m)	Temp. (C) (r	(NOFF)	Saturation	(ESO)	PH(S.U.)	Depth (m)	Temp. (C)	3	Saturation	8	
_		6.3	70.1		7.3	0.0		6.0	98.5	5	ι
0.5	19.6		9	1	7.4	0.5	197	6 .0	8	-	
5	10.6 6	G W	6 60	1	7.4	0	19.7	.	28.5	CP.	
5	18.6	OI N	8	1	7.	<u>.</u>	19.7	<u>.</u>	8	ا ما	
2.0	19.0	2	08.0	=	7.4	20	19.7	0.0	8	۵	
						2.5	19.7	.	8.2	N	
		114	11-Sep-03					11.	11-Sep-03		
Approxin	Approximate air temp. 26 60	26 60		Time	Time: 1508	Approx	Approximate air temp.26 6C)p.26 6C			Time: 1520
Vertic	Vertical profile taken in	5		50% c	50% overcast	Vertic	Vertical profile taken in	(en in			50% overcast
Ta	Tainter channel					2	center of niver neer station T-2	year stark	nT2	Į	
	0	0.0	D.O. ≱	Cond				D.O.	D.O.	-	C 001
_[₹	C	(Mg/l)	Saturation	(uS/cm)	pH (S.U.)	Depth (m)	Temp. (C)	(a)	Seturation	ğ	(LS
0.0	21.3	75	0	ន្តន	7 7	0.0	≓ 60 0	9 6	9 9		1
5	.26 .4	Ø.	76.1	8	7.4	<u>.</u>		O	8		
5	28	6.7	74.0	28	7.	<u>.</u>	0	6 .0	86.7	7	•
2.0	8	6.7	74.7	28	7.4	2.0	 10.0	3 .0	8	•	
25	19.7	8.7	73.6	ชี	7.4	2.5	18.8	6.0	8	<u>-</u>	
						3.0	19.8	6.0	98.3	ف	
						3.5	19.8	6.0	8	-	-
						4.0	19.8	6.0	8.4	-	

Peavy Falls Hydroelectric Project Vertical Profile Data- Appendix Table B-4

FERC Project No. 11830-000

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		21-	28-Aug-03	!				F-162	28-Aug-03		
Афргохії	Approximate air temp; 15.50):15.5C				Approvi	Approximate air temp. 15.5C	p:15.6C			
				Time	Time: 1045					Tine	Time: 1105
Vert	Vertical profile taken	ken		908	90% clouds	Vertica: p	Vertical profile taken in center	in conter		8	90% clouds
Gédr	fredr toil race station	٤		ر ک	SURINY	01.070	of niver near T-1 station	rapon		Si	Sunny
		0	D ∳	S R	:			ם ס	00 %	Cond	
Ospth (m)	Depth (m) Temp. (C) (mg/l)	(m)	Saturation		PH (S.U.)	Depth (m) Temp. (C) (mg/l)	Temp (C)	(<u>R</u>	Saturation	(mS/cm)	9H (S.U.)
0.0	20.9	-	69 7		7.4	0.0	21.9	72	82.9	=	
0.5	20.9	80	8 8	1	7.4	0.5	21.8	7.0	80.0 0	ī	7.4
. .	20.9	80	68 2	=	7.5	 	21.6	8	78.1	‡	7.4
<u>.</u>	20.7	4.7	56. 2	113	7.3	15	21.4	6	75.7	113	7.4
2.0	20.4	3.7	420	113	7.3	2.0	21.3	6.4	73.8	<u>;</u>	7.4
2.5	20.3	<u>ئ</u> 4	38 9	113	7.2	2.5	21.2	<u>ස</u>	72.7	: <u>.</u>	7.4
3.0	20.3	3.4	38.4	113	7.2	2.7	bottom				
3.5 5	20.3	3.4	36.4	113	7.2						
40	20.3	3 4	37.7	113	7.2						
4.5	20.3	33	36.8	113	7.1						
		28.	28-Aug-03					2	28-Aug-03		
Aoproxi	Approximate air temp:15.50	5:15.5C				Approxi	Approximate air temp:15.5C	35.5t.d			
V	Vertical profile taken	K		Time POS	Time 1050	Vertica	Vertical omfile taken in center			S Tim	Time: 1115
iñ i	in Tainter Channel	Đ.		Sı	Sunny	Ornio	of river near T-2 station	Ration		Ş	Surany
	_	D.O.	D.O. %	Š				D.O.	D.O. %	ğ	
Depth (m)	Ø	(mg/l)	Saturation	(uS/cm)	PH (S.U.)	Depth (m)	Temp. (C) (mg/l)	(mg/l)	Saturation	(uS/cm)	pH(S.U.)
0 0	3 8	7.3	3 S	=	7.4		3 2	7.2	2 <u>2</u>	-	7.7.
	3 6		3 :		. ;		3 1				
<u>.</u>	2 5	3 6	79.7	<u>;</u>	23	 	3 6	D 0	70.0	<u>:</u> ;	7 ·
20	20.7	0	74.2	‡	7.4	20	22.2	8.7	78.2	= :	7.5
2.5	20.6	4.7	50.6	<u>‡</u>	7.3	2.5	22.1	6.6	77.4	=	7.5
3.0	20.6	4.2	6 1	114	7.2	3.0	22	6.5	75.3	===	7.4
						3.5	221	8.4	75.0	113	7.4
						4.0	22.0	8.4	74.2	114	7.4

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				_	_		_	_		_			_	_	•									-,	_	_	_			_	_
) # 	2	<u>_</u>	ō	0.5	0.0	Depth (m)			Verti	:	randa'v						2.5	2.0	<u>.</u>	<u>.</u>	0	00	Depth (m)			Vertical		Approx	
ľ	ě	Á	15 7	15 B	15.0	16.2	16.3	Temp. (C)		ewaer chann	cal profile tal		vet are elected						15.9	160	5	<u>16</u>	ō		S		CHRIS GALARY	N profile fake	•	imate air terr	
l	ć		>	œ S	8.7		9	(mg/l)	D.O.	2	5	•	70.7 CC	25-					<u>.</u>	8 6	8.7	8.7	о» Он	9.0	(mg/l)	0	3	3 76 PK		6 7.20	ž
	8	B 5	8	0	89.2	90.3	91.7	Saturation	D.O. %					Sep-03					8	88 .6	89 7	89.7	9 0.0	82.7	Saturation	D.O. %					25-3ep-03
Ì	Ī	3	123	123	23	23	123	(uS/cm)	E		70%	Tim							123	122	ន	Z	127	123	(uS/cm)	Ç,		70%	T m		
	ē	,	7.6	7.6	7.6	7.6	7.6	рн (S.U.)			Overcast	1425							7.6	77	7.7	7.7	7.7	7.7	рН (S.U.)		ļ	SECTABAC	1414	,	
	6	٠ •	20	<u>.</u>	1.0	0.5	0.0	Depth (m)		Se Contraction	Vertica		Approx					3.0	25	2.0	<u>.</u>	1.0	0.5	0.0	Depth (m)		eg.	Vertica		Approx	
	<u> </u>	<u> </u>		1 0.0	6.0	5.0	16.0	Temp (C		Janu O Jah	protie tak		on all of the					16.0	<u>.</u>	<u>6</u> 0	60	60	<u>6</u> 0	180	Тетр. (С		Mer C! TVB!	profee tak	!	imete air te	
	- 0	• 6	ح	.	د .	6. 3	8.3	(mg/)	D.O.	100 X 2000	en in the		ипр:7.2C	25				8.4	8 .4	B.4	0. 4.		<u></u>) (mg/l)	D.O.	neur static	en in the		Mp:7.20	¥
2	3 2	26.7	25 7	<u>85</u>	85.2	85.7	85.7	Saturation	D.O. 🛠	2-1 40	•			Sep-03				86.0	8	8	86.4	8	86.7	80.1	Saturation	0.0%	771				Sep-43
i	į	ŝ	ន៍	ន៍	ź	122		1 (uS/cm)	<u>8</u>		70%	Tim						123	នី	ន	ã	ឪ	ដ		1 (uS/cm)	3		70%	7		
	7 .	7 :	75	7.5	7.5	7.6	7.8	pH (S.U.			CVB/CBSt	ē: 1440						7.5	7.5	7.5	7.6	7.5	7.5	7.5	pH (S.U.			DECLERO	e: 1430		
		3.0 15.9 8.3 85.7 122	158 85 869 122 7.6 2.5 159 8.3 85.7 122 3.0 15.9 8.3 85.7 122	15.7 8.5 86.7 123 7.6 2.0 16.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 3.0 15.9 8.3 85.7 122	15.8 6.5 86.9 123 7.6 1.5 16.0 8.3 85.6 122 15.7 8.5 86.7 123 7.6 2.0 16.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 3.0 15.9 8.3 85.7 122	15.0 8.7 89.2 123 7.6 1.0 15.0 6.3 85.2 122 15.8 6.5 86.9 123 7.6 1.5 16.0 8.3 85.6 122 15.7 8.5 86.9 122 7.6 2.0 16.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 3.0 15.9 8.3 85.7 122	16.2 8.8 90.3 123 7.6 0.5 15.9 8.3 86.7 122 16.0 8.7 89.2 123 7.6 1.0 16.0 8.3 85.2 122 15.8 8.5 86.9 123 7.6 1.5 16.0 8.3 85.6 122 15.7 8.5 86.9 122 7.6 2.0 16.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.9 8.3 85.7 122 122 15.9 8.3 85.7 122	16.3 8.9 91.7 123 7.6 0.0 18.0 8.3 86.7 122 16.0 8.7 89.2 123 7.6 1.0 15.0 8.3 85.2 122 15.0 8.5 86.9 123 7.6 1.5 16.0 8.3 85.6 122 15.7 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 86.7 122 15.0 8.3 85.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122 15.0 8.3 86.7 122	(m) Temp. (C) (mg/l) Saturation (uS/cm) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) 163 8.9 91.7 123 7.6 10.0 18.0 8.3 86.7 122 18.0 8.9 90.3 123 7.6 1.5 15.9 8.3 86.7 122 15.8 8.5 86.9 123 7.6 1.0 16.0 8.3 85.2 122 15.8 8.5 86.9 123 7.6 1.5 16.0 8.3 85.6 122 15.7 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 12.0 12.0 12.0 12.0 12.0 12.0 12.0	D.O. D.O.% Cond. Temp. (C) (mg/l) Saturation (uStern) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uStern) 16.3 8.9 91.7 123 7.6 0.0 16.0 8.3 85.7 122 16.0 8.7 89.2 123 7.6 10.5 15.9 8.3 85.7 122 15.6 6.5 86.9 123 7.6 1.5 16.0 8.3 85.2 122 15.7 8.5 86.9 123 7.6 1.5 16.0 8.3 85.7 122 15.7 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 12.0 15.0 8.3 85.7 122 15.0 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 12.0 15.0 8.3 85.7 122 12.0 12.0 12.0 12.0 12.0 12.0 12.0	Temp. (C) (mg/l) Saturation (uS/cm) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) 123 7.6 0.0 16.0 8.3 85.7 122 15.0 8.5 86.9 123 7.6 1.5 15.0 8.3 85.2 122 15.7 8.5 86.9 123 7.6 1.5 16.0 8.3 85.7 122 15.7 8.5 86.9 122 7.6 2.5 15.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.0 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.0 8.3 85.7 122 15.0 8.3 85.	DO D.O.% Cond. Do Temp. (C) (mg/l) Saturation (uS/cm) 123 7.6 0.5 15.9 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.8 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 12	Time: 1425 Time: 170% overcast Time: 170% ov	### Approximative for inc. 7.2C Time. 1425 Time. 1425	Time: 1425 Certain protest strings 7 3C Certain protest strings 7	25-Sep-43 25-Sep	25-Sep-03 25-S	25-Sep-03 25-Sep	### 25-\$ep-03 25-\$ep-03 25-\$ep-03 25-\$ep-03 25-\$ep-03	25-Sep-43 7.6 2.5 18.0 8.4 86.1 122 25-Sep-43	15.9 8.6 88.6 122 7.7 2.0 18.0 8.4 86.4 123 15.9 8.6 88.1 123 7.6 2.5 18.0 8.4 86.1 122 3.0 18.0 8.4 86.1 122 3.0 18.0 8.4 86.1 122 3.0 18.0 8.4 86.1 122 3.0 18.0 8.4 86.1 122 3.0 18.0 8.4 86.0 123 3.0 3.0 3.0 3.4 86.0 123 3.0 3.0 3.5 3.0 3.5 3.0	16.1 6.7 89.7 122 7.7 1.5 16.0 6.4 86.4 122 15.9 6.6 88.6 122 7.7 2.0 18.0 8.4 86.4 123 15.9 6.5 86.1 123 7.6 2.5 18.0 8.4 86.0 123 15.9 6.5 86.1 123 7.6 2.5 18.0 8.4 86.0 123 15.9 6.5 86.1 123 7.6 2.5 18.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.4 86.0 123 15.0 8.7 86.0 123 16.0 8.4 86.0 123 15.0 8.5 86.9 123 7.6 15.0 8.3 85.7 123 15.0 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 123 123 15.0 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 123 123 15.0 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 123 123 15.0 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 123 123 124 125 125 125 125 125 125 125 125 125 125	16.1 6.7 89.7 123 7.7 1.0 160 6.4 86.5 122 159 6.6 86.6 122 7.7 7 2.0 160 6.4 86.4 122 159 6.6 86.1 123 7.6 2.5 180 6.4 86.1 123 159 6.6 86.1 123 7.6 2.5 180 6.4 86.1 122 159 6.5 86.1 123 7.6 2.5 180 6.4 86.0 123 159 6.5 86.1 123 7.6 2.5 180 6.4 86.0 123 159 6.5 86.7 123 7.6 150 6.3 8.5 86.9 122 7.6 2.5 159 6.3 85.7 122 155 6.5 86.9 122 7.6 2.5 159 6.3 85.7 122 155 6.5 86.9 122 7.6 2.5 159 6.3 85.7 122 122 1.5 8.5 86.9 122 7.6 2.5 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 125 159 6.3 85.7 122 122 122 125 159 6.3 85.7 122 122 122 122 122 122 122 122 122 12	16.1 6.8 90.6 127 77 0.5 16.0 8.6 98.7 123 16.1 8.7 89.7 122 7.7 1.0 16.0 8.4 96.5 122 18.0 8.8 88.6 122 7.7 1.0 16.0 8.4 96.4 122 18.0 8.8 88.6 122 7.7 2.0 16.0 8.4 96.4 122 15.9 8.5 88.1 123 7.6 2.5 16.0 8.4 96.4 123 15.9 8.5 88.1 123 7.6 2.5 16.0 8.4 86.1 122 15.9 8.5 88.1 123 7.6 2.5 16.0 8.4 88.0 123 15.9 8.5 88.1 123 7.6 2.5 16.0 8.4 88.0 123 15.9 8.5 88.1 123 7.6 16.0 8.7 88.2 123 7.6 16.0 8.3 85.7 122 15.7 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 15.7 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 122 15.5 8.5 86.9 122 7.6 2.5 15.9 8.3 85.7 122 122 123 124 125 15.9 8.3 85.7 122 123 124 125 15.9 8.3 85.7 122 123 124 125 15.9 8.3 85.7 122 123 124 125 15.9 8.3 85.7 122 123 124 125 15.9 8.3 85.7 122 125 125 125 125 125 125 125 125 125	16.2 9.0 82.7 123 7.7 0.0 18.0 8.8 80.1 122 15.1 8.7 89.7 123 7.7 1.0 18.0 8.4 86.5 122 16.1 8.7 89.7 122 7.7 1.5 16.0 8.4 86.4 122 16.1 8.7 89.7 122 7.7 1.5 16.0 8.4 86.4 122 15.9 8.6 88.1 123 7.6 25 18.0 8.4 86.1 122 15.9 8.6 88.1 123 7.6 25 18.0 8.4 86.1 122 15.9 8.6 88.1 123 7.6 25 18.0 8.4 86.1 122 15.9 8.6 88.1 123 7.6 25 18.0 8.4 86.1 122 15.9 8.6 88.1 123 7.6 18.0 8.4 86.1 122 15.9 8.6 88.1 123 7.6 18.0 8.4 86.1 122 15.9 8.6 90.3 123 7.6 18.0 8.7 89.2 123 7.6 18.0 8.3 85.7 122 15.5 8.5 86.9 122 7.5 2.5 15.9 8.3 85.7 122 15.5 8.5 86.9 122 7.5 2.5 15.9 8.3 85.7 122 122 15.5 8.5 86.9 122 7.5 2.5 15.9 8.3 85.7 122 122 122 125 15.9 8.3 85.7 122 122 125 15.9 8.3 85.7 122 122 125 15.9 8.3 85.7 122 122 125 15.9 8.3 85.7 122 122 122 125 15.9 8.3 85.7 122 122 122 122 122 122 122 122 122 12	Temp. (C) (mg/l) Saturation (uSkm) PH(S.U) Depth (m) Temp. (C) (mg/l) Saturation (uSkm)	Temp. (C) (mg/l) Saturation (uS/cm) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) (uS/cm) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) (uS/cm	D.O. D.O. % Cond. Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) pH (S.U.) Depth (m) Temp. (C) (mg/l) Saturation (uS/cm) 180 6.8 90.1 122 7.7 1.5 180 8.4 86.4 122 16.1 8.7 89.7 122 7.7 1.5 180 8.4 86.4 122 15.9 8.6 88.6 122 7.7 2.5 180 8.4 86.4 123 15.9 8.6 88.1 123 7.6 2.5 180 8.4 86.4 123 15.9 8.5 88.1 17.3 7.6 180 8.4 86.1 122 3.0 180 8.4 86.1 122 3.0 180 8.4 86.1 122 3.0 180 8.4 86.1 123 15.9 8.5 88.1 123 7.6 180 8.4 88.0 123 15.9 8.5 88.1 123 7.6 180 8.4 88.0 123 15.9 8.5 88.1 123 15.9 8.5 88.1 123 7.6 180 8.4 88.0 123 15.9 8.5 88.5 123 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 15.9 8.3 85.7 122 122 15.9 8.3 85.7 122 122 15.9 8.3 85.7 122 122 15.9 8.3 85.7 122 122 15.9 8.3 85.7 122 122 122 122 122 122 122 122 123 122 123	### profile (Sken new Profile	Abprovise (aken near Time: 1414 Taberical Station T (1) DO. D.O. % Cond. 16.2 9.0 92.7 123 7.7 0.0 180 8.8 90.6 122 7.7 1.5 180 8.4 96.4 122 15.9 8.5 86.1 123 7.6 22 7.7 1.5 180 8.4 96.4 123 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 122 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 122 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 122 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 122 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 122 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 122 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 123 15.9 8.5 86.1 123 7.6 25 180 8.4 86.1 123 15.9 8.5 86.1 123 7.6 180 8.4 86.1 123 15.9 8.5 86.9 123 7.6 180 8.4 86.1 123 15.9 8.5 86.9 123 7.6 180 8.4 86.1 123 15.5 86.9 123 7.6 180 8.4 86.1 123 15.5 86.9 123 7.6 180 8.3 85.7 123 15.5 86.9 123 7.6 180 8.3 85.7 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 15.5 86.9 122 7.6 25 15.9 8.3 85.7 123 123 123 123 123 123 123 123 123 123	Approximate six temp; 7.2C Time: 1414 Approximate six temp; 7.2C Time: 1414 Pairme station D.O. D.O.%, Cond. 16.2 9.0 92.7 123 7.7 0.5 16.0 8.4 86.4 122 16.1 8.7 89.7 122 7.7 1.5 16.0 8.6 86.1 122 7.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.6 86.1 122 17.7 1.5 16.0 8.4 86.4 122 18.5 18.5 8.5 122 17.7 1.5 16.0 8.4 86.4 122 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5

paevy telirace 2003 Peavy oct 02 03

1/13/2004

Approximate air temp 4.4C Vertical profile taken near Talirace Station D.O. D.O. 11.8 9.9 1.0 11.8 9.9 1.0 11.8 9.8 1.5 11.8 9.8 1.5 11.8 9.8 1.5 11.8 9.8 1.5 11.8 9.8 1.5 11.7 9.8 3.0 11.7 9.8	(300) (300)	l 1 8	Time Clear	7ime: 1040 Clear sunny	Approve	Approximate ar temp 7.2 C	972C		7.5	Time: 1100
Trical profile (aken Taitrace Station D D D D D D D D D	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	0.0.% Saturation 93.1 93.0 92.5	7kme Chasi	7. 1040	Vertical				Time.	0011
		D.O. % Saturation 83.1 83.0 82.5 92.5	Co	County.	Verticol					
	약 위	83.1 82.1 83.0 82.5 82.5				Vertical profile taken in the	n in the		3	Clear sunny
ପ	0.0000000000000000000000000000000000000	0.0.% Saturation 83.1 83.0 82.5 82.1			8	center of river near Station T-1	ear Station	17.1		
		Saturation 83.1 83.0 82.5 82.1	Cond		<u> </u>		0.0	D.O. 🛠	See	
		93.1 92.5 92.5	(mS/cm)	PH (S.U.)	pH (S.U.) Depth (m) Temp. (C)	Temp. (C)	(mod)	Saturation (uS/cm)	(mg/cm)	pH (S.U.)
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	92.5 92.5 92.1	123	7.7	0.0	11.3	8.8	91.8	123	7.8
	0 0 0 0 0 0 0 0 0 0 0 0	92.5 92.1	<u> </u>	7.7	9.5	11.2	80.00	80.6	ភ	7.6
	0 0 0 0 0 0 0 0 0 0	92.1	<u> </u>	7.7	0,1	11.2	6	200	123	7.6
	6 6 6 6 6 6 6 6		2	7.7	1.5	11.2	6	89.2	122	7.6
	0 0 0 0 0 0	7.16	123	7.7	2.0	11.2	9.0	88.6	22	7.6
	0.0 0.0	91.5	122	7.7	2.5	1.1	3	86.7	122	9.2
	6	91.2	ន	7.7	3.0					
		4.00	27	7.7						
	20	2 Oct 03					K	2-Oct-03		
Approximate or temp 4 4C	1				Approxi	Approximate air temp 7.2 C	1072C			
	•		Time	TIME: 1050			!		78.	Tine: 1110
Vertical profile taken in	5		3	Clear sunny	Vertical	Vertical profile taken in the	n in the		3	Clear sunny
Tainter channel					uao	center of ther near station 7-2	eer station	n T-2		
٥	0.0	0.0	S				0.0	0.0	Con	
Depth (m) Temp. (C) (n	(Mg/l)	Seturation	(mS/cm)	pH (S.U.)	Depth (m) Temp. (C)		(mg/l)	Seturation	3	pH (S.U.)
0.0 12.0	8.6	91.6	123	7.8	0.0	11.8	9.6	1.00	123	7.6
11.0	9 .6	61.5	2	7.6	0.5	11.8	9.5	98	<u> </u>	7.7
1.5	2.0	8	ន	7.7	0.1	11.6	4	0.88	22	7.0
	2.6	80.6	2	7.7	1.5	11.6	7.0	67.5	<u>z</u>	7.6
	9.6	98.0	<u> 23</u>	7.8	2.0	11.6	7.6	87.5	52	7.6
2.5 10.6	9) (8	87.1	123	7.7	2.5	11.6	7	87.3	123	7.6
3.0 10.5	6.7	87.8	122	7.6	30	11.6	4.0	87.3	<u> </u>	7.0
	6.7	87.9	123	7.8	3.5	11.5	8	2.98	123	7.6
					60	11.6	69	86.2	123	7.6