

**DESIGN WATER SURFACE PROFILES  
for the  
FEATHER RIVER WEST LEVEE PROJECT**

**ADDENDUM #2  
(December 2013)**



*Prepared for: Sutter-Butte Flood Control Agency*

*December 27, 2013*

**Prepared by:** Chris Fritz, PE

**Reviewed by:** Dave Peterson, PE; Barry O'Regan, PE

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**INTRODUCTION**

This Technical Memorandum (TM) documents the second Addendum to the March 2012 design water surface profiles for the Sutter Butte Flood Control Agency's (SBFCA) Feather River West Levee Project (FRWLP). The purpose of this Addendum #2 is to update the top-of-levee elevations for stationing 466+00 thru 469+00, and for stationing 553+00 thru 558+00. Previous freeboard analyses identified these levee sections of having less than three feet of freeboard for the 200-year event. However, the identified freeboard deficiencies were relatively minor (generally less than a tenth of a foot) and the previous freeboard analyses utilized CVFED LiDAR<sup>1</sup> data for the referenced top-of-levee elevations. Therefore, field survey data was collected by SBFCA in order to more accurately determine the top-of-levee elevations at these locations, which in turn provides a more accurate measurement of the available freeboard.

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<sup>1</sup> California Department of Water Resources, LiDAR Datasets for the Sacramento River Basin, Central Valley Floodplain Evaluation and Delineation Program (CVFED)

It is important to note that the updates incorporated into this Addendum #2 only pertain to the documented top-of-levee elevations for the Feather River West Levee Project. No updates to the design water surface profile elevations were incorporated as part of this Addendum #2.

**RESULTS**

A summary of the updates that were incorporated into the freeboard analysis (Table 6 in Addendum #1) is shown in Table 1 and Table 2 below. Using the more accurate field survey information, the referenced levee sections are shown to have more than three feet of available freeboard during the 200-year event.

The associated field survey documentation is included as Attachment A.

The updated freeboard table, in its entirety, is included as Attachment B.

**Table 1. Feather River West Levee Project Freeboard Analysis; STA 553+00 to 558+00 (Amendment #2 updates are highlighted)**

LEEVE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
55900.00		69.95	63.54	66.85	71.50				6.41	3.10	-1.55
55800.00	69.97	69.83	63.53	66.84	71.49	6.44	3.13	-1.52	6.29	2.98	-1.66
55700.00	69.88	69.61	63.52	66.83	71.48	6.36	3.05	-1.60	6.08	2.77	-1.87
55600.00	69.97	69.67	63.52	66.83	71.47	6.45	3.14	-1.50	6.16	2.85	-1.79
55500.00	70.00	69.68	63.51	66.82	71.46	6.49	3.18	-1.46	6.17	2.86	-1.78
55400.00	69.89	69.70	63.50	66.81	71.44	6.39	3.08	-1.55	6.21	2.90	-1.74
55300.00	69.93	69.73	63.48	66.79	71.43	6.45	3.14	-1.50	6.25	2.94	-1.70
55200.00		69.94	63.47	66.78	71.42				6.47	3.16	-1.47

**Table 2. Feather River West Levee Project Freeboard Analysis; STA 466+00 to 469+00 (Amendment #2 updates are highlighted)**

LEEVE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
47000.00	68.41	67.75	61.35	64.57	68.91	7.06	3.84	-0.50	6.40	3.18	-1.16
46900.00	68.16	67.53	61.32	64.54	68.87	6.84	3.62	-0.71	6.21	2.99	-1.34
46800.00		67.76	61.29	64.51	68.84				6.46	3.25	-1.08
46700.00	67.98	67.45	61.27	64.48	68.80	6.71	3.50	-0.82	6.18	2.97	-1.35
46600.00	68.01	67.43	61.24	64.45	68.77	6.77	3.56	-0.76	6.19	2.98	-1.34
46500.00	67.87	67.50	61.21	64.42	68.73	6.66	3.45	-0.86	6.29	3.08	-1.23

**ATTACHMENT A**

**Wood Rodger's Field Survey Documentation**



# WOOD RODGERS

December 11, 2013

Mr. Michael W. Bessette, PE  
Director of Engineering  
Sutter Butte Flood Control Agency  
1227 Bridge Street, Suite C  
Yuba City, California 95991

Dear Mr. Bessette:

Subject: Sutter Butte Flood Control Agency-Feather River West Levee Project, Existing Levee Crown Field Verification Surveys

Wood Rodgers, Inc. performed field surveys on July 8, 2013 to collect top-of-levee data between STA 466+00 and STA 469+00. These surveys were conducted using a combination of RTK and Conventional Survey methods and meet survey project requirements.

This work was performed entirely under my direct supervision.

Sincerely,  
**Wood Rodgers, Inc.**

Michael E. Long, PLS 6815  
Project Surveyor

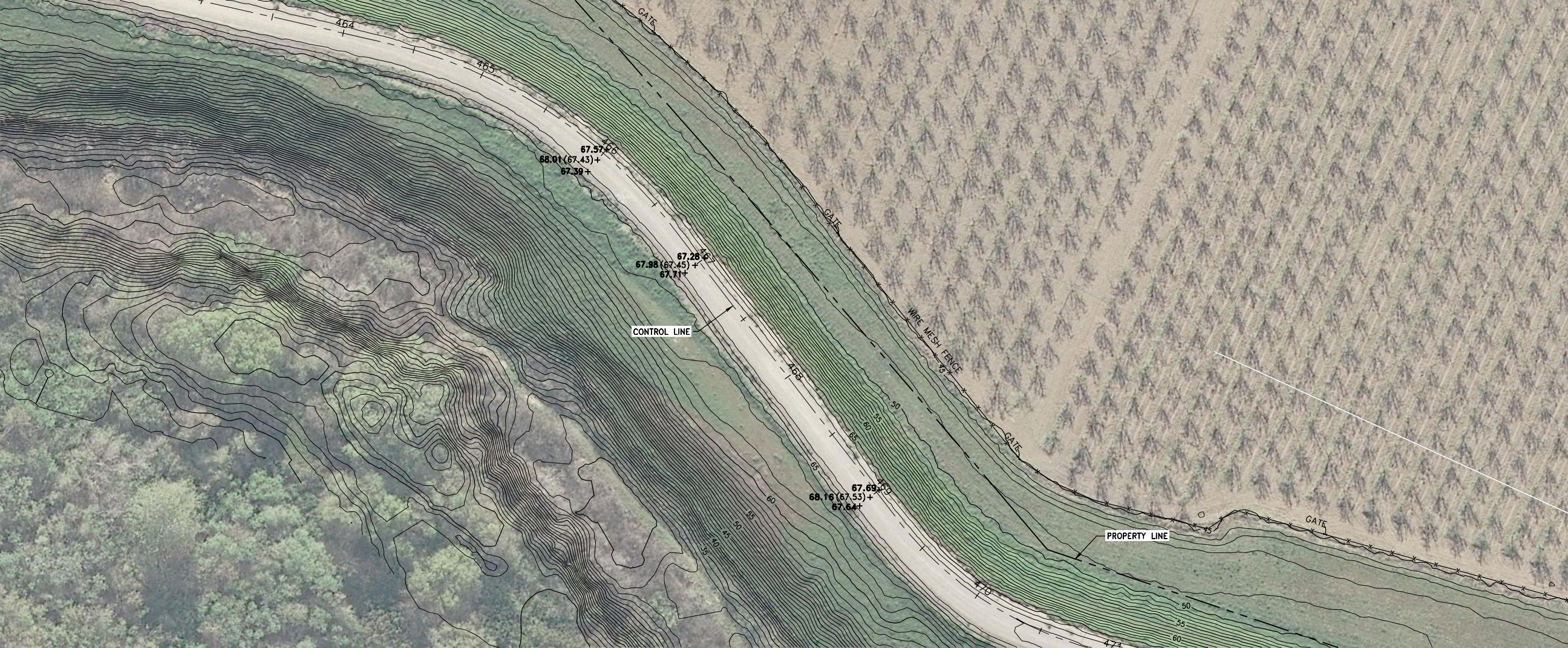
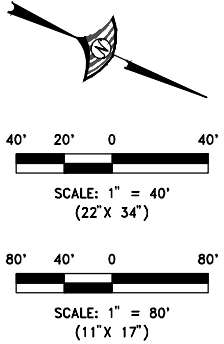


# LEVEE CROWN SURVEY DATA

## STA 466+00 TO STA 469+00

### SUTTER BUTTE FLOOD CONTROL AGENCY

DECEMBER, 2013



**LEGEND**

- 70.0+                      FIELD SURVEY POINT
- (69.8)                    CVFED ELEVATION AT CONTROL LINE

C:\Users\epyster\Desktop\Exhibits\EXH-LEVEE CROWN STA. 466-469.dwg 12/10/2013 10:28 AM Even Eyster



November 12, 2013

Mr. Michael W. Bessette, PE  
Director of Engineering  
Sutter Butte Flood Control Agency  
1227 Bridge Street, Suite C  
Yuba City, California 95991


Dear Mr. Bessette:

Subject: Sutter Butte Flood Control Agency-Feather River West Levee Project, Existing Levee Crown Field Verification Surveys

Wood Rodgers, Inc. performed field surveys on July 15, 2013 to collect top-of-levee data between STA 553+00 and STA 558+00. These surveys were conducted using a combination of RTK and Conventional Survey methods and meet survey project requirements.

This work was performed entirely under my direct supervision.

Sincerely,  
Wood Rodgers, Inc.

  
Michael E. Long, PLS 6815  
Principal



# LEVEE CROWN SURVEY DATA

## STA 553+00 TO STA 558+00

### SUTTER BUTTE FLOOD CONTROL AGENCY

OCTOBER, 2013



40' 20' 0 40'

SCALE: 1" = 40'  
(22' X 34')

80' 40' 0 80'

SCALE: 1" = 80'  
(11' X 17')



**LEGEND**

- x 70.0                      FIELD SURVEY POINT
- (69.8)                      CVFD ELEVATION AT CONTROL LINE

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**ATTACHMENT B**

**Feather River West Levee Project Freeboard Analysis**

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
236800.00		139.41	130.67	131.87	134.02				8.74	7.54	5.39
236700.00		139.43	130.64	131.85	134.01				8.78	7.58	5.41
236600.00		139.21	130.62	131.83	134.00				8.59	7.39	5.21
236500.00	138.91	138.82	130.59	131.81	133.99	8.32	7.10	4.92	8.23	7.02	4.83
236400.00		139.05	130.57	131.79	133.99				8.48	7.26	5.06
236300.00		139.42	130.54	131.77	133.98				8.88	7.65	5.44
236200.00		138.85	130.52	131.74	133.97				8.33	7.10	4.88
236100.00		138.53	130.49	131.72	133.96				8.04	6.81	4.57
236000.00	139.28	138.92	130.46	131.70	133.95	8.82	7.58	5.33	8.45	7.21	4.97
235900.00		137.38	130.44	131.68	133.94				6.94	5.70	3.44
235800.00		138.85	130.41	131.66	133.93				8.44	7.19	4.92
235700.00		139.01	130.38	131.63	133.91				8.63	7.38	5.10
235600.00		140.34	130.35	131.60	133.88				10.00	8.74	6.46
235500.00	138.84	138.98	130.31	131.57	133.85	8.53	7.27	4.98	8.67	7.41	5.13
235400.00		139.32	130.27	131.53	133.82				9.05	7.79	5.50
235300.00		139.52	130.24	131.50	133.79				9.28	8.02	5.73
235200.00		139.30	130.20	131.46	133.76				9.09	7.83	5.54
235100.00		138.91	130.16	131.43	133.73				8.74	7.48	5.18
235000.00	138.40	138.61	130.13	131.40	133.70	8.27	7.00	4.70	8.49	7.22	4.92
234900.00		138.64	130.09	131.36	133.67				8.55	7.28	4.97
234800.00		138.51	130.06	131.33	133.64				8.46	7.18	4.88
234700.00		138.91	130.02	131.29	133.60				8.89	7.61	5.30
234600.00		139.18	129.98	131.26	133.57				9.20	7.92	5.61
234500.00		138.85	129.95	131.23	133.54				8.90	7.62	5.31
234400.00		139.04	129.91	131.19	133.51				9.13	7.85	5.53
234300.00		138.93	129.87	131.16	133.48				9.05	7.77	5.45
234200.00		138.12	129.84	131.12	133.45				8.28	6.99	4.67
234100.00		136.70	129.80	131.09	133.42				6.90	5.61	3.28
234000.00	135.80	136.03	129.77	131.06	133.39	6.04	4.75	2.42	6.27	4.98	2.65
233900.00		135.89	129.73	131.02	133.36				6.16	4.87	2.53
233800.00		136.06	129.69	130.99	133.32				6.36	5.07	2.73
233700.00		135.63	129.66	130.96	133.29				5.98	4.68	2.34
233600.00		136.18	129.57	130.87	133.21				6.61	5.31	2.97
233500.00	137.57	137.70	129.32	130.61	132.95	8.25	6.96	4.62	8.38	7.08	4.74
233400.00		137.74	129.07	130.36	132.70				8.67	7.38	5.04
233300.00		137.61	128.83	130.11	132.45				8.78	7.50	5.16
233200.00		137.16	128.58	129.86	132.20				8.58	7.30	4.96
233100.00		137.07	128.33	129.61	131.95				8.73	7.46	5.12
233000.00	136.79	136.88	128.08	129.35	131.69	8.71	7.44	5.10	8.80	7.53	5.19
232900.00		136.62	127.84	129.10	131.44				8.79	7.52	5.18
232800.00		136.05	127.59	128.85	131.19				8.46	7.20	4.86
232700.00		136.55	127.44	128.70	131.09				9.11	7.85	5.46
232600.00		136.22	127.29	128.56	130.99				8.93	7.67	5.23
232500.00	135.82	136.14	127.14	128.41	130.89	8.68	7.41	4.92	9.00	7.73	5.25
232400.00		135.68	126.99	128.27	130.80				8.69	7.41	4.89
232300.00		135.82	126.84	128.12	130.70				8.98	7.70	5.12
232200.00		136.08	126.70	127.98	130.60				9.39	8.10	5.48
232100.00		136.22	126.55	127.84	130.51				9.67	8.38	5.71
232000.00	136.11	136.17	126.40	127.69	130.41	9.71	8.42	5.70	9.78	8.48	5.76
231900.00		136.01	126.25	127.55	130.31				9.76	8.46	5.70
231800.00		135.82	126.10	127.40	130.22				9.72	8.42	5.60
231700.00		135.80	125.95	127.26	130.12				9.85	8.54	5.68
231600.00		136.06	125.80	127.11	130.02				10.26	8.95	6.04
231500.00		135.45	125.66	126.97	129.93				9.80	8.48	5.53
231400.00		135.26	125.51	126.83	129.83				9.75	8.43	5.43
231300.00		135.35	125.33	126.66	129.75				10.02	8.70	5.60
231200.00		135.20	125.13	126.46	129.70				10.07	8.74	5.50
231100.00		134.76	124.93	126.26	129.65				9.83	8.50	5.11
231000.00		134.39	124.73	126.06	129.59				9.67	8.33	4.80
230900.00		134.71	124.53	125.87	129.54				10.19	8.85	5.17
230800.00		134.76	124.32	125.67	129.49				10.44	9.10	5.28
230700.00		134.66	124.12	125.47	129.43				10.53	9.18	5.22
230600.00		134.57	123.92	125.27	129.38				10.65	9.29	5.19
230500.00		135.11	123.72	125.08	129.32				11.39	10.03	5.78
230400.00		135.43	123.66	125.02	129.31				11.77	10.41	6.11
230300.00		135.25	123.61	124.97	129.30				11.64	10.28	5.95
230200.00		135.12	123.56	124.92	129.29				11.56	10.20	5.83
230100.00		134.82	123.51	124.88	129.28				11.31	9.94	5.54
230000.00	134.36	134.50	123.47	124.83	129.27	10.89	9.52	5.08	11.04	9.67	5.23
229900.00		133.96	123.42	124.79	129.26				10.54	9.17	4.70
229800.00		133.75	123.37	124.74	129.25				10.38	9.01	4.50
229700.00		134.02	123.32	124.69	129.24				10.69	9.32	4.78
229600.00		133.54	123.28	124.65	129.23				10.26	8.89	4.31
229500.00	133.20	133.32	123.23	124.60	129.22	9.97	8.60	3.98	10.09	8.72	4.10

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
229400.00		133.19	123.18	124.55	129.21				10.01	8.64	3.98
229300.00		132.97	123.13	124.51	129.20				9.84	8.47	3.77
229200.00		133.05	123.09	124.46	129.19				9.97	8.59	3.86
229100.00		133.21	123.04	124.41	129.18				10.17	8.79	4.03
229000.00	133.52	133.85	122.99	124.37	129.17	10.52	9.15	4.35	10.85	9.48	4.68
228900.00		133.24	122.95	124.32	129.16				10.30	8.92	4.08
228800.00		133.58	122.90	124.28	129.15				10.68	9.30	4.43
228700.00		133.33	122.85	124.23	129.14				10.48	9.10	4.19
228600.00		133.54	122.80	124.18	129.13				10.73	9.35	4.41
228500.00	133.09	133.37	122.76	124.14	129.12	10.34	8.96	3.97	10.62	9.24	4.25
228400.00		132.76	122.71	124.09	129.11				10.05	8.67	3.65
228300.00		132.73	122.66	124.04	129.10				10.07	8.69	3.63
228200.00		132.91	122.61	124.00	129.09				10.30	8.92	3.83
228100.00		132.82	122.57	123.95	129.08				10.25	8.87	3.74
228000.00	132.44	132.41	122.52	123.90	129.07	9.92	8.53	3.37	9.89	8.50	3.34
227900.00		132.52	122.47	123.86	129.06				10.05	8.67	3.47
227800.00		132.51	122.42	123.81	129.05				10.08	8.70	3.46
227700.00		132.32	122.38	123.76	129.04				9.95	8.56	3.29
227600.00		132.37	122.33	123.72	129.03				10.05	8.66	3.35
227500.00	132.08	132.16	122.28	123.67	129.02	9.80	8.41	3.06	9.88	8.49	3.14
227400.00		131.97	122.23	123.63	129.01				9.74	8.34	2.96
227300.00		131.64	122.19	123.58	129.00				9.45	8.06	2.64
227200.00		132.10	122.14	123.53	128.99				9.96	8.56	3.11
227100.00		131.98	122.09	123.49	128.98				9.89	8.49	3.00
227000.00	131.75	131.71	122.04	123.44	128.97	9.71	8.31	2.79	9.66	8.27	2.74
226900.00		131.72	122.00	123.39	128.96				9.72	8.32	2.76
226800.00		131.80	121.95	123.35	128.95				9.85	8.45	2.85
226700.00		131.42	121.90	123.30	128.94				9.52	8.12	2.49
226600.00		131.46	121.85	123.25	128.93				9.60	8.20	2.53
226500.00	131.20	131.20	121.81	123.21	128.91	9.39	7.99	2.29	9.40	7.99	2.29
226400.00		130.93	121.76	123.17	128.89				9.17	7.76	2.04
226300.00		130.52	121.71	123.13	128.88				8.81	7.40	1.65
226200.00		131.00	121.67	123.08	128.86				9.33	7.91	2.14
226100.00		130.30	121.62	123.04	128.84				8.68	7.26	1.46
226000.00	130.28	130.25	121.57	123.00	128.82	8.70	7.28	1.46	8.68	7.25	1.43
225900.00		130.21	121.53	122.96	128.80				8.68	7.25	1.41
225800.00		129.89	121.48	122.92	128.78				8.41	6.98	1.11
225700.00		130.02	121.43	122.87	128.77				8.58	7.14	1.25
225600.00		129.99	121.39	122.83	128.75				8.60	7.16	1.24
225500.00	129.82	129.85	121.34	122.79	128.73	8.48	7.03	1.09	8.51	7.06	1.12
225400.00		129.61	121.29	122.75	128.71				8.32	6.87	0.90
225300.00		129.70	121.25	122.71	128.69				8.46	7.00	1.01
225200.00		129.90	121.20	122.66	128.68				8.70	7.24	1.23
225100.00		129.89	121.15	122.62	128.66				8.74	7.27	1.23
225000.00	130.06	130.13	121.10	122.58	128.64	8.95	7.48	1.42	9.03	7.55	1.49
224900.00		130.64	121.06	122.54	128.62				9.58	8.10	2.02
224800.00		129.92	121.01	122.50	128.60				8.91	7.43	1.32
224700.00		129.72	120.96	122.45	128.59				8.76	7.27	1.13
224600.00		129.89	120.92	122.41	128.57				8.97	7.48	1.32
224500.00	129.62	129.99	120.87	122.37	128.55	8.75	7.25	1.07	9.12	7.62	1.44
224400.00		129.67	120.82	122.33	128.53				8.85	7.34	1.14
224300.00		129.75	120.78	122.28	128.51				8.97	7.47	1.24
224200.00		130.09	120.73	122.24	128.50				9.36	7.85	1.60
224100.00		129.61	120.68	122.20	128.48				8.93	7.41	1.13
224000.00	129.46	129.55	120.64	122.16	128.46	8.82	7.30	1.00	8.92	7.40	1.09
223900.00		129.58	120.59	122.12	128.44				8.99	7.46	1.14
223800.00		129.54	120.54	122.07	128.42				9.00	7.47	1.12
223700.00		129.28	120.48	122.02	128.41				8.79	7.25	0.87
223600.00		129.37	120.43	121.97	128.39				8.94	7.39	0.98
223500.00	128.97	129.15	120.37	121.92	128.37	8.60	7.05	0.60	8.78	7.23	0.78
223400.00		129.09	120.31	121.87	128.35				8.78	7.22	0.74
223300.00		128.93	120.26	121.82	128.33				8.67	7.11	0.60
223200.00		128.93	120.20	121.77	128.32				8.73	7.16	0.62
223100.00		128.72	120.15	121.72	128.30				8.58	7.00	0.42
223000.00	128.34	128.41	120.09	121.67	128.28	8.25	6.67	0.06	8.32	6.74	0.13
222900.00		128.20	120.03	121.62	128.26				8.17	6.58	-0.06
222800.00		127.90	119.98	121.57	128.25				7.92	6.32	-0.35
222700.00		128.15	119.92	121.52	128.23				8.22	6.62	-0.08
222600.00		127.92	119.87	121.47	128.21				8.05	6.44	-0.29
222500.00	127.76	127.74	119.81	121.42	128.19	7.95	6.33	-0.44	7.94	6.32	-0.45
222400.00		127.59	119.75	121.37	128.17				7.84	6.22	-0.58
222300.00		127.68	119.70	121.32	128.16				7.99	6.36	-0.47
222200.00		127.43	119.64	121.27	128.14				7.79	6.16	-0.70
222100.00		127.33	119.58	121.22	128.12				7.75	6.11	-0.79

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
222000.00	126.93	126.92	119.54	121.17	128.04	7.39	5.76	-1.12	7.38	5.75	-1.12
221900.00		126.77	119.50	121.12	127.96				7.27	5.65	-1.19
221800.00		126.66	119.46	121.07	127.88				7.20	5.59	-1.22
221700.00		127.22	119.42	121.02	127.80				7.80	6.20	-0.58
221600.00		127.20	119.38	120.97	127.72				7.83	6.23	-0.52
221500.00	126.83	127.10	119.34	120.92	127.64	7.49	5.91	-0.81	7.76	6.18	-0.54
221400.00		126.85	119.30	120.87	127.56				7.56	5.98	-0.71
221300.00		126.83	119.26	120.82	127.48				7.58	6.02	-0.64
221200.00		126.51	119.21	120.77	127.40				7.29	5.74	-0.89
221100.00		126.32	119.17	120.72	127.32				7.14	5.60	-1.00
221000.00	126.02	126.10	119.03	120.57	127.13	6.99	5.45	-1.12	7.07	5.53	-1.03
220900.00		125.86	118.84	120.37	126.91				7.02	5.49	-1.05
220800.00		125.87	118.65	120.18	126.68				7.22	5.70	-0.80
220700.00		126.04	118.47	119.98	126.45				7.58	6.06	-0.41
220600.00		125.84	118.28	119.78	126.22				7.56	6.05	-0.38
220500.00	125.78	125.89	118.10	119.60	126.00	7.68	6.18	-0.22	7.80	6.29	-0.11
220400.00		125.88	117.96	119.47	125.83				7.92	6.41	0.05
220300.00		125.90	117.83	119.34	125.65				8.07	6.56	0.25
220200.00		125.98	117.69	119.21	125.48				8.29	6.77	0.50
220100.00		125.97	117.56	119.08	125.30				8.41	6.88	0.66
220000.00	125.55	125.80	117.21	118.71	124.81	8.34	6.84	0.74	8.59	7.09	0.99
219900.00		125.65	116.72	118.16	124.08				8.93	7.49	1.57
219800.00		125.49	116.23	117.61	123.36				9.26	7.87	2.13
219700.00		125.40	116.05	117.42	123.07				9.35	7.98	2.33
219600.00		125.57	115.93	117.28	122.85				9.64	8.29	2.73
219500.00	125.18	125.32	115.81	117.14	122.62	9.37	8.03	2.55	9.51	8.18	2.69
219400.00		125.21	115.69	117.00	122.40				9.52	8.21	2.81
219300.00		125.41	115.56	116.86	122.18				9.84	8.55	3.23
219200.00		125.19	115.44	116.72	121.96				9.75	8.46	3.23
219100.00		124.99	115.38	116.65	121.84				9.61	8.34	3.15
219000.00	124.67	124.90	115.32	116.59	121.73	9.35	8.08	2.94	9.58	8.31	3.17
218900.00		124.84	115.26	116.52	121.62				9.57	8.31	3.22
218800.00		124.94	115.20	116.46	121.51				9.73	8.48	3.43
218700.00		124.80	115.15	116.39	121.39				9.65	8.41	3.41
218600.00		124.40	115.09	116.33	121.28				9.31	8.07	3.11
218500.00	124.41	124.62	115.03	116.27	121.17	9.38	8.14	3.24	9.58	8.35	3.44
218400.00		124.73	114.97	116.20	121.06				9.76	8.53	3.67
218300.00		124.39	114.92	116.14	120.95				9.48	8.26	3.44
218200.00		124.55	114.86	116.07	120.84				9.69	8.48	3.71
218100.00		124.79	114.80	116.01	120.73				9.99	8.78	4.06
218000.00		124.49	114.74	115.94	120.62				9.75	8.55	3.87
217900.00		125.12	114.69	115.88	120.51				10.43	9.24	4.61
217800.00		124.58	114.63	115.81	120.40				9.95	8.77	4.19
217700.00		124.46	114.57	115.75	120.28				9.89	8.71	4.18
217600.00		124.62	114.51	115.69	120.17				10.10	8.93	4.44
217500.00		124.66	114.46	115.62	120.06				10.20	9.03	4.59
217400.00		124.63	114.40	115.56	119.95				10.23	9.07	4.68
217300.00		124.53	114.34	115.49	119.84				10.19	9.04	4.69
217200.00		124.39	114.28	115.43	119.73				10.11	8.97	4.67
217100.00		124.40	114.23	115.36	119.62				10.17	9.04	4.78
217000.00		124.40	114.17	115.30	119.51				10.23	9.10	4.90
216900.00		124.27	114.11	115.24	119.44				10.15	9.03	4.83
216800.00		124.11	114.06	115.19	119.37				10.05	8.92	4.74
216700.00		123.95	114.01	115.13	119.31				9.94	8.82	4.64
216600.00		123.66	113.95	115.07	119.25				9.71	8.59	4.42
216500.00		123.96	113.90	115.02	119.19				10.07	8.95	4.78
216400.00		124.17	113.84	114.96	119.12				10.33	9.21	5.05
216300.00		124.27	113.79	114.90	119.06				10.49	9.37	5.21
216200.00		124.33	113.73	114.85	119.00				10.59	9.48	5.33
216100.00		124.35	113.68	114.79	118.93				10.67	9.56	5.42
216000.00		124.28	113.63	114.73	118.87				10.66	9.55	5.41
215900.00		124.03	113.57	114.68	118.81				10.46	9.35	5.22
215800.00		123.94	113.52	114.62	118.74				10.42	9.31	5.19
215700.00		123.82	113.46	114.56	118.68				10.35	9.25	5.13
215600.00		123.63	113.41	114.51	118.62				10.22	9.12	5.01
215500.00		123.46	113.35	114.45	118.56				10.11	9.01	4.91
215400.00		123.30	113.30	114.40	118.49				10.00	8.91	4.81
215300.00		123.10	113.25	114.34	118.43				9.86	8.76	4.67
215200.00		122.89	113.19	114.28	118.37				9.70	8.61	4.53
215100.00		122.78	113.14	114.23	118.30				9.65	8.56	4.48
215000.00		122.63	113.08	114.17	118.24				9.55	8.46	4.39
214900.00		122.71	113.03	114.11	118.18				9.68	8.59	4.53
214800.00		122.97	112.97	114.06	118.12				10.00	8.91	4.85
214700.00		123.06	112.92	114.00	118.05				10.14	9.06	5.01

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
214600.00		122.84	112.82	113.90	117.96				10.02	8.94	4.88
214500.00		123.14	112.71	113.79	117.84				10.43	9.35	5.30
214400.00		123.15	112.59	113.67	117.73				10.56	9.49	5.43
214300.00		123.51	112.47	113.55	117.61				11.03	9.96	5.90
214200.00		123.35	112.36	113.43	117.50				11.00	9.92	5.86
214100.00		123.55	112.24	113.31	117.38				11.31	10.24	6.17
214000.00		123.34	112.12	113.19	117.27				11.21	10.15	6.07
213900.00		123.36	112.01	113.07	117.15				11.35	10.28	6.20
213800.00		123.29	111.89	112.96	117.04				11.40	10.34	6.26
213700.00		122.90	111.77	112.84	116.92				11.13	10.07	5.98
213600.00		122.94	111.66	112.72	116.81				11.28	10.22	6.14
213500.00	122.63	122.65	111.54	112.60	116.69	11.09	10.03	5.94	11.11	10.05	5.96
213400.00		122.52	111.42	112.48	116.58				11.09	10.03	5.94
213300.00		122.48	111.31	112.36	116.46				11.17	10.12	6.02
213200.00		122.21	111.19	112.25	116.35				11.02	9.96	5.86
213100.00		122.09	111.07	112.13	116.23				11.02	9.96	5.86
213000.00	121.65	121.65	110.96	112.01	116.12	10.70	9.64	5.54	10.69	9.64	5.54
212900.00		121.68	110.86	111.91	116.02				10.82	9.77	5.66
212800.00		121.26	110.84	111.89	115.99				10.42	9.38	5.27
212700.00		121.26	110.81	111.86	115.96				10.45	9.40	5.30
212600.00		121.07	110.79	111.83	115.93				10.28	9.23	5.14
212500.00	121.14	121.18	110.76	111.81	115.90	10.38	9.33	5.24	10.42	9.38	5.28
212400.00		121.09	110.73	111.78	115.87				10.35	9.31	5.22
212300.00		121.07	110.71	111.75	115.84				10.36	9.32	5.23
212200.00		120.74	110.68	111.73	115.81				10.06	9.01	4.93
212100.00		120.76	110.66	111.70	115.78				10.11	9.06	4.98
212000.00	120.56	120.59	110.63	111.68	115.75	9.93	8.88	4.81	9.96	8.92	4.84
211900.00		120.81	110.60	111.65	115.72				10.21	9.16	5.09
211800.00		120.92	110.58	111.62	115.69				10.35	9.30	5.23
211700.00		121.04	110.55	111.60	115.66				10.48	9.44	5.38
211600.00		120.89	110.53	111.57	115.63				10.36	9.32	5.26
211500.00	120.88	121.04	110.50	111.54	115.60	10.38	9.33	5.28	10.54	9.50	5.44
211400.00		121.14	110.47	111.52	115.57				10.66	9.62	5.57
211300.00		121.09	110.45	111.49	115.54				10.64	9.59	5.55
211200.00		120.77	110.42	111.46	115.51				10.35	9.31	5.26
211100.00		120.79	110.39	111.44	115.48				10.40	9.36	5.32
211000.00	120.69	120.95	110.37	111.41	115.45	10.32	9.28	5.24	10.58	9.54	5.51
210900.00		120.90	110.34	111.39	115.42				10.55	9.51	5.48
210800.00		120.75	110.32	111.36	115.38				10.43	9.39	5.37
210700.00		120.61	110.29	111.33	115.35				10.32	9.28	5.26
210600.00		120.79	110.26	111.31	115.32				10.52	9.48	5.46
210500.00	120.88	121.21	110.24	111.28	115.29	10.64	9.60	5.59	10.97	9.93	5.92
210400.00		121.00	110.21	111.25	115.26				10.78	9.74	5.73
210300.00		120.81	110.19	111.23	115.23				10.62	9.58	5.57
210200.00		120.77	110.16	111.20	115.20				10.61	9.57	5.57
210100.00		120.65	110.12	111.16	115.16				10.53	9.49	5.49
210000.00	120.42	120.72	110.06	111.11	115.12	10.36	9.31	5.30	10.66	9.61	5.60
209900.00		120.60	110.01	111.06	115.07				10.59	9.54	5.53
209800.00		120.38	109.95	111.00	115.02				10.43	9.38	5.36
209700.00		120.25	109.90	110.95	114.97				10.35	9.30	5.27
209600.00		120.08	109.84	110.90	114.93				10.24	9.18	5.15
209500.00	119.70	119.98	109.77	110.83	114.87	9.92	8.86	4.83	10.21	9.15	5.11
209400.00		120.12	109.70	110.76	114.80				10.42	9.35	5.32
209300.00		120.60	109.62	110.69	114.73				10.98	9.91	5.87
209200.00		120.37	109.54	110.61	114.66				10.82	9.75	5.71
209100.00		119.76	109.47	110.54	114.59				10.30	9.22	5.18
209000.00	119.24	119.60	109.39	110.47	114.52	9.85	8.77	4.72	10.21	9.13	5.08
208900.00		119.60	109.32	110.39	114.45				10.29	9.21	5.15
208800.00		119.62	109.24	110.32	114.38				10.38	9.30	5.24
208700.00		119.61	109.16	110.25	114.31				10.45	9.37	5.30
208600.00		119.42	109.09	110.17	114.24				10.33	9.24	5.18
208500.00	118.97	119.24	109.01	110.10	114.17	9.96	8.87	4.80	10.23	9.14	5.07
208400.00		119.25	108.96	110.04	114.11				10.29	9.21	5.14
208300.00		118.98	108.91	109.99	114.05				10.07	8.99	4.93
208200.00		118.81	108.86	109.93	113.99				9.96	8.88	4.83
208100.00		118.69	108.80	109.88	113.93				9.88	8.81	4.76
208000.00	118.50	118.65	108.75	109.82	113.87	9.75	8.68	4.63	9.90	8.83	4.78
207900.00		118.69	108.70	109.77	113.81				9.98	8.92	4.88
207800.00		118.60	108.65	109.71	113.75				9.95	8.89	4.86
207700.00		118.60	108.60	109.66	113.69				10.00	8.94	4.91
207600.00		118.51	108.55	109.60	113.63				9.96	8.91	4.89
207500.00	118.20	118.37	108.50	109.54	113.57	9.70	8.65	4.63	9.87	8.83	4.80
207400.00		118.42	108.45	109.49	113.51				9.98	8.93	4.91
207300.00		118.30	108.39	109.43	113.45				9.90	8.87	4.85

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
207200.00		118.20	108.34	109.38	113.39				9.85	8.82	4.81
207100.00		117.86	108.29	109.32	113.33				9.56	8.54	4.53
207000.00	117.40	117.71	108.24	109.27	113.27	9.16	8.14	4.14	9.47	8.45	4.45
206900.00		117.85	108.19	109.21	113.21				9.66	8.64	4.64
206800.00		117.92	108.14	109.15	113.14				9.78	8.76	4.77
206700.00		117.75	108.09	109.10	113.08				9.66	8.65	4.66
206600.00		117.82	108.03	109.04	113.02				9.79	8.78	4.80
206500.00	117.99	117.95	107.98	108.99	112.96	10.01	9.00	5.03	9.96	8.96	4.98
206400.00		117.77	107.93	108.93	112.90				9.84	8.84	4.86
206300.00		117.72	107.88	108.88	112.84				9.84	8.84	4.88
206200.00		117.63	107.83	108.82	112.78				9.80	8.81	4.85
206100.00		117.88	107.78	108.76	112.72				10.10	9.11	5.16
206000.00	117.71	118.20	107.73	108.71	112.66	9.98	9.00	5.04	10.47	9.49	5.53
205900.00		118.00	107.68	108.65	112.60				10.32	9.34	5.40
205800.00		117.76	107.62	108.60	112.54				10.14	9.17	5.22
205700.00		117.81	107.57	108.54	112.48				10.24	9.27	5.33
205600.00		117.30	107.48	108.45	112.37				9.82	8.85	4.93
205500.00	116.95	117.20	107.40	108.36	112.26	9.56	8.59	4.69	9.80	8.84	4.94
205400.00		117.03	107.31	108.27	112.16				9.73	8.76	4.88
205300.00		116.97	107.22	108.18	112.05				9.75	8.79	4.92
205200.00		116.83	107.14	108.10	111.95				9.70	8.74	4.89
205100.00		116.59	107.05	108.01	111.84				9.54	8.58	4.74
205000.00	116.29	116.34	106.96	107.92	111.74	9.32	8.37	4.55	9.38	8.43	4.61
204900.00		116.53	106.88	107.83	111.63				9.65	8.70	4.90
204800.00		116.33	106.79	107.74	111.52				9.54	8.59	4.81
204700.00		116.04	106.70	107.65	111.42				9.34	8.39	4.63
204600.00		115.92	106.62	107.57	111.31				9.30	8.35	4.61
204500.00	115.85	115.97	106.53	107.48	111.21	9.32	8.38	4.65	9.44	8.50	4.77
204400.00		115.83	106.45	107.39	111.10				9.38	8.44	4.72
204300.00		115.68	106.36	107.30	111.00				9.32	8.38	4.68
204200.00		115.46	106.26	107.20	110.89				9.19	8.25	4.57
204100.00		115.46	106.16	107.10	110.78				9.30	8.36	4.68
204000.00	114.96	115.14	106.06	107.00	110.67	8.90	7.97	4.29	9.08	8.14	4.47
203900.00		115.12	105.96	106.90	110.57				9.16	8.23	4.56
203800.00		114.76	105.86	106.79	110.46				8.90	7.97	4.30
203700.00		114.48	105.76	106.69	110.35				8.72	7.79	4.13
203600.00		114.58	105.66	106.59	110.25				8.92	7.99	4.34
203500.00	114.06	114.30	105.56	106.49	110.14	8.50	7.57	3.92	8.75	7.82	4.17
203400.00		114.24	105.46	106.39	110.03				8.78	7.85	4.21
203300.00		114.33	105.36	106.28	109.92				8.97	8.05	4.41
203200.00		114.23	105.26	106.18	109.82				8.97	8.04	4.41
203100.00		113.96	105.16	106.08	109.71				8.80	7.88	4.25
203000.00	113.62	113.80	105.05	105.98	109.60	8.57	7.64	4.02	8.75	7.83	4.20
202900.00		113.87	104.95	105.88	109.49				8.91	7.99	4.37
202800.00		114.10	104.85	105.77	109.39				9.25	8.33	4.72
202700.00		114.02	104.77	105.69	109.29				9.25	8.33	4.73
202600.00		114.05	104.69	105.61	109.20				9.36	8.45	4.85
202500.00	113.34	113.68	104.62	105.53	109.12	8.72	7.81	4.22	9.06	8.15	4.56
202400.00		113.26	104.54	105.45	109.03				8.72	7.81	4.23
202300.00		113.73	104.47	105.38	108.94				9.27	8.36	4.79
202200.00		114.23	104.39	105.30	108.86				9.83	8.93	5.37
202100.00		114.18	104.32	105.22	108.77				9.86	8.96	5.41
202000.00	113.80	114.03	104.24	105.14	108.69	9.55	8.65	5.11	9.79	8.88	5.34
201900.00		114.13	104.17	105.07	108.60				9.97	9.07	5.53
201800.00		113.93	104.09	104.99	108.51				9.83	8.94	5.41
201700.00		113.60	104.02	104.91	108.43				9.58	8.69	5.17
201600.00		113.68	103.94	104.83	108.34				9.74	8.85	5.34
201500.00	113.48	113.74	103.87	104.76	108.25	9.61	8.72	5.22	9.88	8.99	5.49
201400.00		113.64	103.79	104.68	108.17				9.85	8.97	5.48
201300.00		113.43	103.72	104.60	108.08				9.71	8.83	5.35
201200.00		113.49	103.64	104.52	107.99				9.85	8.97	5.49
201100.00		113.34	103.60	104.47	107.94				9.75	8.87	5.40
201000.00	112.90	113.09	103.55	104.43	107.89	9.35	8.47	5.02	9.53	8.66	5.20
200900.00		113.20	103.51	104.39	107.83				9.68	8.81	5.36
200800.00		112.99	103.47	104.34	107.78				9.52	8.65	5.20
200700.00		113.30	103.43	104.30	107.73				9.87	9.00	5.57
200600.00		113.42	103.39	104.26	107.68				10.03	9.16	5.74
200500.00	113.50	113.61	103.35	104.21	107.63	10.15	9.29	5.87	10.26	9.40	5.98
200400.00		113.36	103.31	104.17	107.58				10.06	9.20	5.79
200300.00		112.99	103.27	104.13	107.53				9.72	8.86	5.46
200200.00		112.81	103.23	104.08	107.48				9.58	8.73	5.33
200100.00		112.98	103.19	104.04	107.43				9.79	8.94	5.55
200000.00	112.55	112.60	103.15	104.00	107.37	9.41	8.56	5.18	9.45	8.60	5.22
199900.00		112.38	103.10	103.95	107.32				9.27	8.43	5.06

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
199800.00		112.31	103.06	103.91	107.27				9.24	8.40	5.03
199700.00		112.33	103.02	103.87	107.22				9.31	8.47	5.11
199600.00		112.26	102.98	103.82	107.17				9.28	8.44	5.09
199500.00	112.07	112.12	102.95	103.79	107.13	9.11	8.27	4.93	9.17	8.33	4.99
199400.00		112.01	102.92	103.76	107.09				9.09	8.25	4.92
199300.00		112.05	102.89	103.73	107.05				9.15	8.32	4.99
199200.00		112.04	102.86	103.70	107.01				9.18	8.34	5.03
199100.00		111.92	102.83	103.66	106.97				9.09	8.25	4.95
199000.00	111.97	112.08	102.80	103.63	106.93	9.17	8.34	5.04	9.29	8.45	5.15
198900.00		111.67	102.77	103.60	106.89				8.90	8.07	4.78
198800.00		111.64	102.74	103.57	106.85				8.90	8.07	4.79
198700.00		111.60	102.65	103.49	106.79				8.94	8.11	4.81
198600.00		111.54	102.55	103.40	106.71				8.99	8.14	4.83
198500.00	111.43	111.51	102.45	103.31	106.64	8.98	8.12	4.79	9.06	8.20	4.87
198400.00		111.52	102.35	103.22	106.57				9.17	8.30	4.95
198300.00		111.50	102.25	103.13	106.49				9.25	8.38	5.01
198200.00		111.58	102.15	103.04	106.42				9.43	8.54	5.16
198100.00		111.13	102.05	102.95	106.35				9.08	8.19	4.79
198000.00	110.82	110.87	101.95	102.86	106.28	8.87	7.96	4.54	8.92	8.02	4.60
197900.00		110.74	101.85	102.77	106.20				8.90	7.98	4.54
197800.00		110.76	101.82	102.74	106.18				8.94	8.02	4.58
197700.00		110.59	101.81	102.73	106.17				8.78	7.86	4.42
197600.00		110.64	101.81	102.72	106.16				8.83	7.91	4.47
197500.00	110.58	110.66	101.80	102.71	106.15	8.78	7.86	4.43	8.86	7.94	4.50
197400.00		110.83	101.79	102.71	106.14				9.04	8.13	4.69
197300.00		110.60	101.78	102.70	106.13				8.82	7.90	4.47
197200.00		110.76	101.77	102.69	106.12				8.99	8.08	4.64
197100.00		110.78	101.76	102.68	106.11				9.02	8.11	4.67
197000.00		110.46	101.76	102.67	106.10				8.70	7.79	4.36
196900.00		110.53	101.75	102.66	106.09				8.79	7.88	4.44
196800.00		110.69	101.74	102.65	106.08				8.95	8.04	4.62
196700.00		110.78	101.73	102.64	106.07				9.04	8.14	4.71
196600.00		110.71	101.72	102.63	106.06				8.99	8.08	4.65
196500.00	110.39	110.39	101.71	102.62	106.05	8.67	7.77	4.34	8.68	7.77	4.34
196400.00		110.55	101.71	102.61	106.04				8.84	7.93	4.51
196300.00		110.58	101.70	102.60	106.03				8.89	7.98	4.56
196200.00		111.03	101.69	102.59	106.02				9.34	8.44	5.01
196100.00		110.40	101.68	102.58	106.01				8.72	7.82	4.40
196000.00	110.31	110.32	101.67	102.57	106.00	8.64	7.74	4.32	8.65	7.75	4.33
195900.00		110.74	101.66	102.57	105.99				9.07	8.17	4.75
195800.00		110.56	101.66	102.56	105.98				8.90	8.00	4.58
195700.00		110.37	101.65	102.55	105.97				8.72	7.82	4.40
195600.00		110.59	101.64	102.54	105.96				8.95	8.05	4.63
195500.00	110.55	110.55	101.64	102.54	105.95	8.92	8.02	4.60	8.91	8.01	4.60
195400.00		110.47	101.63	102.53	105.94				8.84	7.95	4.53
195300.00		110.49	101.62	102.52	105.94				8.87	7.97	4.55
195200.00		110.27	101.62	102.52	105.93				8.65	7.76	4.34
195100.00		110.23	101.61	102.51	105.92				8.62	7.72	4.31
195000.00	110.47	110.44	101.61	102.50	105.91	8.86	7.97	4.56	8.83	7.93	4.53
194900.00		110.38	101.60	102.50	105.90				8.78	7.88	4.47
194800.00		110.14	101.60	102.49	105.90				8.54	7.65	4.24
194700.00		109.96	101.59	102.49	105.89				8.37	7.48	4.07
194600.00		109.87	101.58	102.48	105.88				8.29	7.39	3.99
194500.00	109.88	110.07	101.58	102.47	105.87	8.30	7.41	4.01	8.49	7.60	4.20
194400.00		110.17	101.57	102.47	105.87				8.60	7.70	4.30
194300.00		109.89	101.57	102.46	105.86				8.32	7.43	4.03
194200.00		110.02	101.56	102.45	105.85				8.46	7.57	4.17
194100.00		109.75	101.56	102.45	105.84				8.19	7.30	3.90
194000.00	109.72	109.65	101.55	102.44	105.83	8.17	7.28	3.88	8.10	7.21	3.82
193900.00		109.72	101.54	102.44	105.83				8.18	7.29	3.90
193800.00		109.69	101.53	102.42	105.82				8.15	7.26	3.87
193700.00		109.65	101.50	102.39	105.79				8.15	7.26	3.86
193600.00		109.54	101.47	102.36	105.76				8.07	7.17	3.78
193500.00	109.36	109.41	101.44	102.33	105.73	7.92	7.02	3.62	7.98	7.08	3.68
193400.00		109.40	101.41	102.30	105.71				8.00	7.10	3.70
193300.00		109.25	101.37	102.27	105.68				7.87	6.97	3.57
193200.00		109.16	101.34	102.24	105.65				7.82	6.92	3.51
193100.00		109.10	101.31	102.21	105.63				7.79	6.88	3.47
193000.00	108.93	108.98	101.28	102.18	105.60	7.66	6.75	3.33	7.71	6.80	3.38
192900.00		108.86	101.24	102.15	105.57				7.62	6.71	3.29
192800.00		108.80	101.21	102.12	105.54				7.59	6.67	3.25
192700.00	108.73	108.79	101.18	102.09	105.52	7.55	6.64	3.22	7.61	6.69	3.27
192600.00		108.68	101.15	102.06	105.49				7.53	6.61	3.19
192500.00	108.60	108.61	101.11	102.03	105.46	7.49	6.57	3.14	7.49	6.57	3.15

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
192400.00	108.63	108.57	101.08	102.00	105.44	7.54	6.62	3.19	7.49	6.57	3.14
192300.00		108.56	101.05	101.97	105.41				7.51	6.59	3.15
192200.00		108.62	101.02	101.94	105.38				7.60	6.67	3.24
192100.00		108.70	100.98	101.91	105.35				7.72	6.79	3.35
192000.00	108.45	108.41	100.90	101.85	105.31	7.55	6.60	3.14	7.51	6.56	3.10
191900.00	108.24	108.33	100.81	101.78	105.26	7.43	6.46	2.97	7.52	6.55	3.07
191800.00		108.30	100.71	101.71	105.22				7.58	6.59	3.08
191700.00		108.31	100.62	101.64	105.17				7.68	6.67	3.14
191600.00		108.25	100.53	101.57	105.12				7.72	6.68	3.13
191500.00	108.22	108.17	100.44	101.50	105.07	7.78	6.72	3.14	7.73	6.67	3.09
191400.00		108.11	100.34	101.43	105.03				7.77	6.69	3.09
191300.00		107.81	100.25	101.35	104.98				7.56	6.46	2.83
191200.00		107.91	100.04	101.19	104.88				7.87	6.72	3.02
191100.00		107.87	99.79	101.00	104.78				8.08	6.88	3.10
191000.00	107.87	107.81	99.55	100.80	104.67	8.32	7.07	3.20	8.27	7.01	3.15
190900.00		107.91	99.30	100.61	104.56				8.61	7.30	3.35
190800.00		108.12	99.06	100.42	104.45				9.06	7.70	3.67
190700.00		108.18	98.83	100.24	104.35				9.35	7.95	3.83
190600.00		110.66	98.81	100.19	104.31				11.85	10.47	6.35
190500.00	108.02	108.25	98.79	100.14	104.26	9.23	7.88	3.76	9.46	8.11	3.99
190400.00		107.73	98.77	100.09	104.22				8.96	7.64	3.51
190300.00	107.30	107.05	98.74	100.04	104.18	8.56	7.26	3.12	8.31	7.01	2.88
190200.00		111.48	98.67	99.92	104.01				12.81	11.56	7.47
190100.00		106.90	98.66	99.89	103.91				8.24	7.01	2.99
190000.00	106.15	106.35	98.62	99.83	103.85	7.53	6.32	2.30	7.74	6.52	2.50
189900.00		106.66	98.57	99.77	103.79				8.08	6.88	2.87
189800.00		106.94	98.53	99.71	103.73				8.41	7.23	3.21
189700.00		107.16	98.49	99.65	103.67				8.67	7.50	3.49
189600.00		107.09	98.44	99.60	103.61				8.65	7.49	3.48
189500.00		107.01	98.40	99.54	103.55				8.61	7.47	3.46
189400.00		106.54	98.36	99.48	103.49				8.18	7.06	3.05
189300.00		106.36	98.31	99.42	103.43				8.05	6.94	2.93
189200.00		106.17	98.27	99.36	103.37				7.90	6.81	2.80
189100.00		105.81	98.22	99.30	103.31				7.59	6.51	2.51
189000.00	105.56	105.74	98.18	99.24	103.25	7.38	6.32	2.32	7.55	6.49	2.49
188900.00		106.00	98.14	99.18	103.19				7.87	6.82	2.82
188800.00		106.40	98.09	99.12	103.13				8.31	7.27	3.27
188700.00		106.20	98.05	99.07	103.07				8.15	7.13	3.13
188600.00		106.49	98.01	99.01	103.01				8.48	7.48	3.48
188500.00	106.01	105.98	97.96	98.95	102.95	8.05	7.06	3.06	8.02	7.03	3.03
188400.00		106.02	97.86	98.84	102.85				8.16	7.17	3.17
188300.00		105.82	97.73	98.72	102.74				8.09	7.10	3.08
188200.00		105.83	97.60	98.60	102.63				8.23	7.23	3.20
188100.00		105.86	97.47	98.48	102.52				8.39	7.38	3.34
188000.00	105.65	105.60	97.34	98.36	102.41	8.31	7.29	3.24	8.26	7.25	3.20
187900.00		105.52	97.21	98.23	102.30				8.31	7.29	3.22
187800.00		105.52	97.09	98.12	102.19				8.44	7.41	3.34
187700.00		105.52	96.99	98.02	102.09				8.53	7.50	3.43
187600.00		105.75	96.89	97.92	102.00				8.86	7.83	3.75
187500.00	105.55	105.59	96.79	97.82	101.91	8.75	7.73	3.64	8.80	7.78	3.69
187400.00		105.61	96.69	97.72	101.81				8.92	7.89	3.80
187300.00		105.46	96.59	97.62	101.72				8.86	7.84	3.74
187200.00		105.45	96.49	97.52	101.62				8.95	7.93	3.82
187100.00		105.45	96.39	97.42	101.53				9.05	8.03	3.92
187000.00	105.37	105.36	96.29	97.32	101.44	9.08	8.05	3.93	9.07	8.04	3.92
186900.00		105.07	96.20	97.22	101.34				8.87	7.85	3.72
186800.00		105.04	96.10	97.12	101.25				8.95	7.92	3.79
186700.00		104.86	96.00	97.02	101.16				8.86	7.84	3.71
186600.00		104.73	95.92	96.94	101.08				8.81	7.79	3.65
186500.00	104.81	104.86	95.86	96.88	101.03	8.95	7.93	3.78	9.00	7.98	3.83
186400.00		104.62	95.80	96.82	100.97				8.82	7.81	3.65
186300.00		104.66	95.74	96.75	100.92				8.92	7.91	3.74
186200.00		104.57	95.68	96.69	100.86				8.89	7.88	3.71
186100.00		104.41	95.61	96.63	100.80				8.80	7.78	3.61
186000.00	104.20	104.22	95.55	96.57	100.75	8.65	7.63	3.45	8.67	7.65	3.47
185900.00		104.27	95.49	96.51	100.69				8.78	7.77	3.58
185800.00	104.07	104.15	95.43	96.44	100.63	8.64	7.63	3.44	8.72	7.71	3.52
185700.00		104.36	95.37	96.38	100.58				8.99	7.98	3.78
185600.00		104.32	95.31	96.32	100.52				9.02	8.00	3.80
185500.00	103.91	104.13	95.25	96.26	100.47	8.66	7.65	3.44	8.89	7.87	3.67
185400.00		104.53	95.19	96.20	100.41				9.35	8.34	4.12
185300.00	103.87	103.93	95.12	96.13	100.35	8.74	7.73	3.51	8.80	7.79	3.57
185200.00		103.99	95.07	96.08	100.30				8.92	7.91	3.69
185100.00		103.82	95.02	96.02	100.24				8.80	7.80	3.58

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
185000.00	103.46	103.79	94.97	95.97	100.18	8.50	7.49	3.28	8.82	7.82	3.60
184900.00		103.56	94.92	95.92	100.13				8.65	7.65	3.43
184800.00		103.15	94.86	95.86	100.07				8.29	7.29	3.08
184700.00		103.68	94.81	95.81	100.02				8.86	7.87	3.66
184600.00		103.52	94.76	95.75	99.96				8.76	7.77	3.56
184500.00	103.26	103.66	94.71	95.70	99.90	8.56	7.57	3.36	8.95	7.96	3.76
184400.00		103.65	94.66	95.64	99.85				9.00	8.01	3.80
184300.00		103.72	94.60	95.59	99.79				9.12	8.13	3.93
184200.00		103.64	94.55	95.53	99.73				9.09	8.10	3.90
184100.00		103.59	94.50	95.48	99.68				9.09	8.11	3.91
184000.00	103.25	103.80	94.43	95.42	99.63	8.82	7.84	3.62	9.36	8.38	4.17
183900.00		103.79	94.37	95.35	99.58				9.42	8.44	4.21
183800.00		104.02	94.31	95.29	99.53				9.71	8.72	4.48
183700.00		104.20	94.25	95.23	99.48				9.96	8.97	4.72
183600.00		103.34	94.18	95.17	99.43				9.15	8.17	3.91
183500.00	102.23	102.90	94.12	95.11	99.38	8.11	7.12	2.85	8.78	7.79	3.52
183400.00		102.78	94.07	95.06	99.34				8.71	7.72	3.44
183300.00		102.67	94.01	95.00	99.29				8.66	7.67	3.38
183200.00		102.61	93.95	94.95	99.25				8.66	7.66	3.36
183100.00		102.63	93.89	94.89	99.20				8.74	7.74	3.43
183000.00	102.66	103.16	93.81	94.81	99.13	8.85	7.84	3.53	9.35	8.35	4.03
182900.00		102.75	93.70	94.70	99.04				9.05	8.05	3.71
182800.00		102.29	93.59	94.60	98.95				8.70	7.69	3.34
182700.00		102.23	93.53	94.54	98.90				8.70	7.69	3.33
182600.00		102.04	93.51	94.52	98.88				8.53	7.52	3.16
182500.00	101.91	102.31	93.49	94.49	98.85	8.42	7.41	3.05	8.83	7.82	3.46
182400.00		101.80	93.47	94.47	98.83				8.33	7.32	2.96
182300.00		101.69	93.44	94.45	98.81				8.24	7.24	2.88
182200.00	101.51	101.78	93.42	94.43	98.79	8.09	7.08	2.72	8.36	7.35	2.99
182100.00		102.22	93.40	94.41	98.77				8.81	7.81	3.45
182000.00	101.91	102.16	93.38	94.38	98.74	8.53	7.52	3.16	8.78	7.78	3.42
181900.00		101.83	93.36	94.36	98.72				8.47	7.47	3.11
181800.00		101.61	93.34	94.34	98.70				8.27	7.27	2.91
181700.00		101.59	93.32	94.32	98.68				8.28	7.28	2.92
181600.00		102.09	93.29	94.29	98.66				8.79	7.79	3.43
181500.00	101.57	101.85	93.27	94.27	98.63	8.30	7.30	2.93	8.58	7.58	3.22
181400.00		101.88	93.25	94.25	98.61				8.63	7.63	3.27
181300.00		101.40	93.22	94.22	98.59				8.17	7.17	2.81
181200.00		101.41	93.20	94.20	98.57				8.21	7.21	2.85
181100.00		101.55	93.18	94.18	98.54				8.37	7.37	3.01
181000.00		101.61	93.16	94.16	98.52				8.46	7.46	3.09
180900.00		101.37	93.13	94.13	98.50				8.24	7.24	2.87
180800.00		101.47	93.11	94.11	98.48				8.36	7.36	3.00
180700.00		101.65	93.09	94.09	98.45				8.56	7.56	3.19
180600.00		101.57	93.06	94.06	98.43				8.51	7.51	3.14
180500.00		101.39	93.04	94.04	98.41				8.35	7.35	2.98
180400.00		100.91	93.01	94.01	98.38				7.90	6.90	2.52
180300.00		100.91	92.98	93.98	98.35				7.93	6.93	2.55
180200.00		100.70	92.95	93.95	98.32				7.75	6.75	2.38
180100.00		100.72	92.91	93.91	98.29				7.81	6.81	2.43
180000.00		100.75	92.88	93.88	98.26				7.87	6.87	2.49
179900.00		100.64	92.85	93.85	98.23				7.80	6.80	2.42
179800.00		100.59	92.81	93.81	98.20				7.78	6.78	2.39
179700.00		100.51	92.78	93.78	98.16				7.73	6.73	2.34
179600.00		100.32	92.75	93.75	98.13				7.58	6.58	2.19
179500.00		100.10	92.71	93.71	98.10				7.39	6.39	2.00
179400.00		100.06	92.62	93.62	98.04				7.44	6.44	2.03
179300.00		99.93	92.50	93.50	97.95				7.43	6.43	1.98
179200.00		99.90	92.37	93.37	97.86				7.53	6.53	2.04
179100.00		99.96	92.26	93.26	97.78				7.70	6.70	2.18
179000.00		99.93	92.22	93.22	97.75				7.72	6.71	2.18
178900.00		100.38	92.18	93.18	97.73				8.21	7.20	2.66
178800.00		100.35	92.14	93.14	97.70				8.21	7.21	2.65
178700.00		100.08	92.10	93.10	97.67				7.98	6.97	2.41
178600.00		100.12	92.06	93.07	97.65				8.06	7.05	2.47
178500.00		100.20	92.02	93.03	97.62				8.18	7.17	2.58
178400.00		100.25	91.98	92.99	97.59				8.27	7.26	2.66
178300.00		100.32	91.94	92.95	97.57				8.38	7.37	2.75
178200.00		100.48	91.90	92.91	97.54				8.58	7.57	2.94
178100.00		100.35	91.86	92.87	97.52				8.49	7.47	2.83
178000.00		100.28	91.82	92.84	97.49				8.46	7.44	2.79
177900.00		100.39	91.78	92.80	97.46				8.60	7.59	2.92
177800.00		100.53	91.74	92.76	97.44				8.78	7.76	3.09
177700.00		100.24	91.70	92.72	97.41				8.54	7.52	2.83

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
177600.00		100.36	91.66	92.68	97.38				8.70	7.68	2.98
177500.00		100.40	91.62	92.65	97.36				8.78	7.76	3.04
177400.00		100.44	91.58	92.61	97.33				8.86	7.83	3.11
177300.00		100.45	91.54	92.57	97.31				8.90	7.88	3.14
177200.00		100.25	91.51	92.53	97.28				8.75	7.72	2.97
177100.00		100.16	91.47	92.49	97.25				8.70	7.67	2.91
177000.00		100.15	91.43	92.46	97.23				8.73	7.70	2.93
176900.00		100.33	91.38	92.41	97.20				8.95	7.92	3.13
176800.00		100.24	91.32	92.36	97.17				8.92	7.88	3.07
176700.00		100.22	91.26	92.31	97.14				8.96	7.92	3.08
176600.00		100.10	91.21	92.25	97.11				8.90	7.85	2.99
176500.00	99.85	100.21	91.15	92.20	97.08	8.70	7.65	2.76	9.06	8.01	3.12
176400.00	99.46	99.85	91.09	92.15	97.06	8.37	7.32	2.41	8.76	7.70	2.80
176300.00		99.38	91.03	92.10	97.03				8.35	7.28	2.35
176200.00		99.30	90.97	92.04	97.00				8.33	7.26	2.30
176100.00		99.21	90.92	91.99	96.97				8.29	7.22	2.24
176000.00	99.09	99.28	90.86	91.94	96.94	8.23	7.15	2.15	8.42	7.34	2.34
175900.00		99.15	90.82	91.90	96.92				8.33	7.25	2.23
175800.00		98.95	90.79	91.87	96.89				8.16	7.08	2.05
175700.00		98.92	90.76	91.84	96.87				8.16	7.08	2.05
175600.00		98.68	90.72	91.81	96.85				7.96	6.87	1.83
175500.00	98.52	98.80	90.69	91.78	96.83	7.83	6.74	1.69	8.11	7.02	1.97
175400.00		98.74	90.66	91.75	96.81				8.08	6.99	1.94
175300.00		99.04	90.63	91.72	96.79				8.41	7.32	2.25
175200.00		99.05	90.60	91.69	96.77				8.45	7.35	2.28
175100.00		98.91	90.57	91.66	96.74				8.35	7.25	2.17
175000.00	98.36	98.70	90.53	91.63	96.72	7.82	6.72	1.64	8.17	7.06	1.98
174900.00		98.67	90.50	91.61	96.70				8.16	7.06	1.97
174800.00		98.89	90.47	91.58	96.68				8.42	7.32	2.21
174700.00	98.37	98.75	90.44	91.55	96.66	7.93	6.83	1.71	8.31	7.20	2.09
174600.00		98.73	90.41	91.52	96.64				8.33	7.22	2.10
174500.00	98.19	98.72	90.38	91.49	96.62	7.81	6.70	1.57	8.34	7.23	2.10
174400.00		98.25	90.34	91.46	96.59				7.91	6.79	1.66
174300.00		98.22	90.31	91.43	96.57				7.90	6.79	1.64
174200.00		98.02	90.28	91.40	96.55				7.74	6.62	1.47
174100.00		97.88	90.25	91.37	96.53				7.63	6.51	1.35
174000.00	97.57	97.87	90.22	91.34	96.51	7.35	6.23	1.06	7.65	6.53	1.36
173900.00		97.76	90.19	91.31	96.49				7.58	6.45	1.27
173800.00		97.86	90.16	91.28	96.47				7.71	6.58	1.39
173700.00		97.57	90.13	91.25	96.45				7.44	6.32	1.12
173600.00		97.71	90.10	91.22	96.43				7.62	6.49	1.28
173500.00	97.28	97.65	90.07	91.19	96.41	7.22	6.09	0.87	7.58	6.45	1.23
173400.00		97.77	90.04	91.17	96.39				7.73	6.60	1.38
173300.00		97.30	89.99	91.12	96.36				7.31	6.18	0.94
173200.00		97.24	89.92	91.05	96.33				7.32	6.19	0.91
173100.00		97.30	89.86	90.98	96.29				7.44	6.32	1.01
173000.00	97.26	97.48	89.79	90.90	96.25	7.46	6.35	1.00	7.69	6.57	1.22
172900.00		97.56	89.73	90.83	96.22				7.83	6.72	1.34
172800.00		97.27	89.66	90.76	96.18				7.61	6.51	1.09
172700.00		97.23	89.59	90.69	96.14				7.63	6.53	1.08
172600.00		97.13	89.53	90.62	96.11				7.60	6.51	1.02
172500.00	96.60	96.92	89.46	90.55	96.07	7.14	6.05	0.53	7.46	6.37	0.85
172400.00	96.55	97.01	89.42	90.51	96.05	7.13	6.05	0.50	7.60	6.51	0.97
172300.00		96.71	89.38	90.46	96.02				7.34	6.25	0.69
172200.00		97.00	89.34	90.41	96.00				7.66	6.58	1.00
172100.00		96.94	89.30	90.37	95.97				7.65	6.57	0.97
172000.00	96.72	97.19	89.26	90.32	95.95	7.47	6.40	0.77	7.94	6.87	1.24
171900.00		97.16	89.21	90.28	95.93				7.95	6.88	1.24
171800.00		97.14	89.17	90.23	95.90				7.96	6.90	1.23
171700.00		97.24	89.17	90.23	95.90				8.07	7.01	1.34
171600.00		97.20	89.17	90.23	95.90				8.03	6.97	1.30
171500.00	96.68	97.13	89.17	90.23	95.90	7.51	6.45	0.78	7.96	6.90	1.23
171400.00		96.95	89.13	90.19	95.87				7.81	6.75	1.08
171300.00		96.99	89.07	90.13	95.81				7.92	6.86	1.18
171200.00		96.90	89.01	90.07	95.74				7.90	6.84	1.16
171100.00		97.09	88.95	90.01	95.69				8.14	7.08	1.40
171000.00	96.70	97.00	88.91	89.97	95.65	7.79	6.73	1.05	8.10	7.03	1.35
170900.00		97.01	88.87	89.94	95.61				8.14	7.07	1.39
170800.00		96.98	88.83	89.90	95.58				8.15	7.08	1.40
170700.00		96.72	88.79	89.86	95.54				7.93	6.85	1.18
170600.00		96.95	88.75	89.83	95.50				8.20	7.12	1.45
170500.00	96.63	96.94	88.71	89.79	95.46	7.92	6.84	1.16	8.23	7.15	1.48
170400.00		97.05	88.67	89.75	95.43				8.38	7.29	1.61
170300.00		97.05	88.63	89.72	95.40				8.42	7.33	1.65

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
170200.00		97.09	88.59	89.68	95.36				8.50	7.41	1.73
170100.00		97.08	88.55	89.64	95.33				8.53	7.43	1.74
170000.00	96.86	97.26	88.51	89.60	95.30	8.36	7.26	1.56	8.75	7.66	1.96
169900.00		97.31	88.46	89.57	95.27				8.85	7.74	2.04
169800.00		97.36	88.42	89.53	95.23				8.93	7.83	2.12
169700.00		97.30	88.38	89.49	95.20				8.92	7.81	2.10
169600.00		97.16	88.34	89.45	95.17				8.82	7.71	1.99
169500.00	97.14	97.11	88.30	89.41	95.14	8.84	7.73	2.00	8.81	7.69	1.97
169400.00		96.63	88.26	89.38	95.10				8.37	7.26	1.53
169300.00		96.48	88.22	89.34	95.07				8.26	7.14	1.41
169200.00		96.42	88.20	89.32	95.05				8.22	7.10	1.37
169100.00		96.54	88.17	89.29	95.03				8.37	7.25	1.51
169000.00	96.98	96.32	88.15	89.27	95.01	8.84	7.71	1.97	8.17	7.05	1.31
168900.00		97.09	88.12	89.24	94.99				8.97	7.84	2.10
168800.00		96.92	88.09	89.22	94.97				8.83	7.70	1.96
168700.00		96.97	88.07	89.20	94.94				8.90	7.78	2.03
168600.00		96.96	88.04	89.17	94.92				8.91	7.78	2.03
168500.00	96.80	96.84	88.02	89.15	94.90	8.78	7.65	1.90	8.82	7.69	1.94
168400.00		96.65	87.99	89.12	94.88				8.66	7.53	1.77
168300.00		96.77	87.97	89.10	94.86				8.80	7.67	1.91
168200.00		96.94	87.96	89.09	94.85				8.98	7.85	2.09
168100.00		96.64	87.94	89.08	94.84				8.69	7.56	1.80
168000.00	96.55	96.59	87.93	89.06	94.82	8.62	7.49	1.73	8.65	7.52	1.76
167900.00		96.36	87.92	89.05	94.81				8.44	7.31	1.55
167800.00		96.54	87.91	89.04	94.80				8.63	7.49	1.73
167700.00		96.23	87.90	89.03	94.79				8.34	7.20	1.44
167600.00		96.04	87.88	89.02	94.78				8.16	7.03	1.27
167500.00	96.17	96.24	87.87	89.01	94.77	8.30	7.16	1.40	8.37	7.24	1.48
167400.00		96.00	87.86	88.99	94.75				8.14	7.01	1.25
167300.00		95.82	87.85	88.98	94.74				7.97	6.83	1.07
167200.00		95.55	87.83	88.97	94.73				7.72	6.58	0.82
167100.00		95.38	87.82	88.96	94.72				7.56	6.42	0.66
167000.00		95.21	87.81	88.95	94.71				7.40	6.26	0.50
166900.00		95.37	87.80	88.94	94.70				7.57	6.43	0.67
166800.00		95.00	87.78	88.92	94.68				7.23	6.08	0.32
166700.00		95.14	87.76	88.90	94.66				7.38	6.24	0.48
166600.00		95.25	87.74	88.89	94.65				7.52	6.37	0.61
166500.00		95.43	87.72	88.87	94.63				7.71	6.56	0.80
166400.00		95.14	87.70	88.85	94.61				7.44	6.28	0.52
166300.00		95.03	87.68	88.84	94.60				7.35	6.19	0.43
166200.00		95.08	87.66	88.82	94.58				7.42	6.26	0.50
166100.00		95.15	87.64	88.80	94.56				7.51	6.35	0.59
166000.00		95.01	87.62	88.79	94.55				7.39	6.22	0.46
165900.00		95.14	87.60	88.77	94.53				7.54	6.37	0.61
165800.00		95.04	87.58	88.75	94.51				7.46	6.29	0.53
165700.00		95.05	87.57	88.74	94.50				7.48	6.31	0.55
165600.00		94.74	87.55	88.72	94.48				7.19	6.02	0.26
165500.00		94.62	87.53	88.70	94.46				7.09	5.92	0.16
165400.00		94.98	87.51	88.68	94.44				7.47	6.30	0.54
165300.00		95.00	87.50	88.67	94.43				7.50	6.33	0.57
165200.00		95.29	87.48	88.65	94.41				7.81	6.64	0.88
165100.00		94.88	87.46	88.63	94.39				7.42	6.25	0.49
165000.00		94.85	87.45	88.62	94.38				7.40	6.23	0.47
164900.00		95.06	87.43	88.60	94.36				7.63	6.46	0.70
164800.00		95.09	87.41	88.58	94.34				7.68	6.51	0.75
164700.00		95.00	87.40	88.57	94.33				7.61	6.44	0.68
164600.00		95.05	87.38	88.55	94.31				7.67	6.50	0.74
164500.00		95.10	87.37	88.54	94.30				7.73	6.56	0.80
164400.00		95.07	87.36	88.53	94.29				7.71	6.54	0.78
164300.00		95.19	87.34	88.51	94.27				7.85	6.68	0.92
164200.00		94.97	87.33	88.50	94.26				7.64	6.47	0.71
164100.00		94.85	87.31	88.49	94.25				7.53	6.36	0.60
164000.00		94.96	87.30	88.48	94.24				7.66	6.48	0.72
163900.00		94.89	87.29	88.46	94.22				7.60	6.42	0.66
163800.00		94.91	87.27	88.45	94.21				7.64	6.46	0.70
163700.00		94.98	87.26	88.44	94.20				7.72	6.55	0.79
163600.00		95.08	87.25	88.42	94.18				7.83	6.66	0.90
163500.00		95.09	87.23	88.41	94.17				7.86	6.68	0.92
163400.00		95.05	87.22	88.40	94.16				7.83	6.65	0.89
163300.00		95.04	87.21	88.39	94.15				7.83	6.65	0.89
163200.00		94.96	87.20	88.38	94.14				7.76	6.58	0.82
163100.00		94.95	87.19	88.37	94.13				7.76	6.58	0.82
163000.00		95.00	87.19	88.37	94.13				7.82	6.63	0.88
162900.00		94.89	87.18	88.37	94.12				7.71	6.53	0.77

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
162800.00		94.76	87.18	88.36	94.12				7.58	6.40	0.64
162700.00		94.85	87.18	88.36	94.12				7.67	6.49	0.73
162600.00		94.73	87.17	88.35	94.11				7.56	6.37	0.62
162500.00		94.77	87.17	88.35	94.11				7.60	6.42	0.66
162400.00		94.94	87.16	88.35	94.10				7.77	6.59	0.83
162300.00		94.72	87.16	88.34	94.10				7.56	6.38	0.62
162200.00		94.93	87.15	88.34	94.09				7.78	6.59	0.84
162100.00		94.72	87.15	88.33	94.09				7.57	6.39	0.63
162000.00	94.12	94.43	87.14	88.33	94.08	6.98	5.79	0.04	7.28	6.09	0.34
161900.00		94.33	87.14	88.33	94.08				7.19	6.00	0.25
161800.00		94.73	87.14	88.32	94.08				7.60	6.41	0.66
161700.00		94.28	87.13	88.32	94.07				7.15	5.96	0.21
161600.00		94.40	87.13	88.32	94.07				7.28	6.09	0.34
161500.00	94.21	94.54	87.12	88.31	94.06	7.09	5.90	0.15	7.42	6.23	0.48
161400.00		94.38	87.12	88.31	94.06				7.26	6.07	0.32
161300.00		94.49	87.11	88.30	94.05				7.37	6.18	0.43
161200.00	94.05	94.21	87.11	88.30	94.05	6.94	5.75	0.00	7.10	5.91	0.16
161100.00		94.10	87.09	88.28	94.03				7.01	5.82	0.07
161000.00	94.00	94.32	87.08	88.27	94.02	6.92	5.73	-0.02	7.23	6.04	0.29
160900.00		94.14	87.07	88.26	94.01				7.07	5.88	0.13
160800.00		94.34	87.05	88.24	93.99				7.28	6.09	0.34
160700.00	93.90	94.09	87.04	88.23	93.98	6.86	5.67	-0.08	7.05	5.86	0.11
160600.00		93.99	87.03	88.22	93.97				6.96	5.77	0.02
160500.00	93.72	93.93	87.01	88.20	93.95	6.70	5.51	-0.24	6.91	5.72	-0.03
160400.00		94.10	87.00	88.19	93.94				7.09	5.90	0.15
160300.00		94.10	86.99	88.18	93.93				7.11	5.92	0.17
160200.00		94.18	86.97	88.16	93.91				7.21	6.02	0.27
160100.00		94.22	86.96	88.15	93.90				7.26	6.07	0.32
160000.00	93.79	94.00	86.94	88.13	93.88	6.85	5.66	-0.09	7.07	5.88	0.13
159900.00		93.99	86.91	88.10	93.85				7.09	5.89	0.14
159800.00		94.28	86.88	88.07	93.82				7.40	6.21	0.46
159700.00		93.93	86.85	88.05	93.80				7.08	5.88	0.13
159600.00		93.88	86.82	88.02	93.77				7.06	5.86	0.11
159500.00	93.74	93.81	86.79	87.99	93.74	6.95	5.75	0.00	7.02	5.82	0.07
159400.00		93.93	86.77	87.96	93.71				7.17	5.97	0.22
159300.00		93.96	86.73	87.93	93.69				7.22	6.02	0.27
159200.00		93.67	86.68	87.89	93.64				7.00	5.79	0.03
159100.00		93.63	86.62	87.84	93.60				7.01	5.79	0.02
159000.00	93.40	93.53	86.56	87.79	93.56	6.83	5.61	-0.16	6.97	5.75	-0.03
158900.00		93.44	86.51	87.74	93.52				6.94	5.71	-0.08
158800.00		93.45	86.45	87.69	93.48				7.00	5.76	-0.03
158700.00		93.47	86.39	87.64	93.44				7.08	5.83	0.03
158600.00		93.77	86.34	87.59	93.40				7.43	6.18	0.37
158500.00	93.54	93.76	86.28	87.54	93.35	7.26	6.00	0.18	7.48	6.22	0.40
158400.00	93.75	94.08	86.22	87.49	93.31	7.52	6.25	0.43	7.86	6.59	0.77
158300.00		93.89	86.17	87.44	93.27				7.73	6.45	0.62
158200.00		93.51	86.12	87.40	93.24				7.39	6.11	0.27
158100.00		93.32	86.08	87.37	93.21				7.23	5.95	0.11
158000.00	92.83	93.08	86.04	87.33	93.18	6.79	5.50	-0.35	7.04	5.75	-0.10
157900.00		93.17	86.00	87.29	93.15				7.17	5.88	0.02
157800.00		93.19	85.96	87.25	93.12				7.23	5.93	0.07
157700.00		93.26	85.92	87.22	93.09				7.34	6.04	0.17
157600.00		93.19	85.88	87.18	93.07				7.32	6.01	0.13
157500.00	92.94	93.06	85.83	87.14	93.05	7.11	5.80	-0.12	7.23	5.92	0.01
157400.00		93.23	85.78	87.10	93.04				7.45	6.13	0.19
157300.00		93.36	85.73	87.05	93.02				7.63	6.31	0.34
157200.00		93.19	85.67	87.01	92.99				7.52	6.19	0.20
157100.00		93.07	85.62	86.96	92.97				7.45	6.11	0.10
157000.00	92.91	93.17	85.56	86.90	92.94	7.36	6.01	-0.03	7.62	6.27	0.23
156900.00		93.28	85.50	86.85	92.92				7.79	6.43	0.36
156800.00		93.31	85.43	86.80	92.90				7.88	6.51	0.42
156700.00		93.10	85.37	86.75	92.87				7.73	6.35	0.23
156600.00		93.23	85.31	86.69	92.85				7.92	6.54	0.39
156500.00	92.77	93.18	85.27	86.66	92.83	7.50	6.11	-0.06	7.92	6.53	0.36
156400.00		92.94	85.23	86.63	92.80				7.70	6.31	0.13
156300.00		92.94	85.20	86.60	92.77				7.74	6.34	0.17
156200.00		92.72	85.19	86.59	92.76				7.54	6.14	-0.03
156100.00		92.75	85.18	86.58	92.75				7.57	6.16	-0.01
156000.00	92.78	93.03	85.18	86.58	92.75	7.60	6.20	0.03	7.86	6.46	0.28
155900.00		92.78	85.17	86.57	92.75				7.61	6.21	0.04
155800.00		92.68	85.16	86.57	92.74				7.52	6.11	-0.06
155700.00		92.94	85.16	86.56	92.74				7.78	6.38	0.20
155600.00		92.95	85.15	86.56	92.74				7.80	6.39	0.22
155500.00	92.80	92.97	85.15	86.55	92.73	7.65	6.25	0.07	7.82	6.41	0.23

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
155400.00		92.84	85.14	86.55	92.73				7.70	6.29	0.11
155300.00		92.86	85.14	86.54	92.73				7.73	6.32	0.14
155200.00		92.77	85.13	86.54	92.72				7.64	6.23	0.05
155100.00		92.79	85.13	86.53	92.72				7.66	6.25	0.07
155000.00	92.51	92.81	85.12	86.53	92.71	7.39	5.98	-0.20	7.69	6.28	0.09
154900.00		92.69	85.11	86.52	92.71				7.58	6.17	-0.02
154800.00		92.68	85.11	86.52	92.71				7.57	6.16	-0.03
154700.00		92.74	85.10	86.52	92.70				7.64	6.23	0.04
154600.00		92.55	85.10	86.51	92.70				7.45	6.04	-0.15
154500.00	92.22	92.61	85.09	86.51	92.70	7.13	5.72	-0.47	7.52	6.11	-0.08
154400.00		92.64	85.09	86.50	92.69				7.56	6.14	-0.05
154300.00		92.86	85.08	86.50	92.69				7.78	6.37	0.18
154200.00		92.56	85.07	86.49	92.69				7.48	6.07	-0.13
154100.00		92.62	85.07	86.49	92.68				7.55	6.14	-0.06
154000.00	92.34	92.58	85.06	86.48	92.68	7.28	5.86	-0.34	7.51	6.09	-0.10
153900.00		92.43	85.06	86.48	92.67				7.37	5.95	-0.24
153800.00		92.65	85.05	86.47	92.67				7.59	6.17	-0.03
153700.00		92.44	85.03	86.45	92.65				7.42	6.00	-0.21
153600.00	92.40	92.55	84.99	86.42	92.62	7.41	5.99	-0.22	7.56	6.14	-0.07
153500.00	92.28	92.38	84.96	86.39	92.59	7.32	5.89	-0.31	7.43	6.00	-0.21
153400.00		92.29	84.92	86.35	92.56				7.37	5.94	-0.27
153300.00	91.77	92.03	84.88	86.32	92.53	6.88	5.44	-0.76	7.14	5.71	-0.50
153200.00		92.20	84.85	86.29	92.50				7.35	5.91	-0.30
153100.00		92.33	84.75	86.20	92.43				7.58	6.13	-0.10
153000.00	92.06	92.25	84.65	86.11	92.35	7.42	5.96	-0.29	7.60	6.14	-0.10
152900.00		92.03	84.56	86.03	92.29				7.48	6.00	-0.26
152800.00		91.99	84.53	86.00	92.27				7.46	5.98	-0.29
152700.00		91.89	84.50	85.98	92.26				7.39	5.91	-0.37
152600.00		92.01	84.44	85.92	92.22				7.57	6.09	-0.21
152500.00	92.02	92.01	84.37	85.86	92.17	7.65	6.16	-0.15	7.64	6.15	-0.16
152400.00		91.97	84.31	85.80	92.13				7.66	6.17	-0.16
152300.00		92.12	84.26	85.76	92.09				7.86	6.36	0.02
152200.00		91.85	84.24	85.74	92.08				7.61	6.10	-0.23
152100.00		92.08	84.21	85.73	92.06				7.87	6.35	0.02
152000.00	91.48	91.51	84.19	85.71	92.04	7.28	5.77	-0.57	7.32	5.80	-0.54
151900.00		91.30	84.17	85.69	92.03				7.13	5.61	-0.73
151800.00		91.40	84.15	85.67	92.02				7.25	5.73	-0.62
151700.00		91.58	84.13	85.65	92.00				7.45	5.92	-0.43
151600.00		91.70	84.11	85.64	91.99				7.59	6.06	-0.29
151500.00	91.52	91.65	84.09	85.62	91.98	7.43	5.90	-0.46	7.57	6.04	-0.33
151400.00		91.81	84.07	85.60	91.97				7.75	6.21	-0.16
151300.00		91.94	84.04	85.58	91.96				7.90	6.36	-0.01
151200.00		91.57	84.02	85.57	91.94				7.54	6.00	-0.38
151100.00		91.49	84.00	85.55	91.93				7.49	5.94	-0.44
151000.00	91.48	91.56	83.98	85.53	91.92	7.50	5.95	-0.44	7.58	6.03	-0.36
150900.00		91.42	83.96	85.51	91.91				7.46	5.91	-0.48
150800.00		91.29	83.94	85.50	91.89				7.35	5.80	-0.60
150700.00		91.24	83.92	85.48	91.88				7.32	5.76	-0.64
150600.00		91.48	83.90	85.46	91.87				7.58	6.02	-0.39
150500.00	91.45	91.45	83.85	85.42	91.84	7.60	6.03	-0.39	7.60	6.03	-0.38
150400.00		91.34	83.80	85.37	91.80				7.54	5.97	-0.46
150300.00		91.54	83.74	85.33	91.77				7.80	6.21	-0.23
150200.00		91.54	83.70	85.30	91.74				7.83	6.24	-0.20
150100.00		91.29	83.67	85.26	91.72				7.62	6.03	-0.42
150000.00	91.41	91.58	83.63	85.23	91.69	7.78	6.18	-0.28	7.95	6.35	-0.11
149900.00		90.98	83.60	85.20	91.67				7.39	5.78	-0.68
149800.00		90.97	83.56	85.17	91.64				7.41	5.80	-0.67
149700.00		91.11	83.53	85.14	91.62				7.59	5.98	-0.50
149600.00		91.35	83.49	85.10	91.59				7.85	6.25	-0.24
149500.00	91.24	91.29	83.46	85.07	91.57	7.78	6.16	-0.33	7.83	6.22	-0.28
149400.00		91.30	83.43	85.04	91.55				7.87	6.26	-0.25
149300.00		91.02	83.39	85.01	91.52				7.62	6.00	-0.50
149200.00		90.95	83.36	84.98	91.50				7.59	5.96	-0.55
149100.00		90.95	83.33	84.95	91.47				7.62	5.99	-0.53
149000.00	91.30	91.24	83.29	84.92	91.45	8.01	6.38	-0.15	7.95	6.32	-0.21
148900.00		91.40	83.27	84.90	91.43				8.14	6.50	-0.03
148800.00		91.33	83.24	84.87	91.41				8.09	6.45	-0.09
148700.00		91.13	83.21	84.85	91.40				7.92	6.28	-0.27
148600.00		91.22	83.19	84.83	91.38				8.04	6.39	-0.16
148500.00	91.72	91.85	83.16	84.81	91.36	8.56	6.92	0.36	8.69	7.05	0.49
148400.00		91.82	83.13	84.78	91.34				8.69	7.04	0.48
148300.00		91.54	83.11	84.76	91.32				8.43	6.78	0.22
148200.00		91.63	83.08	84.74	91.31				8.55	6.90	0.33
148100.00		91.74	83.06	84.71	91.29				8.69	7.03	0.46

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
148000.00	91.30	91.77	83.03	84.69	91.27	8.27	6.61	0.03	8.74	7.08	0.50
147900.00		91.30	83.00	84.67	91.25				8.30	6.63	0.05
147800.00		91.28	82.98	84.64	91.23				8.30	6.63	0.04
147700.00		91.45	82.95	84.62	91.22				8.50	6.83	0.24
147600.00		91.26	82.93	84.60	91.20				8.34	6.67	0.07
147500.00	91.17	91.31	82.90	84.58	91.18	8.27	6.60	-0.01	8.41	6.73	0.13
147400.00		91.75	82.87	84.55	91.16				8.88	7.20	0.59
147300.00		91.52	82.85	84.53	91.14				8.67	6.99	0.38
147200.00		91.71	82.82	84.51	91.13				8.89	7.21	0.59
147100.00		91.63	82.80	84.48	91.11				8.83	7.15	0.52
147000.00	91.50	91.63	82.77	84.46	91.09	8.73	7.04	0.41	8.86	7.17	0.54
146900.00		91.52	82.74	84.43	91.07				8.78	7.09	0.46
146800.00		91.43	82.71	84.41	91.05				8.72	7.02	0.39
146700.00		91.45	82.69	84.38	91.03				8.76	7.07	0.42
146600.00		92.10	82.66	84.36	91.01				9.44	7.74	1.09
146500.00	91.85	92.11	82.63	84.33	90.99	9.22	7.51	0.86	9.47	7.77	1.12
146400.00		91.57	82.60	84.31	90.96				8.97	7.26	0.61
146300.00		91.55	82.58	84.28	90.94				8.98	7.27	0.61
146200.00		91.38	82.55	84.26	90.92				8.83	7.12	0.46
146100.00		91.12	82.52	84.23	90.90				8.60	6.89	0.22
146000.00	90.90	91.10	82.49	84.21	90.88	8.41	6.70	0.02	8.61	6.89	0.22
145900.00		91.20	82.47	84.18	90.86				8.74	7.02	0.34
145800.00		91.23	82.44	84.16	90.84				8.79	7.07	0.39
145700.00		91.01	82.41	84.13	90.82				8.60	6.88	0.20
145600.00		91.06	82.39	84.11	90.80				8.68	6.95	0.27
145500.00	90.55	90.76	82.36	84.09	90.78	8.19	6.47	-0.23	8.41	6.68	-0.01
145400.00		91.29	82.33	84.06	90.76				8.96	7.23	0.54
145300.00		91.60	82.31	84.04	90.74				9.29	7.56	0.86
145200.00		91.69	82.28	84.01	90.72				9.41	7.68	0.97
145100.00		91.83	82.25	83.99	90.70				9.58	7.84	1.13
145000.00	91.27	91.80	82.23	83.96	90.68	9.05	7.31	0.60	9.57	7.83	1.12
144900.00		91.82	82.20	83.94	90.66				9.62	7.89	1.17
144800.00		91.87	82.17	83.91	90.64				9.69	7.95	1.23
144700.00		91.54	82.15	83.89	90.62				9.39	7.65	0.92
144600.00		91.28	82.12	83.87	90.60				9.15	7.41	0.68
144500.00	90.99	91.39	82.09	83.84	90.58	8.89	7.14	0.41	9.30	7.55	0.82
144400.00		91.51	82.07	83.82	90.56				9.44	7.69	0.95
144300.00		91.54	82.05	83.80	90.54				9.49	7.74	1.00
144200.00		91.64	82.03	83.78	90.52				9.61	7.86	1.12
144100.00		91.83	82.01	83.76	90.51				9.83	8.07	1.32
144000.00	91.40	91.70	81.99	83.74	90.49	9.41	7.66	0.90	9.71	7.96	1.21
143900.00		92.04	81.97	83.72	90.48				10.07	8.31	1.56
143800.00		91.92	81.95	83.71	90.46				9.97	8.22	1.46
143700.00		91.70	81.93	83.69	90.45				9.77	8.01	1.25
143600.00		91.54	81.91	83.67	90.43				9.63	7.87	1.10
143500.00	91.04	91.42	81.89	83.65	90.42	9.15	7.39	0.62	9.53	7.77	1.00
143400.00		91.11	81.87	83.63	90.40				9.24	7.47	0.70
143300.00		91.28	81.85	83.62	90.39				9.43	7.66	0.89
143200.00		91.40	81.83	83.60	90.37				9.57	7.80	1.02
143100.00		91.50	81.81	83.58	90.36				9.69	7.92	1.14
143000.00	91.28	91.52	81.80	83.57	90.35	9.48	7.71	0.93	9.72	7.95	1.17
142900.00		91.36	81.79	83.56	90.34				9.58	7.80	1.02
142800.00		91.40	81.77	83.55	90.33				9.63	7.86	1.07
142700.00		91.45	81.76	83.54	90.32				9.68	7.91	1.12
142600.00		91.39	81.75	83.53	90.31				9.64	7.87	1.08
142500.00	90.66	91.21	81.74	83.52	90.31	8.92	7.14	0.35	9.47	7.69	0.90
142400.00		91.15	81.73	83.51	90.30				9.42	7.64	0.85
142300.00		91.19	81.71	83.50	90.29				9.47	7.69	0.90
142200.00		91.01	81.70	83.49	90.28				9.31	7.52	0.73
142100.00		90.99	81.69	83.48	90.27				9.30	7.52	0.72
142000.00	90.32	90.84	81.68	83.46	90.26	8.64	6.85	0.05	9.16	7.37	0.58
141900.00		91.08	81.67	83.45	90.25				9.41	7.63	0.83
141800.00		90.83	81.66	83.44	90.24				9.17	7.39	0.59
141700.00		90.86	81.64	83.43	90.23				9.21	7.42	0.62
141600.00		90.89	81.63	83.42	90.22				9.26	7.47	0.67
141500.00	90.38	91.06	81.62	83.41	90.21	8.76	6.97	0.17	9.44	7.65	0.85
141400.00		90.78	81.61	83.40	90.20				9.17	7.37	0.57
141300.00		90.72	81.60	83.39	90.19				9.13	7.33	0.53
141200.00		90.73	81.59	83.38	90.18				9.14	7.35	0.55
141100.00		90.47	81.57	83.37	90.17				8.90	7.10	0.30
141000.00	89.91	90.45	81.56	83.36	90.16	8.34	6.55	-0.25	8.89	7.09	0.29
140900.00		90.38	81.55	83.35	90.15				8.83	7.04	0.24
140800.00		90.61	81.54	83.34	90.14				9.08	7.28	0.48
140700.00		90.39	81.53	83.33	90.13				8.86	7.06	0.26

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
140600.00		90.55	81.52	83.32	90.12				9.03	7.23	0.43
140500.00	90.30	90.57	81.51	83.31	90.11	8.79	6.99	0.19	9.06	7.26	0.46
140400.00		90.07	81.50	83.30	90.10				8.57	6.77	-0.03
140300.00		89.98	81.49	83.29	90.09				8.49	6.69	-0.12
140200.00		90.03	81.48	83.28	90.09				8.55	6.75	-0.06
140100.00		90.02	81.47	83.28	90.08				8.54	6.74	-0.06
140000.00	89.97	90.27	81.46	83.27	90.07	8.51	6.71	-0.10	8.81	7.00	0.20
139900.00		90.66	81.45	83.26	90.06				9.21	7.40	0.59
139800.00		90.22	81.44	83.25	90.06				8.77	6.96	0.16
139700.00		90.06	81.43	83.24	90.05				8.62	6.81	0.01
139600.00		89.87	81.43	83.24	90.04				8.44	6.63	-0.17
139500.00	89.77	89.96	81.42	83.23	90.03	8.36	6.55	-0.26	8.55	6.74	-0.07
139400.00		89.73	81.41	83.22	90.03				8.32	6.51	-0.30
139300.00		89.59	81.40	83.21	90.02				8.19	6.38	-0.43
139200.00		89.78	81.39	83.20	90.01				8.39	6.58	-0.23
139100.00		89.73	81.38	83.20	90.00				8.35	6.53	-0.28
139000.00	89.62	89.78	81.37	83.19	90.00	8.25	6.43	-0.38	8.40	6.59	-0.22
138900.00		89.73	81.36	83.18	89.99				8.37	6.55	-0.26
138800.00		89.70	81.35	83.17	89.98				8.35	6.53	-0.28
138700.00		89.80	81.34	83.16	89.97				8.45	6.63	-0.18
138600.00		89.58	81.33	83.15	89.96				8.25	6.43	-0.38
138500.00	89.50	89.58	81.31	83.13	89.94	8.19	6.36	-0.45	8.27	6.45	-0.36
138400.00		89.38	81.29	83.12	89.93				8.09	6.26	-0.55
138300.00		89.39	81.27	83.10	89.91				8.12	6.29	-0.52
138200.00		89.20	81.26	83.09	89.90				7.95	6.12	-0.69
138100.00		89.46	81.24	83.07	89.88				8.22	6.39	-0.42
138000.00	89.39	89.38	81.22	83.05	89.86	8.17	6.34	-0.47	8.16	6.33	-0.48
137900.00		89.47	81.20	83.04	89.85				8.27	6.43	-0.38
137800.00		89.42	81.18	83.02	89.83				8.24	6.40	-0.41
137700.00		89.43	81.16	83.01	89.82				8.27	6.43	-0.38
137600.00		89.61	81.14	82.99	89.80				8.47	6.63	-0.18
137500.00	89.49	89.55	81.12	82.97	89.78	8.37	6.53	-0.28	8.43	6.58	-0.23
137400.00		89.56	81.10	82.95	89.76				8.46	6.61	-0.20
137300.00		89.35	81.08	82.93	89.74				8.27	6.42	-0.39
137200.00		89.27	81.06	82.91	89.72				8.21	6.36	-0.45
137100.00		89.41	81.04	82.89	89.70				8.38	6.52	-0.29
137000.00	89.34	89.38	81.02	82.87	89.68	8.33	6.47	-0.34	8.36	6.50	-0.31
136900.00		89.53	81.00	82.86	89.67				8.54	6.68	-0.13
136800.00		89.62	80.98	82.84	89.65				8.64	6.78	-0.03
136700.00		89.27	80.97	82.83	89.63				8.30	6.44	-0.37
136600.00		89.37	80.95	82.81	89.61				8.42	6.56	-0.24
136500.00	89.34	89.57	80.93	82.80	89.60	8.40	6.54	-0.26	8.64	6.77	-0.03
136400.00		89.36	80.92	82.78	89.58				8.44	6.58	-0.22
136300.00		89.30	80.90	82.77	89.56				8.40	6.54	-0.26
136200.00		89.63	80.88	82.75	89.54				8.75	6.88	0.09
136100.00		89.87	80.87	82.74	89.53				9.01	7.14	0.35
136000.00	89.55	89.96	80.83	82.71	89.50	8.72	6.84	0.05	9.12	7.25	0.46
135900.00		89.97	80.79	82.67	89.47				9.18	7.29	0.50
135800.00		89.80	80.74	82.64	89.43				9.06	7.16	0.37
135700.00		89.71	80.69	82.60	89.40				9.02	7.11	0.32
135600.00		89.44	80.65	82.56	89.36				8.79	6.87	0.08
135500.00	89.30	89.54	80.60	82.53	89.33	8.70	6.77	-0.03	8.94	7.02	0.22
135400.00		89.67	80.56	82.49	89.29				9.12	7.18	0.38
135300.00		89.36	80.51	82.46	89.26				8.85	6.91	0.10
135200.00		89.49	80.46	82.42	89.22				9.02	7.07	0.26
135100.00		89.31	80.42	82.38	89.19				8.89	6.93	0.12
135000.00	89.27	89.34	80.37	82.35	89.15	8.89	6.92	0.11	8.97	6.99	0.19
134900.00		89.36	80.32	82.31	89.12				9.03	7.04	0.24
134800.00		89.61	80.28	82.28	89.09				9.33	7.34	0.53
134700.00		89.63	80.15	82.18	89.00				9.48	7.45	0.63
134600.00		89.10	79.96	82.03	88.87				9.14	7.07	0.23
134500.00	89.14	89.14	79.84	81.94	88.79	9.30	7.20	0.35	9.31	7.21	0.35
134400.00		89.17	79.81	81.92	88.77				9.36	7.25	0.39
134300.00		89.16	79.79	81.90	88.76				9.37	7.26	0.41
134200.00		89.19	79.76	81.88	88.74				9.42	7.30	0.45
134100.00		89.00	79.74	81.87	88.72				9.26	7.14	0.28
134000.00	89.45	89.34	79.72	81.85	88.71	9.73	7.60	0.74	9.63	7.50	0.64
133900.00		89.19	79.69	81.83	88.69				9.49	7.36	0.50
133800.00		89.01	79.67	81.81	88.67				9.35	7.20	0.34
133700.00		89.05	79.65	81.79	88.66				9.41	7.26	0.39
133600.00		88.85	79.62	81.78	88.64				9.23	7.08	0.21
133500.00	88.67	88.57	79.60	81.76	88.63	9.07	6.91	0.04	8.97	6.81	-0.06
133400.00		88.58	79.57	81.74	88.61				9.01	6.85	-0.02
133300.00		88.73	79.55	81.72	88.59				9.18	7.01	0.13

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
133200.00		88.81	79.53	81.70	88.58				9.28	7.11	0.23
133100.00		88.76	79.50	81.68	88.56				9.26	7.08	0.20
133000.00	88.95	88.95	79.48	81.67	88.54	9.47	7.28	0.41	9.47	7.28	0.40
132900.00		89.32	79.46	81.65	88.53				9.87	7.67	0.80
132800.00		89.59	79.43	81.63	88.51				10.16	7.96	1.08
132700.00		89.61	79.41	81.61	88.49				10.20	7.99	1.11
132600.00		90.02	79.38	81.59	88.48				10.64	8.43	1.54
132500.00	90.13	90.07	79.36	81.58	88.46	10.77	8.56	1.67	10.71	8.49	1.61
132400.00		91.23	79.34	81.56	88.45				11.89	9.67	2.79
132300.00		89.82	79.31	81.54	88.43				10.51	8.28	1.39
132200.00		89.09	79.30	81.53	88.42				9.79	7.56	0.67
132100.00		89.39	79.29	81.52	88.41				10.10	7.87	0.98
132000.00	89.40	89.45	79.28	81.51	88.40	10.12	7.89	1.00	10.17	7.94	1.05
131900.00		89.16	79.27	81.50	88.39				9.89	7.65	0.77
131800.00		89.29	79.26	81.50	88.38				10.03	7.79	0.91
131700.00		88.74	79.25	81.49	88.37				9.49	7.25	0.37
131600.00		88.46	79.24	81.48	88.36				9.22	6.98	0.10
131500.00	88.26	88.26	79.23	81.47	88.35	9.03	6.78	-0.10	9.03	6.79	-0.09
131400.00		88.26	79.22	81.47	88.35				9.04	6.80	-0.08
131300.00		88.03	79.21	81.46	88.34				8.82	6.57	-0.31
131200.00		88.16	79.20	81.45	88.33				8.96	6.71	-0.16
131100.00		88.03	79.19	81.44	88.32				8.84	6.59	-0.29
131000.00	88.11	88.10	79.18	81.44	88.31	8.92	6.67	-0.20	8.92	6.67	-0.21
130900.00		87.93	79.17	81.43	88.30				8.75	6.50	-0.38
130800.00		88.31	79.16	81.42	88.29				9.14	6.89	0.01
130700.00		88.84	79.15	81.41	88.28				9.69	7.43	0.56
130600.00		88.79	79.13	81.39	88.26				9.67	7.40	0.53
130500.00	88.72	88.72	79.08	81.36	88.23	9.63	7.36	0.49	9.64	7.37	0.50
130400.00		88.71	79.05	81.33	88.20				9.66	7.38	0.51
130300.00		88.72	79.03	81.31	88.18				9.69	7.41	0.54
130200.00		88.78	79.01	81.29	88.16				9.77	7.48	0.61
130100.00		88.68	78.99	81.28	88.15				9.69	7.40	0.53
130000.00	88.56	88.73	78.97	81.26	88.13	9.58	7.29	0.42	9.76	7.47	0.60
129900.00		88.72	78.96	81.26	88.13				9.75	7.46	0.59
129800.00		88.87	78.96	81.25	88.12				9.91	7.62	0.75
129700.00		88.78	78.95	81.25	88.12				9.83	7.53	0.66
129600.00		88.72	78.95	81.24	88.11				9.77	7.47	0.61
129500.00	88.89	89.06	78.94	81.24	88.11	9.95	7.65	0.78	10.12	7.82	0.95
129400.00		89.39	78.94	81.23	88.10				10.45	8.15	1.29
129300.00		89.01	78.93	81.23	88.10				10.08	7.78	0.91
129200.00		89.04	78.93	81.23	88.09				10.12	7.82	0.95
129100.00		88.93	78.92	81.22	88.08				10.02	7.71	0.85
129000.00	88.83	88.92	78.91	81.22	88.08	9.91	7.61	0.75	10.00	7.70	0.84
128900.00		89.02	78.91	81.21	88.07				10.11	7.81	0.94
128800.00		88.97	78.90	81.21	88.07				10.07	7.77	0.90
128700.00		88.84	78.90	81.20	88.06				9.94	7.64	0.78
128600.00		88.73	78.89	81.20	88.06				9.84	7.53	0.67
128500.00	88.79	88.73	78.89	81.19	88.05	9.90	7.59	0.73	9.84	7.53	0.67
128400.00		88.55	78.88	81.19	88.05				9.67	7.36	0.50
128300.00		88.50	78.86	81.17	88.03				9.64	7.33	0.47
128200.00		88.34	78.84	81.16	88.01				9.50	7.18	0.32
128100.00		88.18	78.82	81.15	88.00				9.36	7.04	0.19
128000.00	88.24	88.27	78.80	81.13	87.98	9.44	7.11	0.26	9.47	7.14	0.29
127900.00		88.59	78.79	81.12	87.97				9.80	7.47	0.62
127800.00		88.31	78.79	81.12	87.97				9.52	7.19	0.34
127700.00		88.24	78.78	81.11	87.96				9.46	7.13	0.28
127600.00		88.44	78.77	81.10	87.95				9.67	7.34	0.49
127500.00	88.79	88.73	78.76	81.10	87.95	10.02	7.69	0.84	9.96	7.63	0.78
127400.00		88.77	78.76	81.09	87.94				10.02	7.68	0.83
127300.00		88.87	78.75	81.08	87.93				10.12	7.79	0.94
127200.00		88.78	78.74	81.08	87.93				10.04	7.70	0.85
127100.00		88.66	78.73	81.07	87.92				9.93	7.59	0.74
127000.00	88.83	88.76	78.73	81.06	87.91	10.10	7.76	0.91	10.04	7.70	0.85
126900.00		88.68	78.72	81.06	87.91				9.96	7.62	0.77
126800.00		88.61	78.71	81.05	87.90				9.90	7.56	0.71
126700.00		88.37	78.70	81.04	87.89				9.68	7.34	0.49
126600.00		88.38	78.68	81.03	87.88				9.70	7.35	0.50
126500.00	88.43	88.55	78.67	81.02	87.86	9.77	7.42	0.57	9.88	7.53	0.69
126400.00		88.64	78.65	81.00	87.85				9.99	7.63	0.79
126300.00		88.86	78.64	80.99	87.84				10.22	7.86	1.02
126200.00		88.64	78.62	80.98	87.82				10.02	7.66	0.82
126100.00		88.28	78.61	80.97	87.81				9.68	7.31	0.47
126000.00	87.99	87.99	78.59	80.96	87.80	9.40	7.03	0.19	9.40	7.03	0.19
125900.00		88.45	78.58	80.95	87.79				9.88	7.51	0.67

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
125800.00		88.25	78.57	80.94	87.78				9.68	7.31	0.47
125700.00		87.83	78.56	80.93	87.77				9.27	6.89	0.05
125600.00		88.03	78.55	80.93	87.76				9.48	7.10	0.26
125500.00	87.85	87.83	78.54	80.92	87.76	9.31	6.93	0.09	9.29	6.91	0.07
125400.00	87.88	87.82	78.53	80.91	87.75	9.35	6.96	0.13	9.29	6.90	0.07
125300.00		87.67	78.52	80.90	87.74				9.15	6.77	-0.07
125200.00		87.89	78.51	80.90	87.73				9.37	6.99	0.15
125100.00		87.56	78.50	80.89	87.72				9.05	6.67	-0.17
125000.00	87.48	87.50	78.49	80.88	87.72	8.98	6.59	-0.24	9.01	6.62	-0.22
124900.00		87.80	78.48	80.88	87.71				9.31	6.92	0.09
124800.00		88.34	78.47	80.87	87.70				9.87	7.48	0.64
124700.00		89.69	78.46	80.86	87.69				11.23	8.83	2.00
124600.00		89.35	78.45	80.85	87.68				10.90	8.50	1.67
124500.00	88.54	88.62	78.44	80.84	87.67	10.09	7.69	0.86	10.18	7.78	0.95
124400.00		88.24	78.43	80.83	87.66				9.81	7.40	0.58
124300.00		87.98	78.42	80.82	87.65				9.57	7.16	0.33
124200.00		87.85	78.40	80.81	87.64				9.45	7.04	0.21
124100.00	87.50	87.65	78.39	80.80	87.62	9.11	6.69	-0.13	9.27	6.85	0.03
124000.00	88.04	88.16	78.37	80.79	87.61	9.66	7.24	0.42	9.78	7.36	0.54
123900.00		87.95	78.36	80.78	87.60				9.59	7.16	0.35
123800.00		87.82	78.35	80.77	87.59				9.47	7.05	0.23
123700.00		88.01	78.33	80.76	87.58				9.68	7.25	0.44
123600.00		88.13	78.32	80.75	87.56				9.81	7.38	0.57
123500.00	87.52	87.78	78.30	80.74	87.55	9.22	6.79	-0.03	9.47	7.04	0.23
123400.00		87.74	78.29	80.73	87.54				9.45	7.01	0.20
123300.00		87.47	78.28	80.72	87.53				9.19	6.75	-0.06
123200.00		87.45	78.27	80.71	87.52				9.18	6.74	-0.07
123100.00		87.55	78.26	80.70	87.51				9.29	6.85	0.04
123000.00	87.55	87.70	78.25	80.69	87.50	9.30	6.85	0.05	9.45	7.00	0.20
122900.00		87.80	78.24	80.69	87.49				9.57	7.12	0.32
122800.00		87.81	78.23	80.68	87.48				9.58	7.13	0.33
122700.00		87.60	78.22	80.67	87.47				9.38	6.93	0.13
122600.00		87.44	78.21	80.66	87.46				9.23	6.78	-0.02
122500.00	87.28	87.38	78.20	80.65	87.45	9.08	6.63	-0.17	9.18	6.73	-0.07
122400.00		87.06	78.19	80.65	87.44				8.87	6.42	-0.38
122300.00		87.22	78.18	80.64	87.43				9.04	6.58	-0.21
122200.00		87.21	78.17	80.63	87.42				9.04	6.58	-0.21
122100.00		87.14	78.16	80.62	87.41				8.97	6.51	-0.28
122000.00	86.99	87.08	78.15	80.61	87.40	8.85	6.38	-0.41	8.94	6.47	-0.32
121900.00		87.18	78.13	80.60	87.39				9.05	6.58	-0.21
121800.00		86.91	78.11	80.58	87.37				8.80	6.33	-0.46
121700.00		86.63	78.09	80.57	87.36				8.54	6.06	-0.73
121600.00	86.96	86.88	78.07	80.55	87.34	8.88	6.41	-0.38	8.80	6.33	-0.46
121500.00	87.09	87.14	78.06	80.54	87.33	9.04	6.56	-0.23	9.08	6.60	-0.19
121400.00		86.92	78.03	80.51	87.30				8.90	6.41	-0.37
121300.00		86.99	77.99	80.48	87.26				9.00	6.51	-0.27
121200.00		86.78	77.95	80.45	87.22				8.82	6.33	-0.45
121100.00		86.81	77.92	80.42	87.19				8.89	6.38	-0.38
121000.00	86.92	86.99	77.89	80.40	87.16	9.03	6.52	-0.24	9.11	6.60	-0.16
120900.00		87.34	77.87	80.38	87.14				9.47	6.96	0.20
120800.00		87.40	77.85	80.36	87.12				9.55	7.03	0.28
120700.00		87.45	77.83	80.35	87.10				9.62	7.10	0.35
120600.00		87.56	77.81	80.33	87.08				9.74	7.22	0.47
120500.00	87.31	87.59	77.79	80.32	87.06	9.51	6.99	0.24	9.80	7.27	0.53
120400.00		87.69	77.77	80.30	87.04				9.92	7.39	0.65
120300.00		87.72	77.76	80.29	87.03				9.96	7.43	0.69
120200.00		88.11	77.74	80.27	87.01				10.37	7.84	1.10
120100.00		87.82	77.72	80.25	86.99				10.10	7.57	0.83
120000.00	87.81	87.95	77.70	80.24	86.97	10.11	7.57	0.84	10.25	7.71	0.98
119900.00		87.98	77.68	80.22	86.95				10.30	7.75	1.03
119800.00		87.74	77.66	80.21	86.93				10.07	7.53	0.80
119700.00		87.45	77.64	80.19	86.91				9.81	7.26	0.54
119600.00		87.48	77.62	80.18	86.89				9.86	7.30	0.59
119500.00	87.27	87.40	77.61	80.16	86.88	9.66	7.11	0.39	9.79	7.23	0.52
119400.00		87.38	77.59	80.15	86.86				9.79	7.23	0.52
119300.00		87.39	77.57	80.13	86.84				9.82	7.25	0.55
119200.00		87.76	77.55	80.12	86.82				10.21	7.64	0.94
119100.00		87.51	77.53	80.10	86.80				9.98	7.41	0.71
119000.00	87.55	87.58	77.51	80.09	86.78	10.04	7.47	0.77	10.07	7.49	0.80
118900.00		87.67	77.49	80.07	86.76				10.18	7.60	0.91
118800.00		87.69	77.48	80.06	86.75				10.21	7.63	0.94
118700.00		87.50	77.47	80.05	86.74				10.03	7.45	0.76
118600.00		87.53	77.46	80.04	86.73				10.07	7.49	0.80
118500.00	87.35	87.26	77.45	80.04	86.72	9.90	7.32	0.64	9.81	7.22	0.54

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
118400.00		87.39	77.44	80.03	86.70				9.95	7.36	0.68
118300.00		87.16	77.43	80.02	86.69				9.73	7.14	0.46
118200.00		87.18	77.42	80.01	86.68				9.77	7.17	0.50
118100.00		87.56	77.40	80.00	86.67				10.16	7.56	0.89
118000.00	87.59	87.55	77.39	79.99	86.66	10.19	7.60	0.93	10.16	7.56	0.89
117900.00		87.67	77.38	79.98	86.65				10.29	7.69	1.02
117800.00		87.65	77.37	79.97	86.64				10.28	7.68	1.01
117700.00		87.19	77.36	79.96	86.62				9.83	7.23	0.57
117600.00		87.35	77.35	79.95	86.61				10.00	7.39	0.73
117500.00	87.32	87.38	77.34	79.94	86.60	9.98	7.37	0.72	10.04	7.44	0.78
117400.00		87.22	77.33	79.94	86.59				9.89	7.29	0.63
117300.00		87.33	77.32	79.93	86.58				10.01	7.40	0.75
117200.00		87.20	77.31	79.92	86.57				9.89	7.28	0.63
117100.00		87.09	77.29	79.91	86.55				9.80	7.18	0.54
117000.00	87.05	87.07	77.28	79.90	86.54	9.78	7.16	0.52	9.79	7.17	0.53
116900.00		87.06	77.26	79.88	86.52				9.79	7.17	0.53
116800.00		87.07	77.25	79.87	86.51				9.82	7.20	0.56
116700.00		86.94	77.23	79.86	86.50				9.71	7.08	0.44
116600.00		86.90	77.22	79.85	86.48				9.68	7.04	0.41
116500.00	87.19	87.19	77.21	79.84	86.47	9.98	7.35	0.72	9.98	7.35	0.72
116400.00		86.88	77.19	79.83	86.46				9.69	7.05	0.42
116300.00		87.07	77.18	79.82	86.44				9.89	7.25	0.63
116200.00		87.10	77.16	79.81	86.43				9.94	7.29	0.67
116100.00		86.96	77.15	79.80	86.42				9.82	7.17	0.55
116000.00	87.08	86.94	77.13	79.79	86.40	9.94	7.29	0.67	9.80	7.15	0.53
115900.00		87.10	77.12	79.78	86.39				9.98	7.32	0.71
115800.00		87.25	77.10	79.76	86.37				10.16	7.50	0.89
115700.00		87.28	77.06	79.73	86.33				10.22	7.55	0.95
115600.00		86.99	77.02	79.69	86.29				9.97	7.30	0.70
115500.00	86.91	86.97	76.98	79.66	86.25	9.93	7.25	0.66	9.99	7.30	0.72
115400.00		87.01	76.94	79.63	86.21				10.07	7.38	0.80
115300.00		87.06	76.91	79.61	86.19				10.14	7.45	0.87
115200.00		86.88	76.89	79.59	86.16				9.99	7.29	0.72
115100.00		86.91	76.87	79.57	86.14				10.04	7.34	0.77
115000.00	86.77	86.77	76.84	79.55	86.12	9.93	7.22	0.65	9.93	7.22	0.65
114900.00		86.56	76.82	79.54	86.10				9.74	7.02	0.46
114800.00		86.83	76.79	79.52	86.08				10.04	7.31	0.75
114700.00		86.96	76.77	79.50	86.06				10.19	7.46	0.90
114600.00		86.85	76.75	79.48	86.04				10.11	7.37	0.81
114500.00	86.80	86.64	76.72	79.47	86.02	10.08	7.33	0.78	9.92	7.17	0.62
114400.00		87.13	76.70	79.45	86.00				10.43	7.68	1.13
114300.00		87.08	76.68	79.43	85.98				10.40	7.65	1.10
114200.00		86.80	76.66	79.42	85.96				10.14	7.39	0.84
114100.00		86.55	76.64	79.40	85.94				9.91	7.15	0.61
114000.00	86.53	86.45	76.62	79.38	85.92	9.91	7.15	0.61	9.83	7.07	0.53
113900.00		86.80	76.60	79.37	85.90				10.20	7.43	0.90
113800.00		86.84	76.58	79.35	85.88				10.26	7.49	0.96
113700.00		87.03	76.56	79.33	85.86				10.48	7.70	1.18
113600.00		86.73	76.54	79.32	85.84				10.19	7.41	0.89
113500.00	86.43	86.48	76.52	79.30	85.82	9.92	7.13	0.62	9.96	7.18	0.66
113400.00		86.40	76.50	79.28	85.80				9.90	7.11	0.60
113300.00		85.74	76.48	79.27	85.78				9.26	6.47	-0.04
113200.00		85.52	76.46	79.25	85.76				9.06	6.26	-0.24
113100.00		80.21	76.44	79.24	85.74				3.77	0.97	-5.53
113000.00	85.72	85.49	76.42	79.23	85.72	9.29	6.49	-0.01	9.07	6.26	-0.23
112900.00		87.68	76.41	79.21	85.71				11.27	8.47	1.97
112800.00		87.64	76.39	79.20	85.69				11.25	8.44	1.95
112700.00		87.46	76.37	79.19	85.67				11.09	8.27	1.79
112600.00		86.27	76.36	79.17	85.66				9.92	7.10	0.62
112500.00	86.08	85.97	76.34	79.16	85.64	9.74	6.92	0.44	9.63	6.81	0.33
112400.00		86.16	76.32	79.15	85.62				9.84	7.01	0.54
112300.00		86.70	76.30	79.14	85.60				10.39	7.56	1.09
112200.00		86.55	76.29	79.12	85.59				10.27	7.43	0.97
112100.00		86.40	76.27	79.11	85.57				10.13	7.29	0.83
112000.00	86.27	86.08	76.25	79.10	85.55	10.02	7.18	0.72	9.83	6.99	0.53
111900.00		86.04	76.23	79.08	85.53				9.81	6.96	0.51
111800.00		86.11	76.22	79.07	85.52				9.89	7.04	0.59
111700.00		86.25	76.20	79.06	85.50				10.05	7.20	0.75
111600.00		86.09	76.18	79.04	85.48				9.91	7.05	0.61
111500.00	86.08	85.86	76.16	79.03	85.46	9.91	7.05	0.61	9.70	6.83	0.40
111400.00		85.77	76.15	79.02	85.45				9.63	6.76	0.33
111300.00		85.73	76.11	78.98	85.43				9.62	6.74	0.30
111200.00		85.65	76.05	78.94	85.41				9.60	6.72	0.24
111100.00		85.93	75.99	78.89	85.40				9.94	7.04	0.53

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
111000.00	86.06	86.11	75.94	78.85	85.38	10.12	7.21	0.68	10.18	7.27	0.73
110900.00		86.26	75.88	78.80	85.36				10.38	7.46	0.90
110800.00		86.18	75.85	78.78	85.35				10.33	7.40	0.83
110700.00		86.25	75.88	78.81	85.34				10.37	7.44	0.91
110600.00		86.30	75.87	78.81	85.33				10.43	7.50	0.97
110500.00	86.04	85.95	75.87	78.80	85.32	10.16	7.23	0.71	10.07	7.14	0.62
110400.00		85.97	75.87	78.80	85.32				10.11	7.17	0.66
110300.00		86.15	75.86	78.80	85.31				10.29	7.35	0.84
110200.00		85.92	75.86	78.80	85.30				10.06	7.13	0.62
110100.00		85.81	75.86	78.79	85.30				9.95	7.01	0.51
110000.00	85.80	85.76	75.86	78.79	85.29	9.95	7.01	0.51	9.91	6.97	0.47
109900.00		85.73	75.85	78.79	85.28				9.88	6.95	0.45
109800.00		85.98	75.85	78.78	85.28				10.13	7.19	0.70
109700.00		87.29	75.85	78.78	85.27				11.44	8.50	2.01
109600.00		86.52	75.84	78.78	85.26				10.68	7.74	1.26
109500.00	86.38	86.15	75.84	78.78	85.26	10.54	7.61	1.13	10.31	7.37	0.89
109400.00		86.45	75.84	78.77	85.25				10.61	7.67	1.20
109300.00	86.44	86.30	75.83	78.77	85.25	10.60	7.66	1.19	10.46	7.52	1.05
109200.00		86.49	75.83	78.77	85.24				10.66	7.72	1.25
109100.00		86.47	75.82	78.76	85.23				10.65	7.70	1.24
109000.00	86.43	86.35	75.81	78.75	85.22	10.62	7.67	1.20	10.54	7.59	1.12
108900.00		86.23	75.80	78.75	85.21				10.43	7.48	1.01
108800.00		86.10	75.79	78.74	85.21				10.31	7.36	0.89
108700.00		86.34	75.78	78.73	85.20				10.56	7.61	1.14
108600.00		86.32	75.77	78.73	85.19				10.55	7.59	1.13
108500.00	86.36	86.54	75.76	78.72	85.18	10.61	7.64	1.18	10.78	7.82	1.35
108400.00		86.37	75.75	78.71	85.17				10.62	7.66	1.19
108300.00		86.34	75.73	78.70	85.17				10.60	7.63	1.17
108200.00		86.09	75.72	78.70	85.16				10.36	7.39	0.93
108100.00		85.84	75.71	78.69	85.15				10.13	7.15	0.69
108000.00	85.89	85.90	75.70	78.68	85.14	10.18	7.20	0.74	10.20	7.22	0.76
107900.00		85.71	75.70	78.68	85.14				10.01	7.03	0.57
107800.00		86.16	75.70	78.68	85.14				10.46	7.48	1.02
107700.00		86.10	75.70	78.68	85.14				10.40	7.42	0.96
107600.00		86.29	75.70	78.68	85.14				10.59	7.61	1.15
107500.00	85.46	85.67	75.70	78.68	85.14	9.76	6.78	0.32	9.97	6.99	0.53
107400.00		85.98	75.70	78.68	85.14				10.28	7.30	0.84
107300.00	85.79	86.09	75.70	78.68	85.14	10.09	7.11	0.65	10.39	7.41	0.95
107200.00		86.24	75.70	78.68	85.14				10.54	7.56	1.10
107100.00		86.40	75.70	78.68	85.14				10.70	7.72	1.26
107000.00	85.69	86.02	75.70	78.68	85.14	9.99	7.01	0.55	10.32	7.34	0.88
106900.00		85.85	75.70	78.68	85.14				10.15	7.17	0.71
106800.00		86.45	75.69	78.67	85.12				10.76	7.78	1.32
106700.00		86.40	75.68	78.66	85.11				10.72	7.74	1.29
106600.00		86.34	75.67	78.65	85.10				10.67	7.69	1.24
106500.00	86.07	86.54	75.66	78.64	85.08	10.41	7.43	0.99	10.88	7.89	1.45
106400.00		86.18	75.65	78.63	85.07				10.53	7.54	1.11
106300.00		86.32	75.64	78.63	85.06				10.68	7.69	1.26
106200.00		86.60	75.63	78.62	85.04				10.97	7.98	1.55
106100.00		86.59	75.62	78.61	85.03				10.97	7.98	1.56
106000.00	85.59	86.43	75.61	78.60	85.02	9.98	6.99	0.57	10.82	7.83	1.41
105900.00		86.34	75.60	78.59	85.01				10.74	7.74	1.33
105800.00		86.83	75.59	78.58	84.99				11.25	8.25	1.84
105700.00		86.90	75.58	78.58	84.98				11.32	8.32	1.92
105600.00		86.66	75.56	78.57	84.96				11.09	8.09	1.69
105500.00	86.49	87.37	75.54	78.55	84.94	10.94	7.94	1.55	11.83	8.83	2.44
105400.00		87.26	75.52	78.53	84.91				11.74	8.73	2.35
105300.00		87.19	75.50	78.51	84.89				11.69	8.68	2.31
105200.00		86.96	75.48	78.50	84.86				11.48	8.47	2.10
105100.00		86.60	75.46	78.48	84.83				11.13	8.12	1.76
105000.00	85.65	86.33	75.44	78.46	84.81	10.21	7.19	0.84	10.89	7.87	1.52
104900.00		85.94	75.42	78.44	84.78				10.52	7.49	1.15
104800.00		86.04	75.40	78.43	84.76				10.64	7.61	1.28
104700.00		85.73	75.38	78.41	84.73				10.35	7.32	1.00
104600.00		85.79	75.36	78.39	84.71				10.44	7.40	1.09
104500.00	85.27	85.55	75.34	78.37	84.68	9.93	6.90	0.59	10.22	7.18	0.87
104400.00		86.28	75.32	78.36	84.66				10.96	7.92	1.63
104300.00		86.58	75.30	78.34	84.63				11.28	8.24	1.95
104200.00		84.51	75.28	78.33	84.61				9.23	6.18	-0.10
104100.00		85.02	75.27	78.31	84.59				9.76	6.71	0.44
104000.00	85.18	85.62	75.25	78.30	84.56	9.93	6.88	0.61	10.37	7.32	1.06
103900.00		85.70	75.23	78.28	84.54				10.46	7.41	1.16
103800.00		85.24	75.22	78.27	84.52				10.02	6.97	0.72
103700.00		85.25	75.20	78.26	84.49				10.05	7.00	0.76

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
103600.00		85.19	75.18	78.24	84.47				10.01	6.95	0.72
103500.00	84.68	85.14	75.17	78.23	84.45	9.51	6.45	0.23	9.97	6.91	0.69
103400.00		85.71	75.15	78.22	84.43				10.56	7.50	1.28
103300.00		85.31	75.14	78.20	84.41				10.17	7.11	0.90
103200.00		85.15	75.12	78.19	84.39				10.03	6.96	0.76
103100.00		84.53	75.10	78.18	84.37				9.43	6.35	0.16
103000.00	82.21	82.50	75.09	78.17	84.35	7.12	4.04	-2.14	7.42	4.34	-1.85
102900.00		82.52	75.07	78.15	84.33				7.45	4.36	-1.81
102800.00		83.24	75.06	78.14	84.31				8.18	5.10	-1.08
102700.00		88.83	75.04	78.13	84.29				13.79	10.70	4.53
102600.00		94.10	75.02	78.12	84.28				19.08	15.99	9.83
102500.00	90.55	91.42	75.00	78.10	84.25	15.56	12.46	6.30	16.43	13.33	7.17
102400.00		84.14	74.98	78.08	84.23				9.16	6.06	-0.09
102300.00		85.02	74.96	78.06	84.20				10.06	6.96	0.82
102200.00		84.79	74.95	78.05	84.19				9.84	6.74	0.60
102100.00		85.07	74.94	78.04	84.17				10.13	7.02	0.90
102000.00	84.02	84.49	74.93	78.03	84.15	9.09	5.99	-0.13	9.56	6.46	0.33
101900.00		84.08	74.92	78.02	84.14				9.16	6.06	-0.05
101800.00		84.76	74.91	78.01	84.12				9.85	6.74	0.63
101700.00		84.80	74.90	78.01	84.11				9.90	6.79	0.69
101600.00		84.36	74.89	78.00	84.09				9.47	6.36	0.27
101500.00	84.16	84.41	74.88	77.99	84.07	9.29	6.18	0.09	9.54	6.43	0.34
101400.00		84.67	74.86	77.98	84.06				9.80	6.69	0.61
101300.00		84.36	74.85	77.97	84.04				9.50	6.39	0.31
101200.00		84.57	74.84	77.96	84.02				9.72	6.61	0.54
101100.00		84.32	74.83	77.95	84.01				9.49	6.37	0.31
101000.00		84.23	74.82	77.94	83.99				9.40	6.29	0.23
100900.00		84.29	74.81	77.93	83.98				9.47	6.36	0.31
100800.00		86.18	74.80	77.92	83.96				11.38	8.26	2.22
100700.00		87.83	74.67	77.79	83.72				13.15	10.03	4.10
100600.00		84.19	74.57	77.69	83.49				9.62	6.50	0.70
100500.00	83.28	83.26	74.57	77.69	83.49	8.71	5.59	-0.22	8.69	5.57	-0.23
100400.00		83.30	74.57	77.69	83.49				8.73	5.61	-0.20
100300.00		83.02	74.57	77.69	83.50				8.45	5.33	-0.48
100200.00		82.97	74.57	77.69	83.50				8.39	5.27	-0.53
100100.00		82.97	74.57	77.69	83.50				8.39	5.27	-0.53
100000.00	83.14	83.05	74.58	77.70	83.50	8.56	5.44	-0.36	8.48	5.36	-0.45
99900.00		82.99	74.58	77.70	83.50				8.41	5.29	-0.52
99800.00		83.06	74.58	77.70	83.50				8.48	5.36	-0.45
99700.00		82.95	74.58	77.70	83.51				8.37	5.25	-0.56
99600.00		83.13	74.58	77.70	83.51				8.55	5.43	-0.38
99500.00	83.04	83.06	74.58	77.70	83.51	8.46	5.34	-0.47	8.48	5.36	-0.45
99400.00		82.91	74.56	77.68	83.47				8.35	5.23	-0.56
99300.00		82.89	74.54	77.66	83.44				8.36	5.23	-0.54
99200.00		82.95	74.52	77.64	83.41				8.43	5.31	-0.45
99100.00		82.90	74.50	77.62	83.37				8.40	5.28	-0.47
99000.00	82.85	83.10	74.48	77.60	83.34	8.37	5.24	-0.49	8.62	5.50	-0.24
98900.00		82.98	74.46	77.58	83.30				8.53	5.40	-0.32
98800.00		82.78	74.44	77.56	83.27				8.34	5.22	-0.49
98700.00		82.90	74.42	77.54	83.24				8.49	5.36	-0.33
98600.00		83.00	74.40	77.52	83.20				8.60	5.48	-0.20
98500.00	82.76	82.86	74.38	77.50	83.17	8.39	5.26	-0.41	8.49	5.36	-0.31
98400.00		82.86	74.36	77.48	83.14				8.51	5.38	-0.27
98300.00		82.93	74.34	77.46	83.10				8.59	5.46	-0.17
98200.00		82.75	74.32	77.44	83.07				8.43	5.30	-0.32
98100.00		82.61	74.28	77.41	83.01				8.33	5.20	-0.40
98000.00	82.62	82.65	74.25	77.38	82.95	8.37	5.24	-0.33	8.40	5.27	-0.30
97900.00		82.63	74.21	77.34	82.89				8.41	5.28	-0.26
97800.00		82.58	74.18	77.31	82.82				8.40	5.27	-0.24
97700.00		82.45	74.14	77.27	82.76				8.31	5.18	-0.31
97600.00		82.46	74.11	77.24	82.70				8.35	5.22	-0.24
97500.00	82.28	82.24	74.07	77.20	82.63	8.20	5.07	-0.36	8.16	5.03	-0.40
97400.00		82.20	74.04	77.17	82.57				8.17	5.04	-0.37
97300.00		82.19	74.00	77.13	82.51				8.19	5.06	-0.32
97200.00		82.13	73.97	77.10	82.45				8.16	5.03	-0.32
97100.00		81.96	73.93	77.06	82.38				8.03	4.90	-0.43
97000.00	81.99	81.99	73.90	77.03	82.32	8.09	4.96	-0.33	8.09	4.96	-0.33
96900.00		81.86	73.90	77.03	82.32				7.96	4.83	-0.46
96800.00		81.80	73.90	77.03	82.32				7.90	4.77	-0.52
96700.00		81.27	73.90	77.03	82.32				7.37	4.24	-1.05
96600.00	82.17	82.42	73.90	77.03	82.32	8.27	5.14	-0.15	8.52	5.39	0.10
96500.00	82.57	82.53	73.90	77.03	82.32	8.67	5.54	0.25	8.63	5.50	0.21
96400.00		82.37	73.90	77.03	82.32				8.47	5.34	0.05
96300.00		82.48	73.90	77.03	82.32				8.58	5.45	0.16

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
96200.00		82.37	73.90	77.03	82.32				8.47	5.34	0.05
96100.00		82.25	73.90	77.03	82.32				8.35	5.22	-0.07
96000.00	82.08	82.21	73.90	77.03	82.32	8.18	5.05	-0.24	8.31	5.18	-0.11
95900.00		82.07	73.90	77.03	82.32				8.17	5.04	-0.25
95800.00		82.11	73.90	77.03	82.32				8.21	5.08	-0.21
95700.00		82.23	73.86	76.99	82.28				8.37	5.24	-0.05
95600.00		82.22	73.82	76.94	82.23				8.40	5.27	-0.01
95500.00	81.96	82.08	73.77	76.90	82.18	8.19	5.06	-0.22	8.31	5.18	-0.10
95400.00		82.29	73.72	76.85	82.13				8.56	5.44	0.16
95300.00		82.26	73.68	76.80	82.08				8.59	5.46	0.18
95200.00		82.26	73.63	76.75	82.03				8.63	5.51	0.23
95100.00		82.37	73.58	76.71	81.98				8.79	5.67	0.40
95000.00		82.24	73.54	76.66	81.93				8.70	5.58	0.31
94900.00		82.22	73.49	76.61	81.88				8.73	5.61	0.34
94800.00		82.28	73.44	76.56	81.83				8.84	5.72	0.45
94700.00		82.11	73.40	76.52	81.78				8.71	5.59	0.33
94600.00		82.12	73.35	76.47	81.74				8.77	5.65	0.38
94500.00		82.32	73.30	76.43	81.69				9.01	5.89	0.62
94400.00		82.16	73.26	76.38	81.65				8.91	5.78	0.51
94300.00		82.45	73.21	76.34	81.61				9.24	6.11	0.84
94200.00		82.20	73.16	76.29	81.57				9.03	5.91	0.63
94100.00		82.08	73.11	76.24	81.52				8.97	5.84	0.56
94000.00		82.11	73.07	76.20	81.48				9.04	5.91	0.63
93900.00		82.30	73.02	76.15	81.44				9.28	6.14	0.86
93800.00		82.28	72.97	76.11	81.40				9.30	6.17	0.88
93700.00		82.27	72.93	76.06	81.36				9.35	6.21	0.92
93600.00		82.34	72.88	76.02	81.31				9.46	6.32	1.02
93500.00		82.19	72.83	75.97	81.27				9.36	6.22	0.92
93400.00		82.57	72.80	75.94	81.25				9.77	6.63	1.32
93300.00		82.43	72.77	75.92	81.22				9.65	6.51	1.21
93200.00		82.52	72.74	75.89	81.19				9.78	6.64	1.33
93100.00		82.57	72.71	75.86	81.17				9.86	6.71	1.40
93000.00		82.71	72.68	75.83	81.14				10.03	6.88	1.57
92900.00		82.68	72.65	75.80	81.12				10.03	6.88	1.57
92800.00		82.33	72.62	75.78	81.09				9.71	6.55	1.24
92700.00		81.80	72.59	75.75	81.07				9.21	6.05	0.73
92600.00		82.59	72.55	75.72	81.04				10.04	6.87	1.56
92500.00	81.91	82.37	72.52	75.69	81.01	9.39	6.22	0.90	9.85	6.68	1.36
92400.00		82.74	72.49	75.66	80.99				10.25	7.08	1.75
92300.00		82.54	72.46	75.64	80.96				10.08	6.90	1.58
92200.00		82.57	72.43	75.61	80.94				10.13	6.96	1.63
92100.00		82.59	72.40	75.58	80.91				10.19	7.01	1.68
92000.00	82.20	82.65	72.38	75.56	80.89	9.82	6.64	1.31	10.27	7.09	1.75
91900.00		82.78	72.35	75.54	80.87				10.43	7.25	1.91
91800.00		82.93	72.33	75.51	80.85				10.61	7.42	2.08
91700.00		83.12	72.30	75.49	80.83				10.81	7.63	2.29
91600.00		82.92	72.28	75.47	80.81				10.64	7.45	2.11
91500.00	82.15	82.80	72.25	75.45	80.79	9.90	6.71	1.36	10.54	7.35	2.01
91400.00		82.69	72.23	75.42	80.77				10.46	7.27	1.92
91300.00		82.49	72.20	75.40	80.75				10.29	7.09	1.74
91200.00		82.79	72.18	75.38	80.73				10.62	7.42	2.07
91100.00		82.39	72.15	75.36	80.71				10.24	7.04	1.69
91000.00	81.64	82.20	72.13	75.33	80.69	9.51	6.30	0.95	10.07	6.87	1.52
90900.00		82.24	72.11	75.31	80.66				10.13	6.93	1.57
90800.00		82.30	72.08	75.29	80.64				10.22	7.02	1.66
90700.00		82.14	72.06	75.26	80.62				10.09	6.88	1.52
90600.00		82.53	72.03	75.24	80.60				10.50	7.29	1.92
90500.00	82.44	82.76	72.01	75.22	80.58	10.43	7.21	1.85	10.75	7.54	2.18
90400.00		82.60	71.99	75.20	80.57				10.61	7.39	2.03
90300.00		82.39	71.97	75.19	80.55				10.42	7.20	1.84
90200.00		82.36	71.95	75.17	80.53				10.41	7.19	1.83
90100.00		81.99	71.93	75.15	80.51				10.06	6.85	1.48
90000.00	81.48	81.69	71.91	75.13	80.49	9.57	6.35	0.99	9.78	6.56	1.20
89900.00		81.52	71.89	75.11	80.47				9.63	6.41	1.04
89800.00		81.64	71.87	75.09	80.45				9.77	6.55	1.18
89700.00		81.68	71.85	75.07	80.44				9.84	6.61	1.25
89600.00		81.93	71.83	75.05	80.42				10.11	6.88	1.52
89500.00	81.67	81.82	71.81	75.03	80.40	9.87	6.64	1.27	10.01	6.79	1.42
89400.00		82.01	71.78	75.01	80.38				10.23	7.00	1.63
89300.00		81.98	71.76	74.99	80.36				10.22	6.99	1.62
89200.00		82.17	71.74	74.97	80.34				10.43	7.20	1.83
89100.00		82.07	71.72	74.95	80.32				10.34	7.11	1.74
89000.00	82.20	82.13	71.70	74.94	80.31	10.49	7.26	1.89	10.43	7.20	1.83
88900.00		82.30	71.69	74.92	80.29				10.62	7.39	2.02

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
88800.00		82.09	71.67	74.90	80.27				10.42	7.19	1.82
88700.00		81.94	71.65	74.88	80.25				10.29	7.06	1.69
88600.00		81.68	71.63	74.86	80.23				10.05	6.82	1.45
88500.00	81.45	81.59	71.61	74.85	80.22	9.84	6.61	1.24	9.98	6.74	1.37
88400.00		81.54	71.59	74.83	80.20				9.94	6.71	1.34
88300.00		81.65	71.58	74.81	80.18				10.07	6.84	1.47
88200.00	81.60	81.67	71.56	74.79	80.16	10.04	6.80	1.43	10.11	6.88	1.51
88100.00		81.52	71.54	74.78	80.15				9.98	6.74	1.37
88000.00	81.50	81.55	71.52	74.76	80.13	9.98	6.74	1.37	10.03	6.79	1.42
87900.00		81.94	71.50	74.74	80.11				10.43	7.20	1.83
87800.00		82.00	71.48	74.72	80.09				10.52	7.28	1.91
87700.00		82.02	71.47	74.71	80.07				10.55	7.31	1.94
87600.00		81.86	71.45	74.69	80.06				10.41	7.17	1.80
87500.00	81.67	81.95	71.43	74.67	80.04	10.24	7.00	1.63	10.52	7.28	1.92
87400.00		82.23	71.41	74.65	80.02				10.81	7.57	2.21
87300.00		82.27	71.40	74.64	80.00				10.88	7.64	2.28
87200.00		82.31	71.38	74.62	79.98				10.93	7.69	2.33
87100.00		82.18	71.36	74.60	79.96				10.82	7.58	2.22
87000.00	82.15	82.27	71.35	74.59	79.94	10.80	7.56	2.20	10.92	7.68	2.33
86900.00		82.49	71.33	74.57	79.92				11.16	7.92	2.57
86800.00		82.51	71.31	74.55	79.90				11.20	7.96	2.61
86700.00		82.57	71.29	74.53	79.88				11.27	8.03	2.68
86600.00		82.52	71.28	74.52	79.86				11.24	8.00	2.65
86500.00	82.18	82.24	71.26	74.50	79.85	10.92	7.68	2.33	10.98	7.74	2.40
86400.00		81.80	71.24	74.48	79.83				10.55	7.31	1.97
86300.00		81.87	71.23	74.47	79.81				10.64	7.40	2.06
86200.00		81.70	71.21	74.45	79.79				10.49	7.25	1.91
86100.00		81.36	71.17	74.41	79.76				10.19	6.95	1.61
86000.00	81.08	81.23	71.14	74.38	79.72	9.94	6.70	1.36	10.09	6.84	1.50
85900.00		81.22	71.10	74.35	79.69				10.12	6.87	1.53
85800.00		81.89	71.07	74.32	79.66				10.82	7.57	2.23
85700.00		81.92	71.03	74.28	79.63				10.89	7.64	2.30
85600.00		82.14	71.00	74.25	79.60				11.14	7.89	2.55
85500.00	81.94	82.00	70.97	74.22	79.56	10.97	7.72	2.37	11.04	7.79	2.44
85400.00		82.14	70.93	74.19	79.53				11.20	7.95	2.60
85300.00		81.59	70.90	74.15	79.50				10.69	7.44	2.09
85200.00		81.92	70.86	74.12	79.47				11.05	7.80	2.45
85100.00		81.51	70.83	74.09	79.44				10.68	7.42	2.08
85000.00	81.47	81.51	70.79	74.06	79.40	10.68	7.41	2.07	10.72	7.46	2.11
84900.00		81.53	70.76	74.02	79.37				10.77	7.51	2.16
84800.00		81.86	70.72	73.99	79.34				11.14	7.87	2.52
84700.00		82.43	70.69	73.96	79.31				11.74	8.47	3.12
84600.00		82.42	70.65	73.92	79.27				11.78	8.51	3.16
84500.00	82.28	82.50	70.53	73.81	79.16	11.75	8.47	3.12	11.97	8.69	3.34
84400.00		81.97	70.42	73.70	79.05				11.56	8.27	2.92
84300.00		81.88	70.30	73.59	78.94				11.57	8.29	2.94
84200.00		81.57	70.19	73.48	78.83				11.38	8.08	2.73
84100.00		81.78	70.08	73.38	78.73				11.70	8.40	3.05
84000.00		81.75	69.95	73.26	78.60				11.80	8.49	3.15
83900.00		81.44	69.82	73.13	78.48				11.62	8.31	2.96
83800.00		81.27	69.69	73.01	78.35				11.57	8.26	2.92
83700.00		81.00	69.59	72.91	78.25				11.41	8.09	2.75
83600.00		80.96	69.53	72.85	78.18				11.43	8.11	2.78
83500.00		80.58	69.47	72.79	78.12				11.12	7.80	2.47
83400.00		80.54	69.40	72.72	78.05				11.14	7.82	2.49
83300.00		80.36	69.34	72.66	77.99				11.02	7.70	2.38
83200.00		80.34	69.28	72.60	77.92				11.06	7.74	2.42
83100.00		80.17	69.21	72.53	77.86				10.95	7.63	2.31
83000.00	80.35	80.19	69.17	72.49	77.81	11.18	7.86	2.54	11.02	7.70	2.38
82900.00		80.45	69.13	72.45	77.77				11.32	8.00	2.68
82800.00		79.77	69.09	72.42	77.74				10.68	7.35	2.03
82700.00		79.49	69.05	72.38	77.70				10.44	7.11	1.79
82600.00		79.31	69.01	72.34	77.66				10.31	6.97	1.65
82500.00	79.40	79.23	68.96	72.31	77.63	10.43	7.09	1.77	10.26	6.92	1.60
82400.00		79.16	68.92	72.27	77.59				10.24	6.89	1.57
82300.00		79.07	68.88	72.23	77.55				10.19	6.84	1.52
82200.00		79.11	68.85	72.20	77.52				10.26	6.91	1.59
82100.00		79.18	68.82	72.17	77.49				10.36	7.01	1.69
82000.00	78.97	78.92	68.79	72.14	77.46	10.17	6.82	1.50	10.13	6.78	1.46
81900.00		78.69	68.76	72.12	77.43				9.92	6.57	1.25
81800.00		78.53	68.73	72.09	77.40				9.80	6.44	1.13
81700.00		78.83	68.70	72.06	77.37				10.12	6.77	1.45
81600.00		78.70	68.68	72.03	77.35				10.03	6.67	1.36
81500.00	78.99	79.00	68.65	72.00	77.32	10.34	6.99	1.67	10.36	7.00	1.69

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
81400.00		79.03	68.62	71.97	77.29				10.41	7.06	1.74
81300.00		79.24	68.59	71.95	77.26				10.65	7.30	1.98
81200.00		79.21	68.56	71.92	77.23				10.65	7.29	1.98
81100.00		79.15	68.53	71.89	77.20				10.62	7.26	1.95
81000.00	79.02	79.00	68.50	71.86	77.17	10.52	7.16	1.85	10.49	7.14	1.82
80900.00		78.80	68.47	71.83	77.14				10.33	6.97	1.66
80800.00		79.06	68.45	71.81	77.12				10.61	7.25	1.94
80700.00		78.79	68.43	71.80	77.10				10.36	7.00	1.69
80600.00		78.90	68.42	71.78	77.09				10.48	7.12	1.81
80500.00	78.66	78.68	68.40	71.76	77.07	10.26	6.90	1.59	10.28	6.92	1.61
80400.00		78.62	68.38	71.74	77.05				10.24	6.87	1.57
80300.00		79.07	68.36	71.72	77.03				10.71	7.34	2.04
80200.00		79.05	68.34	71.71	77.01				10.71	7.35	2.04
80100.00		79.19	68.32	71.69	76.99				10.86	7.50	2.19
80000.00	79.16	79.16	68.30	71.67	76.97	10.86	7.49	2.19	10.85	7.49	2.18
79900.00		79.04	68.29	71.65	76.96				10.76	7.39	2.09
79800.00		79.11	68.27	71.63	76.94				10.84	7.48	2.17
79700.00		79.12	68.25	71.62	76.92				10.87	7.51	2.20
79600.00		79.12	68.23	71.60	76.90				10.89	7.52	2.22
79500.00	79.24	79.04	68.21	71.58	76.88	11.03	7.66	2.36	10.83	7.46	2.16
79400.00		79.21	68.19	71.56	76.86				11.02	7.65	2.35
79300.00		79.24	68.16	71.53	76.83				11.08	7.71	2.41
79200.00		79.04	68.13	71.51	76.80				10.91	7.53	2.24
79100.00		79.31	68.11	71.48	76.78				11.20	7.83	2.53
79000.00	79.16	79.26	68.08	71.46	76.75	11.08	7.71	2.41	11.18	7.80	2.51
78900.00		79.16	68.06	71.43	76.73				11.11	7.73	2.44
78800.00		79.16	68.03	71.41	76.70				11.13	7.75	2.46
78700.00		78.83	68.00	71.38	76.67				10.83	7.45	2.16
78600.00		78.73	67.98	71.36	76.65				10.76	7.37	2.09
78500.00	78.85	78.87	67.95	71.34	76.62	10.90	7.51	2.23	10.92	7.53	2.25
78400.00		78.38	67.93	71.31	76.60				10.45	7.07	1.78
78300.00		78.22	67.90	71.29	76.57				10.32	6.93	1.65
78200.00		78.69	67.87	71.26	76.54				10.81	7.43	2.14
78100.00		79.21	67.85	71.24	76.52				11.36	7.97	2.69
78000.00	79.14	79.17	67.82	71.21	76.49	11.32	7.93	2.65	11.36	7.97	2.69
77900.00		78.93	67.79	71.18	76.45				11.14	7.75	2.47
77800.00		78.74	67.76	71.15	76.42				10.98	7.59	2.32
77700.00		78.61	67.72	71.11	76.38				10.89	7.50	2.23
77600.00		78.13	67.69	71.08	76.35				10.44	7.05	1.78
77500.00	78.24	78.56	67.66	71.05	76.31	10.58	7.19	1.93	10.90	7.51	2.24
77400.00		78.72	67.63	71.02	76.28				11.09	7.70	2.45
77300.00		78.41	67.60	70.99	76.24				10.81	7.42	2.17
77200.00		78.45	67.56	70.95	76.21				10.89	7.50	2.24
77100.00		78.45	67.53	70.92	76.17				10.92	7.53	2.28
77000.00	78.27	78.40	67.50	70.89	76.14	10.77	7.38	2.14	10.90	7.51	2.26
76900.00		78.36	67.47	70.86	76.10				10.89	7.50	2.26
76800.00		77.99	67.44	70.83	76.07				10.55	7.16	1.92
76700.00		78.15	67.42	70.81	76.04				10.74	7.35	2.11
76600.00		78.16	67.40	70.78	76.02				10.76	7.37	2.14
76500.00	78.16	78.36	67.37	70.76	76.00	10.79	7.40	2.17	10.98	7.60	2.36
76400.00		78.30	67.35	70.74	75.97				10.95	7.56	2.33
76300.00		78.18	67.33	70.72	75.95				10.85	7.46	2.23
76200.00		77.93	67.31	70.70	75.92				10.62	7.23	2.00
76100.00		77.73	67.29	70.67	75.90				10.44	7.05	1.83
76000.00	77.74	77.78	67.27	70.65	75.88	10.47	7.09	1.86	10.51	7.13	1.90
75900.00		77.94	67.25	70.63	75.85				10.69	7.31	2.09
75800.00		78.17	67.23	70.61	75.83				10.95	7.56	2.34
75700.00		77.96	67.20	70.59	75.80				10.76	7.37	2.16
75600.00		77.99	67.18	70.57	75.78				10.81	7.43	2.21
75500.00	78.05	78.11	67.16	70.54	75.76	10.89	7.51	2.30	10.94	7.56	2.35
75400.00		77.90	67.14	70.52	75.73				10.75	7.37	2.16
75300.00		77.51	67.11	70.49	75.70				10.39	7.01	1.80
75200.00		77.55	67.08	70.46	75.66				10.47	7.09	1.89
75100.00		77.61	67.04	70.42	75.62				10.57	7.19	1.99
75000.00	77.85	77.95	67.00	70.38	75.58	10.85	7.47	2.27	10.95	7.57	2.37
74900.00		78.00	66.97	70.35	75.54				11.03	7.65	2.47
74800.00		77.77	66.93	70.31	75.50				10.83	7.45	2.27
74700.00		77.39	66.90	70.28	75.45				10.50	7.12	1.94
74600.00		77.48	66.86	70.24	75.41				10.62	7.24	2.07
74500.00	77.32	77.57	66.82	70.20	75.37	10.50	7.12	1.95	10.74	7.36	2.19
74400.00		77.54	66.79	70.17	75.33				10.75	7.37	2.21
74300.00		77.56	66.75	70.13	75.29				10.81	7.43	2.27
74200.00		77.31	66.71	70.09	75.25				10.60	7.22	2.07
74100.00		77.54	66.68	70.06	75.21				10.86	7.48	2.33

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
74000.00	77.29	77.46	66.65	70.03	75.17	10.64	7.26	2.11	10.81	7.44	2.29
73900.00		77.56	66.62	70.00	75.14				10.94	7.56	2.42
73800.00		77.62	66.59	69.96	75.10				11.03	7.65	2.52
73700.00		77.62	66.56	69.93	75.06				11.06	7.68	2.55
73600.00		77.30	66.53	69.90	75.03				10.78	7.40	2.27
73500.00	77.19	77.43	66.50	69.87	74.99	10.69	7.31	2.19	10.93	7.56	2.44
73400.00		77.50	66.47	69.84	74.96				11.03	7.65	2.54
73300.00		77.60	66.44	69.81	74.92				11.16	7.79	2.68
73200.00		77.46	66.41	69.78	74.88				11.06	7.68	2.58
73100.00		77.51	66.37	69.75	74.85				11.14	7.77	2.67
73000.00	77.39	77.43	66.34	69.72	74.81	11.05	7.68	2.58	11.09	7.71	2.62
72900.00		77.11	66.31	69.68	74.78				10.79	7.42	2.33
72800.00		76.75	66.29	69.66	74.75				10.46	7.09	2.01
72700.00		76.81	66.27	69.64	74.73				10.54	7.17	2.09
72600.00		77.04	66.25	69.62	74.70				10.79	7.42	2.33
72500.00	77.12	77.13	66.23	69.60	74.68	10.89	7.52	2.44	10.90	7.53	2.45
72400.00		77.09	66.21	69.58	74.66				10.88	7.51	2.43
72300.00		76.99	66.19	69.56	74.63				10.80	7.43	2.35
72200.00		77.05	66.17	69.54	74.61				10.88	7.51	2.44
72100.00		76.88	66.15	69.52	74.59				10.73	7.36	2.30
72000.00	76.96	77.10	66.13	69.50	74.56	10.83	7.46	2.39	10.97	7.60	2.53
71900.00		76.86	66.11	69.48	74.54				10.75	7.38	2.32
71800.00		76.76	66.09	69.46	74.52				10.67	7.30	2.24
71700.00		76.54	66.07	69.44	74.50				10.47	7.10	2.04
71600.00		76.49	66.05	69.42	74.47				10.44	7.07	2.02
71500.00	76.82	76.85	66.03	69.40	74.45	10.79	7.42	2.37	10.82	7.45	2.40
71400.00		76.69	66.00	69.38	74.42				10.69	7.32	2.27
71300.00		76.50	65.98	69.35	74.40				10.52	7.15	2.11
71200.00		76.81	65.95	69.33	74.37				10.85	7.48	2.44
71100.00		76.72	65.93	69.30	74.34				10.79	7.42	2.38
71000.00	76.58	76.64	65.90	69.28	74.31	10.68	7.30	2.27	10.74	7.37	2.33
70900.00		76.68	65.88	69.25	74.28				10.81	7.43	2.40
70800.00		76.66	65.85	69.23	74.26				10.81	7.44	2.41
70700.00		76.49	65.83	69.20	74.23				10.66	7.29	2.26
70600.00		76.76	65.80	69.18	74.20				10.96	7.58	2.56
70500.00	76.46	76.72	65.77	69.15	74.17	10.68	7.31	2.28	10.94	7.57	2.54
70400.00		76.80	65.75	69.13	74.15				11.05	7.67	2.65
70300.00		76.66	65.72	69.10	74.12				10.94	7.56	2.54
70200.00		76.95	65.70	69.08	74.09				11.25	7.88	2.86
70100.00		76.74	65.67	69.05	74.06				11.07	7.69	2.68
70000.00	76.54	76.82	65.65	69.03	74.03	10.89	7.51	2.50	11.18	7.80	2.79
69900.00		76.76	65.62	69.00	74.01				11.14	7.76	2.75
69800.00		76.26	65.60	68.98	73.98				10.66	7.28	2.28
69700.00		76.11	65.57	68.95	73.95				10.53	7.16	2.16
69600.00		76.10	65.55	68.93	73.92				10.55	7.18	2.18
69500.00	75.96	75.87	65.53	68.90	73.90	10.43	7.06	2.06	10.35	6.97	1.98
69400.00		75.85	65.50	68.88	73.87				10.35	6.97	1.98
69300.00		75.76	65.48	68.85	73.84				10.28	6.91	1.92
69200.00		76.05	65.46	68.83	73.81				10.59	7.22	2.24
69100.00		76.03	65.43	68.80	73.79				10.60	7.22	2.24
69000.00	76.39	76.27	65.41	68.78	73.76	10.98	7.61	2.63	10.86	7.49	2.51
68900.00		75.97	65.38	68.76	73.73				10.59	7.22	2.24
68800.00		75.97	65.36	68.73	73.70				10.61	7.24	2.26
68700.00		76.07	65.34	68.71	73.68				10.73	7.36	2.39
68600.00		76.06	65.31	68.68	73.65				10.75	7.38	2.42
68500.00	76.26	76.19	65.28	68.65	73.62	10.98	7.61	2.65	10.91	7.54	2.57
68400.00		75.78	65.25	68.63	73.59				10.52	7.15	2.19
68300.00		75.91	65.23	68.60	73.56				10.68	7.31	2.35
68200.00		75.89	65.20	68.57	73.53				10.70	7.32	2.36
68100.00		75.67	65.17	68.55	73.50				10.50	7.12	2.17
68000.00	75.64	75.53	65.14	68.52	73.47	10.50	7.12	2.17	10.38	7.01	2.05
67900.00		75.43	65.12	68.49	73.44				10.31	6.94	1.98
67800.00		75.50	65.09	68.47	73.42				10.41	7.03	2.08
67700.00		75.47	65.06	68.44	73.39				10.41	7.03	2.09
67600.00		75.58	65.03	68.41	73.36				10.55	7.17	2.22
67500.00	75.54	75.48	65.01	68.39	73.33	10.53	7.15	2.21	10.47	7.10	2.15
67400.00		75.29	64.98	68.36	73.30				10.31	6.93	1.99
67300.00		75.45	64.95	68.33	73.27				10.49	7.11	2.18
67200.00		75.48	64.93	68.31	73.25				10.55	7.17	2.24
67100.00		75.21	64.91	68.29	73.22				10.30	6.92	1.99
67000.00	75.07	74.78	64.89	68.27	73.19	10.18	6.80	1.87	9.89	6.51	1.58
66900.00		74.69	64.86	68.24	73.17				9.83	6.45	1.52
66800.00		74.92	64.84	68.22	73.14				10.08	6.70	1.78
66700.00		74.65	64.82	68.20	73.11				9.83	6.45	1.54

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
66600.00		74.92	64.79	68.17	73.09				10.12	6.74	1.83
66500.00	75.04	74.85	64.77	68.15	73.06	10.27	6.89	1.98	10.08	6.70	1.79
66400.00		74.78	64.75	68.13	73.03				10.03	6.65	1.74
66300.00		74.64	64.73	68.11	73.01				9.91	6.53	1.63
66200.00		74.59	64.70	68.08	72.98				9.89	6.51	1.61
66100.00		74.28	64.68	68.06	72.95				9.60	6.22	1.33
66000.00	74.34	74.21	64.66	68.04	72.93	9.68	6.30	1.41	9.54	6.16	1.28
65900.00		74.52	64.65	68.03	72.91				9.87	6.49	1.60
65800.00		74.42	64.63	68.01	72.89				9.79	6.41	1.53
65700.00		74.28	64.62	67.99	72.87				9.66	6.29	1.41
65600.00		74.19	64.60	67.98	72.85				9.59	6.22	1.34
65500.00	74.51	74.06	64.59	67.96	72.83	9.92	6.55	1.67	9.48	6.10	1.23
65400.00		73.94	64.57	67.94	72.81				9.37	5.99	1.12
65300.00		73.87	64.56	67.92	72.79				9.32	5.95	1.08
65200.00		74.05	64.54	67.91	72.77				9.51	6.14	1.28
65100.00		74.00	64.52	67.89	72.75				9.47	6.11	1.24
65000.00	74.29	73.83	64.51	67.87	72.73	9.78	6.41	1.55	9.32	5.95	1.09
64900.00		73.91	64.49	67.86	72.71				9.42	6.05	1.20
64800.00		73.68	64.48	67.84	72.69				9.20	5.83	0.98
64700.00		73.28	64.46	67.82	72.67				8.81	5.45	0.60
64600.00		74.08	64.45	67.81	72.66				9.63	6.27	1.43
64500.00	74.31	74.02	64.44	67.80	72.64	9.87	6.51	1.67	9.58	6.22	1.38
64400.00		73.49	64.42	67.78	72.62				9.07	5.71	0.87
64300.00		73.58	64.41	67.77	72.60				9.17	5.81	0.98
64200.00		73.57	64.40	67.75	72.58				9.18	5.82	0.99
64100.00		73.40	64.38	67.74	72.56				9.01	5.66	0.83
64000.00	73.11	72.77	64.37	67.72	72.54	8.74	5.39	0.57	8.40	5.05	0.23
63900.00		72.76	64.36	67.71	72.53				8.41	5.05	0.24
63800.00		72.82	64.34	67.70	72.51				8.48	5.12	0.31
63700.00		72.78	64.33	67.68	72.49				8.45	5.10	0.29
63600.00		72.74	64.32	67.67	72.47				8.42	5.07	0.27
63500.00	72.89	72.41	64.30	67.65	72.45	8.59	5.24	0.44	8.10	4.75	-0.05
63400.00		72.15	64.29	67.64	72.43				7.86	4.51	-0.28
63300.00		72.24	64.28	67.63	72.41				7.96	4.61	-0.18
63200.00		72.15	64.26	67.61	72.40				7.89	4.54	-0.25
63100.00		72.13	64.25	67.60	72.38				7.88	4.54	-0.24
63000.00	72.42	71.98	64.23	67.58	72.36	8.19	4.84	0.06	7.74	4.40	-0.38
62900.00		72.14	64.22	67.57	72.34				7.92	4.57	-0.20
62800.00		72.08	64.21	67.55	72.32				7.87	4.53	-0.24
62700.00		72.02	64.19	67.54	72.30				7.83	4.49	-0.28
62600.00		71.96	64.18	67.52	72.28				7.78	4.44	-0.32
62500.00	72.30	71.92	64.16	67.51	72.27	8.13	4.79	0.03	7.76	4.41	-0.35
62400.00		72.32	64.15	67.49	72.25				8.17	4.82	0.07
62300.00		72.39	64.14	67.48	72.23				8.25	4.91	0.16
62200.00		72.03	64.12	67.46	72.21				7.91	4.57	-0.18
62100.00		72.08	64.11	67.45	72.19				7.98	4.64	-0.11
62000.00	72.29	72.11	64.09	67.43	72.17	8.20	4.86	0.12	8.02	4.68	-0.06
61900.00		72.15	64.08	67.42	72.16				8.07	4.73	-0.01
61800.00		71.99	64.07	67.41	72.14				7.92	4.58	-0.16
61700.00		71.65	64.06	67.40	72.13				7.59	4.25	-0.48
61600.00		71.41	64.05	67.38	72.11				7.36	4.03	-0.70
61500.00	71.66	71.40	64.04	67.37	72.10	7.62	4.28	-0.44	7.36	4.03	-0.70
61400.00		71.49	64.03	67.36	72.08				7.47	4.14	-0.59
61300.00		71.65	64.01	67.35	72.07				7.63	4.30	-0.42
61200.00		71.56	64.00	67.33	72.05				7.56	4.23	-0.49
61100.00		71.49	63.99	67.32	72.04				7.50	4.17	-0.55
61000.00	71.55	71.53	63.98	67.31	72.02	7.57	4.24	-0.47	7.55	4.22	-0.49
60900.00		71.47	63.97	67.30	72.01				7.50	4.18	-0.54
60800.00		71.18	63.96	67.28	71.99				7.23	3.90	-0.81
60700.00		71.14	63.95	67.27	71.98				7.19	3.87	-0.84
60600.00		71.13	63.94	67.26	71.96				7.19	3.87	-0.83
60500.00	71.19	70.95	63.92	67.25	71.95	7.27	3.95	-0.75	7.02	3.70	-1.00
60400.00		71.20	63.91	67.23	71.93				7.29	3.97	-0.73
60300.00		71.24	63.90	67.22	71.92				7.34	4.02	-0.68
60200.00		71.58	63.89	67.21	71.91				7.69	4.37	-0.32
60100.00		71.30	63.88	67.20	71.90				7.42	4.10	-0.59
60000.00	71.68	71.40	63.87	67.19	71.88	7.81	4.49	-0.20	7.53	4.21	-0.48
59900.00		71.65	63.86	67.18	71.87				7.79	4.47	-0.22
59800.00		71.54	63.85	67.17	71.86				7.69	4.37	-0.32
59700.00		71.13	63.84	67.16	71.85				7.29	3.97	-0.71
59600.00		70.78	63.83	67.15	71.83				6.95	3.63	-1.05
59500.00	71.06	70.75	63.82	67.14	71.82	7.24	3.92	-0.76	6.93	3.61	-1.07
59400.00		70.93	63.81	67.13	71.81				7.13	3.81	-0.87
59300.00		70.83	63.80	67.12	71.80				7.03	3.71	-0.97

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations				
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard		
59200.00		70.88	63.79	67.11	71.78			7.09	3.77	-0.91
59100.00		70.99	63.78	67.10	71.77			7.21	3.89	-0.79
59000.00	71.24	70.86	63.77	67.09	71.76	7.47	4.15	7.10	3.78	-0.89
58900.00		70.84	63.76	67.08	71.75			7.09	3.77	-0.90
58800.00		70.78	63.75	67.07	71.74			7.03	3.72	-0.95
58700.00		70.47	63.74	67.06	71.73			6.73	3.41	-1.26
58600.00		70.24	63.73	67.05	71.72			6.51	3.19	-1.48
58500.00	70.83	70.41	63.73	67.05	71.71	7.10	3.78	6.68	3.36	-1.31
58400.00		70.52	63.72	67.04	71.71			6.80	3.48	-1.19
58300.00		70.51	63.71	67.03	71.70			6.80	3.48	-1.18
58200.00		70.46	63.71	67.02	71.69			6.76	3.44	-1.23
58100.00		70.51	63.70	67.02	71.68			6.81	3.49	-1.18
58000.00	70.91	70.48	63.69	67.01	71.68	7.21	3.90	6.79	3.47	-1.20
57900.00		70.53	63.69	67.00	71.67			6.84	3.52	-1.14
57800.00		70.50	63.68	67.00	71.66			6.82	3.51	-1.16
57700.00		70.50	63.67	66.99	71.65			6.83	3.52	-1.15
57600.00		70.54	63.67	66.98	71.65			6.87	3.56	-1.11
57500.00	70.75	70.55	63.66	66.97	71.64	7.08	3.77	6.89	3.57	-1.09
57400.00		70.30	63.66	66.97	71.63			6.64	3.33	-1.33
57300.00		70.32	63.65	66.96	71.62			6.67	3.36	-1.30
57200.00		70.13	63.64	66.95	71.62			6.48	3.17	-1.49
57100.00		70.02	63.64	66.95	71.61			6.38	3.07	-1.59
57000.00	70.25	70.08	63.63	66.94	71.60	6.62	3.31	6.45	3.14	-1.53
56900.00		70.27	63.62	66.93	71.59			6.65	3.34	-1.32
56800.00		70.34	63.61	66.92	71.58			6.73	3.42	-1.24
56700.00		70.48	63.61	66.92	71.57			6.87	3.56	-1.10
56600.00		70.60	63.60	66.91	71.56			7.00	3.69	-0.97
56500.00	70.94	70.57	63.59	66.90	71.55	7.35	4.04	6.98	3.67	-0.98
56400.00		70.58	63.58	66.89	71.55			6.99	3.68	-0.97
56300.00		70.50	63.57	66.88	71.54			6.93	3.62	-1.03
56200.00		70.47	63.57	66.88	71.53			6.91	3.60	-1.05
56100.00		70.53	63.56	66.87	71.52			6.97	3.66	-0.99
56000.00	70.77	70.27	63.55	66.86	71.51	7.22	3.91	6.72	3.41	-1.24
55900.00		69.95	63.54	66.85	71.50			6.41	3.10	-1.55
55800.00	69.97	69.83	63.53	66.84	71.49	6.44	3.13	6.29	2.98	-1.66
55700.00	69.88	69.61	63.52	66.83	71.48	6.36	3.05	6.08	2.77	-1.87
55600.00	69.97	69.67	63.52	66.83	71.47	6.45	3.14	6.16	2.85	-1.79
55500.00	70.00	69.68	63.51	66.82	71.46	6.49	3.18	6.17	2.86	-1.78
55400.00	69.89	69.70	63.50	66.81	71.44	6.39	3.08	6.21	2.90	-1.74
55300.00	69.93	69.73	63.48	66.79	71.43	6.45	3.14	6.25	2.94	-1.70
55200.00		69.94	63.47	66.78	71.42			6.47	3.16	-1.47
55100.00		70.20	63.46	66.77	71.40			6.74	3.43	-1.20
55000.00	70.91	70.32	63.45	66.76	71.39	7.46	4.15	6.88	3.57	-1.07
54900.00		70.42	63.43	66.74	71.38			6.98	3.67	-0.96
54800.00		70.16	63.42	66.73	71.36			6.74	3.43	-1.20
54700.00		70.10	63.41	66.72	71.35			6.69	3.38	-1.25
54600.00		70.25	63.39	66.70	71.33			6.86	3.55	-1.08
54500.00	70.60	70.26	63.38	66.69	71.31	7.22	3.91	6.88	3.57	-1.05
54400.00		70.07	63.37	66.67	71.30			6.70	3.40	-1.22
54300.00		70.13	63.35	66.66	71.28			6.78	3.47	-1.15
54200.00		69.90	63.34	66.64	71.26			6.56	3.26	-1.36
54100.00		69.88	63.33	66.63	71.24			6.55	3.25	-1.37
54000.00	70.38	69.97	63.31	66.62	71.23	7.07	3.77	6.65	3.35	-1.26
53900.00		69.94	63.30	66.60	71.21			6.64	3.33	-1.27
53800.00		69.92	63.28	66.59	71.19			6.63	3.33	-1.27
53700.00		70.22	63.27	66.57	71.17			6.95	3.65	-0.95
53600.00		70.31	63.26	66.56	71.16			7.06	3.76	-0.84
53500.00	70.22	69.99	63.24	66.54	71.14	6.97	3.67	6.75	3.45	-1.15
53400.00		69.87	63.23	66.53	71.13			6.64	3.34	-1.26
53300.00		70.08	63.22	66.52	71.11			6.86	3.56	-1.03
53200.00		70.23	63.21	66.51	71.10			7.02	3.72	-0.87
53100.00		70.12	63.20	66.50	71.08			6.93	3.63	-0.96
53000.00	70.56	70.58	63.18	66.48	71.07	7.38	4.08	7.40	4.10	-0.48
52900.00		70.54	63.17	66.47	71.05			7.37	4.07	-0.51
52800.00		70.57	63.16	66.46	71.04			7.42	4.12	-0.46
52700.00		70.39	63.15	66.45	71.02			7.24	3.95	-0.63
52600.00		70.07	63.14	66.43	71.01			6.93	3.63	-0.95
52500.00	70.23	69.99	63.13	66.42	71.00	7.11	3.81	6.87	3.57	-1.01
52400.00		69.97	63.12	66.41	70.99			6.85	3.56	-1.02
52300.00		69.83	63.10	66.40	70.97			6.72	3.43	-1.15
52200.00		69.69	63.09	66.39	70.96			6.59	3.30	-1.27
52100.00		69.63	63.08	66.37	70.95			6.54	3.25	-1.32
52000.00	70.24	69.97	63.07	66.36	70.93	7.16	3.87	6.90	3.60	-0.97
51900.00		70.14	63.06	66.35	70.92			7.08	3.79	-0.78

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
51800.00		69.99	63.05	66.34	70.91				6.94	3.65	-0.92
51700.00		69.98	63.04	66.33	70.90				6.94	3.65	-0.92
51600.00		70.05	63.03	66.32	70.89				7.01	3.72	-0.84
51500.00	71.20	70.07	63.02	66.31	70.88	8.17	4.89	0.32	7.05	3.76	-0.80
51400.00		70.59	63.02	66.30	70.86				7.58	4.29	-0.27
51300.00		70.76	63.01	66.29	70.85				7.75	4.46	-0.10
51200.00		70.09	63.00	66.28	70.84				7.09	3.81	-0.75
51100.00			62.99	66.27	70.83						
51000.00			62.98	66.26	70.82						
50900.00			62.97	66.25	70.81						
50800.00			62.96	66.25	70.80						
50700.00			62.95	66.24	70.78						
50600.00			62.94	66.23	70.77						
50500.00			62.93	66.22	70.76						
50400.00			62.92	66.21	70.75						
50300.00			62.91	66.20	70.74						
50200.00			62.91	66.19	70.73						
50100.00			62.90	66.18	70.72						
50000.00			62.89	66.17	70.70						
49900.00			62.88	66.16	70.69						
49800.00			62.87	66.15	70.68						
49700.00			62.86	66.14	70.67						
49600.00			62.81	66.09	70.61						
49500.00			62.76	66.03	70.55						
49400.00			62.71	65.98	70.49						
49300.00			62.65	65.92	70.42						
49200.00			62.60	65.86	70.35						
49100.00			62.54	65.80	70.28						
49000.00			62.48	65.74	70.21						
48900.00			62.42	65.68	70.14						
48800.00			62.36	65.62	70.07						
48700.00			62.19	65.45	69.88						
48600.00			62.01	65.27	69.69						
48500.00			61.90	65.15	69.56						
48400.00			61.84	65.09	69.49						
48300.00			61.77	65.03	69.42						
48200.00			61.71	64.97	69.35						
48100.00			61.65	64.90	69.28						
48000.00			61.62	64.87	69.25						
47900.00			61.60	64.84	69.21						
47800.00		68.78	61.57	64.81	69.18				7.21	3.97	-0.40
47700.00		68.75	61.54	64.78	69.15				7.21	3.97	-0.39
47600.00		68.74	61.51	64.75	69.11				7.23	3.99	-0.37
47500.00	70.15	69.31	61.49	64.72	69.08	8.67	5.44	1.08	7.83	4.59	0.24
47400.00		68.72	61.46	64.69	69.04				7.26	4.03	-0.32
47300.00		68.64	61.43	64.66	69.01				7.21	3.98	-0.37
47200.00		68.39	61.40	64.63	68.97				6.99	3.77	-0.58
47100.00		68.09	61.37	64.60	68.94				6.72	3.50	-0.85
47000.00	68.41	67.75	61.35	64.57	68.91	7.06	3.84	-0.50	6.40	3.18	-1.16
46900.00	68.16	67.53	61.32	64.54	68.87	6.84	3.62	-0.71	6.21	2.99	-1.34
46800.00		67.76	61.29	64.51	68.84				6.46	3.25	-1.08
46700.00	67.98	67.45	61.27	64.48	68.80	6.71	3.50	-0.82	6.18	2.97	-1.35
46600.00	68.01	67.43	61.24	64.45	68.77	6.77	3.56	-0.76	6.19	2.98	-1.34
46500.00	67.87	67.50	61.21	64.42	68.73	6.66	3.45	-0.86	6.29	3.08	-1.23
46400.00		67.46	61.19	64.39	68.70				6.27	3.07	-1.24
46300.00	67.97	67.41	61.16	64.36	68.66	6.81	3.61	-0.69	6.25	3.05	-1.26
46200.00		67.43	61.13	64.33	68.63				6.30	3.10	-1.20
46100.00		67.41	61.10	64.30	68.60				6.30	3.11	-1.19
46000.00	68.11	67.60	61.08	64.27	68.56	7.03	3.84	-0.45	6.52	3.33	-0.96
45900.00		67.63	61.05	64.24	68.53				6.59	3.40	-0.89
45800.00		67.75	61.02	64.21	68.49				6.73	3.54	-0.74
45700.00		67.89	60.99	64.18	68.46				6.90	3.71	-0.57
45600.00		68.07	60.96	64.14	68.42				7.11	3.92	-0.36
45500.00	68.05	67.71	60.93	64.11	68.39	7.12	3.94	-0.33	6.78	3.60	-0.67
45400.00		67.61	60.90	64.08	68.35				6.70	3.52	-0.75
45300.00		67.31	60.88	64.05	68.32				6.43	3.26	-1.01
45200.00		67.39	60.85	64.02	68.28				6.55	3.37	-0.89
45100.00		67.36	60.82	63.99	68.25				6.54	3.37	-0.89
45000.00	67.91	67.78	60.78	63.95	68.20	7.13	3.96	-0.29	6.99	3.83	-0.42
44900.00		67.87	60.75	63.91	68.16				7.12	3.96	-0.29
44800.00		67.37	60.71	63.87	68.11				6.66	3.50	-0.74
44700.00		67.13	60.68	63.83	68.07				6.45	3.30	-0.93
44600.00		67.11	60.64	63.79	68.02				6.46	3.32	-0.91
44500.00	67.26	66.98	60.61	63.75	67.97	6.65	3.51	-0.71	6.37	3.23	-1.00

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Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
44400.00		67.02	60.57	63.71	67.93				6.44	3.31	-0.91
44300.00		67.19	60.54	63.67	67.88				6.65	3.52	-0.70
44200.00		66.97	60.50	63.63	67.84				6.47	3.35	-0.86
44100.00		67.23	60.47	63.59	67.79				6.76	3.65	-0.56
44000.00	67.43	67.38	60.43	63.55	67.75	6.99	3.88	-0.32	6.94	3.83	-0.37
43900.00		67.47	60.40	63.51	67.70				7.07	3.97	-0.23
43800.00		67.25	60.37	63.47	67.65				6.89	3.78	-0.40
43700.00		67.29	60.33	63.43	67.61				6.96	3.86	-0.32
43600.00		66.96	60.30	63.39	67.56				6.66	3.57	-0.60
43500.00	66.95	66.79	60.26	63.35	67.52	6.69	3.61	-0.56	6.53	3.44	-0.72
43400.00		66.71	60.23	63.31	67.47				6.48	3.40	-0.76
43300.00		67.21	60.19	63.27	67.43				7.02	3.94	-0.21
43200.00		67.41	60.16	63.23	67.38				7.25	4.18	0.03
43100.00		67.55	60.12	63.19	67.34				7.42	4.35	0.21
43000.00	67.39	67.22	60.09	63.16	67.29	7.30	4.23	0.10	7.12	4.06	-0.08
42900.00		67.49	60.06	63.12	67.25				7.43	4.37	0.24
42800.00		66.99	60.02	63.08	67.20				6.96	3.90	-0.22
42700.00		66.60	59.99	63.05	67.16				6.61	3.56	-0.56
42600.00		66.93	59.96	63.01	67.12				6.97	3.92	-0.19
42500.00	67.17	66.98	59.93	62.97	67.07	7.25	4.20	0.10	7.06	4.01	-0.09
42400.00		67.15	59.89	62.93	67.03				7.25	4.21	0.12
42300.00		66.84	59.86	62.90	66.98				6.98	3.94	-0.15
42200.00		66.82	59.83	62.86	66.94				7.00	3.97	-0.11
42100.00		66.95	59.79	62.82	66.90				7.16	4.13	0.06
42000.00	67.06	66.90	59.76	62.78	66.85	7.30	4.27	0.20	7.14	4.11	0.05
41900.00		67.00	59.73	62.75	66.81				7.28	4.25	0.19
41800.00		67.30	59.69	62.71	66.76				7.61	4.59	0.54
41700.00		67.09	59.66	62.67	66.72				7.43	4.41	0.37
41600.00		66.90	59.62	62.63	66.67				7.28	4.27	0.23
41500.00	67.05	66.92	59.59	62.59	66.62	7.46	4.46	0.42	7.33	4.33	0.30
41400.00		67.37	59.55	62.55	66.57				7.82	4.82	0.80
41300.00		66.75	59.51	62.50	66.52				7.25	4.25	0.23
41200.00		66.80	59.47	62.46	66.47				7.33	4.34	0.33
41100.00		66.57	59.43	62.41	66.42				7.14	4.15	0.15
41000.00	66.65	66.63	59.39	62.37	66.37	7.26	4.28	0.28	7.23	4.26	0.26
40900.00		66.77	59.35	62.32	66.31				7.42	4.45	0.46
40800.00		66.74	59.31	62.28	66.26				7.43	4.46	0.48
40700.00		66.59	59.27	62.24	66.21				7.31	4.35	0.38
40600.00		66.62	59.23	62.19	66.16				7.39	4.43	0.46
40500.00	66.82	66.90	59.20	62.15	66.11	7.62	4.67	0.71	7.71	4.76	0.79
40400.00		66.77	59.16	62.10	66.06				7.61	4.67	0.71
40300.00		66.73	59.12	62.06	66.01				7.61	4.67	0.72
40200.00		66.56	59.08	62.02	65.96				7.47	4.54	0.60
40100.00		66.46	59.05	61.98	65.91				7.41	4.48	0.55
40000.00	66.60	66.58	59.02	61.94	65.86	7.58	4.66	0.74	7.56	4.64	0.72
39900.00		66.52	58.99	61.90	65.81				7.53	4.62	0.71
39800.00		66.42	58.95	61.86	65.76				7.47	4.57	0.66
39700.00		66.36	58.92	61.82	65.71				7.44	4.54	0.65
39600.00		66.51	58.89	61.78	65.66				7.62	4.73	0.84
39500.00	66.22	66.19	58.85	61.74	65.61	7.37	4.48	0.61	7.33	4.45	0.57
39400.00		66.35	58.82	61.70	65.57				7.53	4.65	0.79
39300.00		66.31	58.79	61.66	65.52				7.53	4.66	0.80
39200.00		66.10	58.75	61.62	65.47				7.35	4.48	0.63
39100.00		66.03	58.72	61.58	65.42				7.31	4.45	0.61
39000.00	66.10	65.97	58.69	61.55	65.39	7.41	4.55	0.71	7.28	4.43	0.59
38900.00		65.99	58.66	61.52	65.35				7.33	4.47	0.64
38800.00		65.92	58.63	61.49	65.32				7.28	4.43	0.60
38700.00		65.92	58.60	61.45	65.29				7.32	4.47	0.64
38600.00		66.20	58.58	61.42	65.25				7.62	4.77	0.94
38500.00	66.23	66.27	58.55	61.39	65.22	7.68	4.84	1.01	7.73	4.88	1.05
38400.00		66.22	58.52	61.36	65.18				7.70	4.86	1.03
38300.00		66.32	58.49	61.33	65.15				7.83	4.99	1.16
38200.00		66.06	58.46	61.30	65.12				7.60	4.76	0.94
38100.00		66.12	58.43	61.27	65.08				7.69	4.86	1.04
38000.00	66.13	66.13	58.40	61.24	65.05	7.73	4.90	1.08	7.73	4.89	1.08
37900.00		66.12	58.37	61.21	65.02				7.75	4.92	1.10
37800.00		65.95	58.35	61.18	64.98				7.61	4.78	0.97
37700.00		65.81	58.32	61.15	64.95				7.49	4.66	0.86
37600.00		65.91	58.30	61.12	64.92				7.61	4.79	0.99
37500.00	66.07	66.03	58.27	61.09	64.88	7.80	4.98	1.18	7.76	4.94	1.15
37400.00		66.07	58.25	61.06	64.85				7.83	5.01	1.22
37300.00		65.82	58.22	61.03	64.82				7.60	4.79	1.00
37200.00		65.87	58.20	61.00	64.78				7.67	4.86	1.08
37100.00		65.64	58.17	60.97	64.75				7.47	4.67	0.89

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
37000.00	65.62	65.56	58.15	60.95	64.72	7.47	4.67	0.90	7.41	4.62	0.84
36900.00		65.49	58.12	60.92	64.68				7.37	4.57	0.80
36800.00		65.29	58.10	60.89	64.65				7.19	4.40	0.64
36700.00		65.56	58.07	60.86	64.62				7.48	4.70	0.94
36600.00		65.42	58.05	60.83	64.58				7.37	4.59	0.83
36500.00	65.22	65.22	58.02	60.80	64.55	7.20	4.42	0.67	7.20	4.42	0.67
36400.00		65.18	58.00	60.77	64.52				7.18	4.40	0.66
36300.00		64.85	57.97	60.74	64.48				6.88	4.11	0.37
36200.00		64.82	57.93	60.70	64.43				6.89	4.12	0.39
36100.00		64.72	57.89	60.65	64.37				6.82	4.07	0.35
36000.00	65.00	65.00	57.86	60.60	64.32	7.14	4.39	0.68	7.15	4.40	0.69
35900.00		65.03	57.82	60.56	64.26				7.21	4.47	0.77
35800.00		65.24	57.78	60.51	64.21				7.47	4.73	1.04
35700.00		65.29	57.74	60.47	64.15				7.55	4.83	1.14
35600.00		65.15	57.70	60.42	64.10				7.45	4.73	1.05
35500.00	65.28	65.30	57.66	60.37	64.04	7.62	4.90	1.23	7.64	4.93	1.26
35400.00		65.19	57.62	60.33	63.99				7.57	4.86	1.20
35300.00		65.01	57.58	60.28	63.94				7.42	4.72	1.07
35200.00		65.32	57.54	60.24	63.88				7.77	5.08	1.44
35100.00		65.42	57.51	60.19	63.83				7.91	5.23	1.59
35000.00	65.30	65.37	57.47	60.14	63.77	7.83	5.15	1.53	7.91	5.23	1.60
34900.00		65.36	57.43	60.10	63.72				7.93	5.26	1.64
34800.00		65.50	57.41	60.07	63.69				8.10	5.43	1.81
34700.00		65.44	57.38	60.05	63.66				8.06	5.39	1.78
34600.00		65.20	57.36	60.02	63.62				7.84	5.18	1.57
34500.00	65.16	65.16	57.33	59.99	63.59	7.83	5.17	1.57	7.83	5.17	1.57
34400.00		64.99	57.31	59.97	63.56				7.68	5.02	1.43
34300.00		65.02	57.29	59.94	63.53				7.74	5.08	1.49
34200.00		64.97	57.26	59.91	63.50				7.71	5.06	1.47
34100.00		64.89	57.24	59.89	63.47				7.65	5.00	1.42
34000.00	65.17	65.07	57.22	59.86	63.44	7.95	5.30	1.73	7.85	5.21	1.63
33900.00		64.72	57.19	59.83	63.40				7.52	4.88	1.31
33800.00		64.90	57.17	59.81	63.37				7.73	5.09	1.53
33700.00		64.81	57.15	59.78	63.34				7.67	5.03	1.47
33600.00		64.89	57.12	59.75	63.31				7.76	5.13	1.58
33500.00	64.79	64.66	57.10	59.73	63.28	7.69	5.06	1.51	7.57	4.94	1.39
33400.00		64.64	57.08	59.70	63.24				7.57	4.95	1.40
33300.00		64.55	57.05	59.67	63.21				7.49	4.88	1.34
33200.00		64.45	57.03	59.64	63.17				7.42	4.81	1.28
33100.00		64.35	57.01	59.61	63.14				7.34	4.73	1.21
33000.00	64.54	64.52	56.99	59.58	63.10	7.55	4.96	1.44	7.54	4.94	1.42
32900.00		64.38	56.96	59.55	63.06				7.42	4.83	1.32
32800.00		64.35	56.94	59.52	63.03				7.41	4.83	1.32
32700.00		64.39	56.92	59.50	62.99				7.47	4.89	1.39
32600.00		64.44	56.89	59.47	62.96				7.55	4.97	1.48
32500.00	64.39	64.35	56.87	59.44	62.92	7.52	4.95	1.47	7.48	4.91	1.43
32400.00		64.64	56.85	59.41	62.89				7.79	5.23	1.75
32300.00		64.41	56.83	59.38	62.85				7.59	5.03	1.56
32200.00	64.40	64.40	56.79	59.34	62.80	7.60	5.06	1.59	7.60	5.06	1.59
32100.00		64.26	56.76	59.30	62.75				7.51	4.97	1.52
32000.00		64.37	56.72	59.25	62.70				7.65	5.12	1.67
31900.00		64.39	56.68	59.21	62.64				7.71	5.18	1.75
31800.00		64.15	56.64	59.16	62.59				7.51	4.99	1.57
31700.00	64.06	64.18	56.60	59.12	62.54	7.45	4.94	1.52	7.58	5.06	1.64
31600.00		63.91	56.57	59.08	62.48				7.35	4.83	1.43
31500.00	63.84	63.85	56.53	59.03	62.43	7.31	4.80	1.41	7.33	4.82	1.42
31400.00		63.73	56.49	58.99	62.38				7.24	4.74	1.35
31300.00		63.69	56.45	58.95	62.32				7.24	4.75	1.37
31200.00		63.83	56.42	58.91	62.28				7.41	4.92	1.55
31100.00		63.77	56.41	58.89	62.26				7.36	4.87	1.51
31000.00	63.82	63.75	56.39	58.87	62.24	7.43	4.95	1.58	7.36	4.88	1.51
30900.00		63.72	56.37	58.85	62.21				7.35	4.87	1.50
30800.00		63.77	56.35	58.83	62.19				7.42	4.94	1.58
30700.00		63.79	56.34	58.81	62.17				7.45	4.98	1.62
30600.00		63.37	56.32	58.79	62.15				7.05	4.58	1.23
30500.00	63.33	63.45	56.30	58.77	62.13	7.03	4.56	1.21	7.15	4.68	1.32
30400.00		63.47	56.28	58.75	62.10				7.19	4.73	1.37
30300.00		63.44	56.27	58.73	62.08				7.17	4.71	1.36
30200.00		63.39	56.25	58.71	62.06				7.14	4.69	1.33
30100.00		63.14	56.23	58.69	62.04				6.91	4.45	1.10
30000.00	63.21	63.24	56.21	58.66	62.02	7.00	4.55	1.20	7.03	4.58	1.23
29900.00		63.75	56.21	58.66	62.01				7.55	5.10	1.74
29800.00		63.57	56.20	58.65	62.00				7.37	4.92	1.57
29700.00		63.14	56.20	58.65	62.00				6.94	4.49	1.13

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations					
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard			
29600.00		63.09	56.19	58.64	62.00				6.90	4.44	1.09
29500.00	63.22	63.03	56.18	58.64	62.00	7.03	4.58	1.22	6.85	4.39	1.04
29400.00		63.22	56.18	58.63	61.99				7.04	4.59	1.23
29300.00		63.08	56.17	58.63	61.99				6.91	4.45	1.09
29200.00		62.80	56.17	58.63	61.99				6.63	4.18	0.82
29100.00		62.67	56.16	58.62	61.98				6.51	4.05	0.69
29000.00	62.89	62.62	56.16	58.62	61.98	6.73	4.27	0.91	6.46	4.01	0.64
28900.00		62.66	56.15	58.61	61.98				6.50	4.04	0.68
28800.00		62.49	56.15	58.61	61.97				6.35	3.89	0.52
28700.00		62.66	56.14	58.60	61.97				6.51	4.05	0.69
28600.00		62.51	56.13	58.59	61.96				6.38	3.92	0.55
28500.00	62.75	62.80	56.12	58.58	61.95	6.62	4.17	0.80	6.67	4.22	0.85
28400.00		62.55	56.11	58.57	61.93				6.44	3.98	0.62
28300.00		62.51	56.10	58.56	61.92				6.41	3.96	0.60
28200.00		62.31	56.09	58.54	61.90				6.22	3.77	0.41
28100.00		62.09	56.08	58.53	61.89				6.01	3.56	0.20
28000.00	62.52	62.49	56.07	58.52	61.87	6.45	4.00	0.64	6.43	3.98	0.62
27900.00		62.28	56.05	58.50	61.86				6.23	3.78	0.42
27800.00		64.02	56.04	58.49	61.84				7.98	5.53	2.18
27700.00		65.23	56.03	58.48	61.83				9.20	6.75	3.40
27600.00		65.22	56.02	58.46	61.81				9.20	6.75	3.40
27500.00	65.37	65.59	56.01	58.45	61.80	9.36	6.92	3.57	9.58	7.14	3.79
27400.00		65.61	56.00	58.44	61.78				9.62	7.18	3.83
27300.00		66.25	55.99	58.43	61.77				10.27	7.83	4.48
27200.00		66.35	55.98	58.42	61.76				10.37	7.93	4.59
27100.00		65.69	55.97	58.41	61.75				9.72	7.28	3.94
27000.00	65.35	65.63	55.96	58.40	61.74	9.38	6.94	3.60	9.67	7.23	3.88
26900.00		65.53	55.96	58.40	61.74				9.58	7.14	3.79
26800.00		65.74	55.95	58.39	61.73				9.79	7.35	4.01
26700.00		65.37	55.94	58.38	61.73				9.43	6.99	3.65
26600.00		64.88	55.94	58.38	61.72				8.95	6.51	3.16
26500.00	65.16	65.13	55.93	58.37	61.72	9.23	6.79	3.44	9.20	6.76	3.42
26400.00		64.48	55.92	58.36	61.71				8.56	6.12	2.77
26300.00		63.75	55.92	58.36	61.70				7.83	5.39	2.05
26200.00		63.82	55.91	58.35	61.70				7.91	5.47	2.13
26100.00		64.34	55.90	58.34	61.69				8.44	6.00	2.65
26000.00	65.06	65.03	55.89	58.33	61.68	9.17	6.73	3.38	9.14	6.70	3.35
25900.00		66.41	55.87	58.31	61.66				10.54	8.10	4.75
25800.00		66.16	55.86	58.30	61.64				10.31	7.87	4.52
25700.00		64.85	55.84	58.28	61.62				9.01	6.57	3.22
25600.00		64.38	55.82	58.26	61.60				8.56	6.12	2.77
25500.00	65.01	64.93	55.80	58.24	61.59	9.21	6.77	3.42	9.12	6.68	3.34
25400.00		64.90	55.79	58.23	61.57				9.12	6.68	3.33
25300.00		64.83	55.77	58.21	61.55				9.06	6.62	3.28
25200.00		64.98	55.75	58.19	61.53				9.22	6.78	3.45
25100.00		64.19	55.74	58.18	61.51				8.46	6.02	2.68
25000.00	63.56	63.45	55.72	58.16	61.50	7.84	5.40	2.06	7.73	5.29	1.96
24900.00		64.37	55.70	58.14	61.48				8.67	6.23	2.90
24800.00		64.38	55.69	58.13	61.46				8.69	6.25	2.92
24700.00		64.47	55.67	58.11	61.44				8.80	6.36	3.03
24600.00		63.98	55.66	58.10	61.43				8.32	5.88	2.55
24500.00	63.79	63.73	55.66	58.10	61.43	8.13	5.69	2.36	8.07	5.63	2.30
24400.00		63.98	55.66	58.10	61.43				8.32	5.88	2.55
24300.00		64.02	55.66	58.10	61.43				8.36	5.92	2.59
24200.00		63.31	55.66	58.10	61.43				7.65	5.21	1.88
24100.00		63.27	55.66	58.10	61.43				7.61	5.17	1.84
24000.00	63.93	63.96	55.66	58.10	61.43	8.27	5.83	2.50	8.30	5.86	2.53
23900.00		64.23	55.66	58.10	61.43				8.57	6.13	2.80
23800.00		63.75	55.66	58.10	61.43				8.09	5.65	2.32
23700.00		63.78	55.66	58.10	61.43				8.12	5.68	2.35
23600.00		63.77	55.66	58.10	61.43				8.11	5.67	2.34
23500.00	63.46	63.27	55.66	58.10	61.43	7.80	5.36	2.03	7.61	5.17	1.84
23400.00		63.17	55.66	58.10	61.43				7.51	5.07	1.74
23300.00		63.35	55.66	58.10	61.43				7.69	5.25	1.92
23200.00		62.65	55.65	58.09	61.42				7.00	4.56	1.23
23100.00		62.45	55.64	58.08	61.41				6.81	4.37	1.04
23000.00	62.88	62.73	55.63	58.07	61.40	7.25	4.81	1.48	7.10	4.66	1.33
22900.00		62.63	55.62	58.06	61.39				7.01	4.57	1.24
22800.00		62.28	55.61	58.05	61.38				6.67	4.23	0.90
22700.00		61.98	55.59	58.03	61.37				6.39	3.95	0.61
22600.00		61.63	55.58	58.02	61.36				6.04	3.60	0.27
22500.00	62.07	61.92	55.57	58.01	61.35	6.50	4.06	0.72	6.34	3.90	0.57
22400.00		62.10	55.56	58.00	61.34				6.54	4.10	0.76
22300.00		62.52	55.55	57.99	61.33				6.97	4.53	1.19

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	100YR WSE	200YR WSE	500YR WSE	Field Survey Elevations			CVFED Elevations		
						100YR Freeboard	200YR Freeboard	500YR Freeboard	100YR Freeboard	200YR Freeboard	500YR Freeboard
22200.00		62.41	55.54	57.98	61.32				6.87	4.43	1.09
22100.00		62.40	55.53	57.97	61.31				6.87	4.43	1.09
22000.00	62.10	62.14	55.52	57.96	61.30	6.58	4.14	0.80	6.62	4.18	0.84
21900.00		62.59	55.52	57.96	61.29				7.07	4.63	1.30
21800.00		63.15	55.51	57.95	61.29				7.64	5.20	1.86
21700.00		64.11	55.51	57.95	61.28				8.59	6.15	2.82
21600.00		63.80	55.51	57.95	61.28				8.29	5.85	2.52
21500.00	62.98	63.12	55.50	57.94	61.27	7.48	5.04	1.71	7.62	5.18	1.85
21400.00		63.72	55.50	57.94	61.27				8.21	5.77	2.45
21300.00		64.26	55.50	57.94	61.26				8.76	6.32	2.99
21200.00		63.58	55.49	57.93	61.26				8.09	5.65	2.33
21100.00		62.82	55.49	57.93	61.25				7.33	4.89	1.57
21000.00	62.20	62.37	55.48	57.92	61.24	6.72	4.28	0.96	6.89	4.45	1.13
20900.00		63.10	55.46	57.90	61.22				7.64	5.19	1.87
20800.00		63.07	55.44	57.88	61.20				7.62	5.18	1.86
20700.00		62.70	55.42	57.87	61.19				7.27	4.83	1.51
20600.00		62.51	55.40	57.85	61.17				7.11	4.66	1.34
20500.00	62.20	62.31	55.39	57.83	61.15	6.81	4.36	1.04	6.92	4.47	1.15
20400.00		62.94	55.37	57.82	61.14				7.58	5.13	1.81
20300.00		63.54	55.35	57.80	61.12				8.19	5.74	2.42
20200.00		62.72	55.35	57.79	61.11				7.38	4.93	1.61
20100.00		62.43	55.34	57.78	61.10				7.09	4.65	1.33
20000.00		63.01	55.33	57.77	61.09				7.68	5.24	1.92
19900.00		63.40	55.32	57.76	61.08				8.08	5.64	2.32
19800.00		62.42	55.31	57.75	61.06				7.11	4.67	1.36
19700.00		62.68	55.30	57.74	61.05				7.38	4.94	1.63
19600.00		62.42	55.29	57.73	61.04				7.13	4.69	1.38
19500.00		63.21	55.28	57.72	61.03				7.93	5.49	2.18
19400.00		63.81	55.27	57.71	61.02				8.54	6.10	2.80
19300.00		64.38	55.26	57.70	61.00				9.12	6.68	3.38
19200.00		62.94	55.25	57.69	60.99				7.69	5.26	1.95
19100.00		62.56	55.24	57.68	60.98				7.32	4.88	1.58
19000.00		63.02	55.24	57.67	60.97				7.78	5.35	2.05
18900.00		62.82	55.23	57.66	60.96				7.59	5.16	1.86
18800.00		63.41	55.22	57.65	60.94				8.19	5.76	2.47
18700.00		62.92	55.21	57.63	60.93				7.71	5.29	1.99
18600.00		63.52	55.20	57.62	60.92				8.32	5.90	2.60
18500.00		63.65	55.19	57.61	60.91				8.46	6.04	2.74
18400.00		63.00	55.18	57.60	60.90				7.82	5.40	2.11
18300.00		63.34	55.17	57.59	60.88				8.17	5.75	2.46
18200.00		63.30	55.16	57.58	60.87				8.14	5.72	2.43
18100.00		63.20	55.14	57.56	60.85				8.06	5.64	2.36
18000.00		63.32	55.12	57.54	60.82				8.20	5.78	2.50
17900.00		63.10	55.10	57.51	60.79				8.01	5.59	2.31
17800.00		63.22	55.07	57.49	60.76				8.15	5.73	2.46
17700.00		63.07	55.05	57.46	60.73				8.03	5.61	2.34
17600.00		62.11	55.03	57.44	60.71				7.09	4.67	1.41
17500.00		62.27	55.00	57.41	60.68				7.26	4.85	1.59
17400.00		63.22	54.98	57.39	60.65				8.24	5.83	2.57
17300.00		63.90	54.96	57.36	60.62				8.95	6.54	3.28
17200.00		63.65	54.94	57.34	60.59				8.72	6.31	3.06
17100.00		63.66	54.91	57.32	60.56				8.75	6.35	3.10
17000.00		63.37	54.89	57.29	60.54				8.48	6.08	2.84
16900.00		63.66	54.87	57.27	60.51				8.79	6.39	3.15
16800.00		63.99	54.85	57.25	60.49				9.13	6.73	3.49
16700.00		63.07	54.84	57.24	60.48				8.23	5.83	2.59
16600.00		62.73	54.83	57.23	60.47				7.90	5.50	2.26
16500.00		62.86	54.82	57.22	60.45				8.04	5.64	2.41
16400.00		62.25	54.81	57.20	60.44				7.45	5.05	1.81
16300.00		61.60	54.80	57.19	60.43				6.81	4.41	1.18
16200.00		61.85	54.78	57.18	60.41				7.07	4.67	1.44
16100.00		62.03	54.77	57.17	60.40				7.26	4.86	1.63
16000.00		61.99	54.76	57.15	60.39				7.23	4.84	1.60
15900.00		62.10	54.75	57.14	60.38				7.35	4.96	1.73
15800.00		61.93	54.74	57.13	60.36				7.19	4.80	1.56
15700.00		61.41	54.73	57.12	60.35				6.68	4.29	1.06
15600.00		60.84	54.72	57.11	60.34				6.13	3.74	0.51
15500.00		61.40	54.70	57.09	60.32				6.70	4.31	1.08
15400.00		61.23	54.68	57.07	60.29				6.55	4.16	0.94
15300.00		61.35	54.66	57.05	60.27				6.69	4.31	1.09
15200.00		61.04	54.64	57.03	60.25				6.39	4.01	0.79
15100.00		61.87	54.63	57.01	60.22				7.25	4.87	1.65
15000.00		61.98	54.61	56.99	60.20				7.37	4.99	1.78
14900.00		62.42	54.59	56.97	60.17				7.83	5.46	2.25

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations				
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard		
14800.00		62.21	54.57	56.95	60.15			7.64	5.27	2.07
14700.00		61.42	54.55	56.93	60.12			6.87	4.50	1.30
14600.00		61.55	54.53	56.91	60.10			7.02	4.64	1.45
14500.00		61.95	54.51	56.89	60.07			7.44	5.07	1.88
14400.00		61.52	54.49	56.86	60.05			7.03	4.65	1.47
14300.00		60.95	54.47	56.84	60.03			6.48	4.11	0.92
14200.00		61.32	54.39	56.75	59.91			6.93	4.57	1.41
14100.00		60.39	54.29	56.63	59.76			6.11	3.76	0.63
14000.00		60.31	54.18	56.51	59.62			6.12	3.79	0.69
13900.00		60.48	54.08	56.40	59.47			6.40	4.08	1.00
13800.00		61.67	54.02	56.33	59.39			7.65	5.34	2.29
13700.00		61.80	54.00	56.31	59.36			7.80	5.49	2.43
13600.00		61.90	53.98	56.29	59.34			7.93	5.62	2.57
13500.00		62.40	53.96	56.26	59.31			8.44	6.13	3.08
13400.00		62.86	53.94	56.24	59.29			8.92	6.62	3.57
13300.00		62.03	53.91	56.22	59.26			8.12	5.81	2.77
13200.00		61.54	53.89	56.20	59.24			7.65	5.35	2.31
13100.00		61.09	53.87	56.18	59.21			7.21	4.91	1.87
13000.00		61.28	53.85	56.15	59.19			7.43	5.13	2.09
12900.00		62.08	53.83	56.13	59.16			8.25	5.95	2.92
12800.00		62.25	53.81	56.11	59.13			8.44	6.14	3.11
12700.00		61.75	53.78	56.08	59.10			7.97	5.67	2.65
12600.00		61.88	53.76	56.05	59.07			8.12	5.83	2.81
12500.00		61.72	53.74	56.02	59.03			7.99	5.70	2.69
12400.00		60.02	53.71	55.99	59.00			6.31	4.02	1.02
12300.00		59.19	53.69	55.97	58.97			5.51	3.23	0.23
12200.00		58.98	53.66	55.94	58.93			5.32	3.04	0.05
12100.00		59.47	53.64	55.91	58.90			5.83	3.56	0.57
12000.00		59.74	53.62	55.88	58.87			6.12	3.85	0.87
11900.00		60.07	53.59	55.85	58.83			6.48	4.22	1.24
11800.00		60.18	53.57	55.83	58.80			6.61	4.35	1.38
11700.00		60.25	53.54	55.80	58.76			6.71	4.45	1.49
11600.00		60.22	53.52	55.77	58.73			6.70	4.45	1.49
11500.00		60.23	53.49	55.73	58.69			6.74	4.49	1.54
11400.00		60.33	53.45	55.70	58.64			6.88	4.63	1.69
11300.00		60.32	53.42	55.66	58.60			6.90	4.66	1.72
11200.00		60.20	53.39	55.62	58.55			6.81	4.58	1.65
11100.00		60.11	53.35	55.58	58.51			6.75	4.52	1.60
11000.00		60.02	53.32	55.54	58.46			6.70	4.48	1.56
10900.00		58.74	53.28	55.51	58.42			5.46	3.24	0.33
10800.00		58.81	53.25	55.47	58.37			5.56	3.34	0.44
10700.00		60.29	53.22	55.43	58.33			7.08	4.86	1.97
10600.00		57.60	53.18	55.39	58.28			4.42	2.21	-0.68
10500.00		57.90	53.17	55.38	58.27			4.72	2.51	-0.38
10400.00		57.68	53.16	55.38	58.27			4.52	2.31	-0.58
10300.00		57.85	53.16	55.37	58.26			4.70	2.48	-0.41
10200.00		57.54	53.15	55.36	58.25			4.39	2.17	-0.72
10100.00		57.41	53.14	55.36	58.25			4.27	2.05	-0.84
10000.00		57.40	53.13	55.35	58.24			4.27	2.05	-0.84
9900.00		57.87	53.13	55.35	58.24			4.75	2.53	-0.36
9800.00		62.36	53.04	55.25	58.11			9.32	7.12	4.25
9700.00		58.26	52.81	54.97	57.74			5.45	3.30	0.52
9600.00		57.35	52.79	54.94	57.71			4.56	2.41	-0.37
9500.00		56.96	52.77	54.92	57.69			4.19	2.04	-0.73
9400.00		56.97	52.75	54.90	57.66			4.23	2.08	-0.68
9300.00		57.03	52.73	54.87	57.63			4.30	2.16	-0.60
9200.00		56.94	52.71	54.85	57.60			4.23	2.09	-0.66
9100.00		56.73	52.67	54.81	57.55			4.06	1.92	-0.82
9000.00		56.73	52.62	54.75	57.48			4.11	1.97	-0.76
8900.00		56.67	52.57	54.70	57.42			4.10	1.97	-0.75
8800.00		56.69	52.52	54.65	57.36			4.17	2.05	-0.66
8700.00		56.84	52.47	54.59	57.29			4.37	2.25	-0.45
8600.00		56.61	52.43	54.54	57.23			4.18	2.06	-0.62
8500.00		56.75	52.38	54.49	57.16			4.37	2.26	-0.42
8400.00		56.53	52.31	54.42	57.08			4.22	2.12	-0.54
8300.00		56.65	52.22	54.32	56.96			4.42	2.33	-0.31
8200.00		56.52	52.14	54.22	56.84			4.38	2.30	-0.32
8100.00		56.18	52.05	54.12	56.72			4.13	2.06	-0.54
8000.00		56.40	51.96	54.03	56.60			4.43	2.37	-0.20
7900.00		56.63	51.88	53.93	56.48			4.75	2.70	0.15
7800.00		56.54	51.79	53.83	56.36			4.75	2.71	0.18
7700.00		56.38	51.71	53.73	56.24			4.67	2.64	0.14
7600.00		56.12	51.62	53.64	56.12			4.50	2.49	0.00
7500.00		56.07	51.54	53.55	56.02			4.53	2.52	0.05

Attachment B. Feather River West Levee Project Freeboard Analysis

LEVEE DESIGN STATION	Survey Elevation @ Control Line	CVFED Elevation @ Control Line	Field Survey Elevations			CVFED Elevations				
			100YR WSE	200YR WSE	500YR WSE	100YR Freeboard	200YR Freeboard	500YR Freeboard		
7400.00		56.10	51.49	53.50	55.96			4.60	2.60	0.14
7300.00		56.10	51.44	53.45	55.90			4.65	2.65	0.20
7200.00		56.07	51.39	53.39	55.84			4.68	2.68	0.24
7100.00		55.60	51.34	53.34	55.78			4.25	2.26	-0.18
7000.00		55.93	51.29	53.29	55.72			4.63	2.64	0.21
6900.00		56.92	51.25	53.24	55.65			5.68	3.68	1.27
6800.00		57.37	51.20	53.18	55.59			6.17	4.18	1.77
6700.00		57.22	51.15	53.13	55.53			6.08	4.09	1.69
6600.00		57.17	51.10	53.08	55.47			6.07	4.09	1.70
6500.00		56.90	51.06	53.04	55.43			5.83	3.85	1.47
6400.00		57.00	51.05	53.03	55.42			5.95	3.97	1.58
6300.00		56.75	51.04	53.02	55.40			5.71	3.74	1.35
6200.00		56.66	51.03	53.01	55.39			5.63	3.65	1.27
6100.00		56.67	51.02	52.99	55.38			5.66	3.68	1.30
6000.00		56.89	51.00	52.98	55.36			5.89	3.91	1.53
5900.00		57.00	50.99	52.97	55.35			6.01	4.03	1.66
5800.00		56.89	50.98	52.95	55.33			5.91	3.93	1.56
5700.00		56.70	50.97	52.94	55.32			5.74	3.76	1.39
5600.00		56.76	50.96	52.93	55.30			5.80	3.83	1.46
5500.00		56.53	50.94	52.92	55.29			5.59	3.62	1.24
5400.00		56.43	50.93	52.90	55.27			5.50	3.52	1.15
5300.00		56.43	50.92	52.89	55.26			5.51	3.54	1.17
5200.00		56.38	50.91	52.88	55.25			5.47	3.50	1.14
5100.00		56.18	50.89	52.86	55.23			5.29	3.32	0.95
5000.00		55.86	50.88	52.85	55.22			4.98	3.01	0.64
4900.00		56.04	50.87	52.84	55.20			5.17	3.20	0.84
4800.00		56.26	50.86	52.83	55.19			5.40	3.43	1.07
4700.00		56.23	50.85	52.81	55.17			5.39	3.42	1.06
4600.00		56.03	50.83	52.80	55.16			5.20	3.23	0.87
4500.00		55.78	50.82	52.79	55.14			4.96	2.99	0.64
4400.00		56.09	50.81	52.78	55.13			5.28	3.32	0.96
4300.00		56.35	50.80	52.76	55.12			5.56	3.59	1.24
4200.00		55.82	50.79	52.75	55.10			5.04	3.07	0.72
4100.00		55.79	50.77	52.74	55.09			5.01	3.05	0.70
4000.00		55.92	50.76	52.72	55.07			5.16	3.20	0.85
3900.00		55.73	50.75	52.71	55.06			4.98	3.01	0.67
3800.00		55.64	50.74	52.70	55.04			4.91	2.94	0.60
3700.00		55.60	50.73	52.69	55.03			4.87	2.91	0.57
3600.00		55.57	50.71	52.67	55.01			4.85	2.89	0.55
3500.00		55.61	50.66	52.61	54.94			4.95	2.99	0.66
3400.00		55.52	50.59	52.54	54.85			4.93	2.98	0.67
3300.00		55.48	50.52	52.46	54.75			4.96	3.01	0.72
3200.00		55.46	50.45	52.39	54.66			5.01	3.07	0.80
3100.00		55.38	50.38	52.31	54.57			5.00	3.07	0.82
3000.00		55.38	50.31	52.24	54.47			5.07	3.15	0.91
2900.00		55.13	50.24	52.16	54.38			4.89	2.96	0.75
2800.00		54.88	50.17	52.09	54.28			4.71	2.80	0.60
2700.00		54.87	50.10	52.01	54.19			4.77	2.86	0.68
2600.00		55.23	50.03	51.93	54.10			5.20	3.29	1.13
2500.00		55.01	49.96	51.86	54.01			5.05	3.15	1.00
2400.00		55.02	49.91	51.80	53.93			5.11	3.21	1.09
2300.00		55.19	49.86	51.74	53.85			5.33	3.44	1.34
2200.00		55.06	49.80	51.69	53.77			5.26	3.38	1.30
2100.00		54.84	49.75	51.63	53.69			5.10	3.22	1.16
2000.00		54.69	49.69	51.57	53.60			5.00	3.12	1.09
1900.00		54.74	49.64	51.51	53.52			5.10	3.23	1.21
1800.00		54.61	49.59	51.45	53.44			5.03	3.16	1.17
1700.00		54.58	49.53	51.39	53.37			5.04	3.19	1.21
1600.00		54.70	49.49	51.34	53.29			5.21	3.36	1.41
1500.00		54.53	49.44	51.28	53.22			5.09	3.25	1.31
1400.00		54.42	49.39	51.23	53.14			5.03	3.19	1.27
1300.00		54.58	49.34	51.17	53.07			5.24	3.41	1.51

***Technical Memorandum***

