



825 NE Multnomah, Suite 1500
Portland, Oregon 97232
FEDERAL ENERGY
REGULATORY COMMISSION

April 4, 2007

APR 6 2007

PORTLAND
REGIONAL OFFICE

Patrick Regan, P.E., Regional Director
Federal Energy Regulatory Commission
101 SW Main, Suite 905
Portland, Oregon 97204

**Subject: Ashton-St. Anthony Hydroelectric Project, FERC No. P-2381
Annual Instrumentation Monitoring Report for Ashton Dam**

Dear Mr. Regan:

Attached is the annual monitoring report for the Ashton Dam, located on the Henry's Fork of the Snake River in Idaho. This report includes open stand pipe piezometer levels, tailrace and reservoir water surface elevations for the years 1996 through 2006, and results from the monument instrumentation surveys.

The evaluation of the project inspections and monitoring data conducted by our Operations and Engineering staff during 2006 did not identify any significant changes to the condition of the dam during 2006. While the vertical movement data indicates the settlement of the concrete cap has not progressed since the reduction of the normal operating elevation of Ashton reservoir was implemented in December of 2004, monuments DCM3R and DCM4R located in the embankment fill material, beneath the concrete crest slab, continue to indicate a steady rate of settlement. There continues to be no indication of any significant horizontal movement in the upstream, downstream or lateral directions over the 1996 to 2006 period, and the open standpipe piezometer data indicates the water elevation within the embankment remained relatively constant.

While outside the reporting period for this data submittal, the appearance of a second sink hole was reported on March 18, 2007. Notification of this event was reported immediately to your office in accordance with our Sinkhole and Piping Emergency Response Plan established in 2005. An incident report for this sink hole event will be provided to your office by April 17, 2007.

In September 2006, PacifiCorp received notification that Jerry Simmons, Inc., the surveyor who has performed PacifiCorp's annual monitoring survey work for a number of years, would no longer be doing business. Efforts were initiated immediately to locate and contract with another surveyor to continue with the monthly surveys for Ashton dam. This effort resulted in no survey work being conducted during the months of October through December 2006. A new contract was arranged with Forsgren Associates from Rexburg, ID, and the regular monthly schedule resumed in January 2007. A telephone conference was held with Forsgren Associates and Jerry Simmons, Inc. to discuss the Ashton work and the results of the January 2007 survey conducted

Patrick Regan, P.E., Regional Director

April 4, 2007

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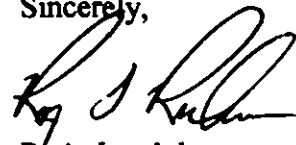
by Forsgren Associates. A review of the survey data for January, February and March 2007 indicated the data are consistent with the previous survey results, and the monthly schedule will continue.

Following the directives in your May 30, 2006 instrumentation inspection and July 10, 2006 review letter, the following enhancements have been incorporated into PacifiCorp's Dam Safety Performance Monitoring Program at Ashton Dam:

- All the monitoring points, piezometers, settlement and movement points have been clearly labeled in the field;
- The four existing piezometers are now referred to as "open standpipe piezometers" to avoid confusion with isolated tip piezometers that may be installed in the future;
- To avoid possible damage during the upcoming construction activity, monitoring points on the dam have been clearly marked and protected;
- Four new monitoring points CM1 – CM4 have been established to measure differential settlement of the right abutment of the embankment. Readings are recorded semi-annually;
- The full report from the surveyor is included in this report;
- The horizontal movement data is now presented in a time line graph showing upstream and downstream movement.

The original and two copies of this letter with three copies of each attachment are enclosed, and are considered public information. If you have any questions or need further information, please contact Brian Kirschenman at 503-813-6670 or Frank Edelman at 801-220-2566.

Sincerely,



R. A. Landolt

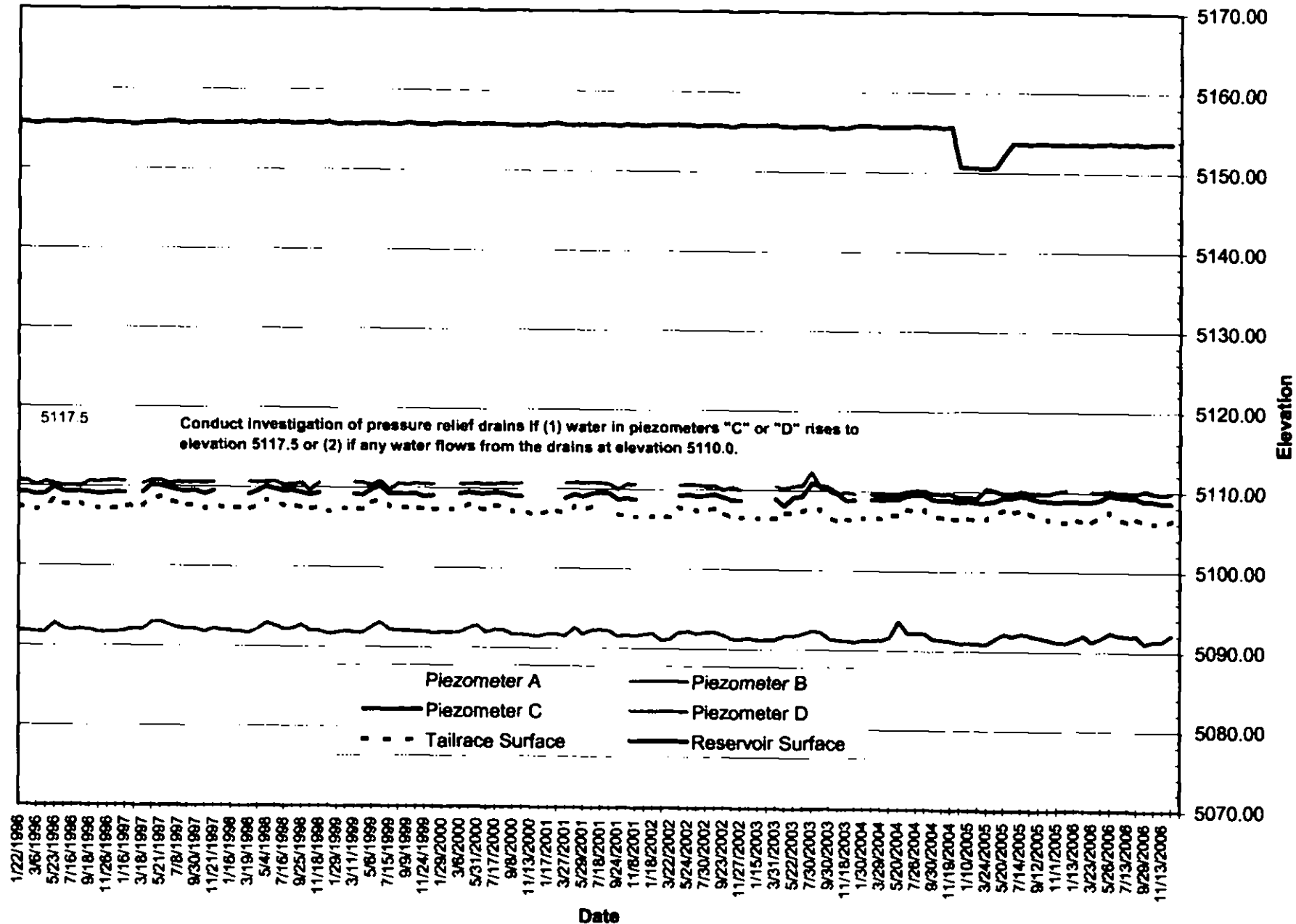
Managing Director, Hydro Resources

RAL: RR: dldt

Encl: Letter - Public
2006 Dam Site Surveys Report - Public
Piezometer & Reservoir Elevation Plot and Spreadsheet - Public
Crack Monitoring - Public
Dam Plan View Drawing - Public

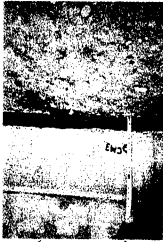
cc: Ryan Madsen, Dam Safety Engineer
Idaho Department of Water Resources
900 N. Skyline Dr., Ste. A
Idaho Falls, ID 83402

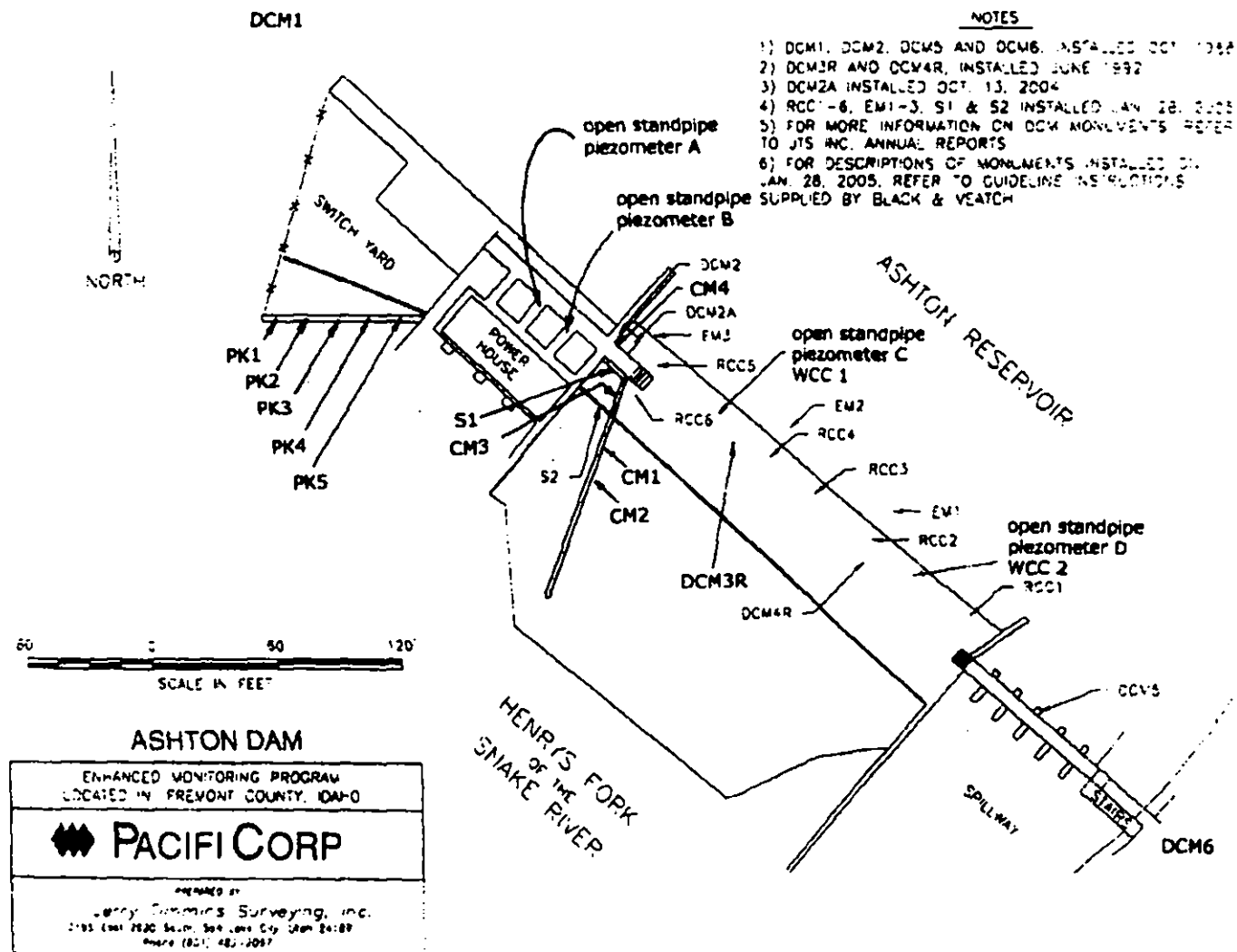
ASHTON HYDROELECTRIC PROJECT - FERC NO. 2381 ASHTON DAM PIEZOMETER AND RESERVOIR READINGS 1/22/96 TO 12/22/06



ASHTON CRACK MONITORING:

Per FERC letter dated July 10, 2006, PacifiCorp is to monitor four points that were identified at the right end of the RCC embankment section of Ashton Dam during the May 30th, 2006 instrumentation inspection. Readings should be taken in the spring and again in the fall and included in the annual instrumentation report. After completing each set of readings, Email results to Brian.Kirschenman@PacifiCorp.com.

DATE	10/11/06						
CM-1 (inches)	At RCC step 2 --- Mea. center of nail to step surface				6 7/8"		
CM-2 (inches)	At RCC step 4 --- Mea. center of nail to step surface				7"		
CM-3 (inches)	Between powerhouse and training wall --- Mea. center of nail to step surface				6 15/16"		
CM-4 (inches)	Near sink hole at dam crest --- Mea. across crack				1 9/16"		
TEMPERATURE. (degrees F)					51		
RESERVOIR ELEVATION (ft)					5153.77		
MEASURED BY					BD		



Ashton Dam - Open Standpipe Piezometer Observation Data

Recorder	Date	Time	Air Temp (F°)	Reservoir Elevation	River Elevation	Station C Open Standpipe Piezometer - West		Station D Open Standpipe Piezometer - East	
						Top of Pipe 5156.49*		Top of Pipe 5156.38*	
						Depth to water surface	Water surface elevation	Depth to water surface	Water surface elevation
Brad Dexter	3/10/06	8:15 AM	10	5153.64	5106.55	47.71	5108.67	Froze up	
Ron Dixon	3/16/06	9:40 AM	34	5153.78	5106.52	47.81	5108.57	Froze up	
Brad Dexter	3/23/06	9:45 AM	36	5153.67	5106.41	47.72	5108.66	46.50	5109.99
Ron Dixon	3/27/06	1:15 PM	42	5153.68	5106.51	47.67	5108.71	46.58	5109.91
Brad Dexter	4/7/06	10:40 AM	45	5153.70	5107.04	47.51	5108.87	46.56	5109.93
Ron Dixon	4/12/06	8:40 AM	40	5153.64	5106.99	47.46	5108.92	46.54	5109.95
Brad Dexter	4/21/06	10:15 AM	53	5153.72	5107.27	47.18	5109.20	46.48	5110.01
Ron Dixon	4/26/06	8:30 AM	46	5153.70	5107.51	47.04	5109.34	46.44	5110.05
Brad Dexter	5/5/06	9:40 AM	55	5153.76	5107.97	46.67	5109.71	46.42	5110.07
Ron Dixon	5/10/06	9:10 AM	49	5153.77	5107.96	46.69	5109.69	46.38	5110.11
Brad Dexter	5/16/06	8:10 AM	57	5153.76	5107.77	46.64	5109.74	46.32	5110.17
Ron Dixon	5/23/06	8:25 AM	50	5153.71	5107.63	46.69	5109.69	46.35	5110.14
Ron Dixon	6/9/06	8:00 AM	65	5153.81	5107.28	47.02	5109.36	46.56	5109.93
Brad Dexter	6/16/06	7:45 AM	51	5153.64	5107.76	47.15	5109.23	46.65	5109.84
Ron Dixon	6/21/06	1:30 PM	70	5153.37	5106.39	47.29	5109.09	46.71	5109.78
Ron Dixon	7/5/06	12:30 PM	70	5153.64	5107.03	47.27	5109.11	46.60	5109.89
Brad Dexter	7/13/06	8:20 AM	65	5153.73	5106.32	47.26	5109.12	46.69	5109.80
Ron Dixon	7/18/06	8:35 AM	72	5153.68	5106.76	47.27	5109.11	46.65	5109.84
Brad Dexter	8/23/06	10:40 AM	80	5153.80	5106.82	47.24	5109.14	46.68	5109.81
Brad Dexter	9/29/06	10:15 AM	56	5153.62	5106.33	47.71	5108.67	46.35	5110.14
Brad Dexter	10/30/06	9:10 AM	35	5153.75	5106.20	47.70	5108.68	46.72	5109.77
Brad Dexter	11/13/06	9:30 AM	32	5153.75	5106.19	47.68	5108.70	46.71	5109.78
Brad Dexter	12/22/06	2:20 PM	31	5153.73	5106.54	47.70	5108.68	46.56	5109.93

Ashton Dam - Open Standpipe Piezometer Observation Data

Recorder	Date	Time	Air Temp (F°)	Reservoir Elevation	River Elevation	Station C Open Standpipe Piezometer - West		Station D Open Standpipe Piezometer - East	
						Top of Pipe 5156.49*		Top of Pipe 5156.38*	
						Depth to water surface	Water surface elevation	Depth to water surface	Water surface elevation
Brad Dexter	11/4/05	8:15 AM	36	5153.74	5106.48	47.79	5108.59	46.49	5110.00
Brad Dexter	11/5/05	8:15 AM	33	5153.70	5106.41	47.77	5108.61	46.56	5109.93
Brad Dexter	11/6/05	8:40 AM	40	5153.61	5106.31	47.79	5108.59	46.51	5109.98
Ron Dixon	11/7/05	2:15 AM	52	5153.84	5106.40	47.77	5108.61	46.38	5110.11
Ron Dixon	11/8/05	1:15 AM	34	5153.78	5106.53	47.75	5108.63	46.42	5110.07
Ron Dixon	11/9/05	8:40 AM	26	5153.61	5106.55	47.77	5108.61	46.50	5109.99
Ron Dixon	11/10/05	7:50 AM	34	5153.77	5106.44	47.79	5108.59	46.46	5110.03
Brad Dexter	11/11/05	8:00 AM	38	5153.70	5106.30	47.82	5108.56	46.43	5110.06
Brad Dexter	11/12/05	8:30 AM	35	5153.61	5106.36	47.76	5108.62	46.50	5109.99
Brad Dexter	11/13/05	8:15 AM	30	5153.78	5106.41	47.79	5108.59	46.50	5109.99
Brad Dexter	11/14/05	8:30 AM	33	5153.82	5106.43	47.78	5108.60	46.66	5109.83
Brad Dexter	11/15/05	8:40 AM	10	5153.69	5106.57	47.77	5108.61	46.80	5109.89
Brad Dexter	11/16/05	9:10 AM	32	5153.63	5106.50	47.73	5108.65	46.56	5109.93
Brad Dexter	11/17/05	9:30 AM	31	5153.64	5106.57	47.74	5108.64	46.53	5109.96
Brad Dexter	11/18/05	8:30 AM	19	5153.80	5106.40	47.75	5108.63	46.51	5109.98
Ron Dixon	11/19/05	8:45 AM	20	5153.73	5106.56	47.71	5108.67	46.42	5110.07
Ron Dixon	11/20/05	8:15 AM	20	5153.65	5106.36	47.75	5108.63	46.46	5110.03
Ron Dixon	11/21/05	12:15 PM	45	5153.79	5106.50	47.71	5108.67	46.46	5110.03
Brad Dexter	12/1/05	12:45 PM	25	5153.60	5106.32	47.75	5108.63	46.38	5110.11
Ron Dixon	12/5/05	12:06 PM	19	5153.63	5106.54	47.71	5108.67	46.60	5109.89
Brad Dexter	12/13/05	11:25 AM	14	5153.60	5106.45	47.77	5108.61	46.63	5109.86
Ron Dixon	12/19/05	10:23 AM	28	5153.89	5106.61	47.71	5108.67	46.50	5109.99
Brad Dexter	12/27/05	10:50 AM	35	5153.81	5106.56	47.73	5108.65	46.50	5109.99
Ron Dixon	1/3/06	1:25 PM	35	5153.63	5106.64	47.69	5108.69	Froze up	
Brad Dexter	1/13/06	8:30 AM	27	5153.51	5106.27	47.76	5108.62	Froze up	
Ron Dixon	1/19/06	12:30 PM	21	5153.61	5106.32	47.69	5108.69	Froze up	
Brad Dexter	1/24/06	10:00 AM	15	5153.77	5106.49	47.72	5108.66	Froze up	
Ron Dixon	1/31/06	8:30 AM	28	5153.71	5106.36	47.71	5108.67	Froze up	
Brad Dexter	2/16/06	2:16 PM	20	5153.73	5106.20	47.77	5108.61	Froze up	
Brad Dexter	2/24/06	2:45 PM	37	5153.70	5106.51	47.71	5108.67	Froze up	
Ron Dixon	2/27/06	1:50 PM	50	5153.72	5106.56	47.75	5108.63	Froze up	

Jerry Timmins Surveying, inc.

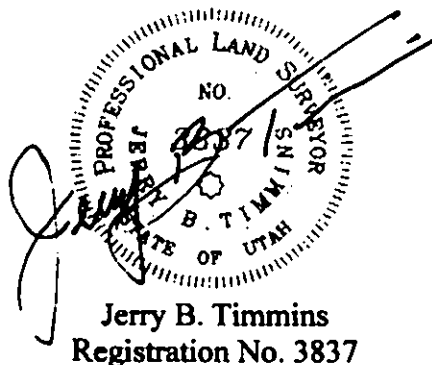
3195 East 2920 South, Salt Lake City, Utah 84109

Phone (801) 483-2057 Fax (801) 483-0689

SURVEYOR'S CERTIFICATE

I, Jerry B. Timmins, do hereby certify that I am a registered land surveyor, holding Utah license number 3837, and that on 11 Sept., 2006, I personally conducted a survey at the Ashton Dam.

I further certify that the result of this survey is correctly represented in this report.



SCOPE AND GENERAL COMMENTS

The project consisted of surveying existing dam control monuments at the Ashton Dam, Cutler Dam, Grace Dam, Oneida concrete Dam and earthen embankment Dam, Soda Dam and Viva Naughton Dam. At least two monuments at each dam site have been assigned as fixed and are shown as "BENCH MARKS". The field measurements have been computed and compared to a base measurement made in 1988. The values are reported in appropriate NAD 1927 State Plane Coordinates with elevations based on NGVD '29 datum. The 1988 report showed a grid bearing between the fixed monuments and the values for the monument reported as "Bench Mark" was used as a basis for the comparison. This report includes a copy of a spreadsheet computation that shows 1988 base values, the other measured values calculated, and a comparison noting any bearing changes, distances from the Bench Mark Monument, differences noting left or right, and differences in elevations. Please note that the left or right data shown on the spreadsheet is in reference to the base year difference and not the benchmark base line. A graphic representation for each monument, except for Bench Marks, has also been prepared. It shows the monument's position on the dam with inset bar graphs noting vertical and horizontal movement.

INSTRUMENTATION

The instruments used for our 2006 surveys include:

- 1 pair of Trimble 4700 GPS receivers
- 1 Sokkia/Lietz Set 2B total station
- 1 Zeiss DINI 21 automatic level

FIELD & OFFICE PROCEDURES

As stated in the original request for proposal, field procedures have been designed to attain a tolerance of 0.04' or a ratio of 1:50,000, whichever is greater. Using our total station, we created autonomous temporary points near the center of the dam. Horizontal, vertical, and distance measurements were then made to each of the monuments from the autonomous points. In the office, the unadjusted measurements were moved to the DCM 1 benchmark coordinate, scaled to the state plane grid, and rotated to the fixed benchmark bearing. The Right Wing Wall was surveyed by occupying the "West Rivet", sighting the "East Rivet", and making direct observations to each pk nail.

ASHTON DAM

This dam is located on the Henry's Fork of the Snake River in Fremont County, Idaho. To reach the dam, drive about 3 miles west of Ashton, Idaho along a county road until you cross the Snake River. Turn northerly along a dirt road that follows the westerly side of the river and proceed about 1 mile to the dam site. There is another road that follows along the easterly side of the river that goes into the dam site office and building area. This road is also accessed from the county road by turning northerly just prior to going down the grade to cross the river.

All of the monuments used last year were recovered and appeared to be in good condition. In January of 1995, additional monuments were constructed on the concrete and embankment portions of the dam. Elevation surveys have been conducted to the new and existing monuments throughout the year.

VECTOR & DISTANCE COMPUTATIONS

UTAH POWER & LIGHT CO.

2006 MONUMENT STUDY

ASHTON DAM

Job# 0607

STATION	DATE OF SURVEY	IDAHO STATE PLANE COORDINATES 1927 EAST ZONE			GRID BEARING: BENCH MARK TO STATION			CAF: 0.999731826 GRID DISTANCE: BENCH MARK TO STATION			LT OR RT	DIFF ELEV
		"X" EAST	"Y" NORTH	ELEV.	N S	o	'	"	E W			
DCM 1	OCT.31,1988 FIXED ALL SURVEYS	675,938.32	879,979.93	5186.52	S	48	15	19	E	BENCH MARK FIXED AZIMUTH		
DCM 2	OCT.31,1988	676,163.14	879,779.31	5161.99	S	48	15	19	E	301.32		
					DCM 1 TO DCM 2							
	SEP.22,1987	676,163.13	879,779.32	5162.00	S	48	15	19	E	301.30	0.00	0.01
	OCT.20,1989	676,163.12	879,779.33	5161.99	S	48	15	19	E	301.28	0.00	0.00
	SEP.28,1990	676,163.12	879,779.31	5161.99	S	48	15	15	E	301.30	RT 0.01	0.00
	AUG.25,1991	676,163.13	879,779.30	5162.00	S	48	15	12	E	301.31	RT 0.01	0.01
	JUN.11,1992	676,163.12	879,779.32	5161.99	S	48	15	15	E	301.29	RT 0.01	0.00
	SEP.16,1993	676,163.13	879,779.32	5161.99	S	48	15	19	E	301.30	0.00	0.00
	OCT.06,1994	676,163.14	879,779.31	5161.99	S	48	15	19	E	301.31	0.00	0.00
	OCT.11,1995	676,163.13	879,779.33	5162.01	S	48	15	26	E	301.29	LT 0.01	0.02
	OCT.04,1996	676,163.13	879,779.32	5162.00	S	48	15	19	E	301.30	0.00	0.01
	OCT.02,1997	676,163.13	879,779.33	5161.99	S	48	15	25	E	301.29	LT 0.01	0.00
	OCT.15,1998	676,163.13	879,779.33	5161.99	S	48	15	25	E	301.29	LT 0.01	0.00
	NOV.30,1999	676,163.13	879,779.33	5161.99	S	48	15	23	E	301.29	LT 0.01	0.00
	SEP. 06,2000	676,163.13	879,779.32	5161.99	S	48	15	20	E	301.30	0.00	0.00
	SEP. 10,2001	676,163.13	879,779.35	5161.99	S	48	15	35	E	301.28	LT 0.02	0.00
	SEP. 25,2002	676,163.12	879,779.33	5162.01	S	48	15	20	E	301.28	0.00	0.02
	SEP. 10,2003	676,163.12	879,779.33	5162.00	S	48	15	20	E	301.28	0.00	0.01
	OCT. 13,2004	676,163.11	879,779.35	5161.99	S	48	15	26	E	301.26	LT 0.01	0.00
	AUG.31,2005	676,163.11	879,779.34	5161.99	S	48	15	21	E	301.27	0.00	0.00
	SEP.11,2006	676,163.11	879,779.36	5161.99	S	48	15	29	E	301.26	LT 0.01	0.00
DCM 2A	OCT. 13,2004	676,170.82	879,774.67	5161.90	S	48	33	38	E	310.14		
					DCM 1 TO DCM 2A							
	AUG.31,2005	676,170.84	879,774.67	5161.88	S	48	33	46	E	310.15	LT 0.01	-0.02
	SEP.11,2006	676,170.84	879,774.69	5161.88	S	48	33	57	E	310.14	LT 0.03	-0.02
DCM 3R	JUN.11,1992	676,219.13	879,729.35	5156.57	S	48	15	21	E	376.35		
					DCM 1 TO DCM 3R							
	SEP.16,1993	676,219.13	879,729.35	5156.55	S	48	15	19	E	376.35	0.00	-0.02
	OCT.06,1994	676,219.13	879,729.34	5156.53	S	48	15	18	E	376.36	RT 0.01	-0.04
	OCT.11,1995	676,219.13	879,729.36	5156.54	S	48	15	26	E	376.35	LT 0.01	-0.03
	OCT.04,1996	676,219.14	879,729.35	5156.52	S	48	15	24	E	376.36	LT 0.01	-0.05
	OCT.02,1997	676,219.15	879,729.35	5156.50	S	48	15	28	E	376.37	LT 0.01	-0.07
	OCT.15,1998	676,219.15	879,729.36	5156.48	S	48	15	30	E	376.36	LT 0.02	-0.09
	NOV.30,1999	676,219.14	879,729.36	5156.47	S	48	15	29	E	376.36	LT 0.01	-0.10
	SEP. 06,2000	676,219.15	879,729.36	5156.47	S	48	15	31	E	376.36	LT 0.02	-0.10
	SEP. 10,2001	676,219.16	879,729.36	5156.45	S	48	15	44	E	376.35	LT 0.04	-0.12
	SEP. 25,2002	676,219.14	879,729.35	5156.44	S	48	15	24	E	376.36	LT 0.01	-0.13
	SEP. 10,2003	676,219.15	879,729.36	5156.42	S	48	15	32	E	376.36	LT 0.02	-0.15
	OCT. 13,2004	676,219.16	879,729.37	5156.38	S	48	15	40	E	376.36	LT 0.03	-0.19
	AUG.31,2005	676,219.17	879,729.37	5156.37	S	48	15	44	E	376.37	LT 0.04	-0.20
	SEP.11,2006	676,219.16	879,729.38	5156.36	S	48	15	46	E	376.36	LT 0.05	-0.21

VECTOR & DISTANCE COMPUTATIONS

UTAH POWER & LIGHT CO.

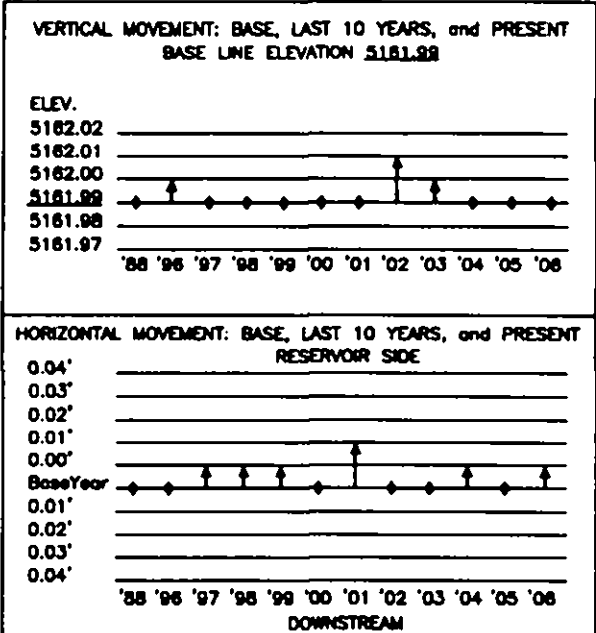
2006 MONUMENT STUDY

ASHTON DAM

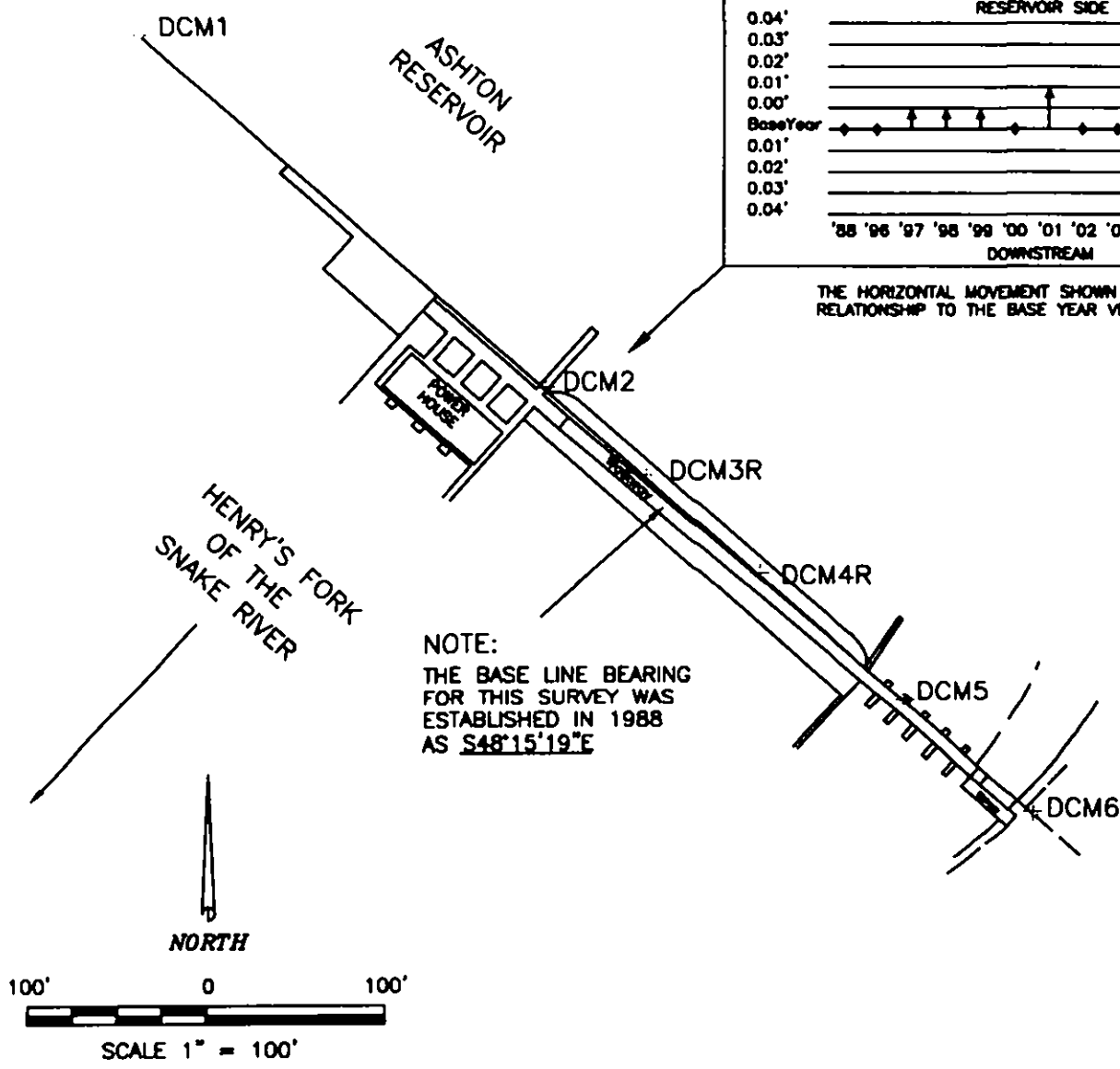
Job# 0607

STATION	DATE OF SURVEY	IDAHO STATE PLANE COORDINATES 1927 EAST ZONE			GRID BEARING: BENCH MARK TO STATION			CAF: 0.999731828 GRID DISTANCE: BENCH MARK TO STATION			LT OR RT	DIFF ELEV
		"X" EAST	"Y" NORTH	ELEV.	N S	o	'	"	E W			
DCM 1	OCT.31,1988	875,938.32	879,979.93	5186.52								
	FIXED				S	48	15	19	E			
	ALL SURVEYS									BENCH MARK FIXED AZIMUTH		
DCM 4R	JUN.11,1992	878,281.55	879,873.85	5158.57	S	48	15	21	E	480.01		
										DCM 1 TO DCM 4R		
	SEP.16,1993	878,281.54	879,873.85	5158.55	S	48	15	19	E	480.01	0.00	-0.02
	OCT.06,1994	878,281.55	879,873.84	5158.54	S	48	15	18	E	480.02	RT 0.01	-0.03
	OCT.11,1995	878,281.54	879,873.87	5158.55	S	48	15	24	E	459.99	LT 0.01	-0.02
	OCT.04,1996	878,281.55	879,873.85	5158.53	S	48	15	23	E	480.01	0.00	-0.04
	OCT.02,1997	878,281.57	879,873.85	5158.52	S	48	15	27	E	480.03	LT 0.01	-0.05
	OCT.15,1998	878,281.58	879,873.85	5158.51	S	48	15	25	E	480.02	LT 0.01	-0.08
	NOV.30,1999	878,281.57	879,873.85	5158.51	S	48	15	27	E	480.03	LT 0.01	-0.08
	SEP. 08,2000	878,281.58	879,873.87	5158.51	S	48	15	29	E	480.00	LT 0.02	-0.08
	SEP. 10,2001	878,281.58	879,873.87	5158.50	S	48	15	38	E	480.02	LT 0.03	-0.07
	SEP. 25,2002	878,281.55	879,873.84	5158.50	S	48	15	18	E	480.02	RT 0.01	-0.07
	SEP. 10,2003	878,281.58	879,873.84	5158.50	S	48	15	27	E	480.04	LT 0.01	-0.07
	OCT. 13,2004	878,281.58	879,873.88	5158.48	S	48	15	27	E	480.01	LT 0.01	-0.11
	AUG.31,2005	878,281.59	879,873.88	5158.45	S	48	15	38	E	480.03	LT 0.03	-0.12
	SEP.11,2006	878,281.58	879,873.88	5158.44	S	48	15	30	E	480.03	LT 0.02	-0.13
DCM 5	OCT.31,1988	878,382.24	879,801.87	5181.80	S	48	15	27	E	588.14		
										DCM 1 TO DCM 5		
	SEP.22,1987	878,382.22	879,801.88	5181.85	S	48	15	19	E	588.13	RT 0.02	0.05
	OCT.20,1989	878,382.25	879,801.85	5181.81	S	48	15	23	E	588.18	RT 0.01	0.01
	SEP.28,1990	878,382.23	879,801.85	5181.80	S	48	15	19	E	588.15	RT 0.02	0.00
	AUG.25,1991	878,382.26	879,801.83	5181.81	S	48	15	23	E	588.18	RT 0.01	0.01
	JUN.11,1992	878,382.22	879,801.85	5181.80	S	48	15	17	E	588.14	RT 0.03	0.00
	SEP.16,1993	878,382.22	879,801.85	5181.81	S	48	15	17	E	588.14	RT 0.03	0.01
	OCT.08,1994	878,382.22	879,801.85	5181.81	S	48	15	17	E	588.14	RT 0.03	0.01
	OCT.11,1995	878,382.21	879,801.87	5181.83	S	48	15	19	E	588.12	RT 0.02	0.03
	OCT.04,1996	878,382.24	879,801.85	5181.81	S	48	15	21	E	588.15	RT 0.02	0.01
	OCT.02,1997	878,382.25	879,801.85	5181.80	S	48	15	24	E	588.16	RT 0.01	0.00
	OCT.15,1998	878,382.24	879,801.88	5181.80	S	48	15	24	E	588.15	RT 0.01	0.00
	NOV.30,1999	878,382.25	879,801.88	5181.81	S	48	15	28	E	588.15	0.00	0.01
	SEP. 08,2000	878,382.25	879,801.85	5181.81	S	48	15	23	E	588.16	RT 0.01	0.01
	SEP. 10,2001	878,382.25	879,801.87	5181.81	S	48	15	29	E	588.14	0.00	0.01
	SEP. 25,2002	878,382.23	879,801.84	5181.83	S	48	15	17	E	588.15	RT 0.03	0.03
	SEP. 10,2003	878,382.24	879,801.84	5181.83	S	48	15	19	E	588.16	RT 0.02	0.03
	OCT. 13,2004	878,382.24	879,801.88	5181.81	S	48	15	25	E	588.15	RT 0.01	0.01
	AUG.31,2005	878,382.25	879,801.84	5181.80	S	48	15	22	E	588.17	RT 0.02	0.00
	SEP.11,2006	878,382.24	879,801.85	5181.80	S	48	15	21	E	588.16	RT 0.02	0.00

DCM 2

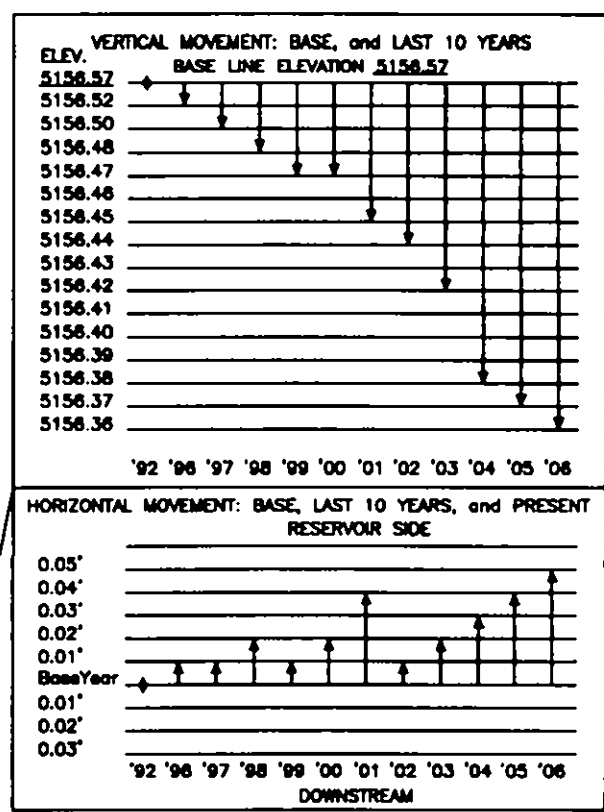


THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR

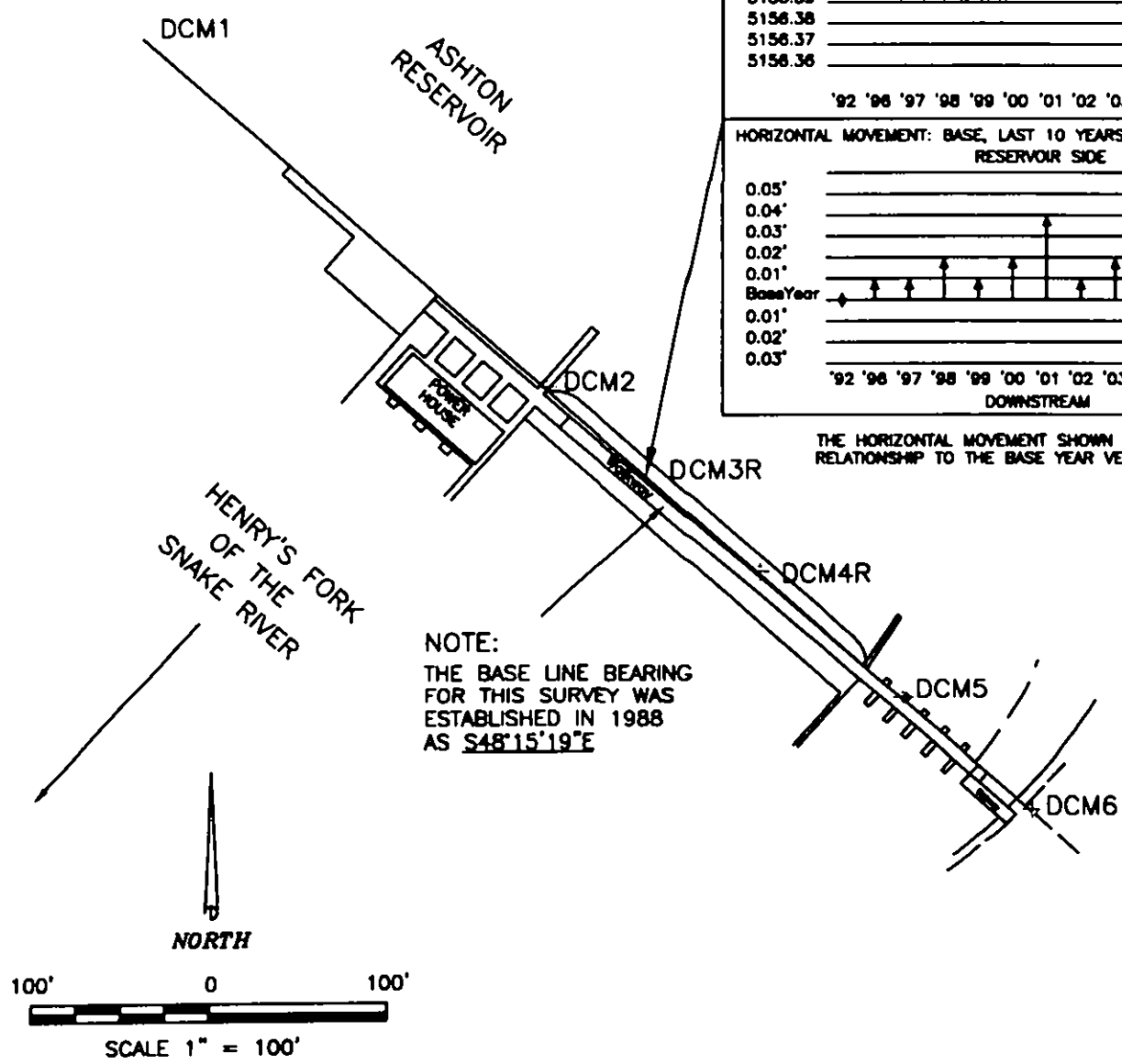


DAM CONTROL MONUMENT MONITORING FOR  ROCKY MOUNTAIN POWER	ASHTON DAM LOCATED ON THE HENRY'S FORK OF THE SNAKE RIVER IN FREMONT COUNTY IDAHO	PREPARED BY: <i>Jerry Timmins Surveying, inc.</i> <i>Mapping-Surveying-GIS</i> 3185 East 2920 South Salt Lake City, Utah 84108
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DCM 3R ESTABLISHED IN 1992

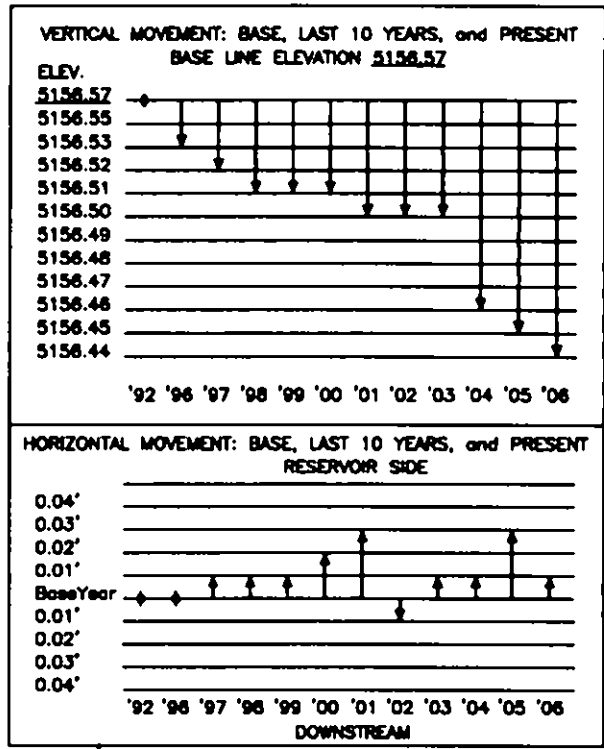


THE HORIZONTAL MOVEMENT SHOWN IS IN RELATIONSHIP TO THE BASE YEAR VECTOR

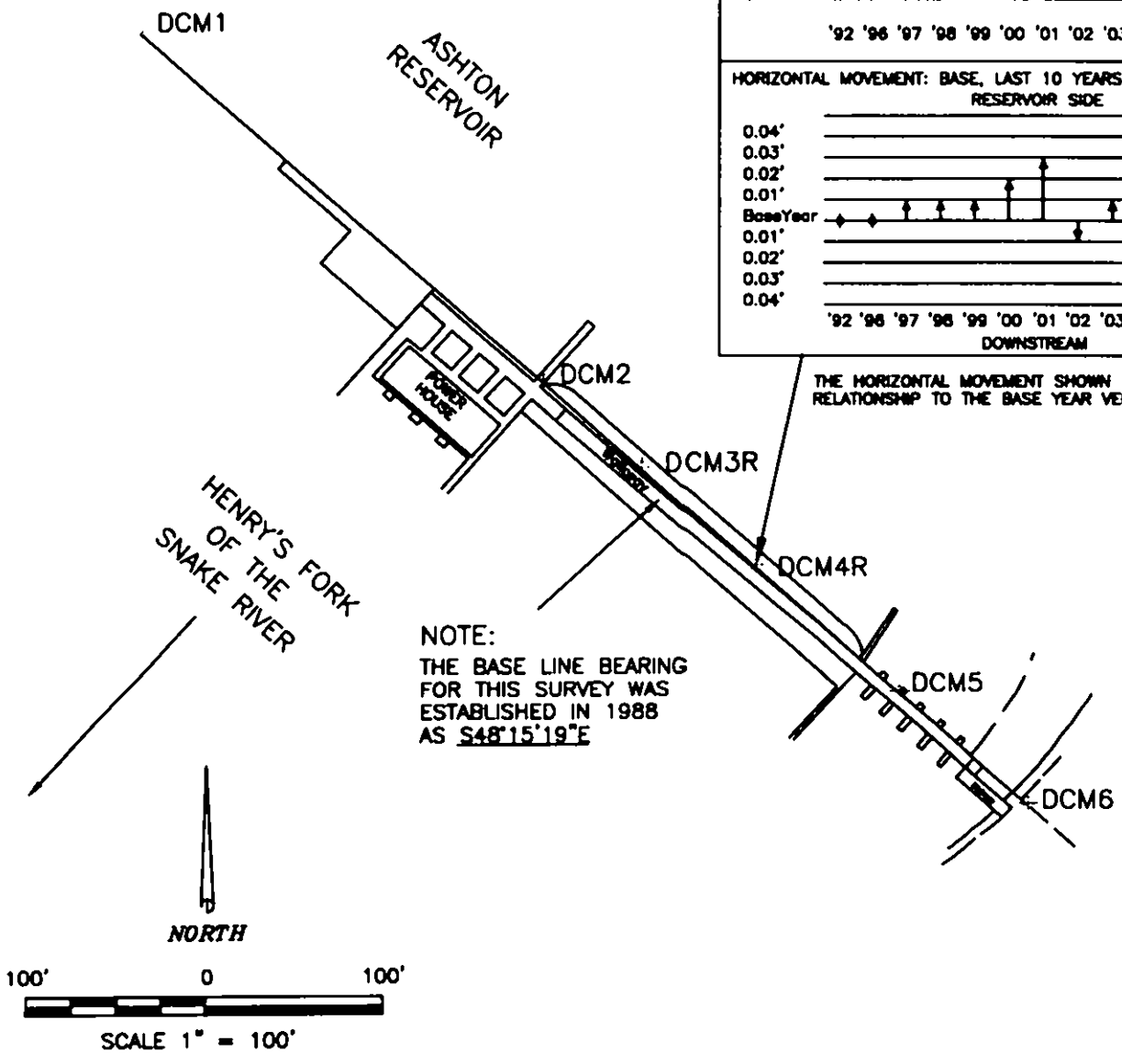


DAM CONTROL MONUMENT MONITORING FOR ROCKY MOUNTAIN POWER	ASHTON DAM LOCATED ON THE HENRY'S FORK OF THE SNAKE RIVER IN FREMONT COUNTY IDAHO	PREPARED BY: Jerry Timmins Surveying, inc. Mapping-Surveying-GIS 3195 East 2820 South Salt Lake City, Utah 84108
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DCM 4R ESTABLISHED IN 1992



THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR



DAM CONTROL MONUMENT MONITORING FOR  ROCKY MOUNTAIN POWER	ASHTON DAM LOCATED ON THE HENRY'S FORK OF THE SNAKE RIVER IN FREMONT COUNTY IDAHO	PREPARED BY: <i>Jerry Timmins Surveying, inc.</i> <i>Mapping-Surveying-GIS</i>
		3185 East 2920 South Salt Lake City, Utah 84108

DAM CONTROL MONUMENT MONITORING FOR  ROCKY MOUNTAIN POWER	ASHTON DAM LOCATED ON THE HENRY'S FORK OF THE SNAKE RIVER IN FREMONT COUNTY IDAHO	PREPARED BY: <i>Jerry Timmins Surveying, inc. Mapping-Surveying-GIS</i>
		3185 East 2820 South Salt Lake City, Utah 84109

VECTOR & DISTANCE COMPUTATIONS

UTAH POWER & LIGHT CO.

2006 MONUMENT STUDY

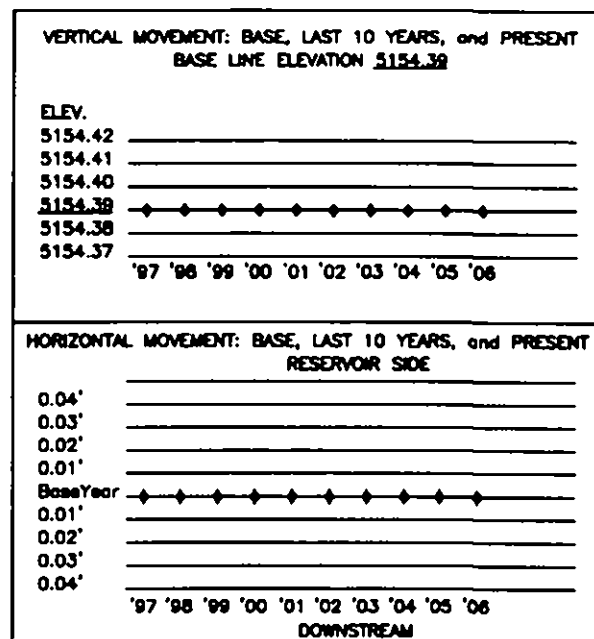
ASHTON DAM

Job# 0607

RIGHT WING WALL

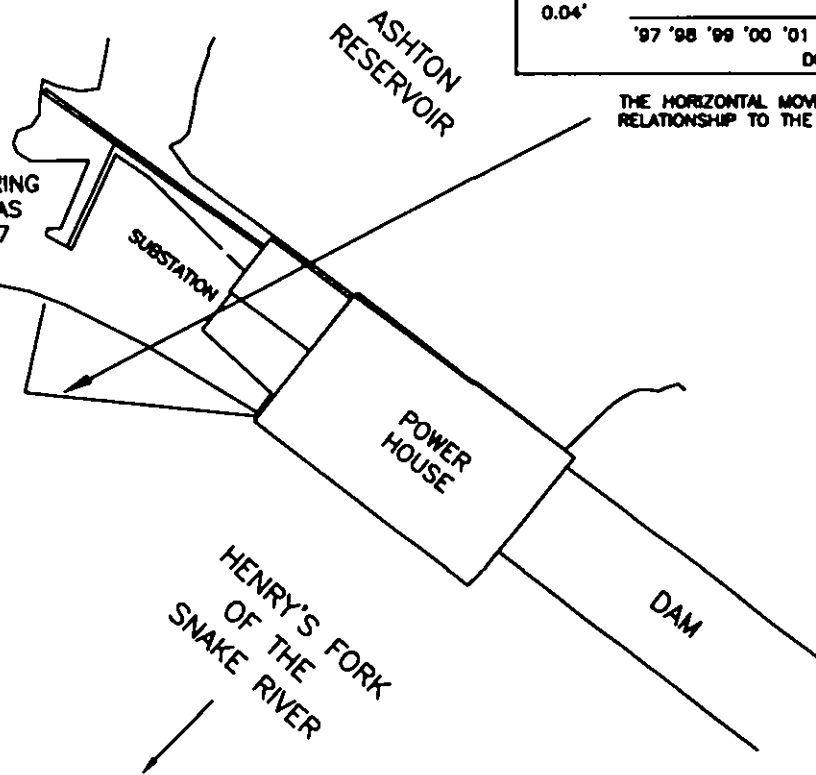
STATION	DATE OF SURVEY	IDAHO STATE PLANE COORDINATES 1927 EAST ZONE			GRID BEARING: BENCH MARK TO STATION			CAF: 0.999731826 GRID DISTANCE: LT BENCH MARK OR W TO STATION RT			DIFF ELEV
		"X" EAST	"Y" NORTH	ELEV.	N S	o o	' '	" "	E W		
RIVET	OCT.02,1997	675,963.87	879,802.90								
	FIXED ALL SURVEYS				S	83	22	22	E	BENCH MARK FIXED AZIMUTH	
PK4	OCT.02,1997	676,059.89	879,791.72	5158.43	S	83	22	22	E	96.87	
					RIVET TO PK4						
	OCT.15,1998	676,059.89	879,791.72	5158.44	S	83	22	29	E	96.87	0.00 0.01
	NOV.30,1999	676,059.89	879,791.72	5158.44	S	83	22	29	E	96.87	0.00 0.01
	SEP. 06,2000	676,059.88	879,791.72	5158.43	S	83	22	27	E	96.88	0.00 0.00
	SEP. 10,2001	676,059.90	879,791.72	5158.43	S	83	22	32	E	96.88	0.00 0.00
	SEP. 25,2002	676,059.90	879,791.72	5158.43	S	83	22	32	E	96.88	0.00 0.00
	SEP. 10,2003	676,059.89	879,791.72	5158.43	S	83	22	29	E	96.87	0.00 0.00
	OCT. 13,2004	676,059.90	879,791.72	5158.43	S	83	22	32	E	96.88	0.00 0.00
	AUG. 31,2005	676,059.88	879,791.71	5158.43	S	83	22	9	E	96.85	RT 0.01 0.00
	SEP. 11,2006	676,059.89	879,791.72	5158.43	S	83	22	22	E	96.88	0.00 0.00
PK5	OCT.02,1997	676,067.48	879,790.83	5159.52	S	83	22	22	E	104.51	
					RIVET TO PK5						
	OCT.15,1998	676,067.48	879,790.83	5159.52	S	83	22	13	E	104.51	0.00 0.00
	NOV.30,1999	676,067.48	879,790.83	5159.52	S	83	22	13	E	104.51	0.00 0.00
	SEP. 06,2000	676,067.47	879,790.83	5159.52	S	83	22	11	E	104.50	0.00 0.00
	SEP. 10,2001	676,067.48	879,790.83	5159.52	S	83	22	13	E	104.51	0.00 0.00
	SEP. 25,2002	676,067.49	879,790.83	5159.51	S	83	22	15	E	104.52	0.00 -0.01
	SEP. 10,2003	676,067.48	879,790.83	5159.52	S	83	22	13	E	104.51	0.00 0.00
	OCT. 13,2004	676,067.49	879,790.83	5159.52	S	83	22	15	E	104.52	0.00 0.00
	AUG. 31,2005	676,067.47	879,790.83	5159.52	S	83	22	11	E	104.50	0.00 0.00
	SEP. 11,2006	676,067.48	879,790.84	5159.52	S	83	22	22	E	104.51	0.00 0.00

PK 1



NOTE:

THE BASE LINE BEARING
FOR THIS SURVEY WAS
ESTABLISHED IN 1997
AS S83°22'22"E



THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR

DAM CONTROL
MONUMENT MONITORING
FOR



ROCKY MOUNTAIN
POWER

ASHTON DAM
RIGHT WING WALL

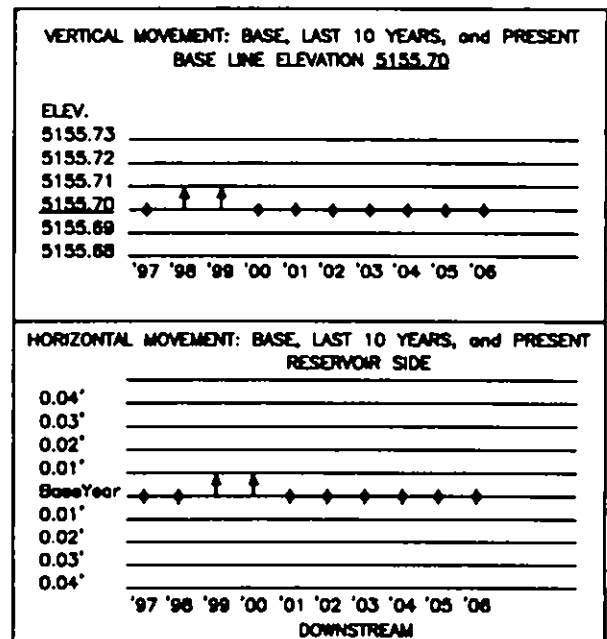
LOCATED ON THE HENRY'S FORK OF
THE SNAKE RIVER IN FREMONT COUNTY
IDAHO

PREPARED BY:

Jerry Timmins Surveying, inc.
Mapping-Surveying-GIS

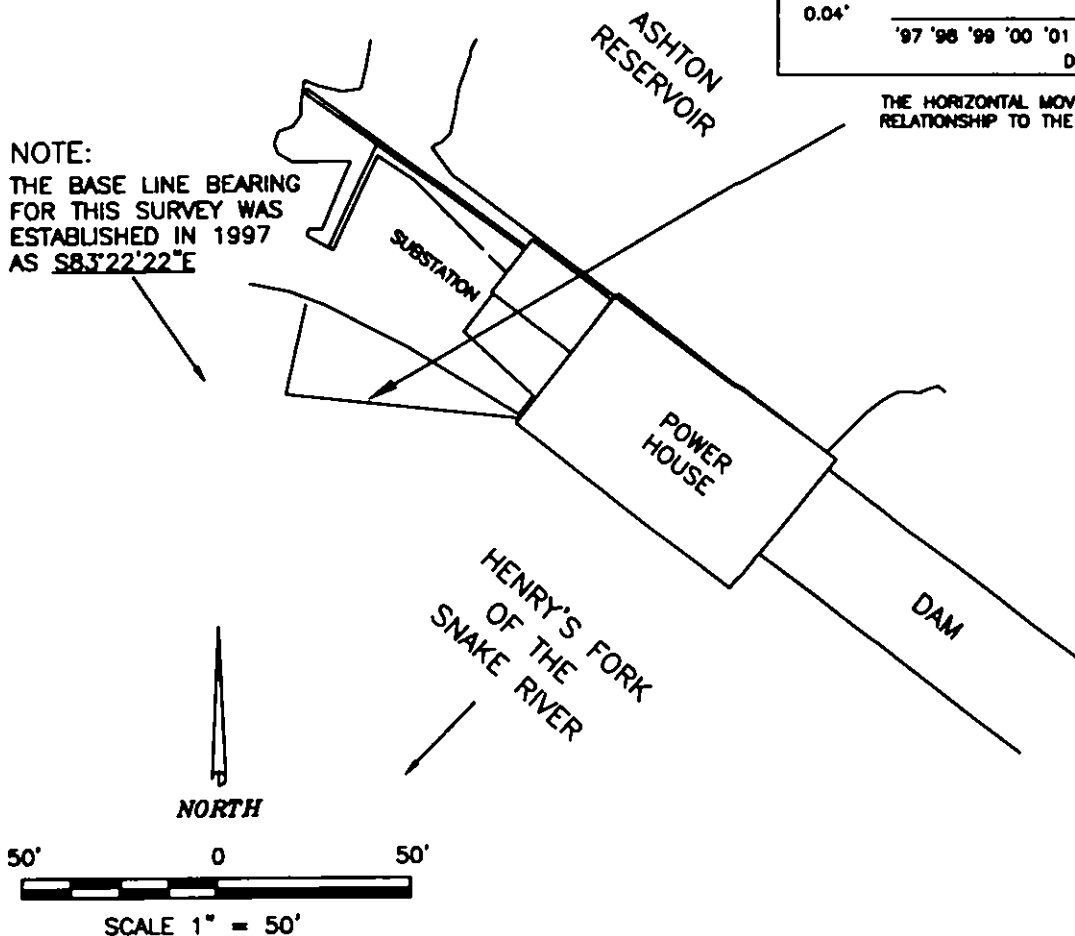
3185 East 2820 South
Salt Lake City, Utah 84109

PK 2



THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR

NOTE:
THE BASE LINE BEARING
FOR THIS SURVEY WAS
ESTABLISHED IN 1997
AS S83°22'22"E



DAM CONTROL
MONUMENT MONITORING
FOR



ROCKY MOUNTAIN
POWER

ASHTON DAM RIGHT WING WALL

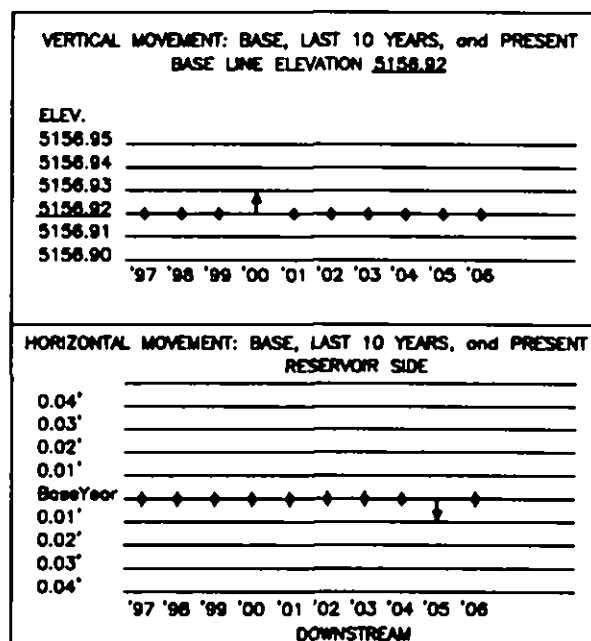
LOCATED ON THE HENRY'S FORK OF
THE SNAKE RIVER IN FREMONT COUNTY
IDAHO

PREPARED BY:

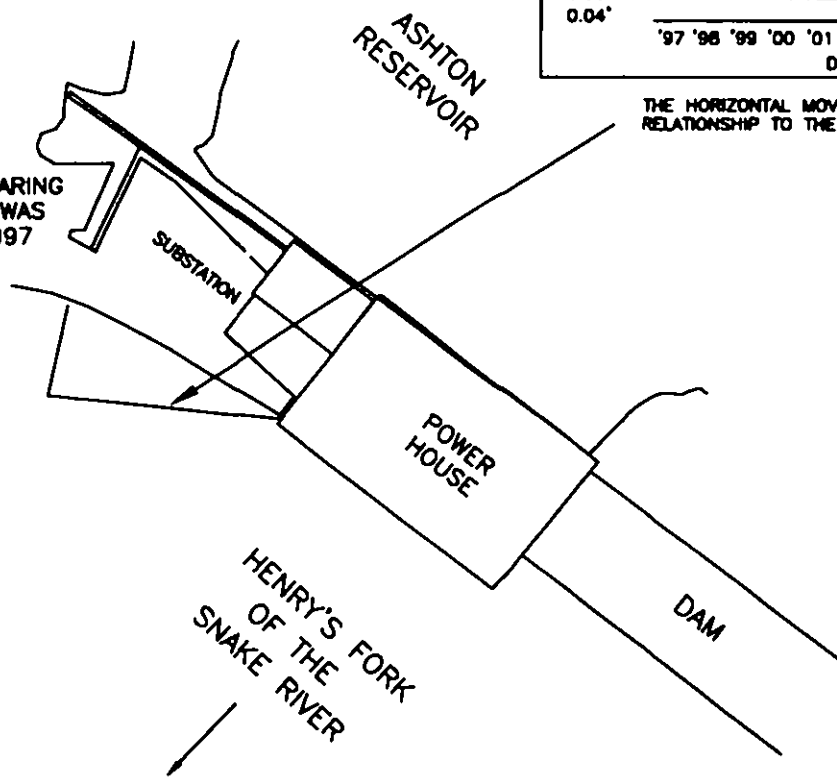
*Jerry Timmins Surveying, inc.
Mapping-Surveying-GIS*

3185 East 2820 South
Salt Lake City, Utah 84108

PK 3



NOTE:
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FOR THIS SURVEY WAS
ESTABLISHED IN 1997
AS S83°22'22"E



THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR

DAM CONTROL
MONUMENT MONITORING
FOR



ROCKY MOUNTAIN
POWER

ASHTON DAM RIGHT WING WALL

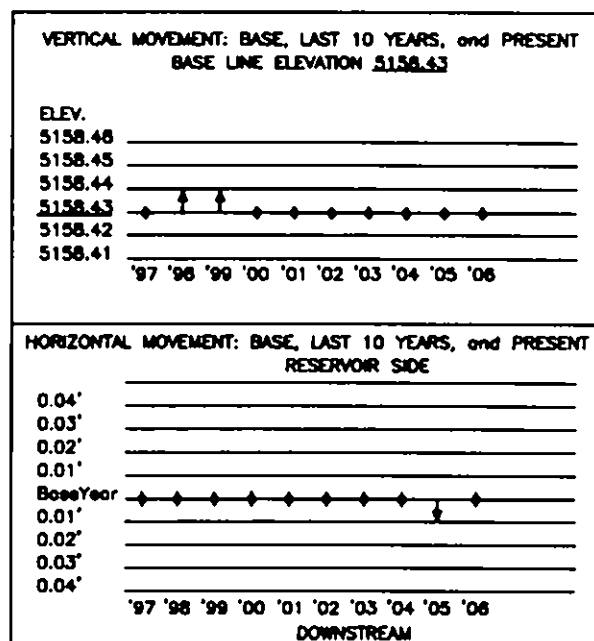
LOCATED ON THE HENRY'S FORK
OF THE SNAKE RIVER IN FREMONT COUNTY
IDAHO

PREPARED BY:

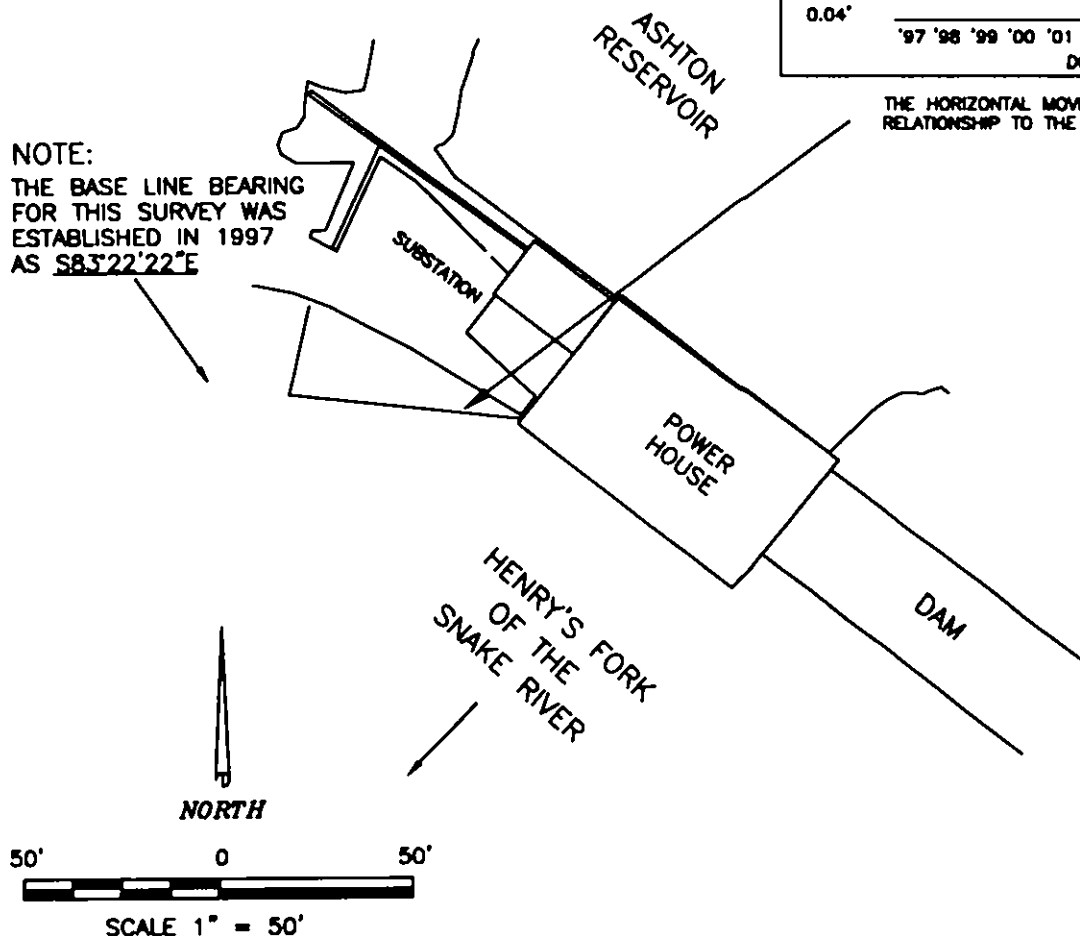
*Jerry Timmins Surveying, Inc.
Mapping-Surveying-GIS*

3185 East 2620 South
Salt Lake City, Utah 84108

PK 4



NOTE:
THE BASE LINE BEARING
FOR THIS SURVEY WAS
ESTABLISHED IN 1997
AS S83°22'22"E



THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR

DAM CONTROL
MONUMENT MONITORING
FOR



ROCKY MOUNTAIN
POWER

ASHTON DAM RIGHT WING WALL

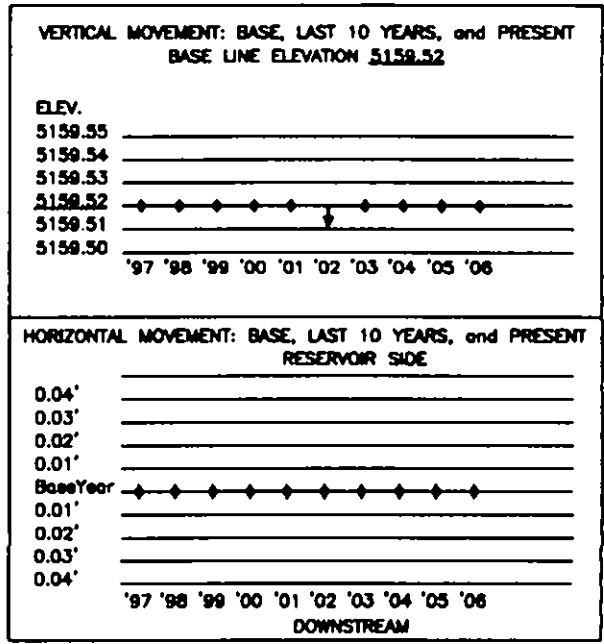
LOCATED ON THE HENRY'S FORK OF
THE SNAKE RIVER IN FREMONT COUNTY
IDAHO

PREPARED BY:

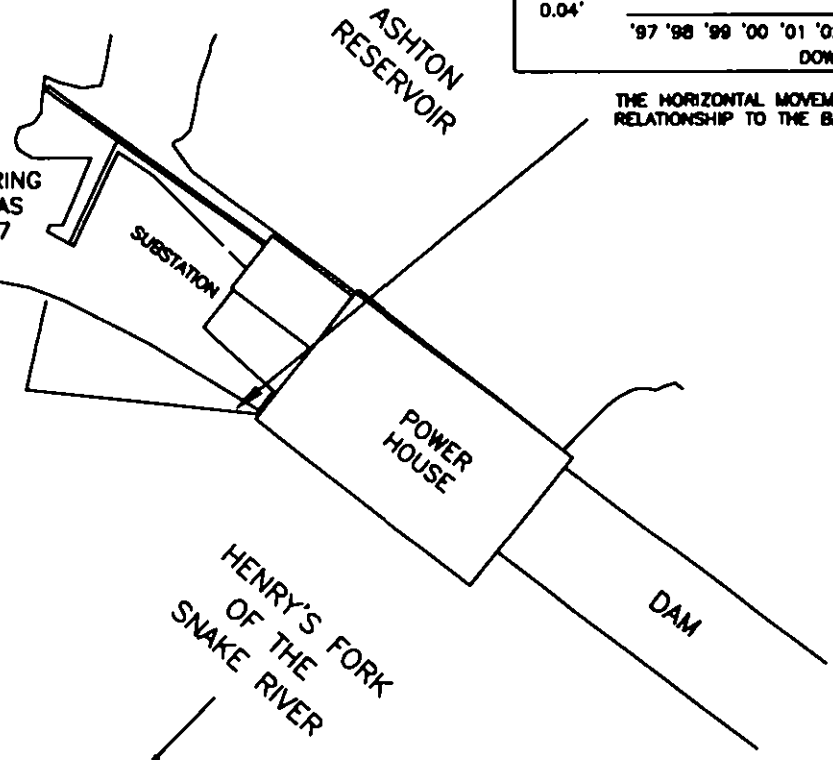
*Jerry Timmins Surveying, Inc.
Mapping-Surveying-GIS*

3195 East 2920 South
Salt Lake City, Utah 84108

PK 5



NOTE:
THE BASE LINE BEARING
FOR THIS SURVEY WAS
ESTABLISHED IN 1997
AS S83°22'22"E



THE HORIZONTAL MOVEMENT SHOWN IS IN
RELATIONSHIP TO THE BASE YEAR VECTOR

DAM CONTROL MONUMENT MONITORING FOR  ROCKY MOUNTAIN POWER	ASHTON DAM RIGHT WING WALL LOCATED ON THE HENRY'S FORK OF THE SNAKE RIVER IN FREMONT COUNTY IDAHO	PREPARED BY: <i>Jerry Timmins Surveying, inc.</i> <i>Mapping-Surveying-GIS</i>
		3195 East 2920 South Salt Lake City, Utah 84108