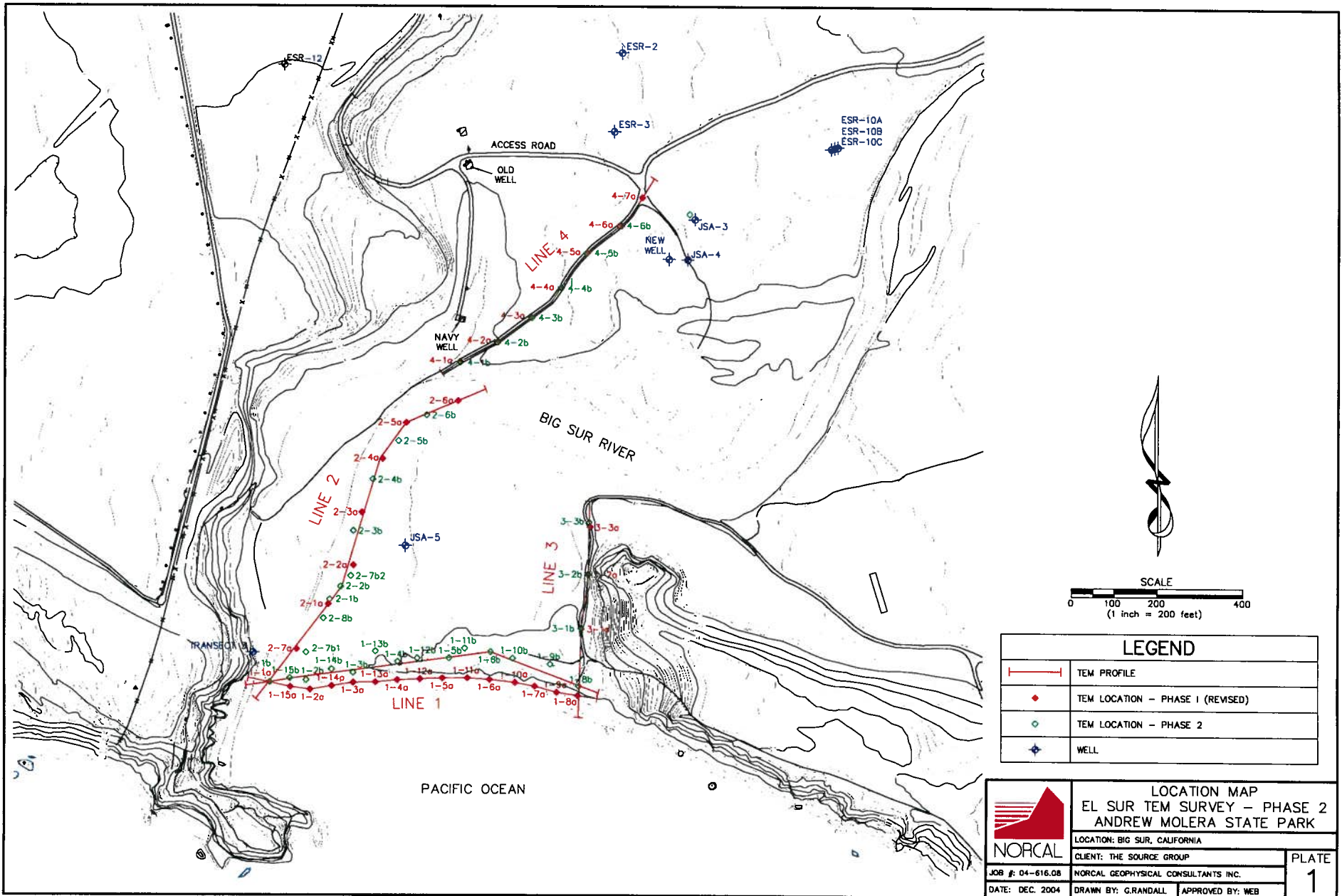
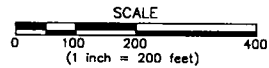


APPENDIX E
HYDROLOGY DATA AND FIGURES

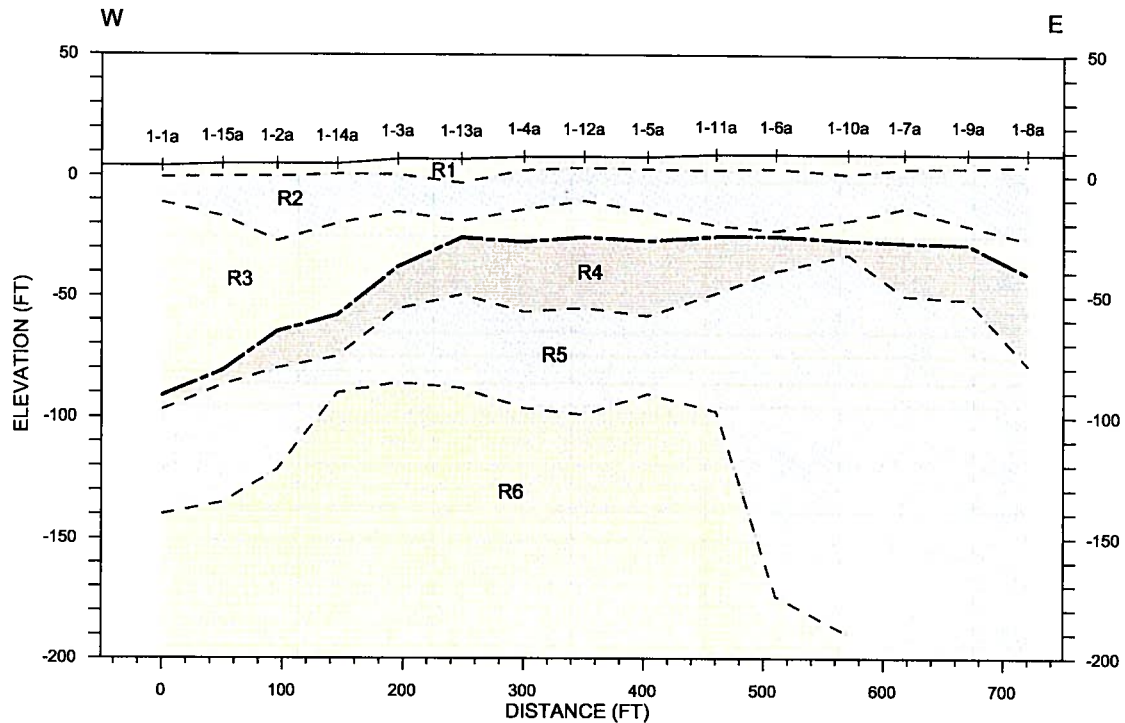


LEGEND	
	TEM PROFILE
	TEM LOCATION - PHASE 1 (REVISED)
	TEM LOCATION - PHASE 2
	WELL



	LOCATION MAP EL SUR TEM SURVEY - PHASE 2 ANDREW MOLERA STATE PARK	
	LOCATION: BIG SUR, CALIFORNIA	
	CLIENT: THE SOURCE GROUP	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB #: 04-616.08	DATE: DEC. 2004	DRAWN BY: G.RANDALL APPROVED BY: WEB
		PLATE 1

NGCI 2005



RESISTIVITY RANGES

- Low (1 - 17 ohm-m)
- Moderate (30 - 80 ohm-m)
- High (105 - 210 ohm-m)

LEGEND

- 1-1a TEM Sounding Location
- Ground Surface
- - - Resistivity Interface
- Interpreted Bedrock Surface
- R1 Resistivity Layer

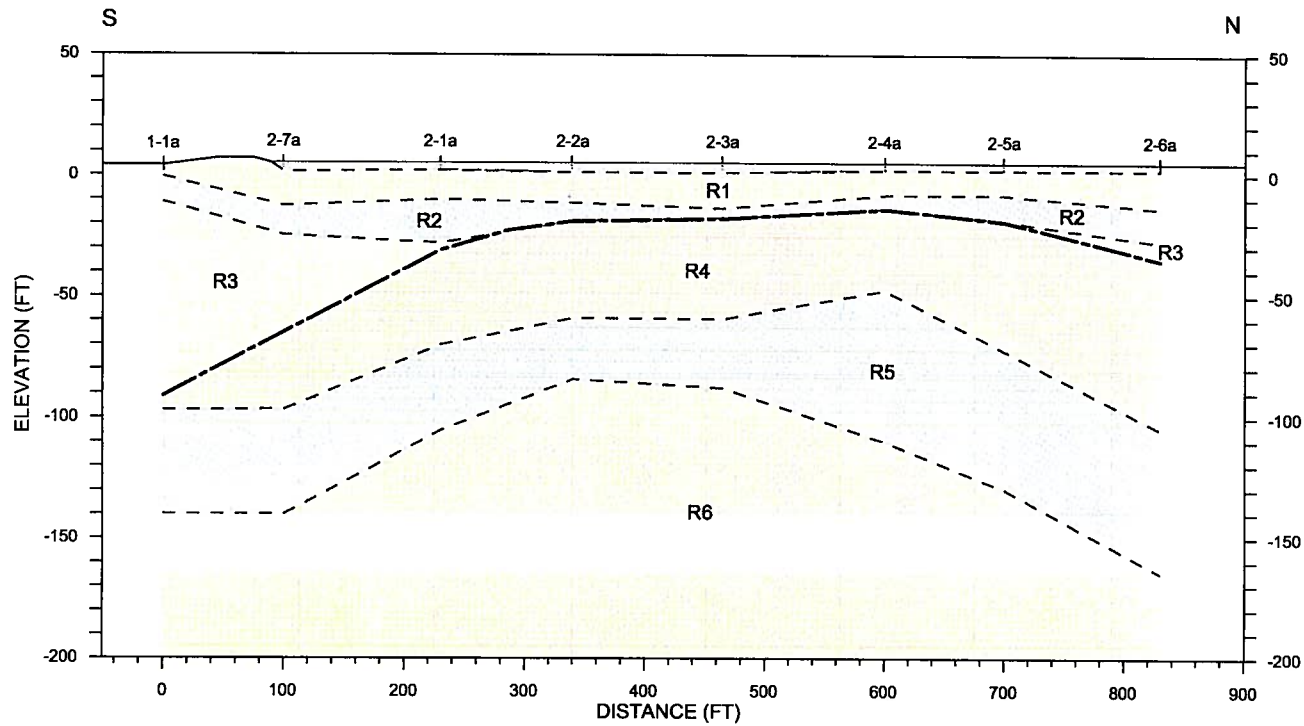
Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet



JOB #: 04-516.08
 DATE: DEC. 2004

LINE 1 - PHASE 1 (Revised) EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
LOCATION: Big Sur, California	
CLIENT: The Source Group	
NORCAL GEOPHYSICAL CONSULTANTS INC.	
DRAWN BY: WEB	APPROVED BY: WEB

PLATE
2




RESISTIVITY RANGES

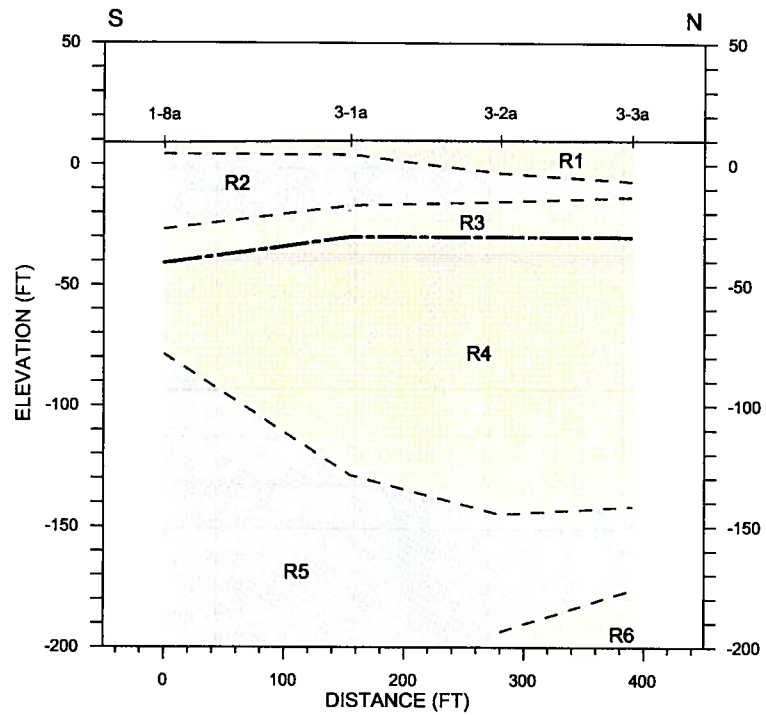
- Low (2 - 11 ohm-m)
- Moderate (70 - 75 ohm-m)
- High (125 - 260 ohm-m)

LEGEND

- 2-1a TEM Sounding Location
- Ground Surface
- - - Resistivity Interface
- - - Interpreted Bedrock Surface
- R1 Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet

 NORCAL	LINE 2 - PHASE 1 (Revised) EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
	LOCATION: Big Sur, California	
	CLIENT: The Source Group	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB #: 04-816.08 DATE: DEC. 2004	DRAWN BY: WEB	APPROVED BY: WEB
		PLATE 3



RESISTIVITY RANGES

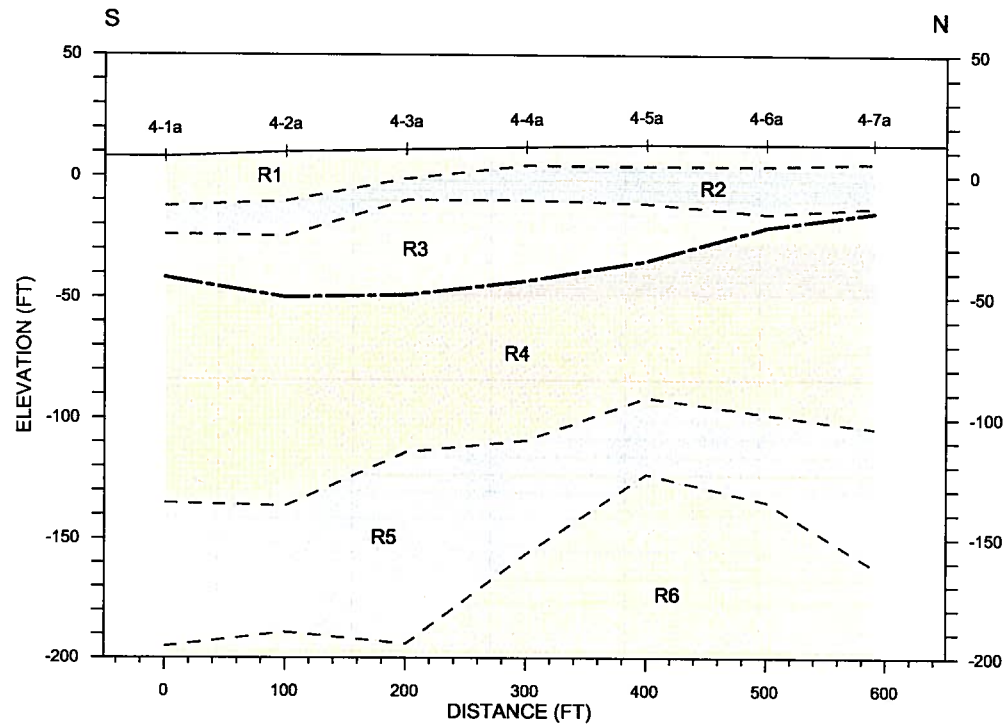
- Low (8 - 17 ohm-m)
- Moderate (70 - 75 ohm-m)
- High (130 - 170 ohm-m)

LEGEND

- 3-1a TEM Sounding Location
- Ground Surface
- - - Resistivity Interface
- - - Interpreted Bedrock Surface
- R1 Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet

	LINE 3 - PHASE 1 (Revised) EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
	LOCATION: Big Sur, California	
	CLIENT: The Source Group	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB #: 04-616.08 DATE: DEC. 2004	DRAWN BY: WEB	APPROVED BY: WEB
		PLATE 4




RESISTIVITY RANGES

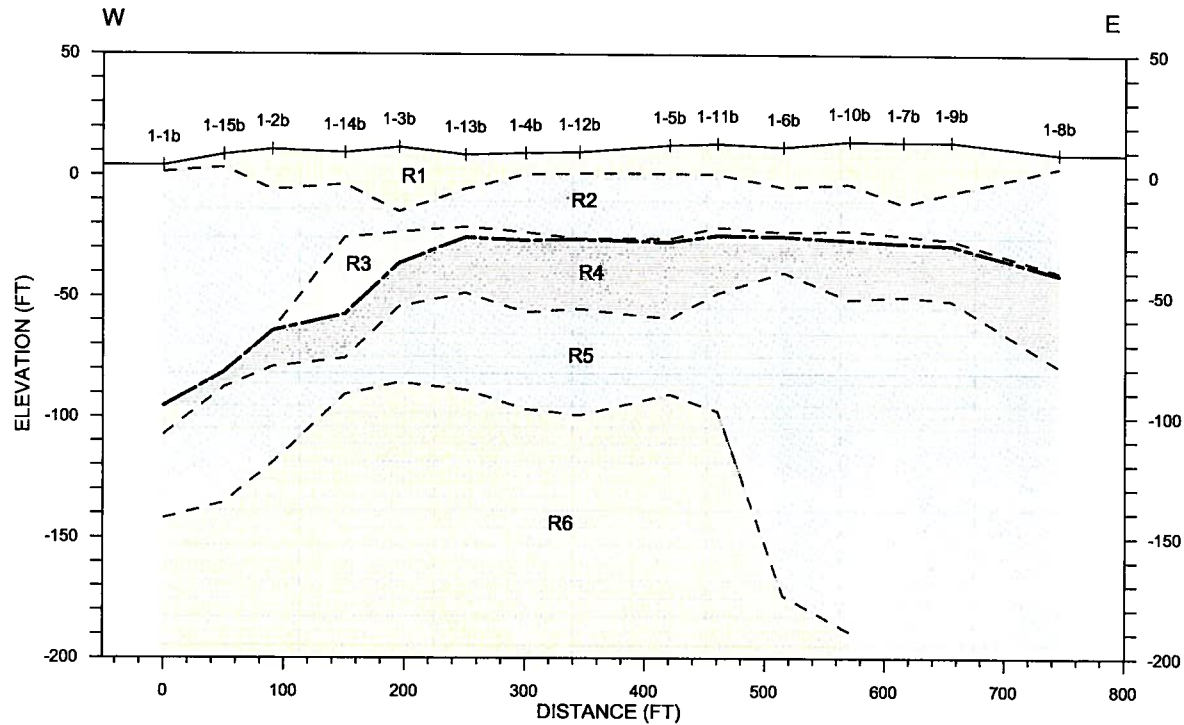
- Low (7 - 18 ohm-m)
- Moderate (65 - 90 ohm-m)
- High (125 - 175 ohm-m)

LEGEND

- 4-1a TEM Sounding Location
- Ground Surface
- - - Resistivity Interface
- - - Interpreted Bedrock Surface
- R1 Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet

 NORCAL	LINE 4 - PHASE 1 (Revised) EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
	LOCATION: Big Sur, California	
	CLIENT: The Source Group	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB #: 04-616.08 DATE: DEC. 2004	DRAWN BY: WEB	APPROVED BY: WEB
		PLATE 5




RESISTIVITY RANGES

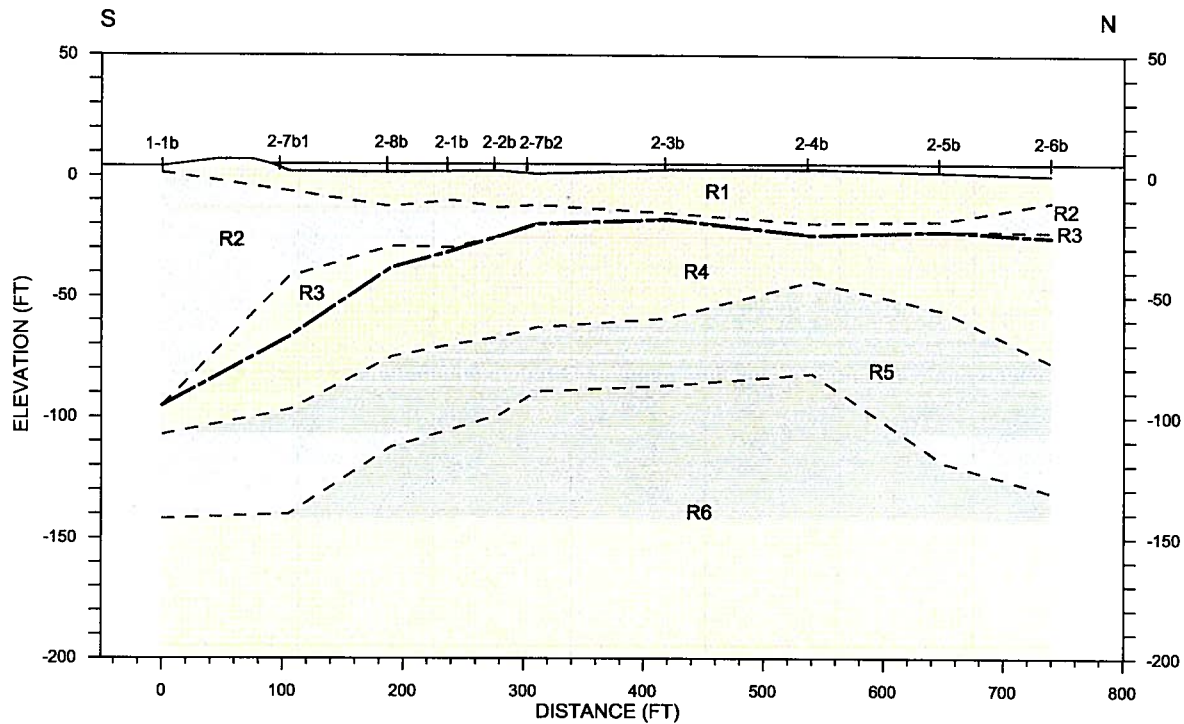
- Low (1 - 25 ohm-m)
- Moderate (50 - 75 ohm-m)
- High (105 - 235 ohm-m)

LEGEND

- 1-1b TEM Sounding Location
- Ground Surface
- - - Resistivity Interface
- - - Interpreted Bedrock Surface
- R1 Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet

 NORCAL	LINE 1 - PHASE 2 EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
	LOCATION: Big Sur, California	
	CLIENT: The Source Group	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB #: 04-616.08	DATE: DEC. 2004	DRAWN BY: WEB APPROVED BY: WEB
		PLATE 6




RESISTIVITY RANGES

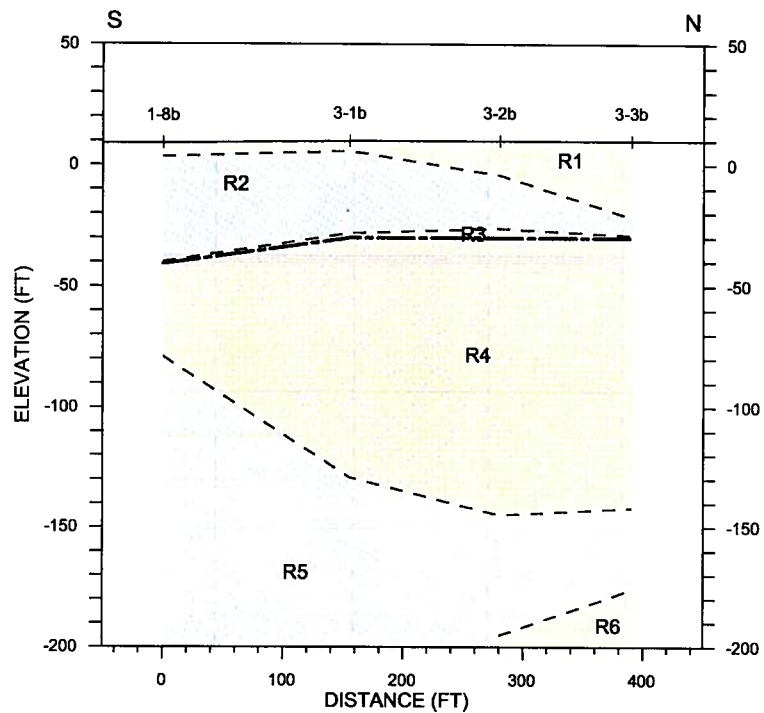
- Low (1 - 15 ohm-m)
- Moderate (35 - 80 ohm-m)
- High (105 - 175 ohm-m)

LEGEND

- 2-1b TEM Sounding Location
- Ground Surface
- - - Resistivity Interface
- - - Interpreted Bedrock Surface
- R1 Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet

 NORCAL	LINE 2 - PHASE 2 EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
	LOCATION: Big Sur, California	
	CLIENT: The Source Group	
	NORCAL GEOPHYSICAL CONSULTANTS INC.	
JOB #: 04-516.08	DATE: DEC, 2004	PLATE 7
DRAWN BY: WEB	APPROVED BY: WEB	




RESISTIVITY RANGES

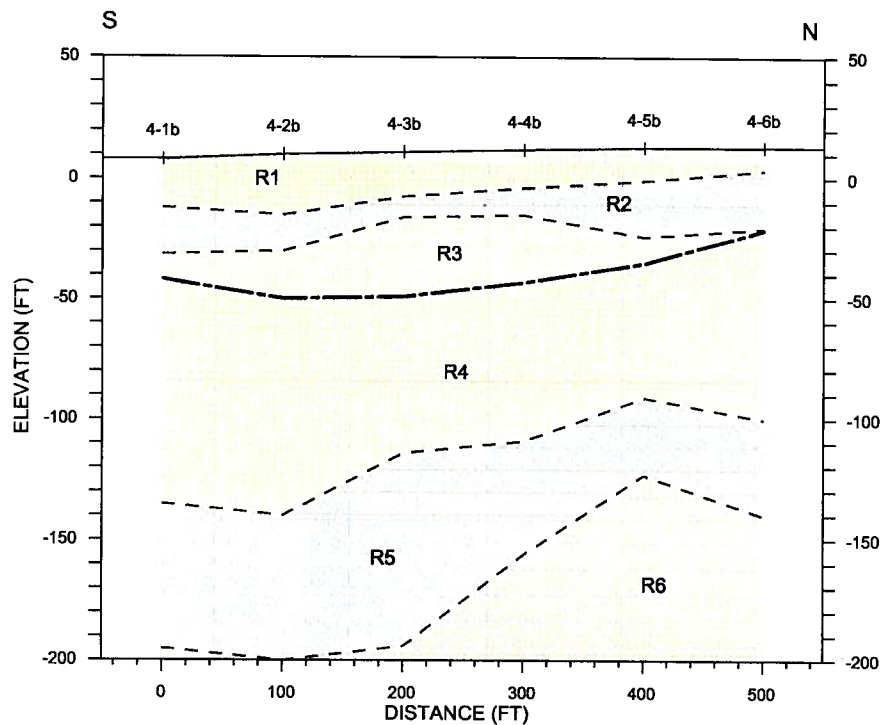
- Low (6 - 25 ohm-m)
- Moderate (35 - 70 ohm-m)
- High (105 - 185 ohm-m)

LEGEND




- 3-1b TEM Sounding Location
- Ground Surface
- Resistivity Interface
- Interpreted Bedrock Surface
- R1** Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
 Vertical Scale: 1 inch = 50 feet






 NORCAL	LINE 3 - PHASE 2 EL SUR TEM SURVEY ANDREW MOLERA STATE PARK	
	LOCATION: Big Sur, California	
JOB #: 04-616.08	CLIENT: The Source Group	
DATE: DEC. 2004	DRAWN BY: WEB	APPROVED BY: WEB
		PLATE 8



RESISTIVITY RANGES

-  Low (9 - 23 ohm-m)
-  Moderate (20 - 70 ohm-m)
-  High (105 - 185 ohm-m)

LEGEND

-  4-1b TEM Sounding Location
-  Ground Surface
-  Resistivity Interface
-  Interpreted Bedrock Surface
-  R1 Resistivity Layer

Horizontal Scale: 1 inch = 100 feet
Vertical Scale: 1 inch = 50 feet


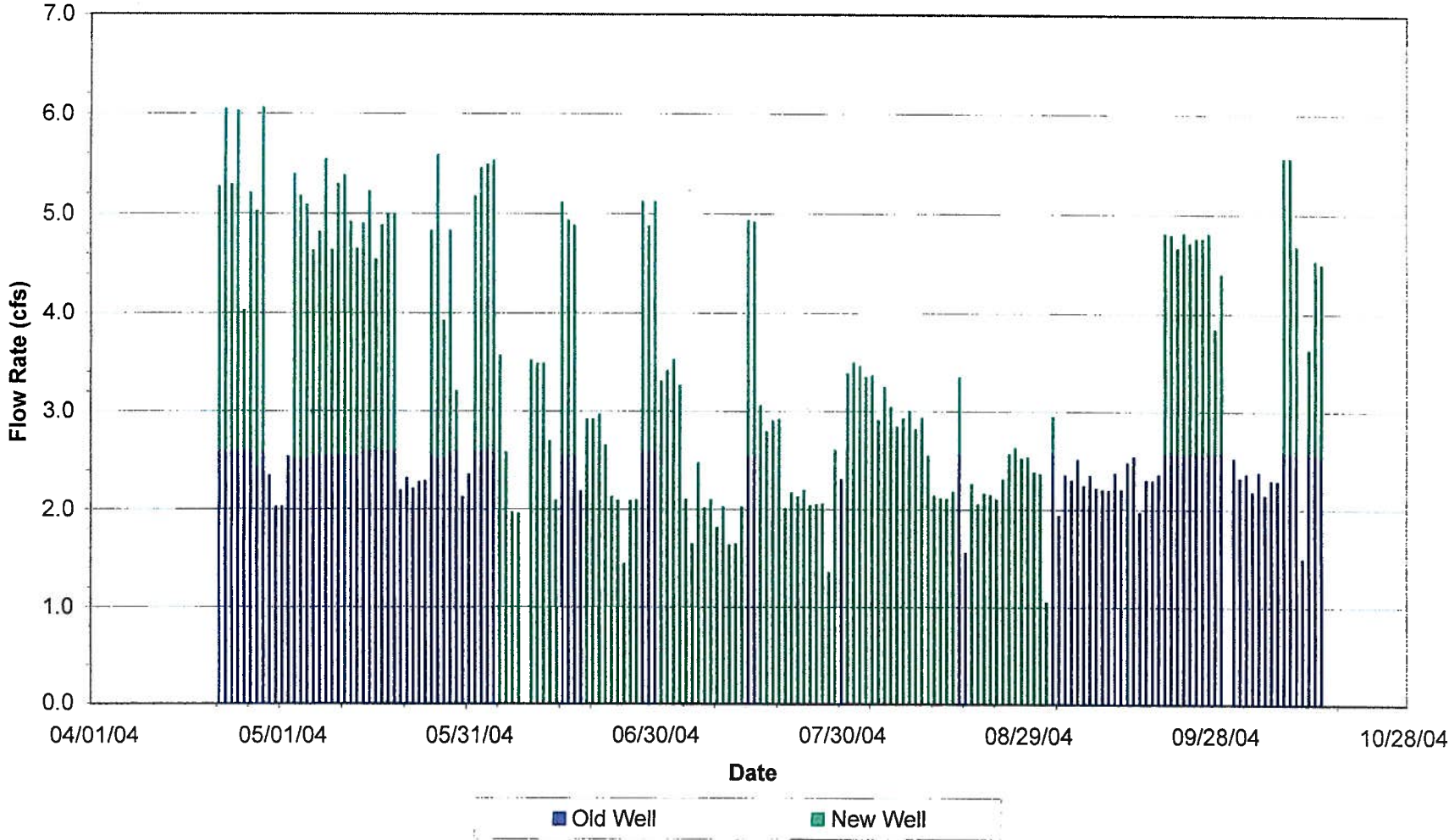
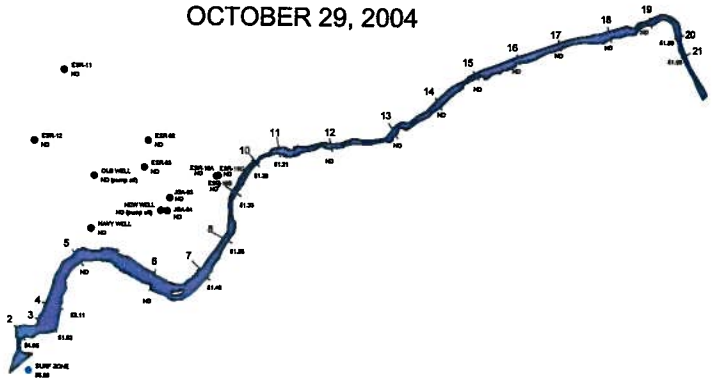
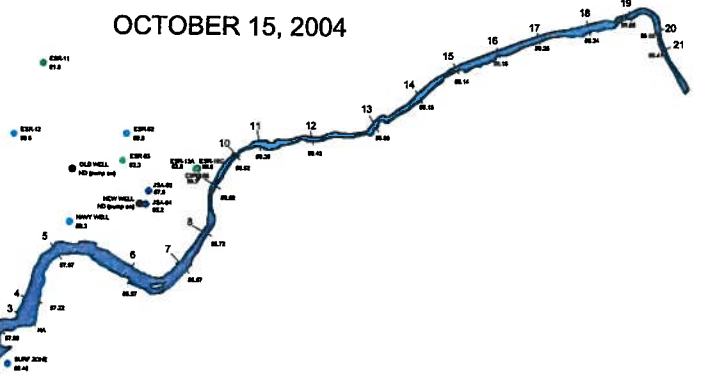
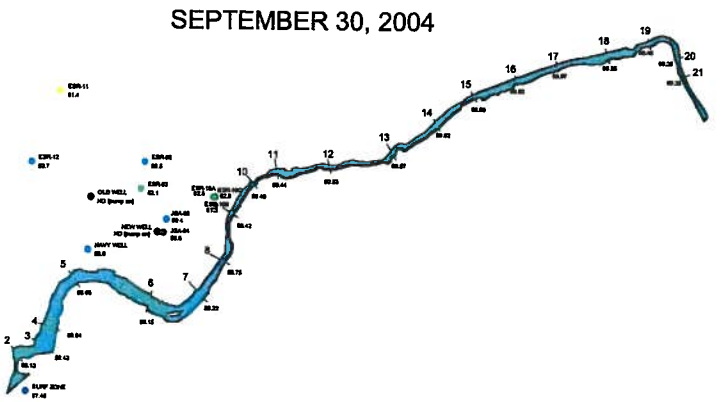
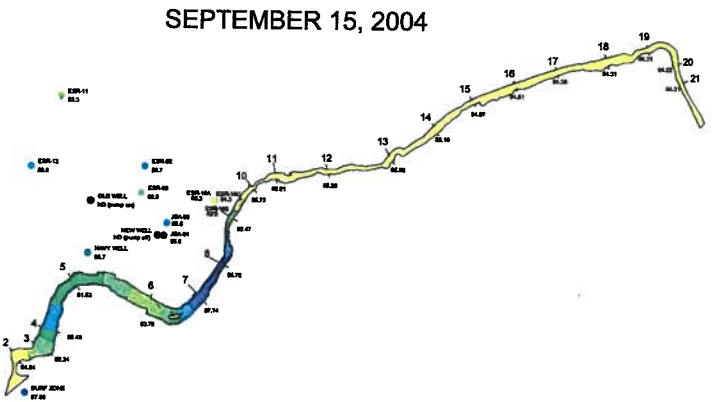
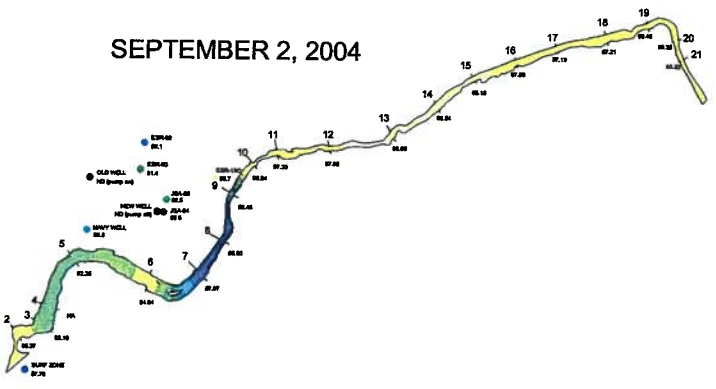
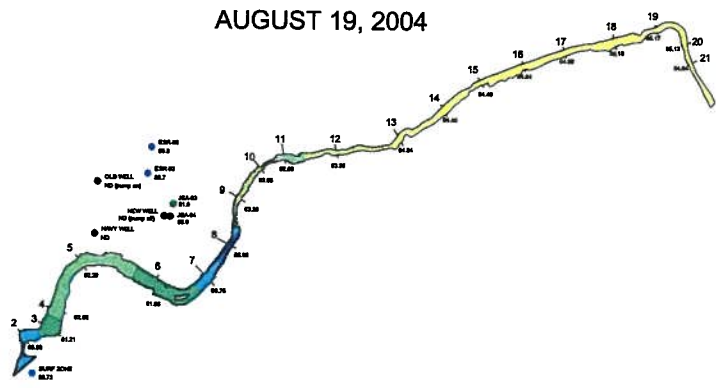
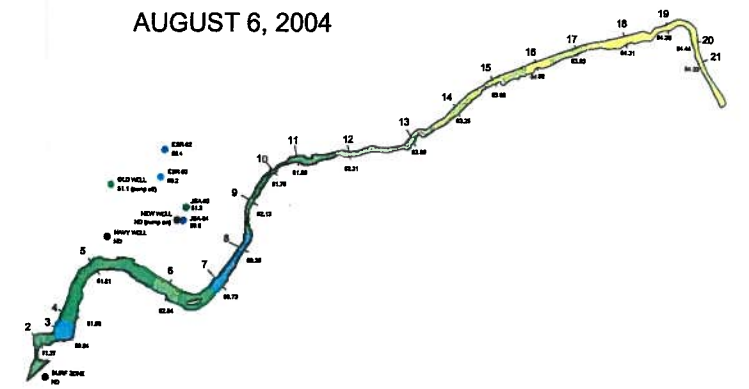
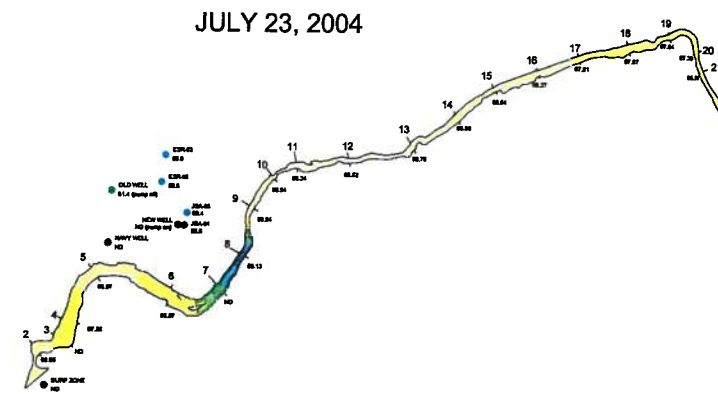
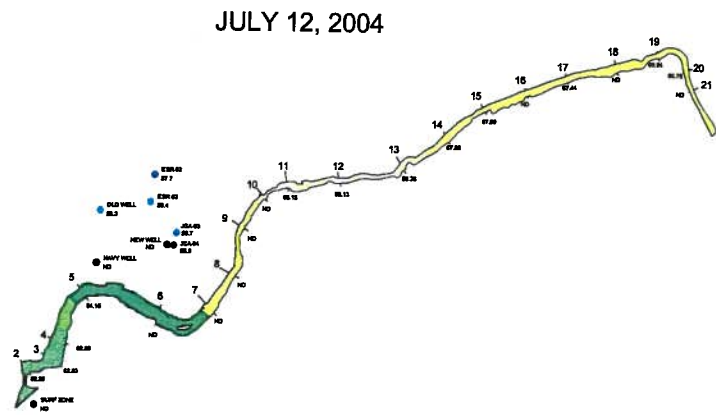
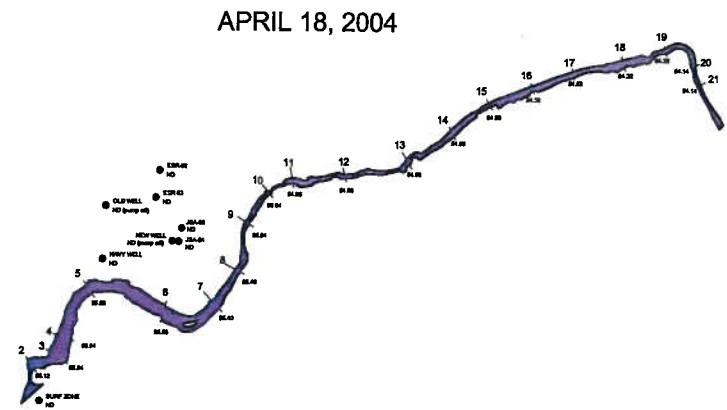
 NORCAL	LINE 4 - PHASE 2 EL SUR TEM SURVEY ANDREW MOLERA STATE PARK		PLATE 9
	LOCATION: Big Sur, California		
	CLIENT: The Source Group		
	NORCAL GEOPHYSICAL CONSULTANTS INC.		
JOB #: 04-616.08	DRAWN BY: WEB	APPROVED BY: WEB	
DATE: DEC. 2004			

Figure 3-30
Daily Pumping Rate for El Sur Ranch
El Sur Ranch

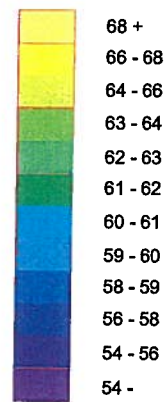


THE SOURCE GROUP, INC.



LEGEND

all temperatures in degrees Fahrenheit



- 12 — temperature data collection river transect
- SURF ZONE 59.3 other temperature data collection point
- ND no data available

PROJECT NO.	DATE	DR. BY	APP. BY
01-ESR-001	4/27/05	JP	PH

Figure 3-33
River Level and Groundwater Level Response to Rain Events
 El Sur Ranch

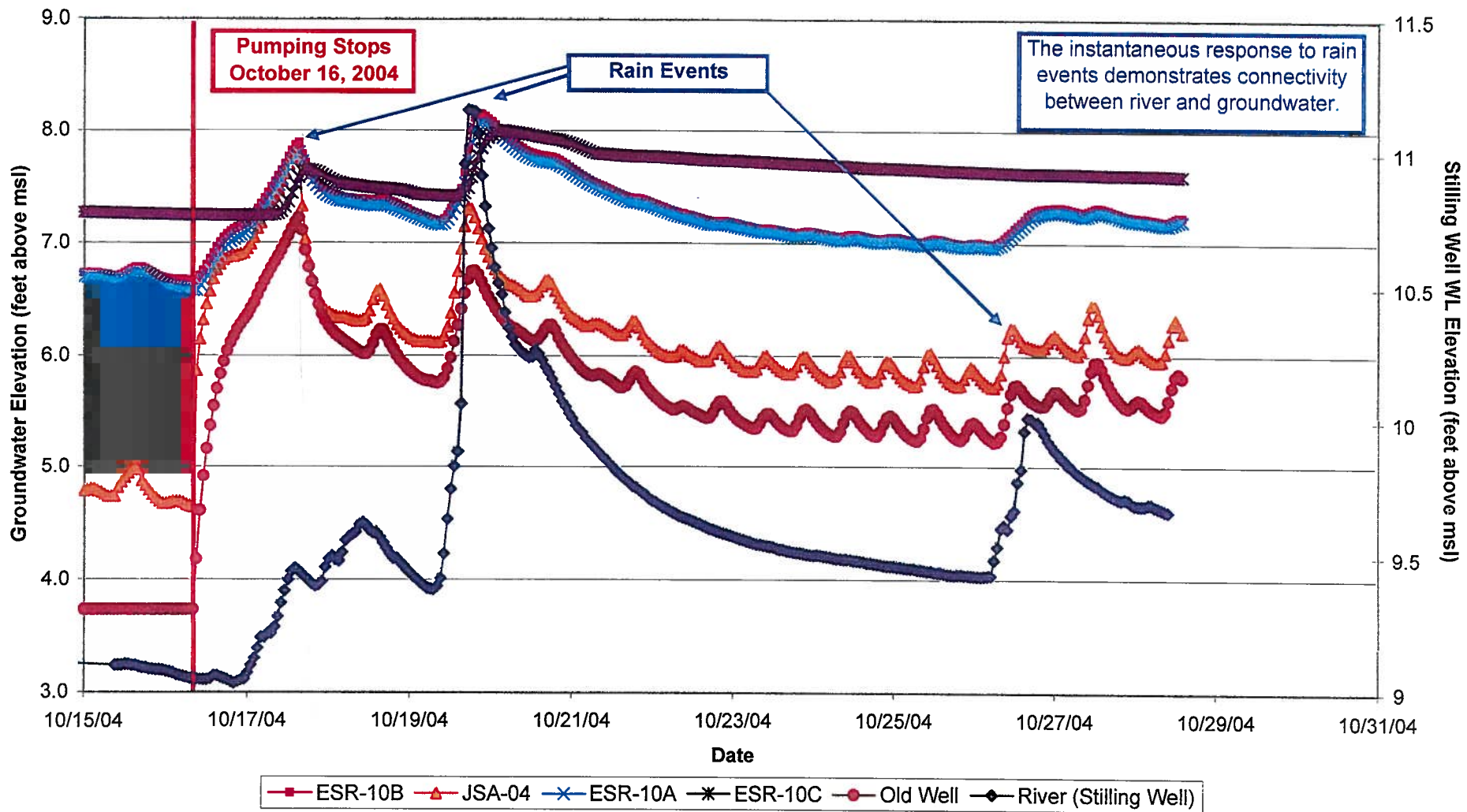


Figure 3-40
Tidal Influence in Aquifer Wells (ESR-10A and ESR-10B)
 El Sur Ranch

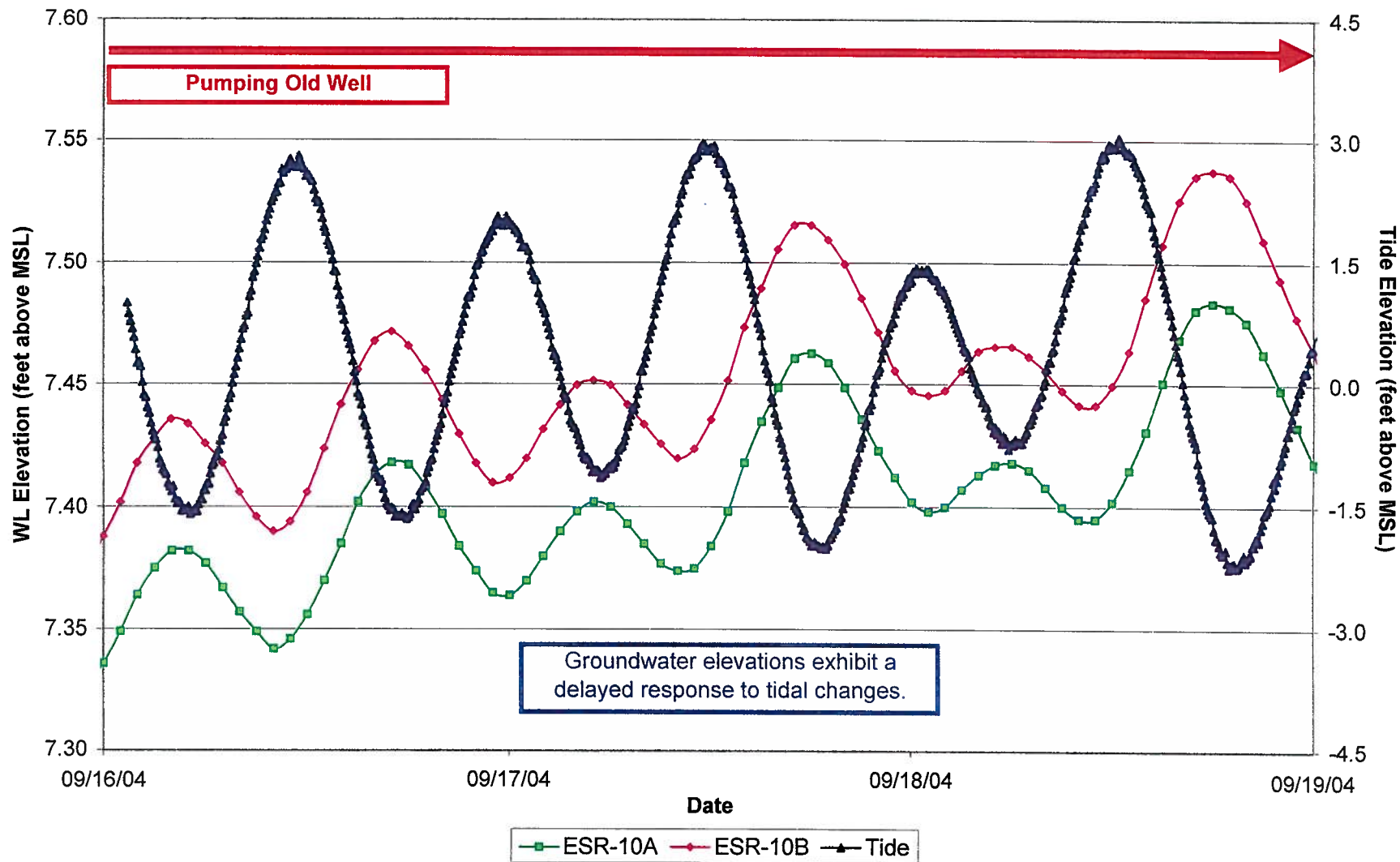


Figure 3-41
Tidal Influence in Terrace Well (ESR-12)
El Sur Ranch

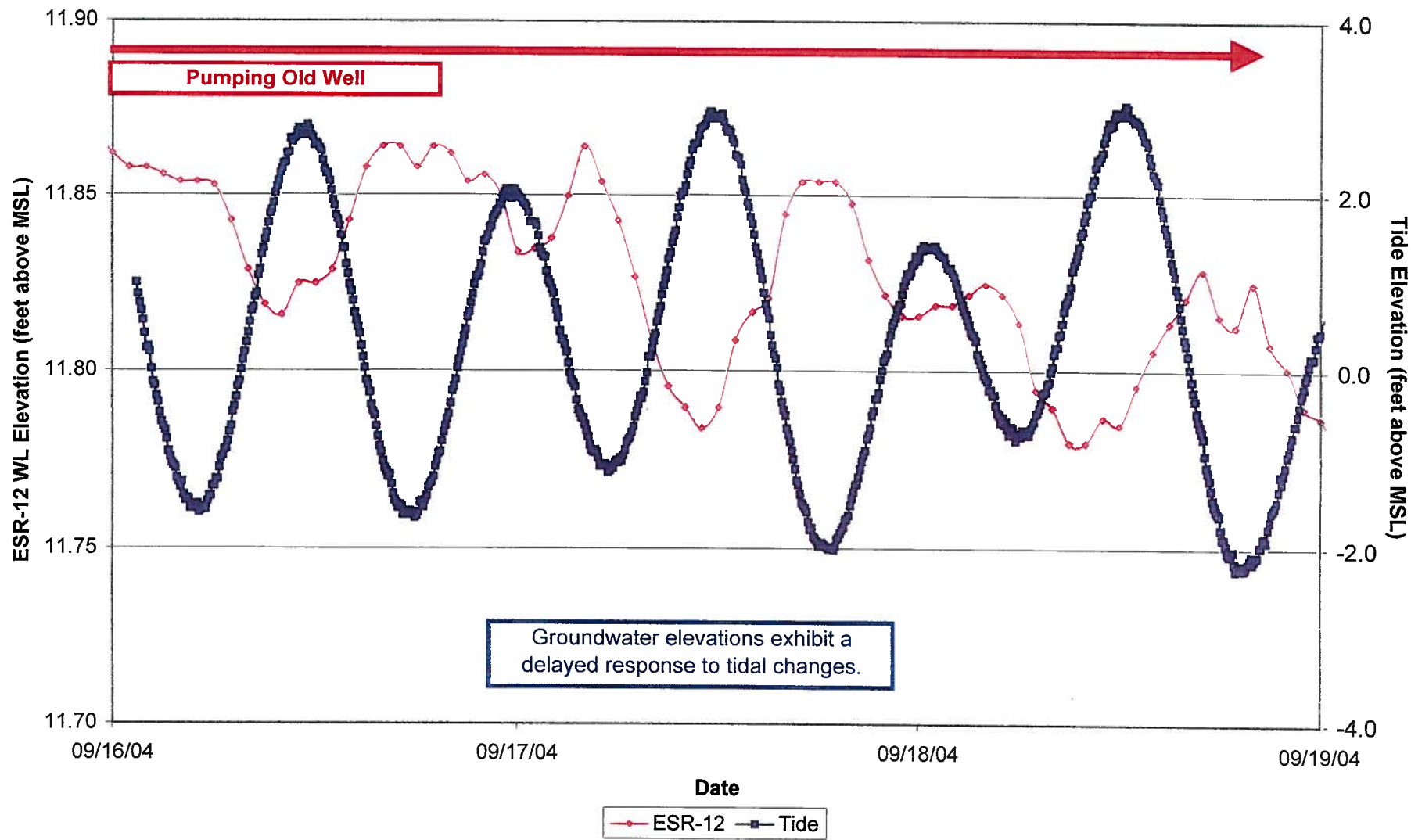
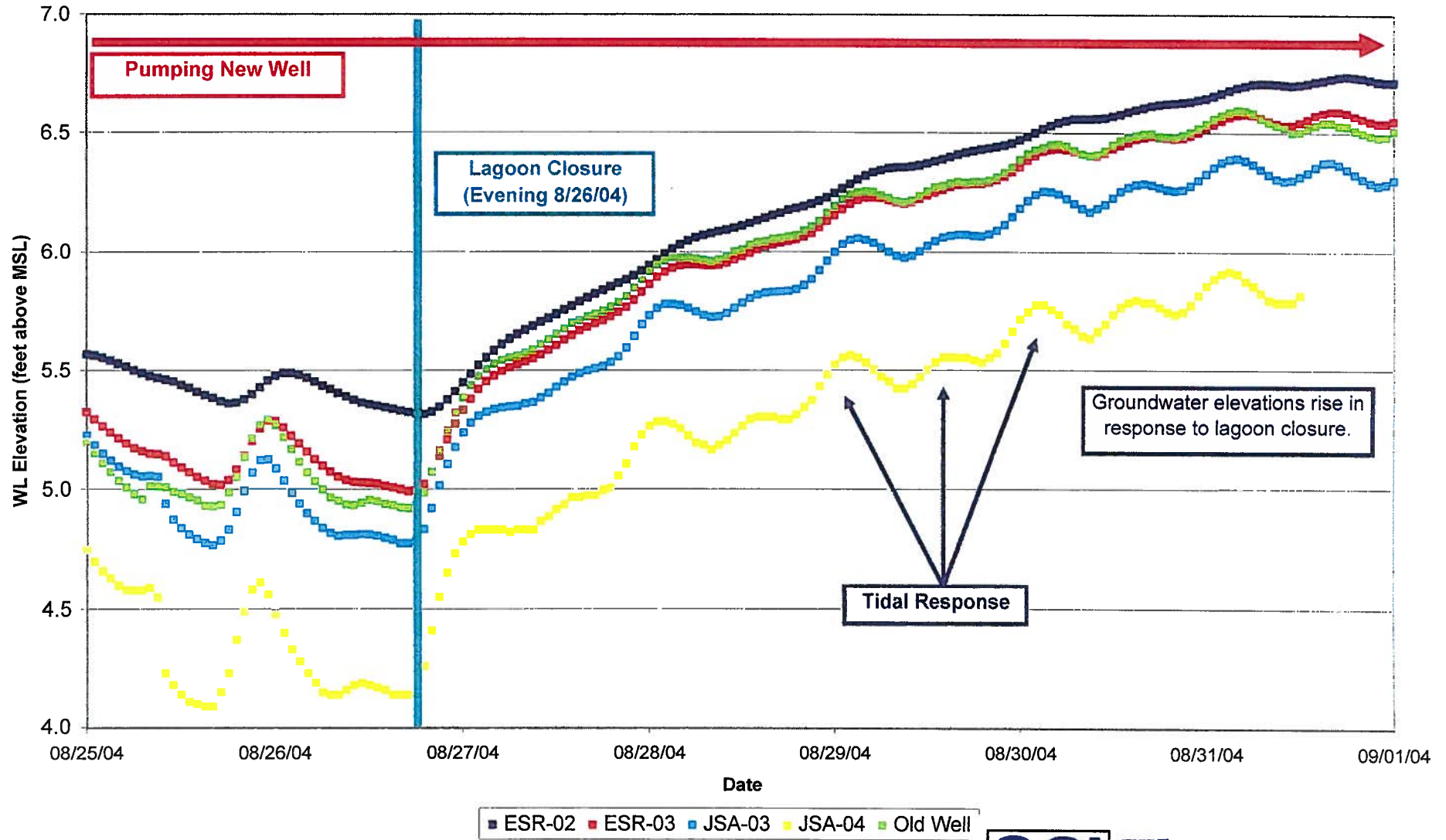
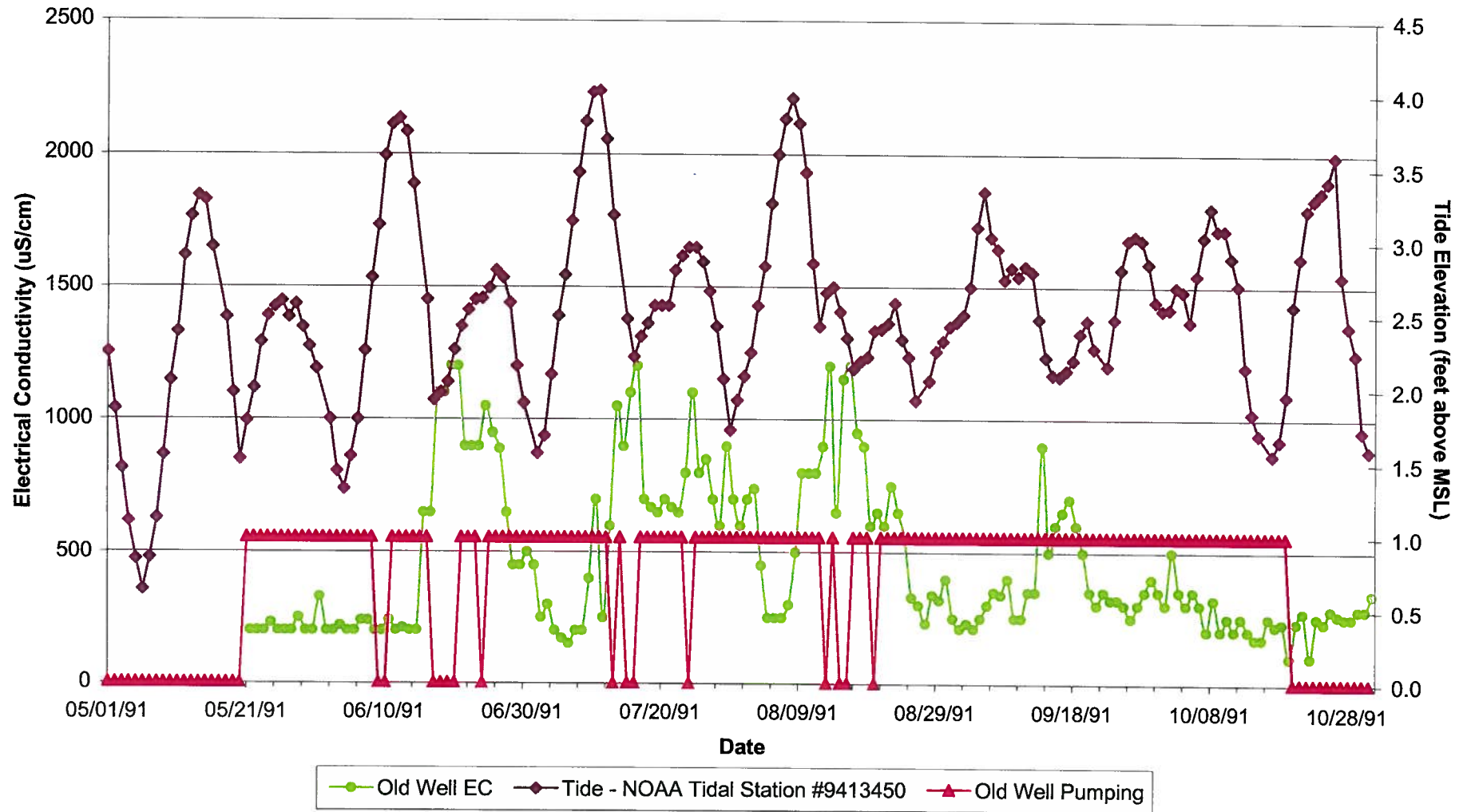


Figure 3-44
Effect of Lagoon Closure on Groundwater Elevations
 El Sur Ranch



THE SOURCE GROUP, INC.

Figure 3-46
Spring Tide Effects on Electrical Conductivity in Old Well - 1991
 El Sur Ranch



APPENDIX M

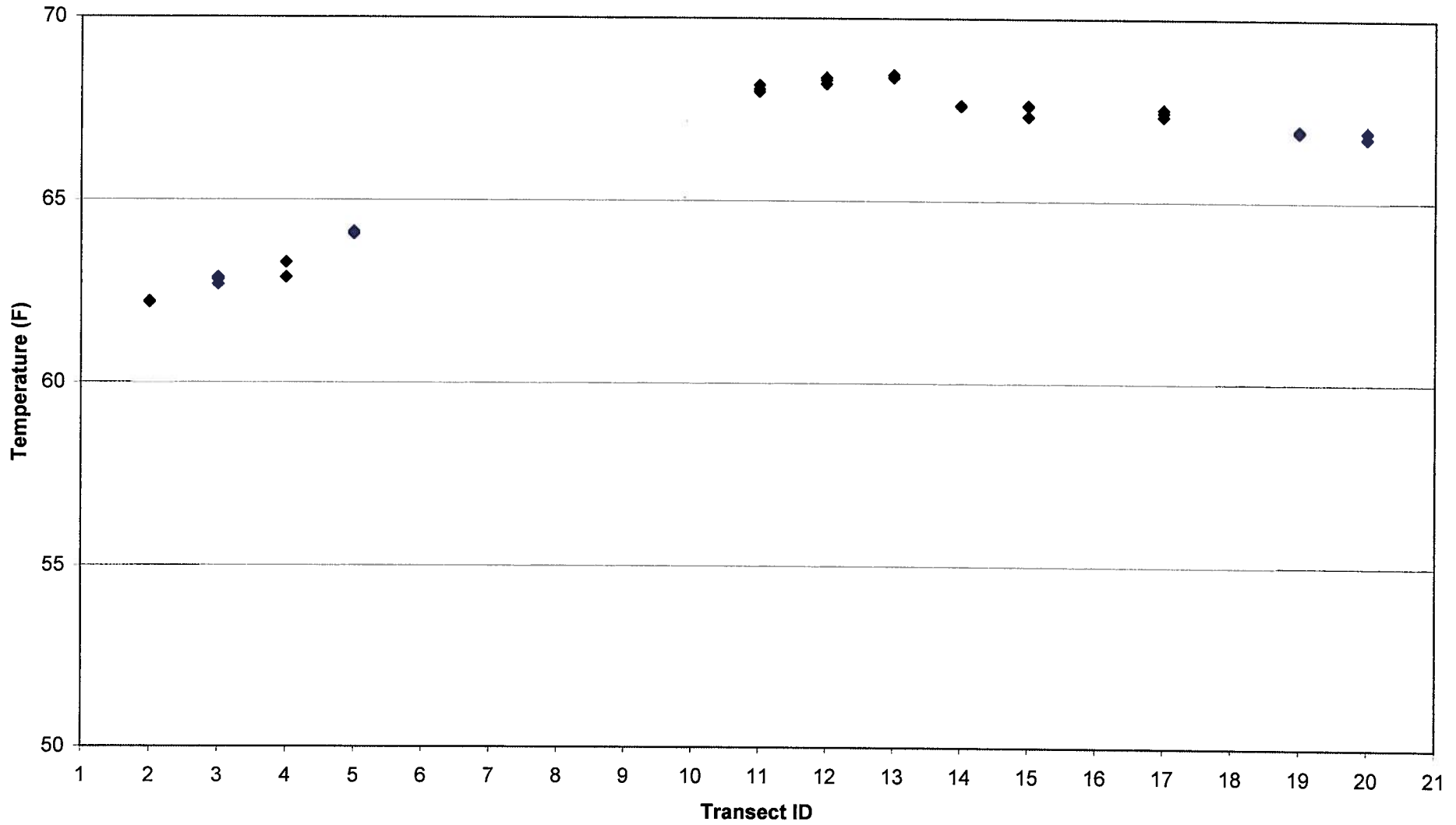
WATER QUALITY DATA

SGI 2005 Appendix M

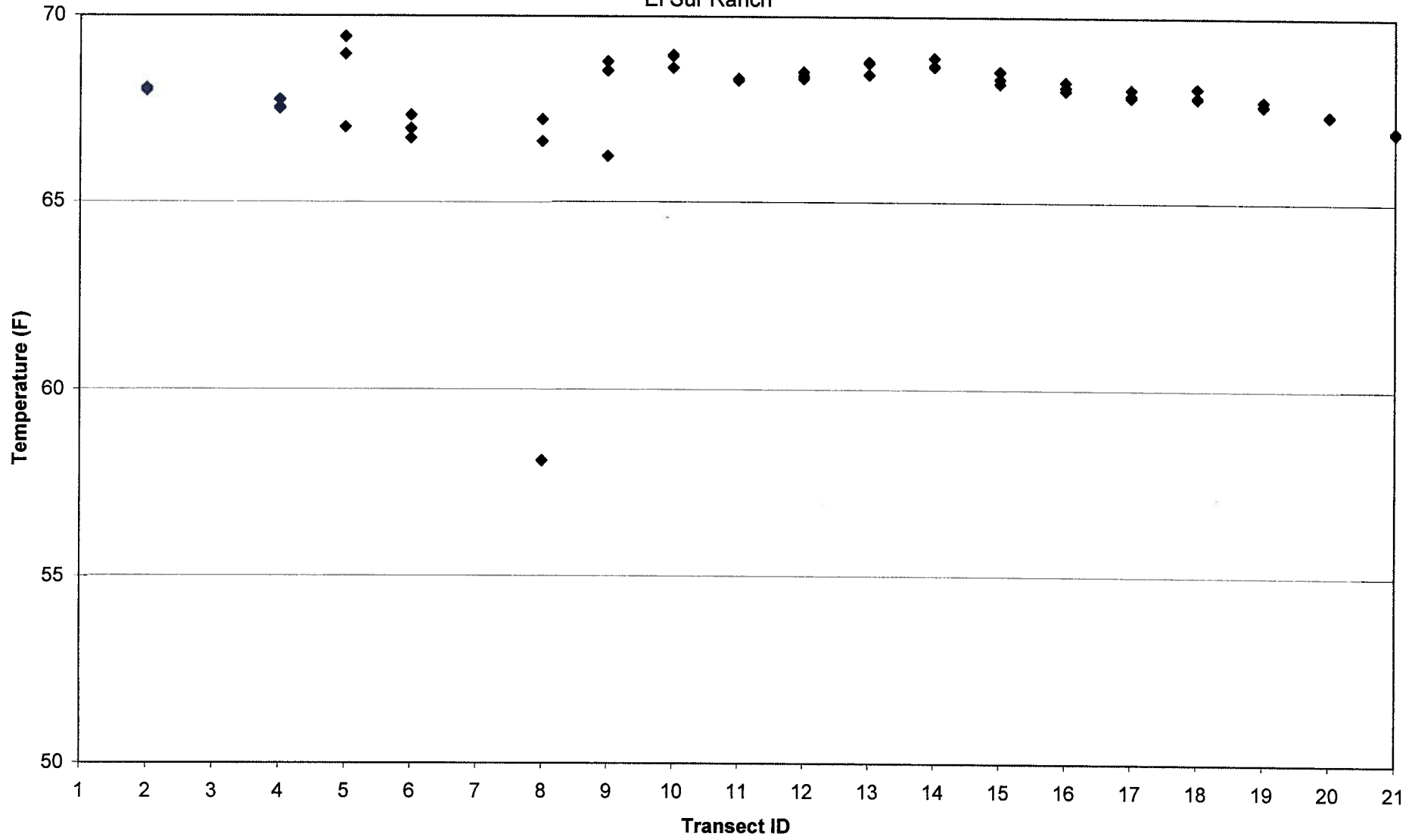
Summary of Manually Collected Groundwater Quality Data

Well	Date	Time	Temp (°C)	Temp (°F)	EC (µS/cm)	DO (mg/L)
ESR-01	10/6/2004	9:50	16.32	61.38	242	11.15
ESR-01	10/14/2004	10:26	15.84	60.51	211	2.67
ESR-01	10/28/2004	14:06	15.51	59.92	219	3.84
ESR-02	8/5/2004	13:00	14.47	58.05	262	0.74
ESR-02	8/18/2004	11:50	14.74	58.53	327	1.69
ESR-02	9/2/2004	11:10	15.59	60.06	266	0.63
ESR-02	9/27/2004	10:30	15.43	59.77	256	1.04
ESR-02	9/30/2004	11:29	15.33	59.59	256	1.45
ESR-02	10/6/2004	9:58	15.94	60.69	257	0.89
ESR-02	10/14/2004	10:18	15.45	59.81	259	1.51
ESR-02	10/28/2004	13:58	15.34	59.61	260	0.83
ESR-03	8/5/2004	13:00	14.86	58.75	245	3.77
ESR-03	8/18/2004	11:50	15.15	59.27	308	3.35
ESR-03	9/2/2004	11:05	15.28	59.50	252	2.54
ESR-03	9/27/2004	10:45	16.17	61.11	262	2.51
ESR-03	9/30/2004	11:38	16.22	61.20	260	2.8
ESR-03	10/6/2004	10:03	16.87	62.37	261	3.7
ESR-03	10/14/2004	10:12	16.69	62.04	263	4.79
ESR-03	10/28/2004	13:54	16.24	61.23	264	3.93
ESR-10A	9/2/2004	11:25	17.96	64.33	383	2.34
ESR-10A	9/27/2004	12:15	17.13	62.83	274	4.6
ESR-10A	10/6/2004	10:35	16.15	61.07	271	3.97
ESR-10A	10/14/2004	10:55	15.68	60.22	275	3.64
ESR-10A	10/28/2004	14:31	14.43	57.97	254	2.94
ESR-10B	9/2/2004	11:22	18.71	65.68	494	0.69
ESR-10B	9/27/2004	12:15	17.2	62.96	486	3.94
ESR-10B	10/6/2004	10:39	16.21	61.18	408	0.31
ESR-10B	10/14/2004	10:58	15.73	60.31	361	0.16
ESR-10B	10/28/2004	14:35	14.84	58.71	310	0.56
ESR-10C	9/2/2004	11:19	18.05	64.49	296	0.25
ESR-10C	9/27/2004	12:15	17.43	63.37	293	1.01
ESR-10C	10/6/2004	10:43	16.28	61.30	282	0.1
ESR-10C	10/14/2004	11:01	15.86	60.55	281	0.24
ESR-10C	10/28/2004	14:37	15.14	59.25	277	0.29
ESR-11	10/6/2004	11:19	16.46	61.63	482	4.23
ESR-11	10/14/2004	11:52	16.05	60.89	479	3.75
ESR-11	10/28/2004	16:15	15.44	59.79	471	2.6
ESR-12	10/6/2004	11:02	16.29	61.32	418	1.57
ESR-12	10/14/2004	11:37	16.08	60.94	427	1.57
ESR-12	10/28/2004	15:50	15.47	59.85	466	1.7
JSA-03	10/6/2004	10:15	15.68	60.22	255	2.01
JSA-03	10/14/2004	10:37	15.23	59.41	261	1.34
JSA-03	10/28/2004	14:16	14.75	58.55	255	2.78
JSA-04	8/5/2004	13:00	14.13	57.43	247	2.48
JSA-04	8/18/2004	11:50	13.73	56.71	304	3.88
JSA-04	9/2/2004	11:00	14.52	58.14	244	4.06
JSA-04	9/27/2004	11:10	13.56	56.41	245	1.85
JSA-04	9/30/2004	11:43	13.7	56.66	242	2.44
JSA-04	10/6/2004	10:21	14.02	57.24	238	3.83
JSA-04	10/14/2004	10:44	13.49	56.28	245	1.58
JSA-04	10/28/2004	14:21	13.6	56.48	251	1.38

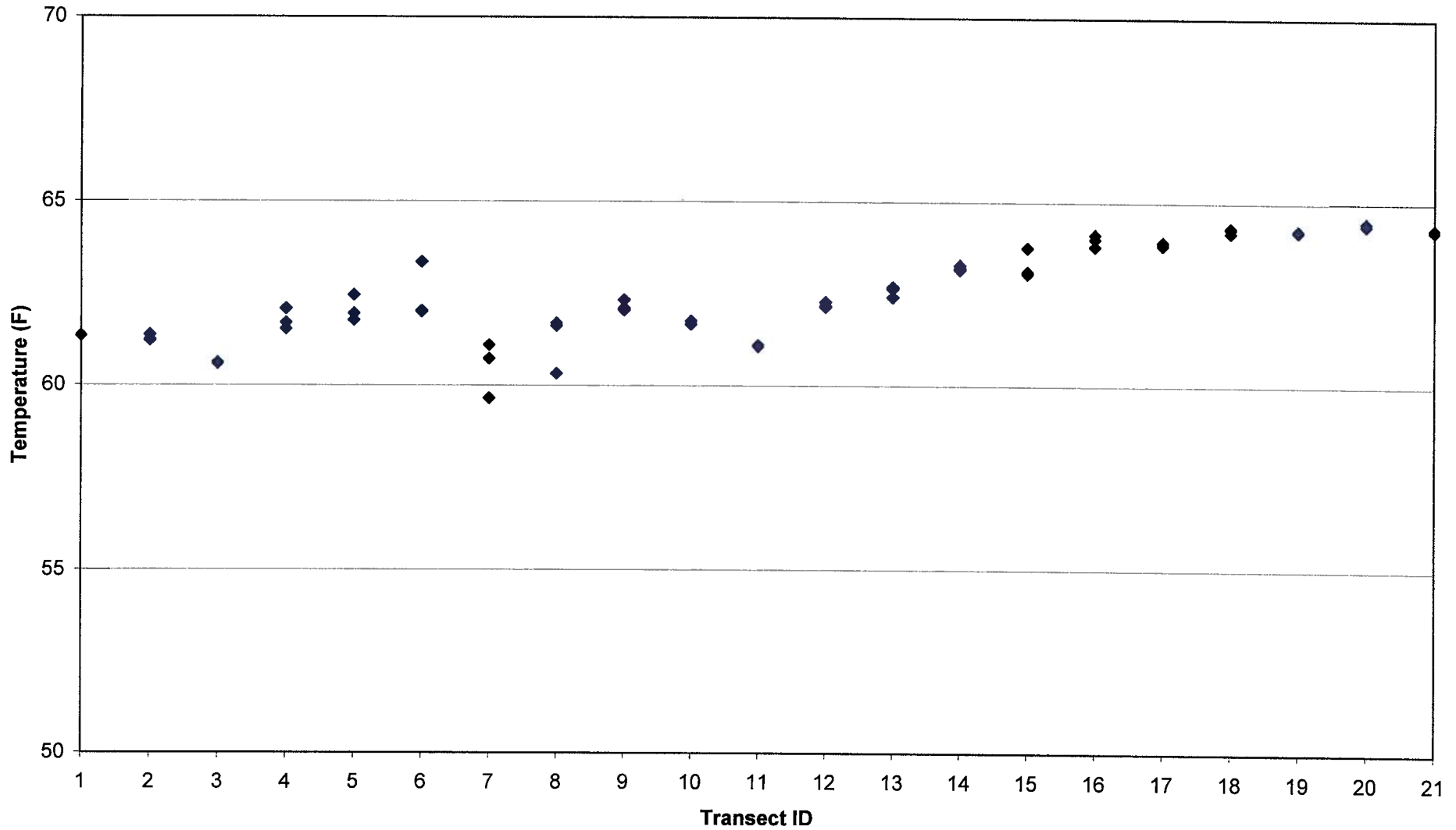
Temperature Measurements
Big Sur River - July 12, 2004
El Sur Ranch



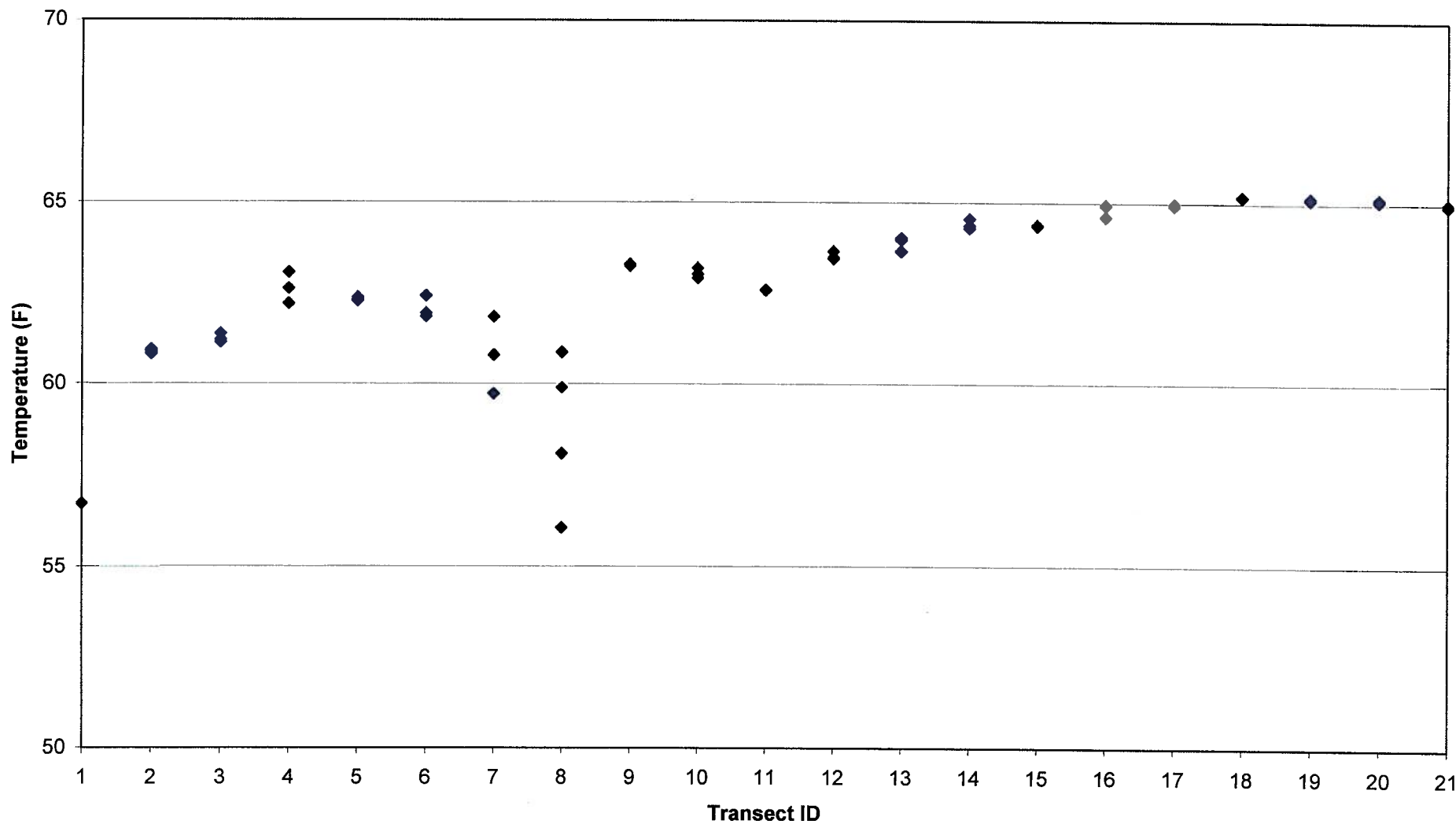
Temperature Measurements
Big Sur River - July 23, 2004
El Sur Ranch



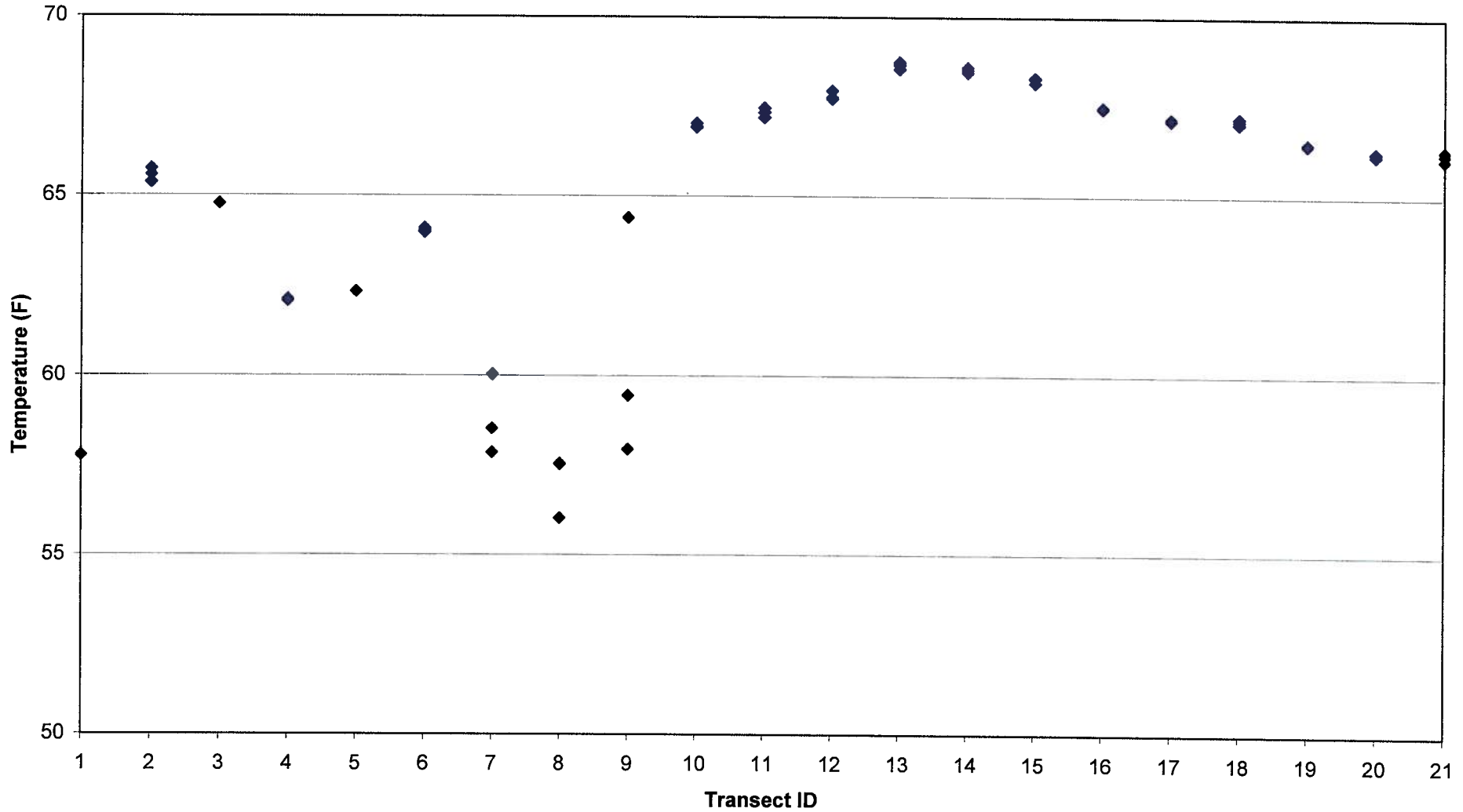
Temperature Measurements
Big Sur River - August 6, 2004
El Sur Ranch



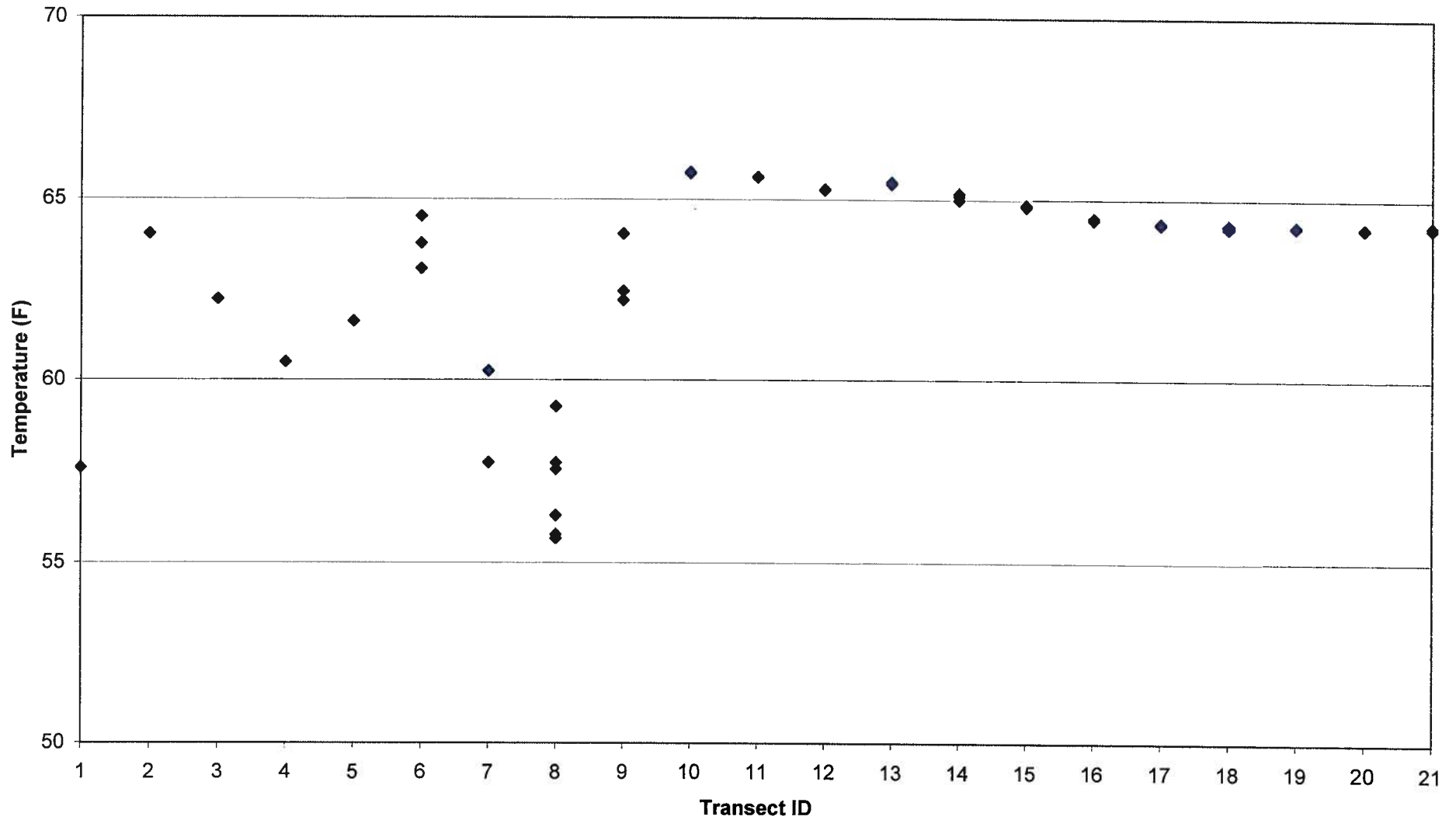
Temperature Measurements
Big Sur River - August 19, 2004
El Sur Ranch



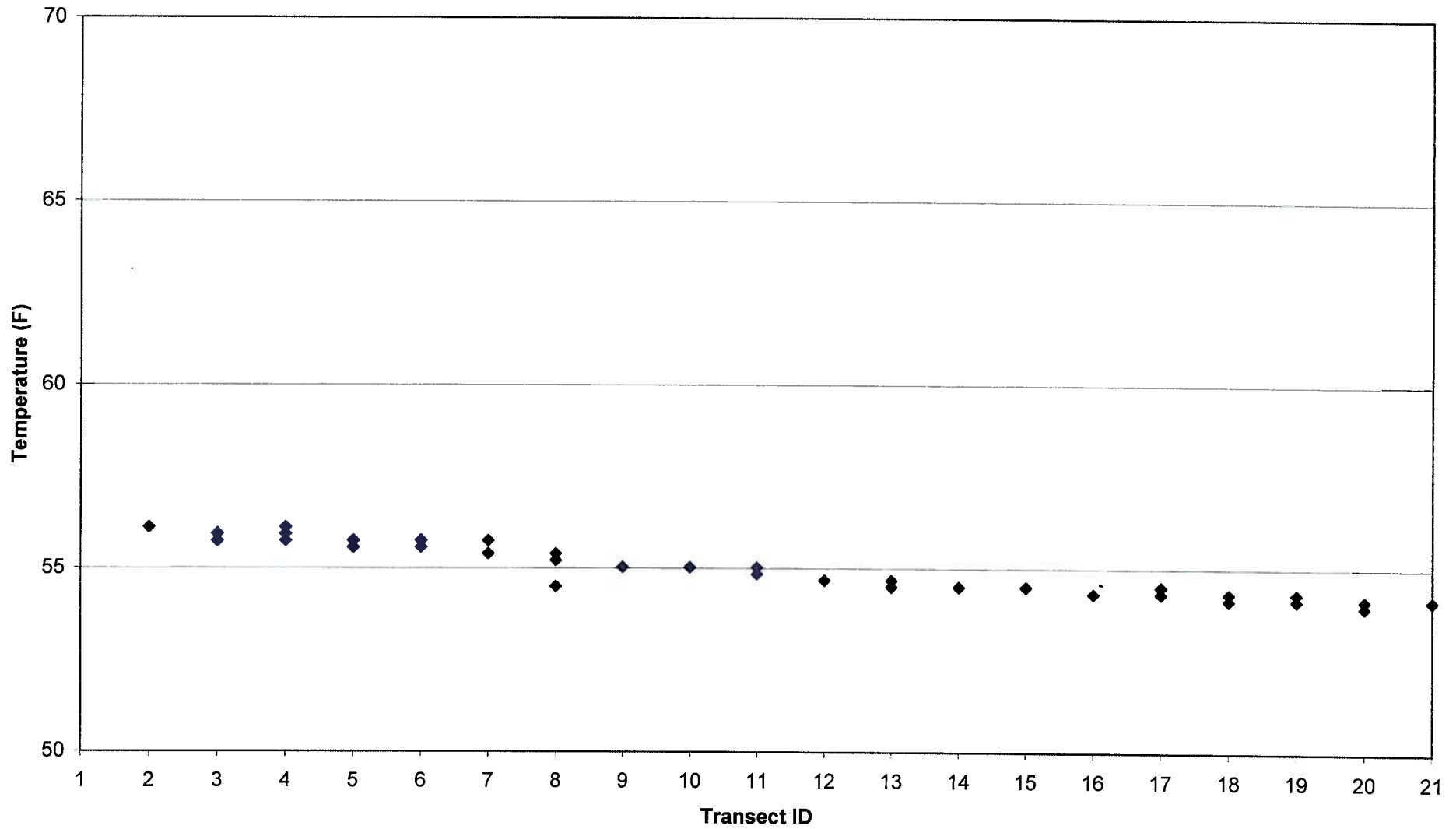
Temperature Measurements
Big Sur River - September 2, 2004
El Sur Ranch



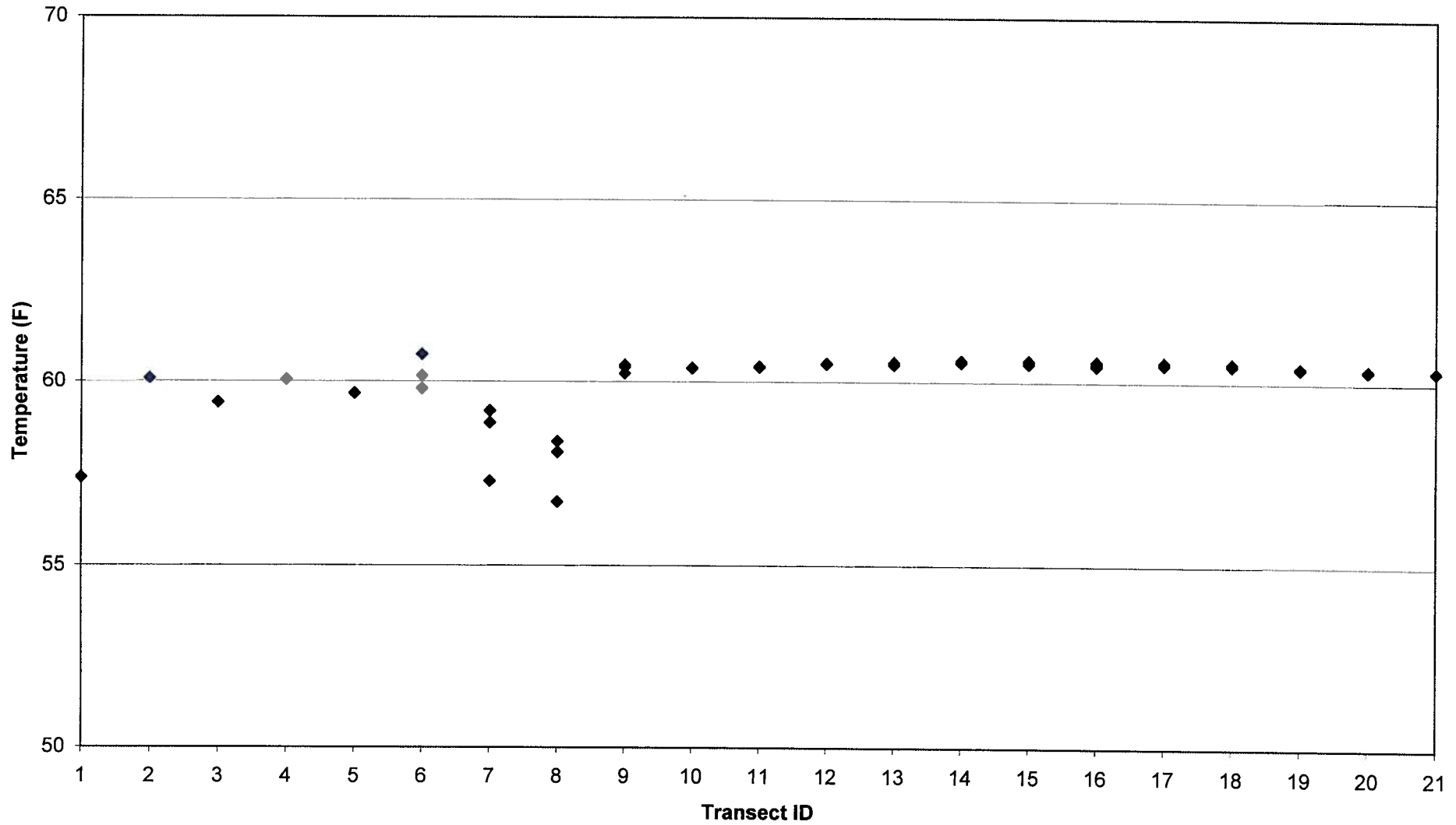
Temperature Measurements
Big Sur River - September 15, 2004
El Sur Ranch



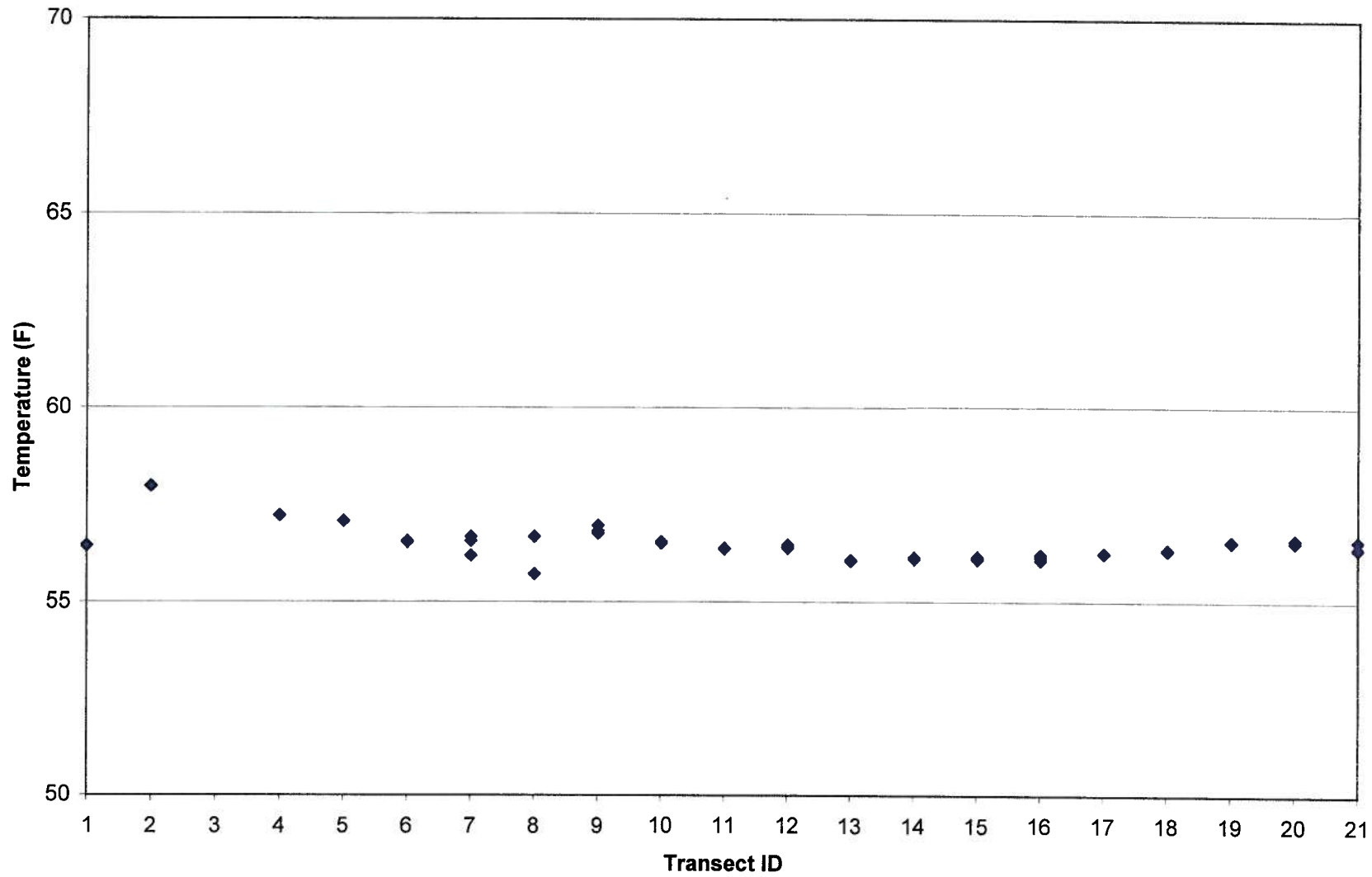
Temperature Measurements
Big Sur River - April 18, 2004
El Sur Ranch



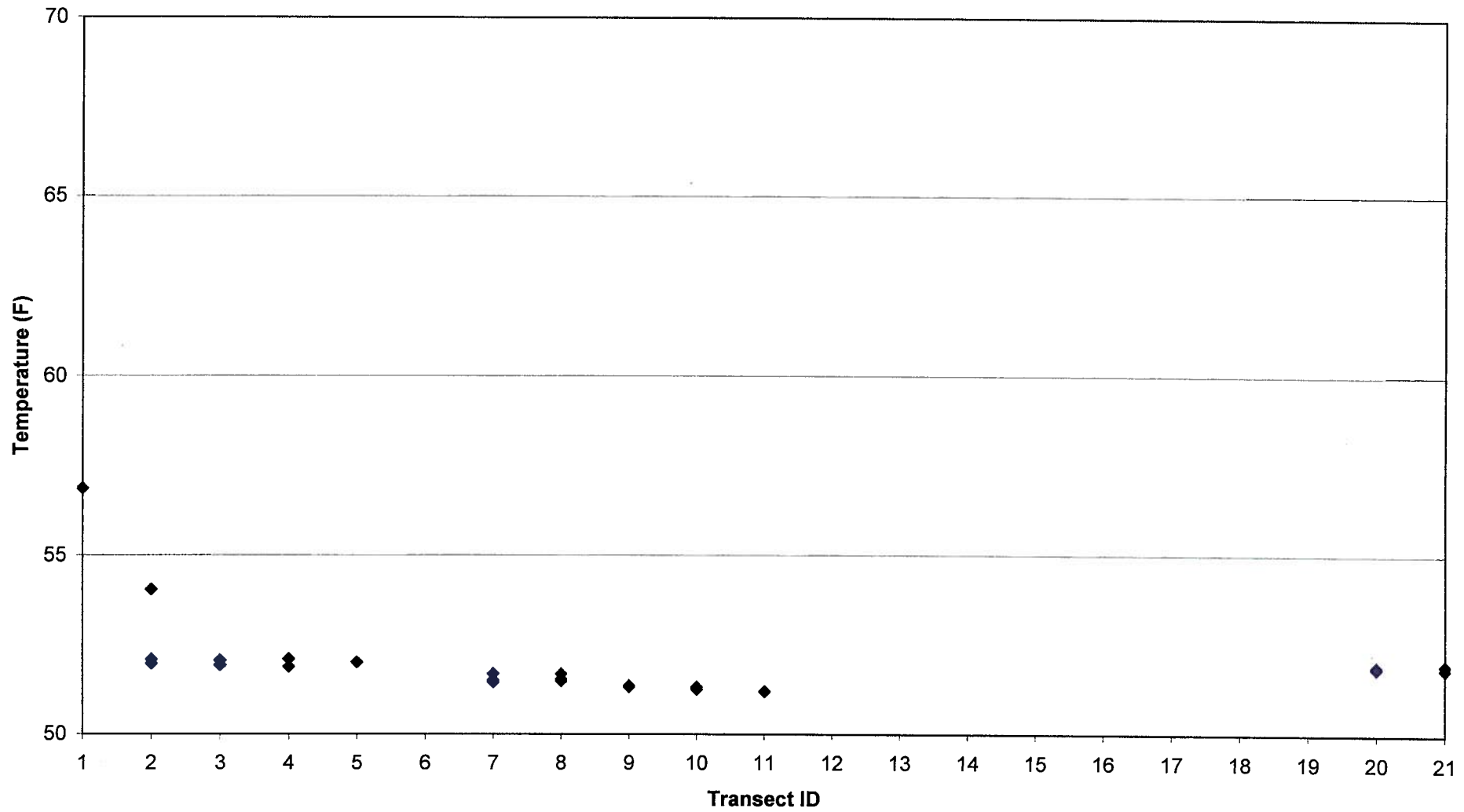
Temperature Measurements
Big Sur River - September 30, 2004
El Sur Ranch



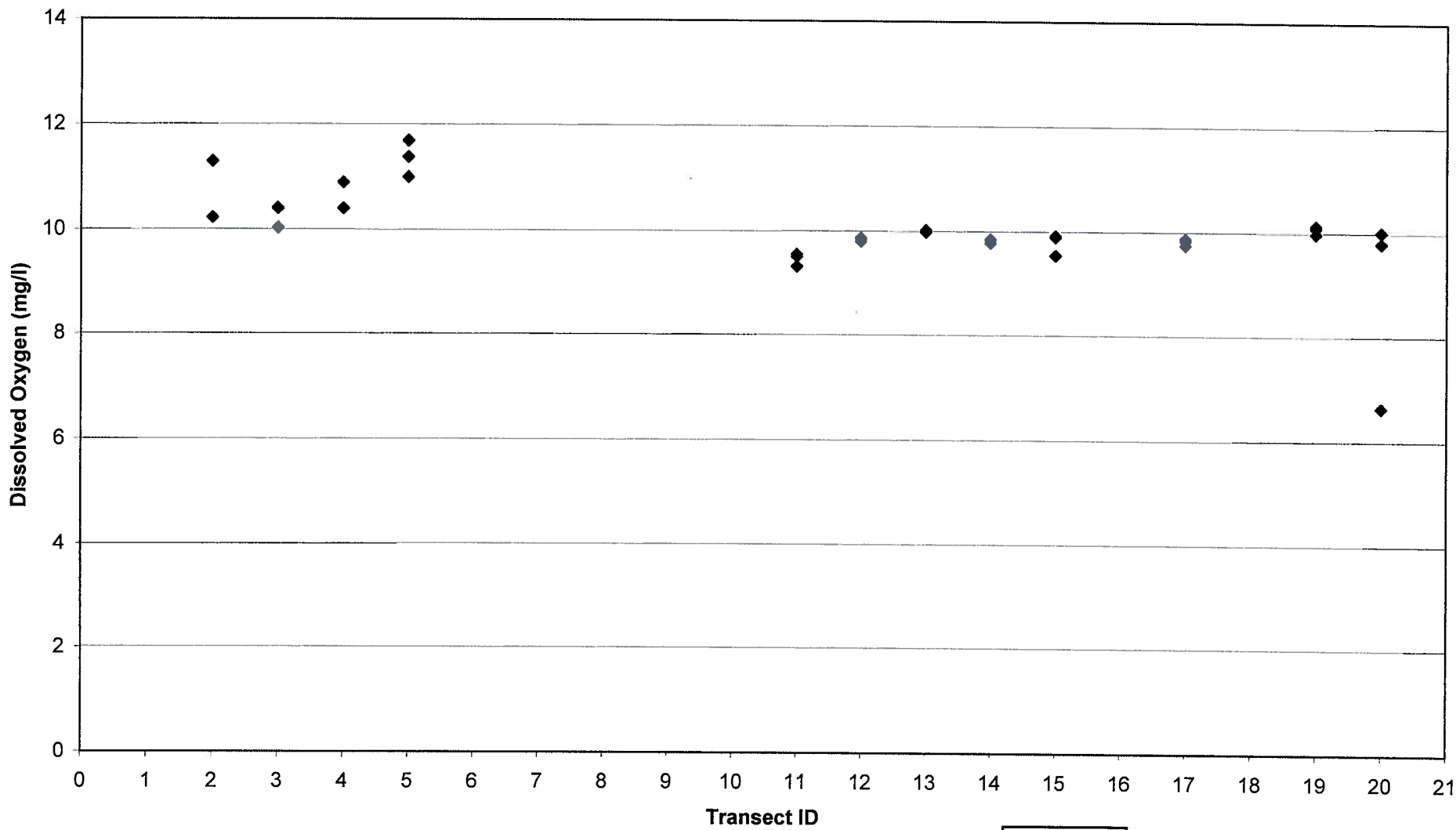
Temperature Measurements
Big Sur River - October 15, 2004
El Sur Ranch



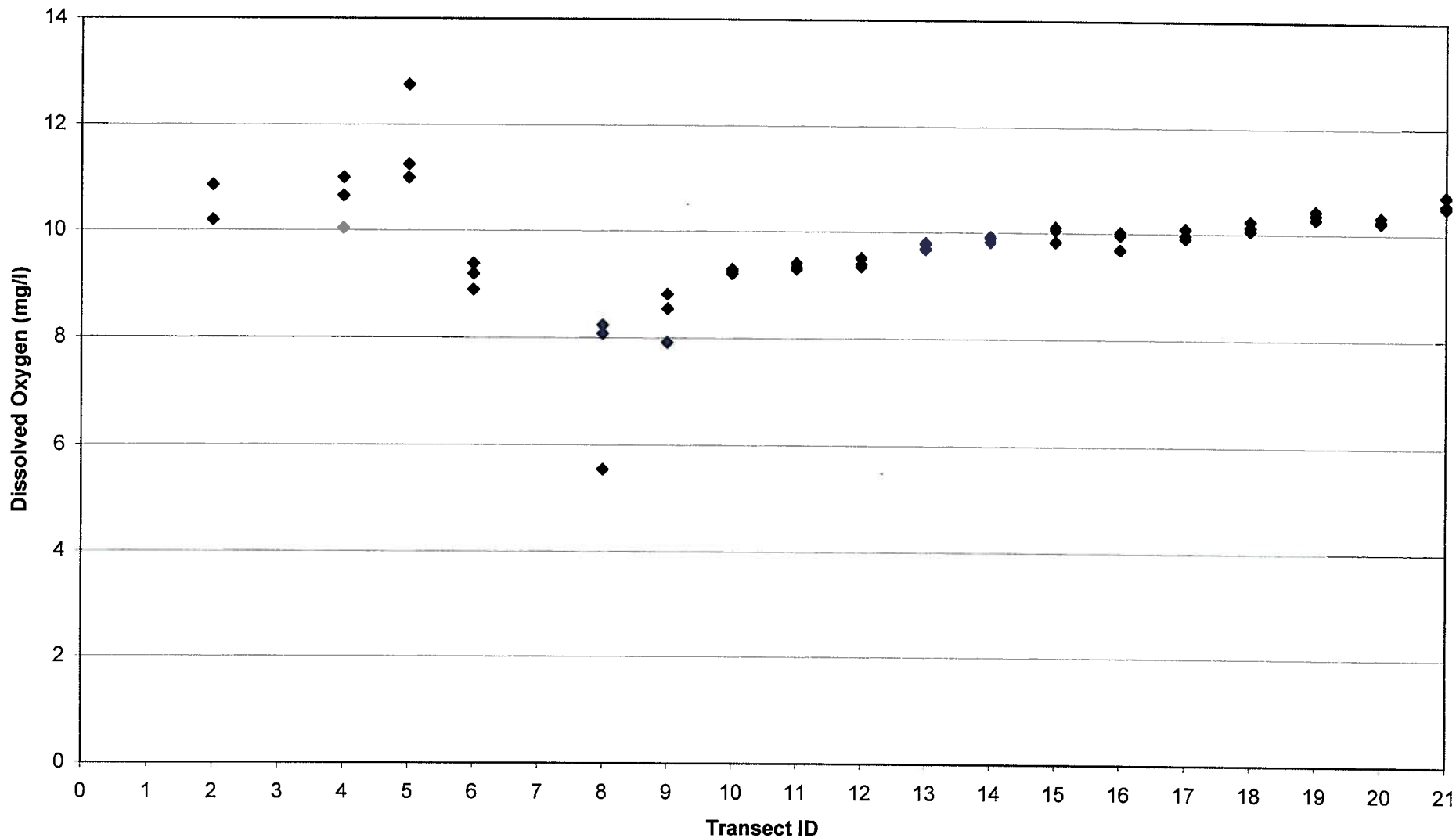
Temperature Measurements
Big Sur River - October 28, 2004
El Sur Ranch



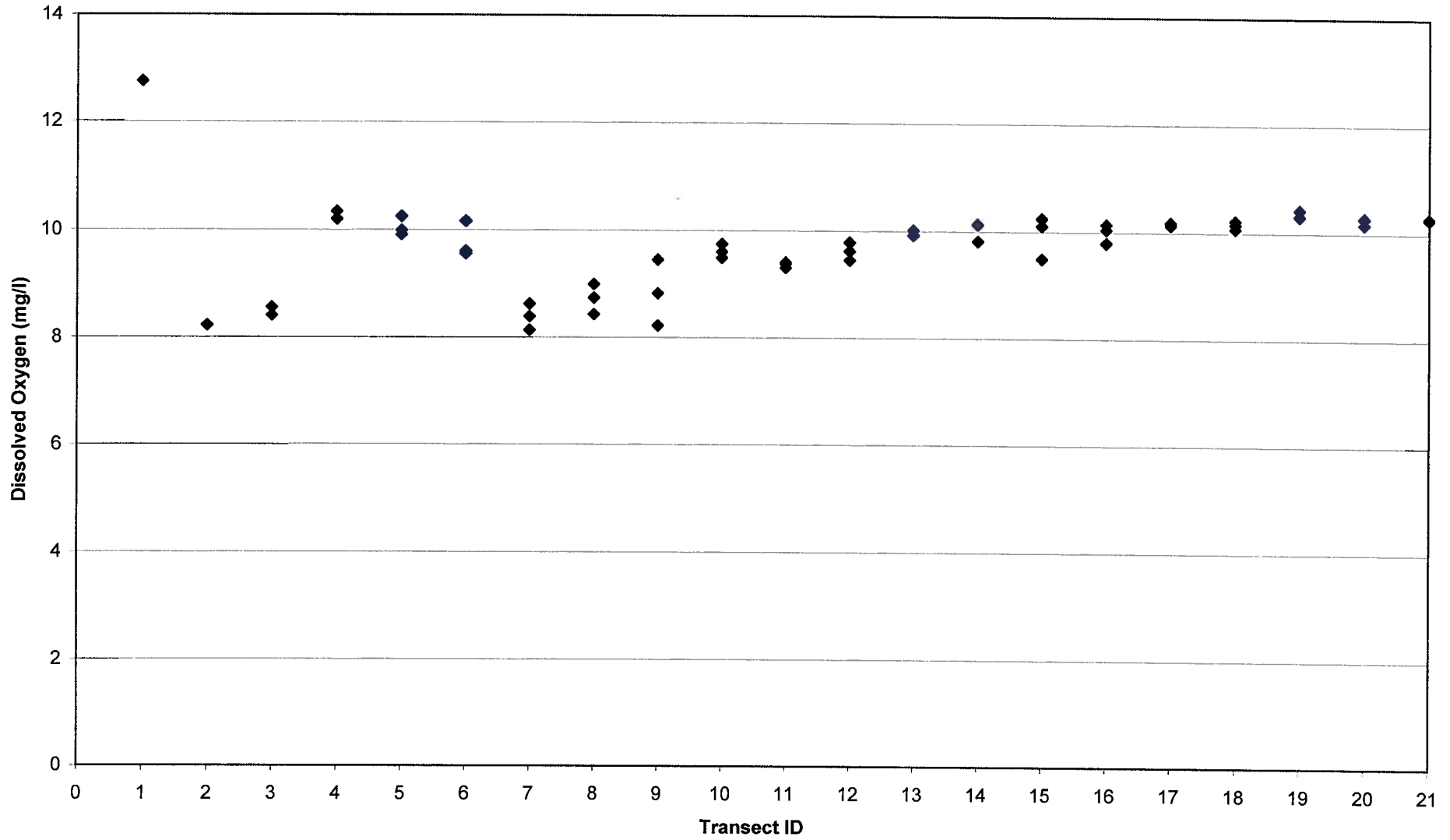
Dissolved Oxygen Measurements
Big Sur River - July 12, 2004
El Sur Ranch



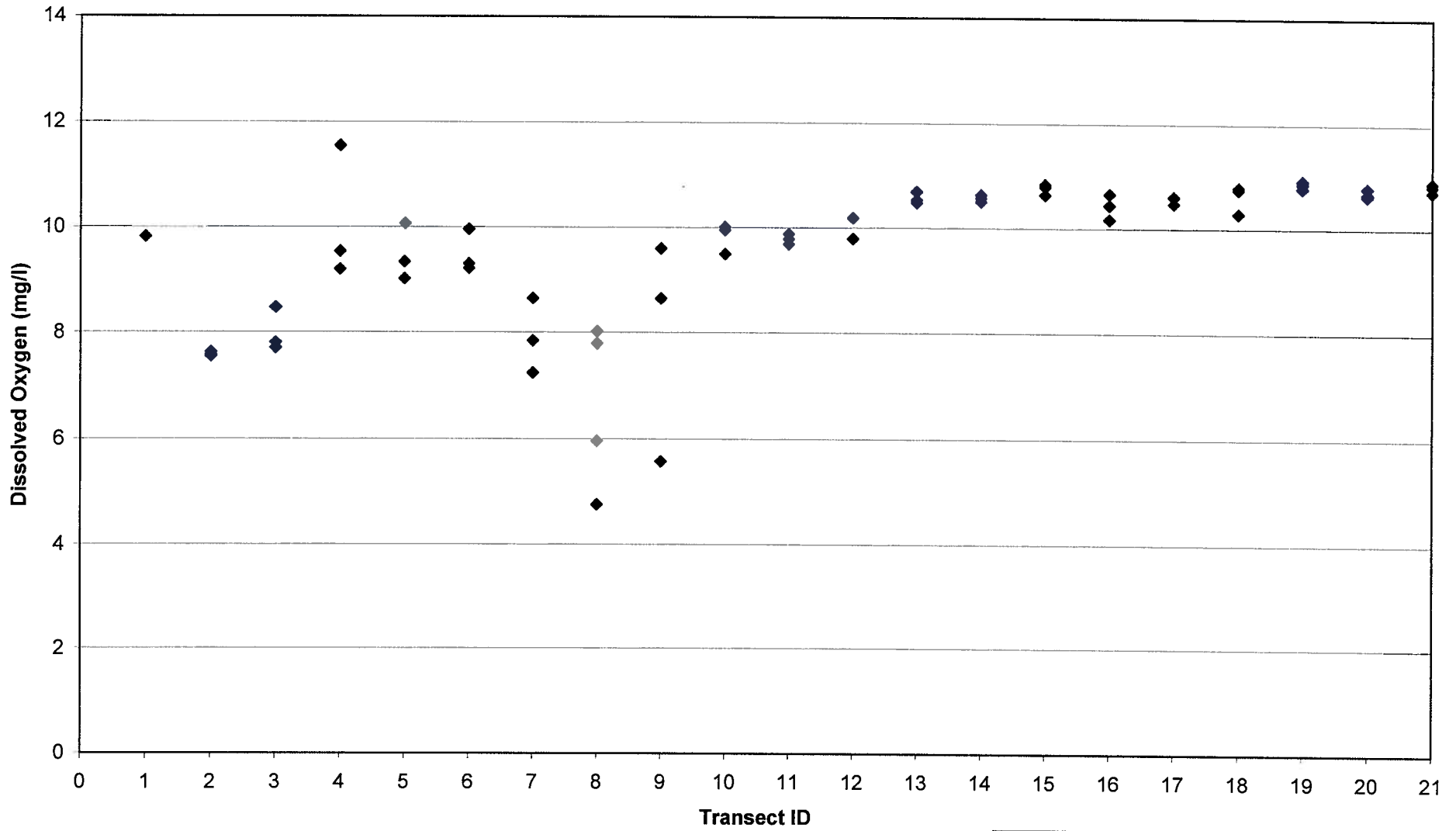
Dissolved Oxygen Measurements
Big Sur River - July 23, 2004
El Sur Ranch



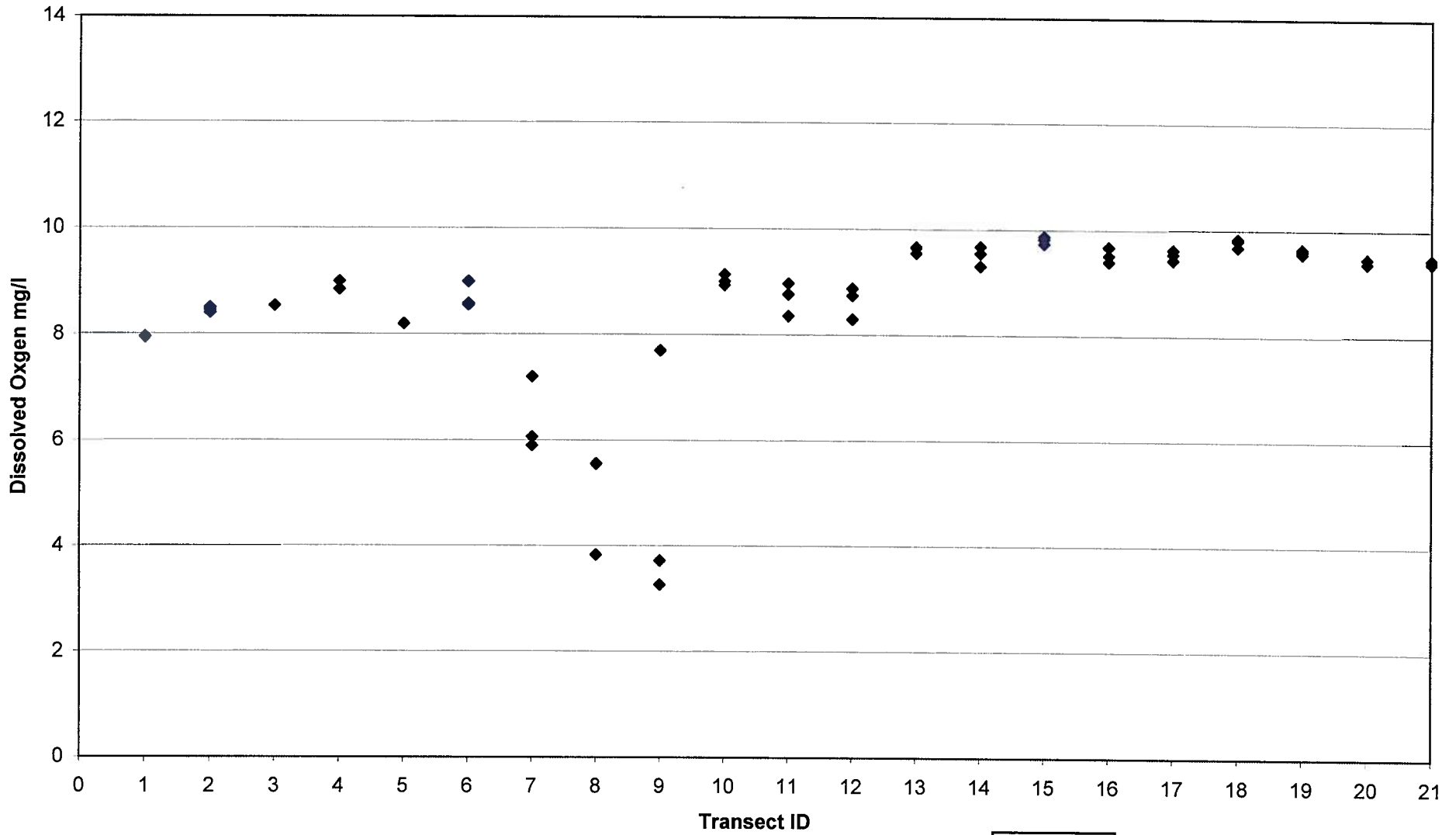
Dissolved Oxygen Measurements
Big Sur River - August 5, 2004
El Sur Ranch



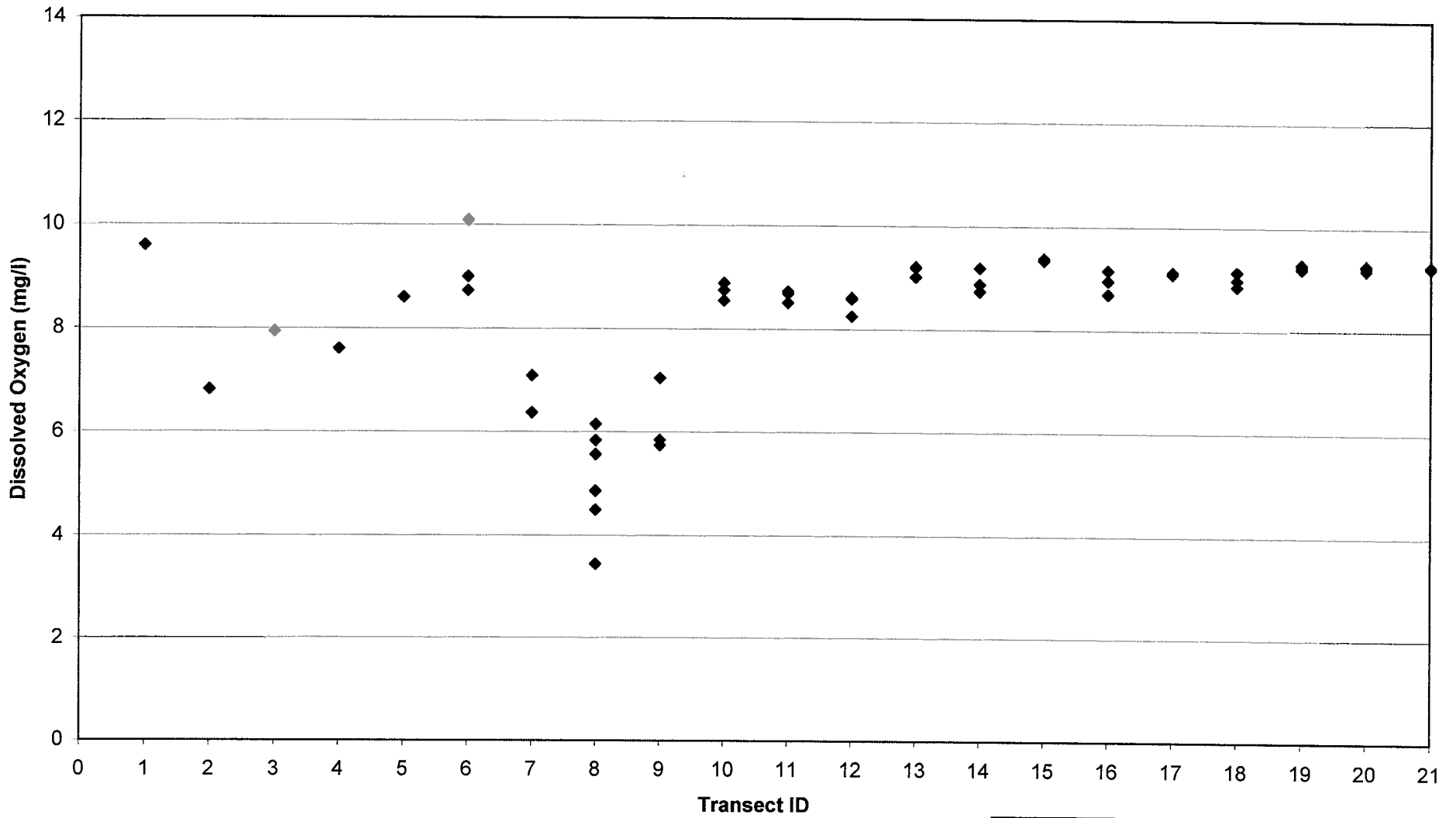
Dissolved Oxygen Measurements
Big Sur River - August 19, 2004
El Sur Ranch



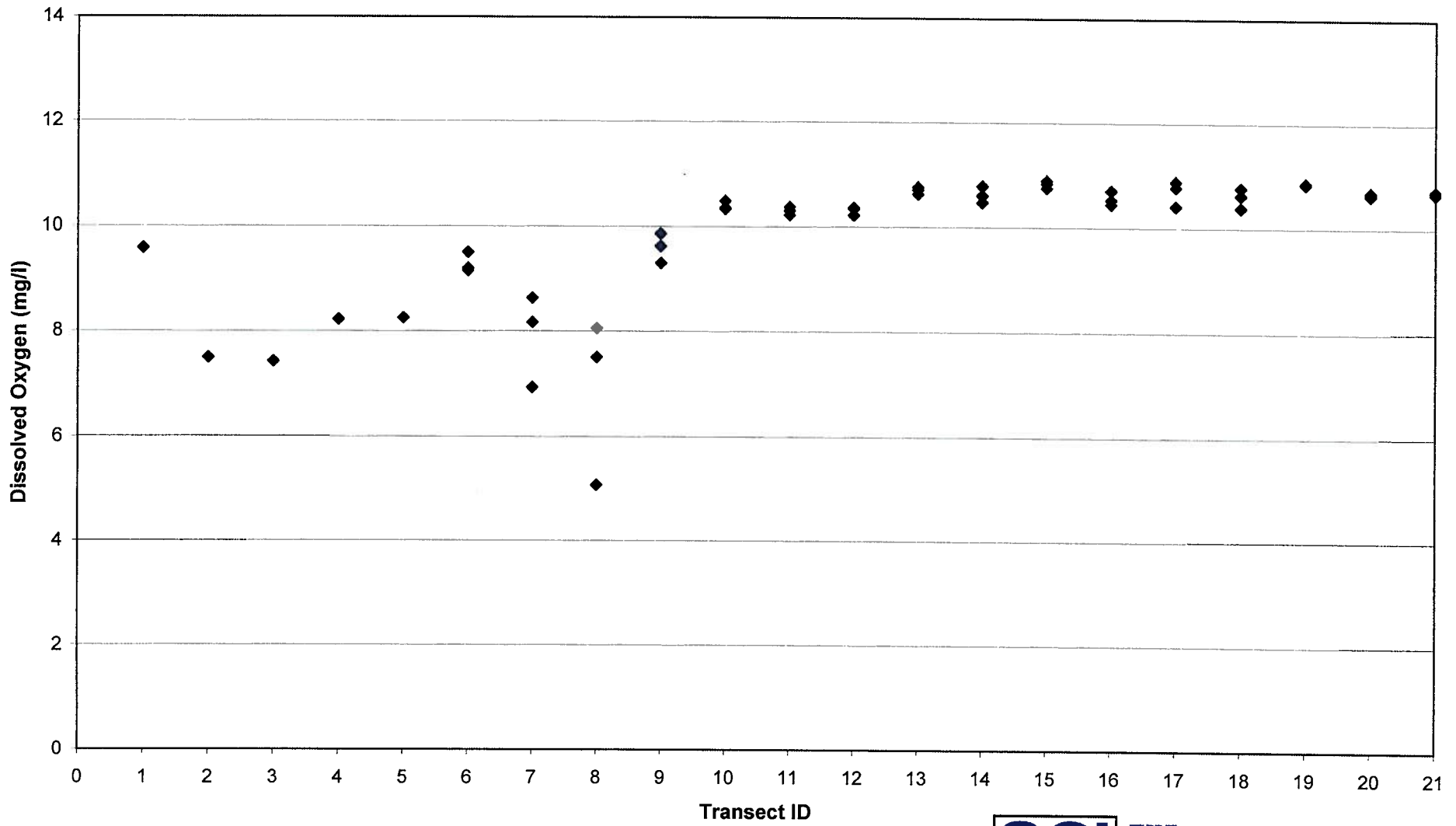
Dissolved Oxygen Measurements
Big Sur River - September 2, 2004
El Sur Ranch



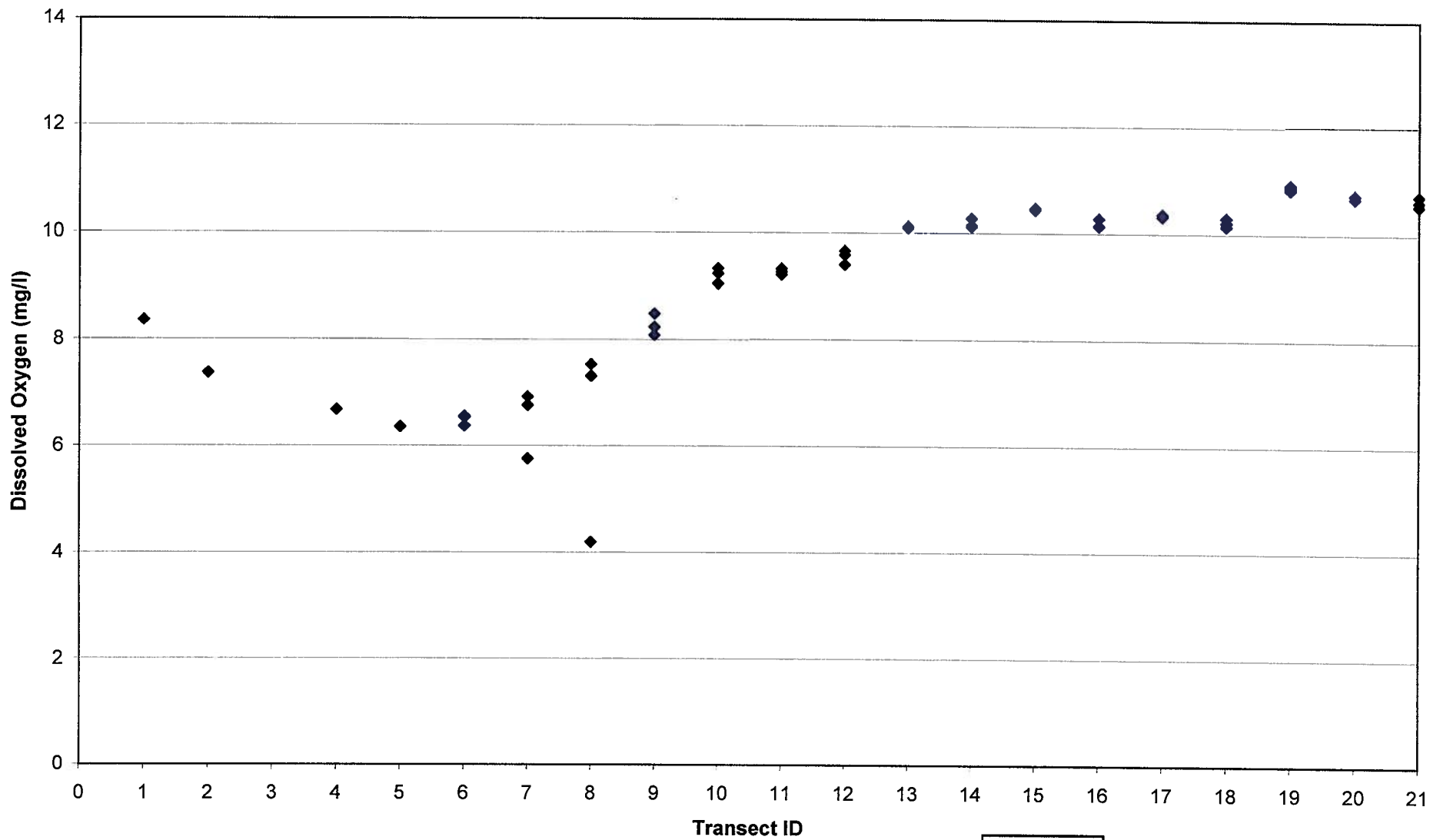
Dissolved Oxygen Measurements
Big Sur River - September 15, 2004
El Sur Ranch



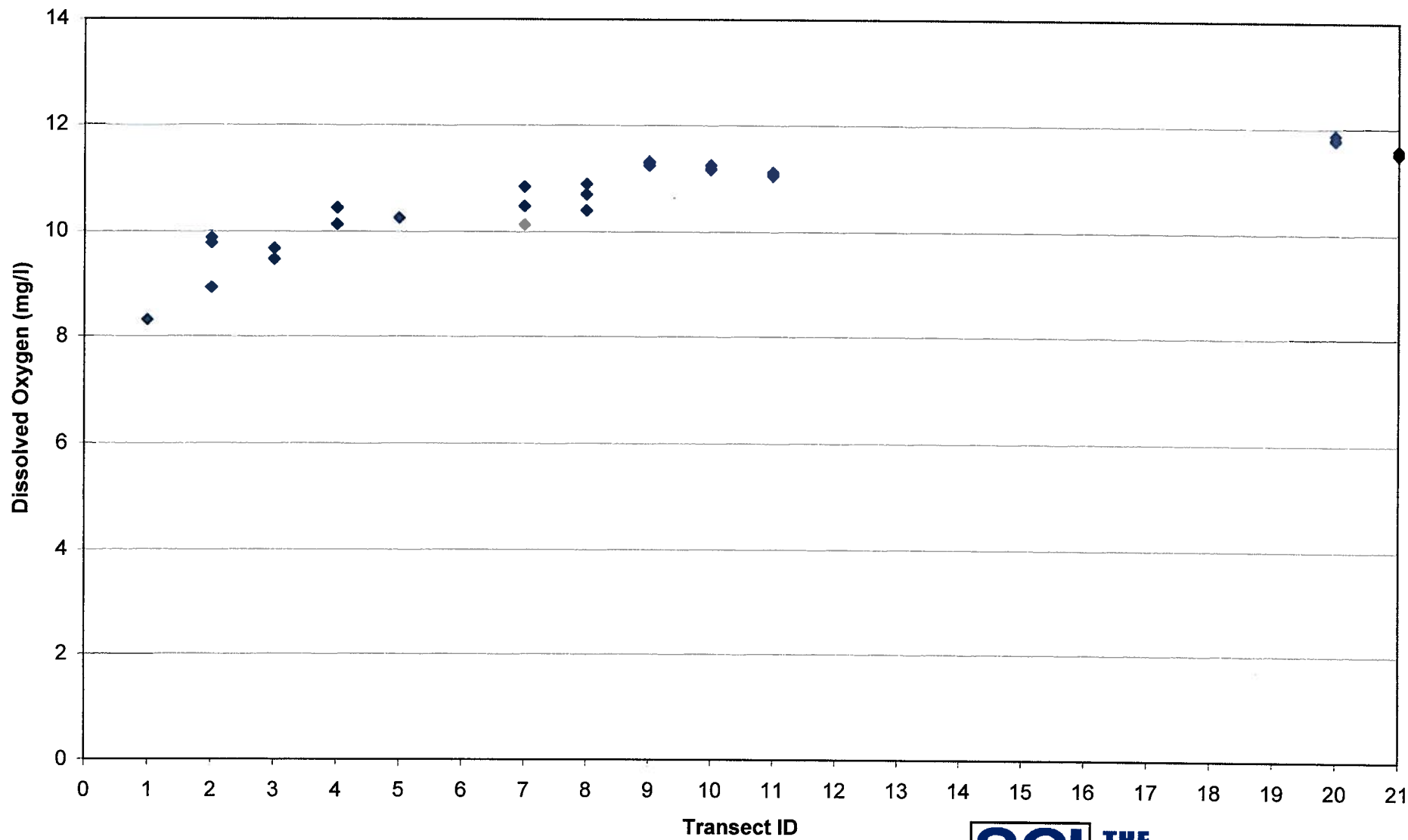
Dissolved Oxygen Measurements
Big Sur River - September 30, 2004
El Sur Ranch



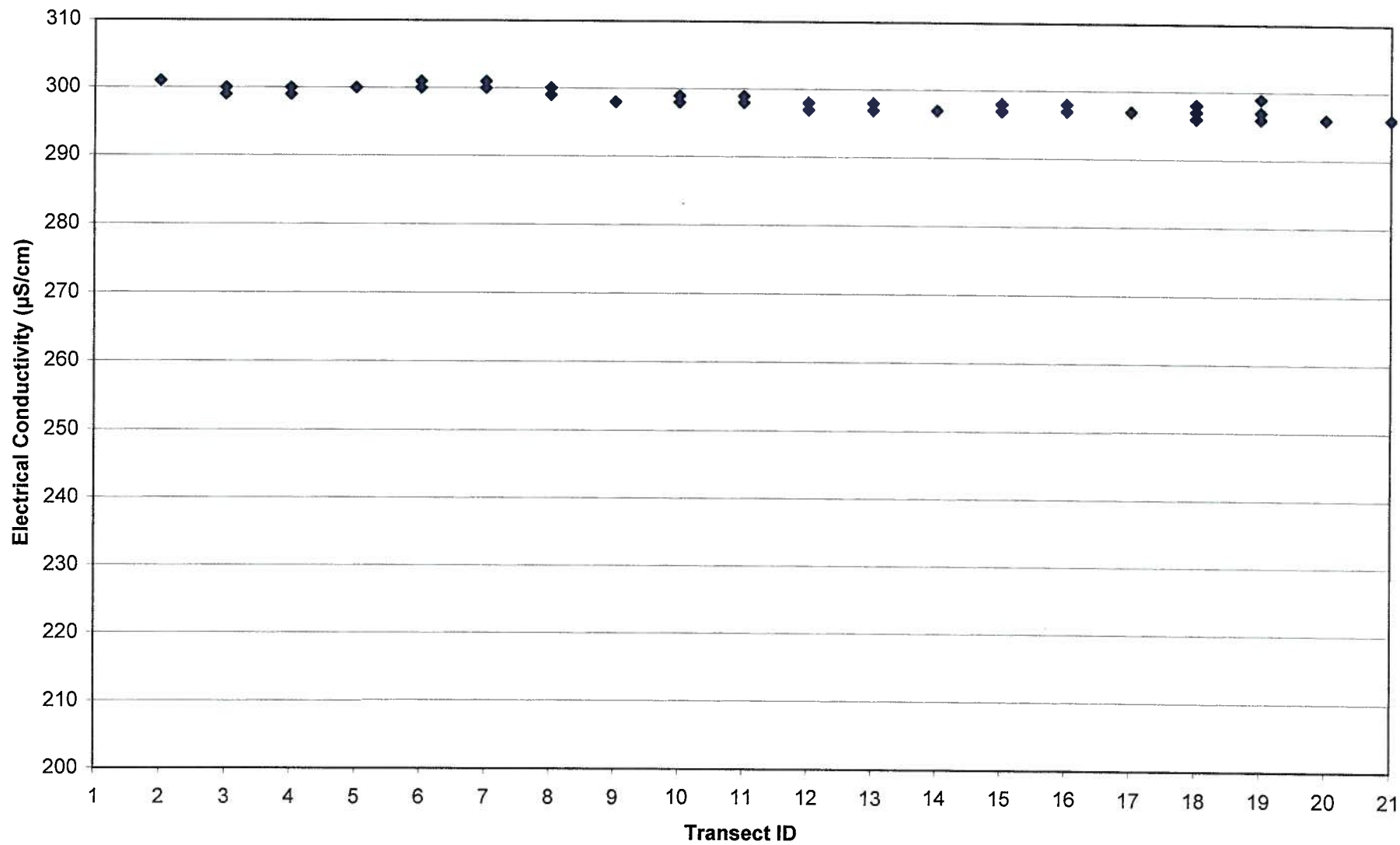
Dissolved Oxygen Measurements
Big Sur River - October 14, 2004
El Sur Ranch



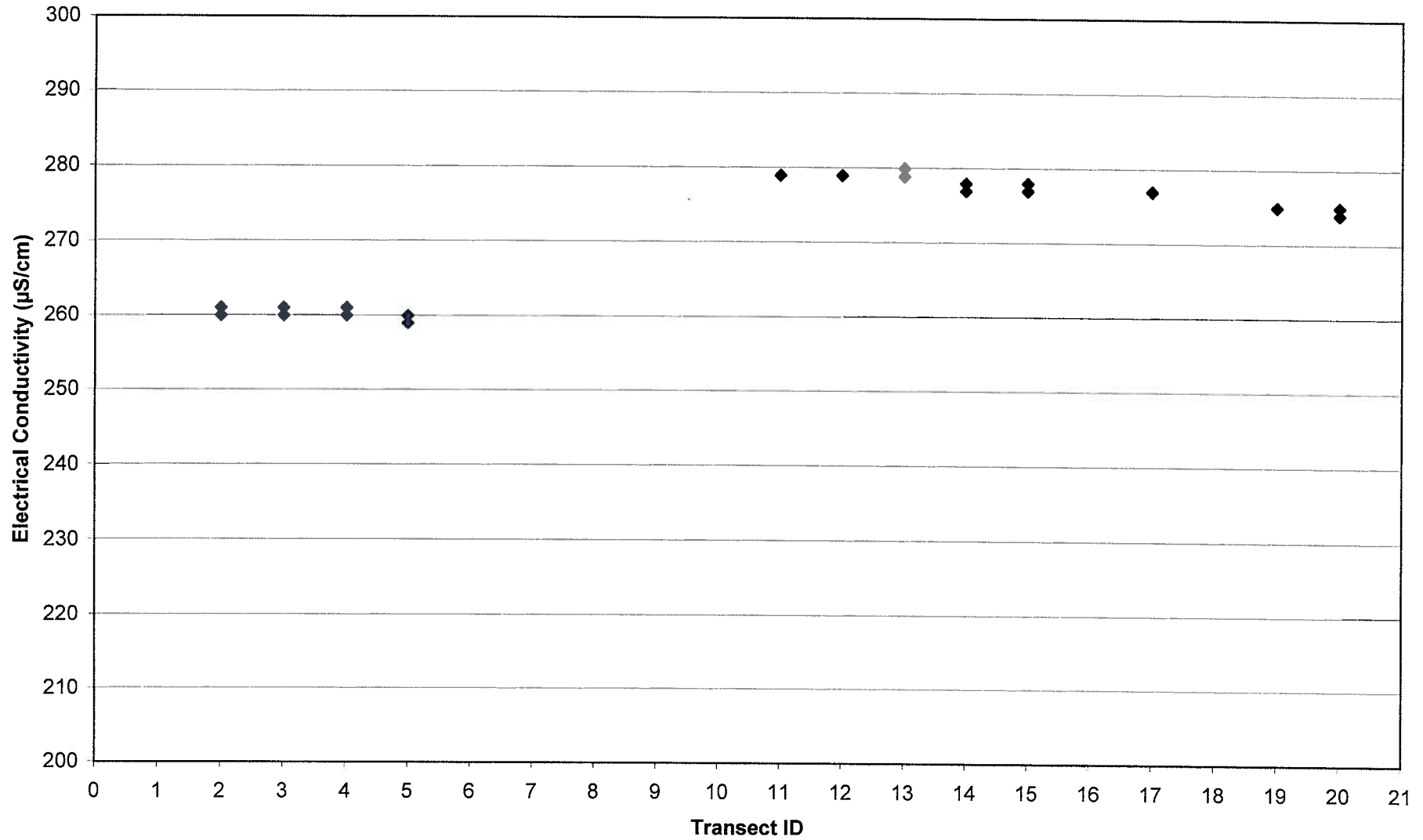
Dissolved Oxygen Measurements
Big Sur River - October 28, 2004
El Sur Ranch



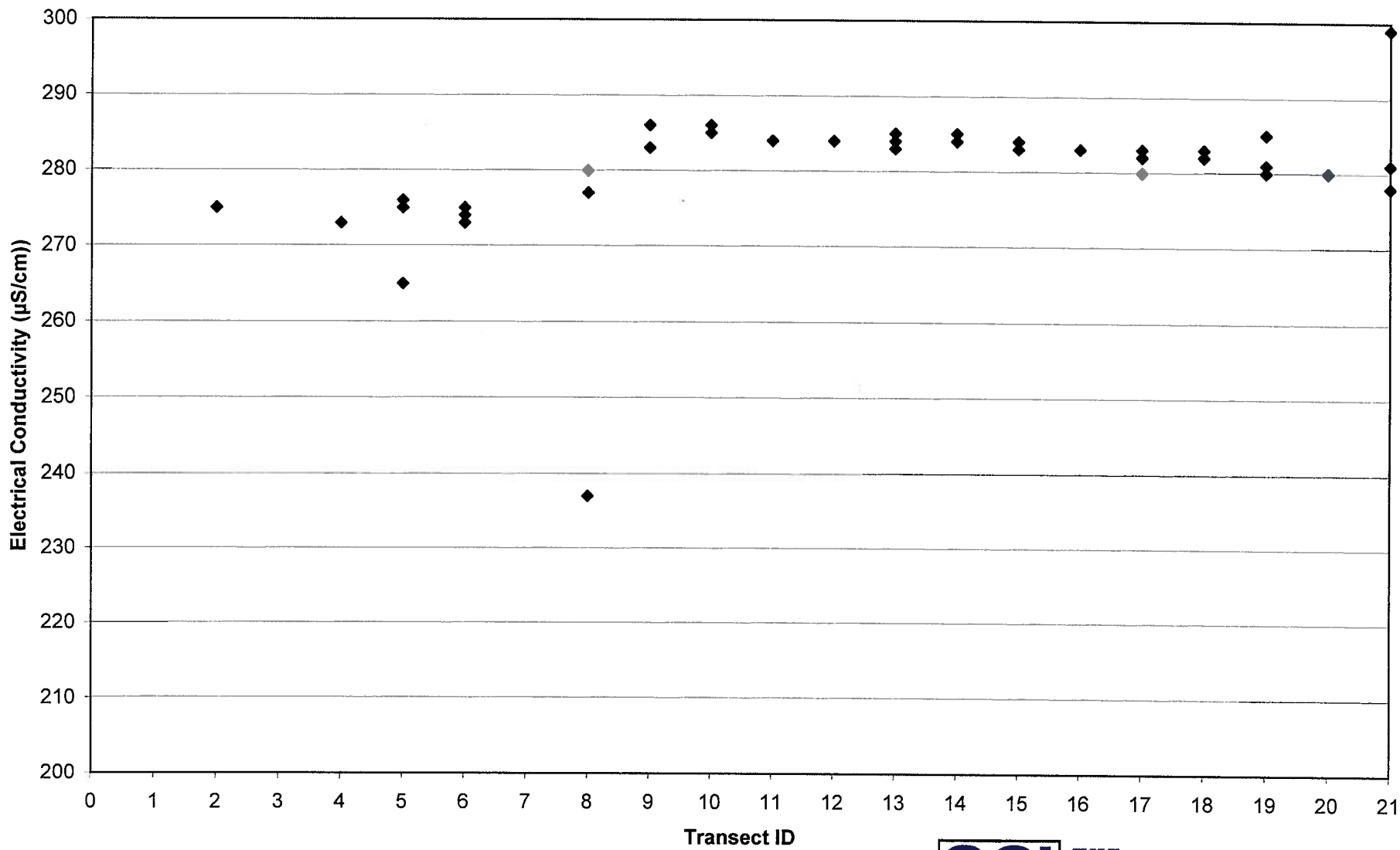
Electical Conductivity Measurements
Big Sur River - April 18, 2004
El Sur Ranch



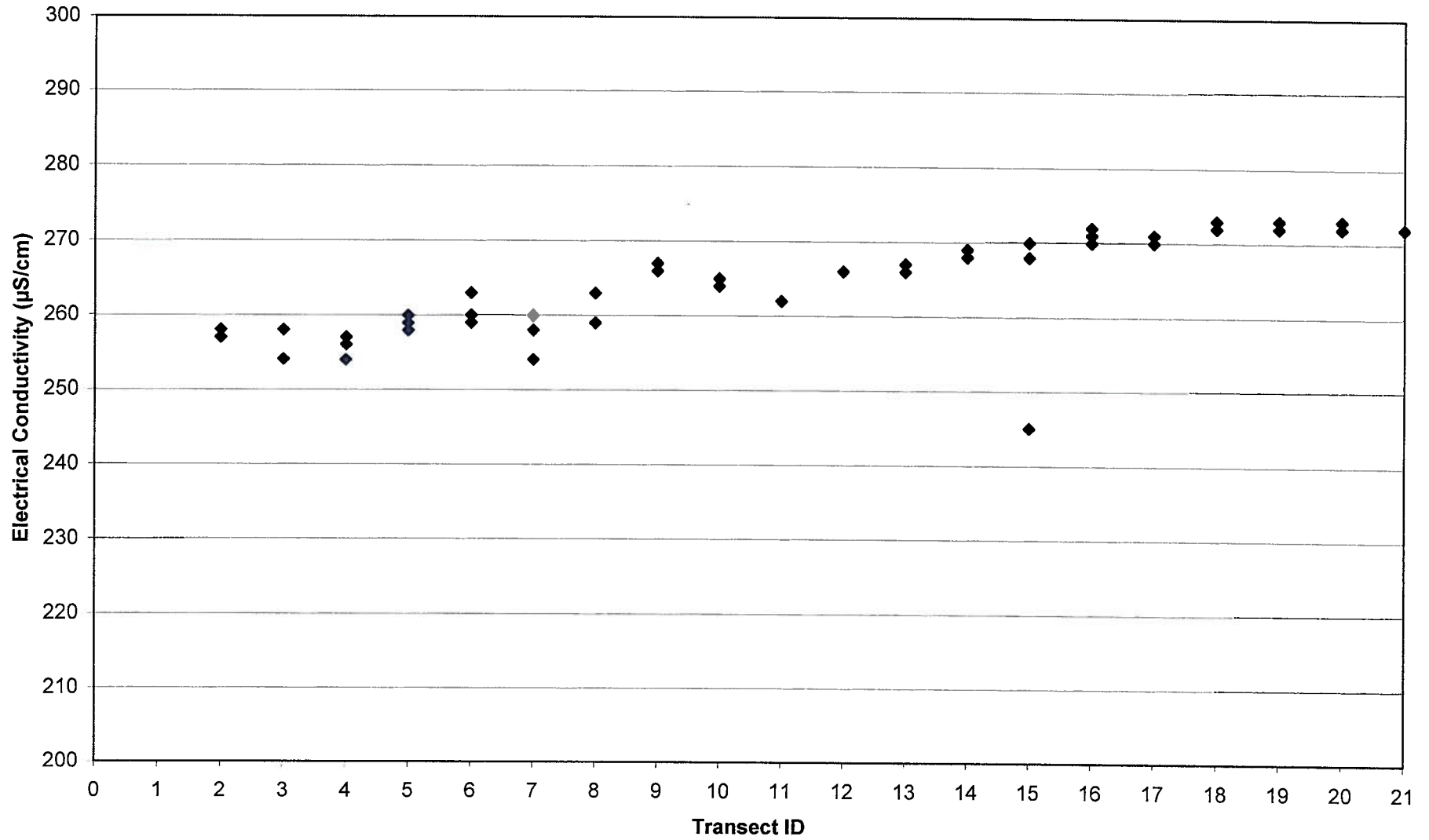
Electical Conductivity Measurements
Big Sur River - July 12, 2004
El Sur Ranch



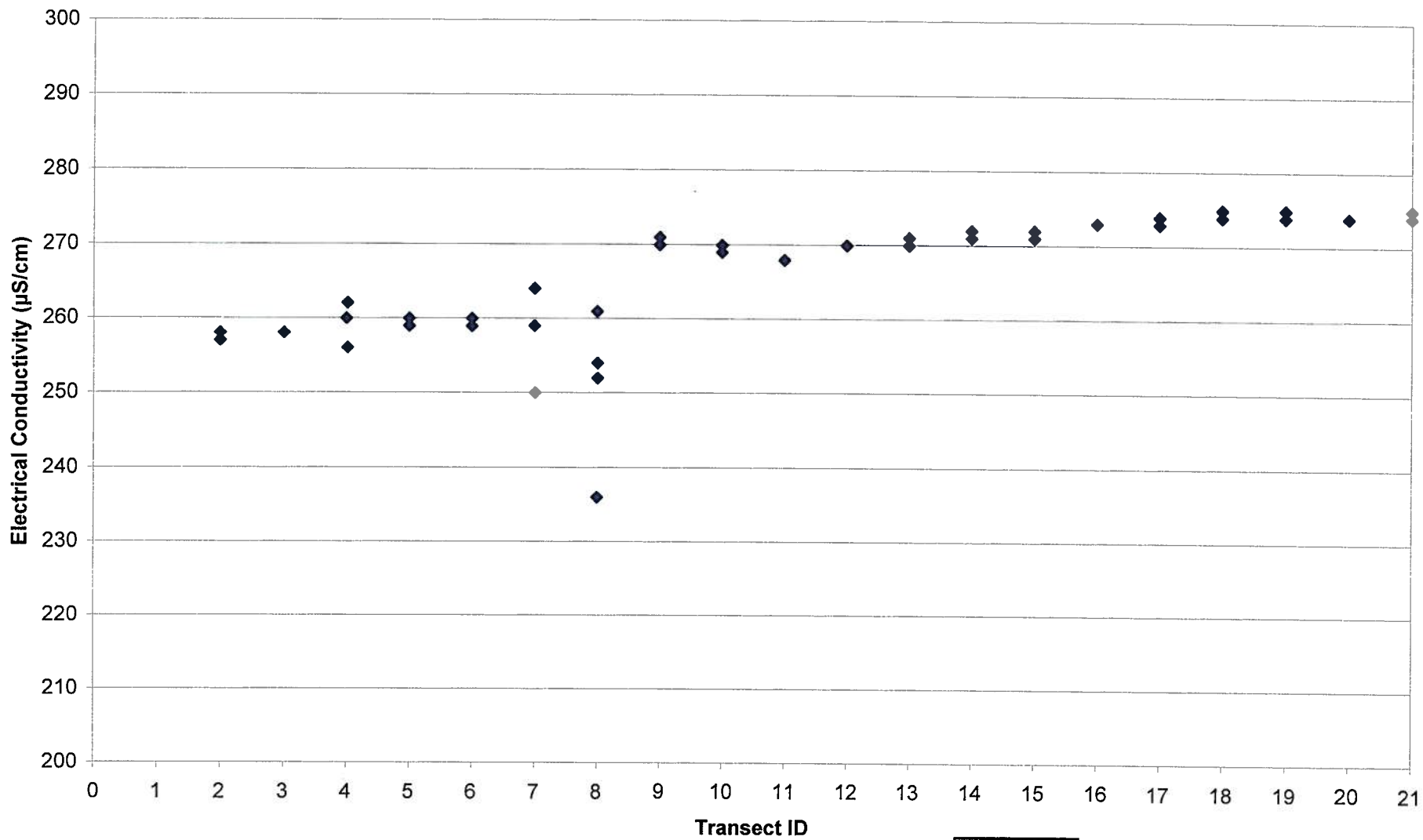
Electical Conductivity Measurements
Big Sur River - July 23, 2004
El Sur Ranch



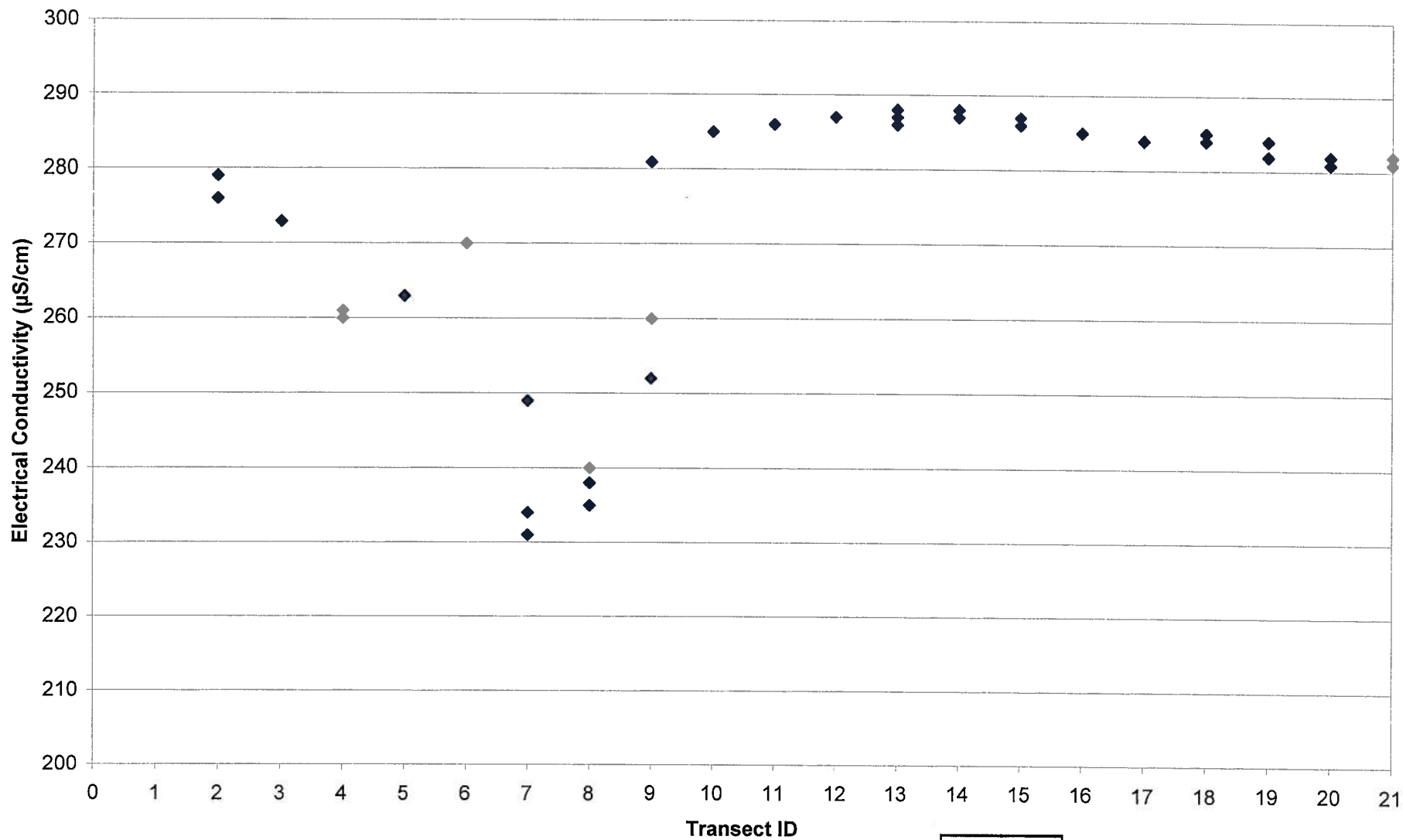
Electical Conductivity Measurements
Big Sur River - August 5, 2004
El Sur Ranch



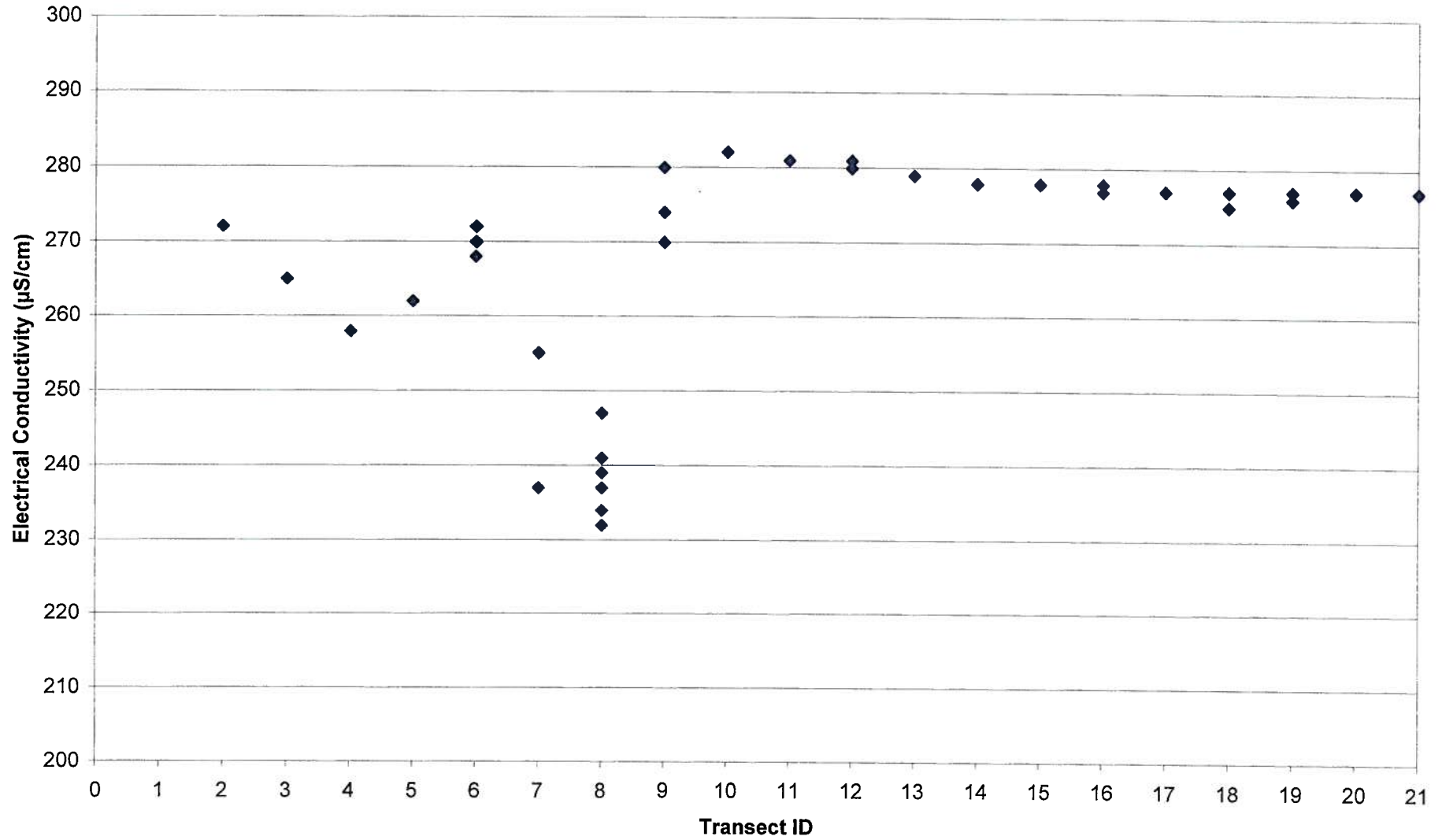
Electical Conductivity Measurements
Big Sur River - August 19, 2004
El Sur Ranch



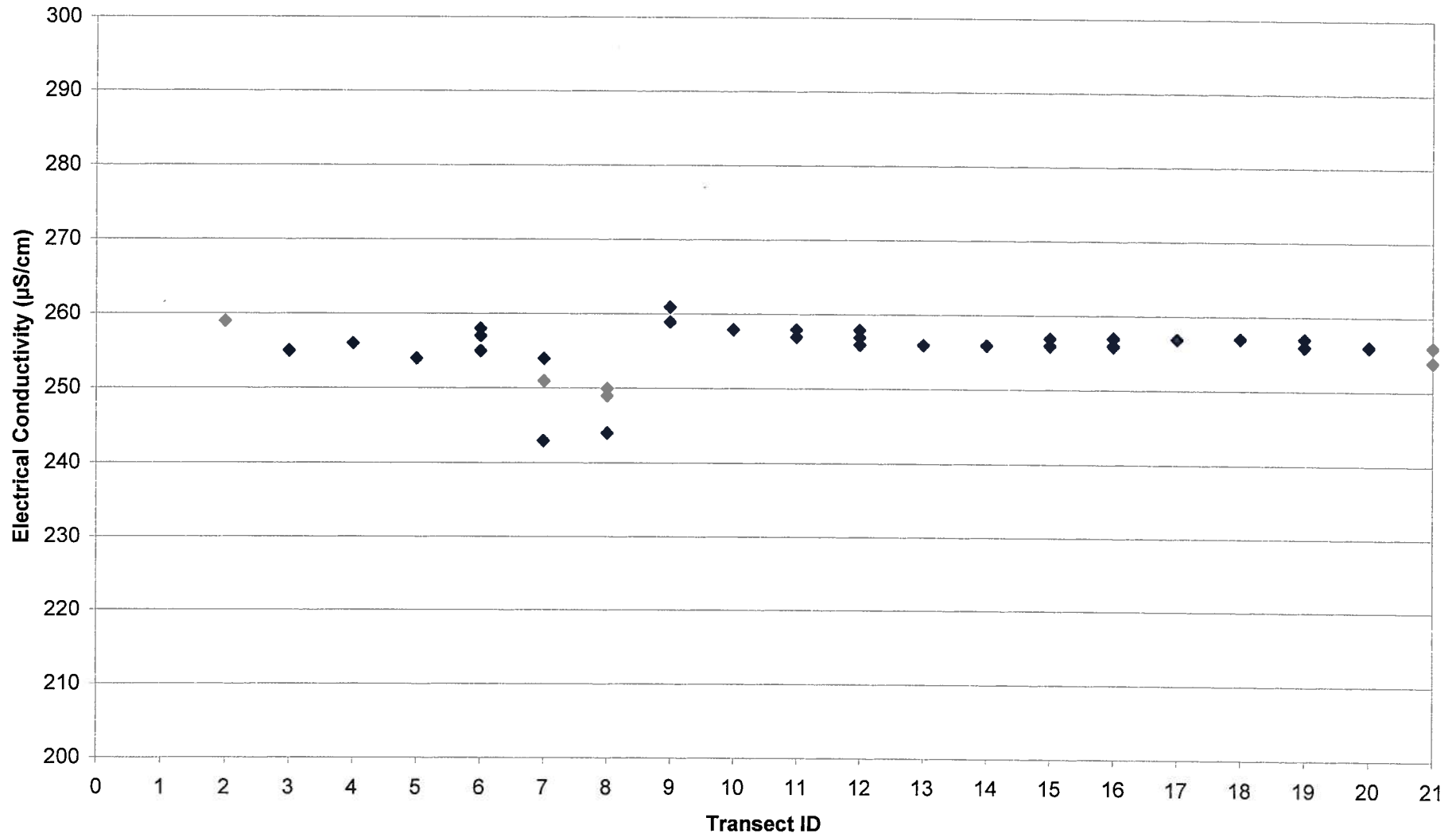
Electical Conductivity Measurements
Big Sur River - September 2, 2004
El Sur Ranch



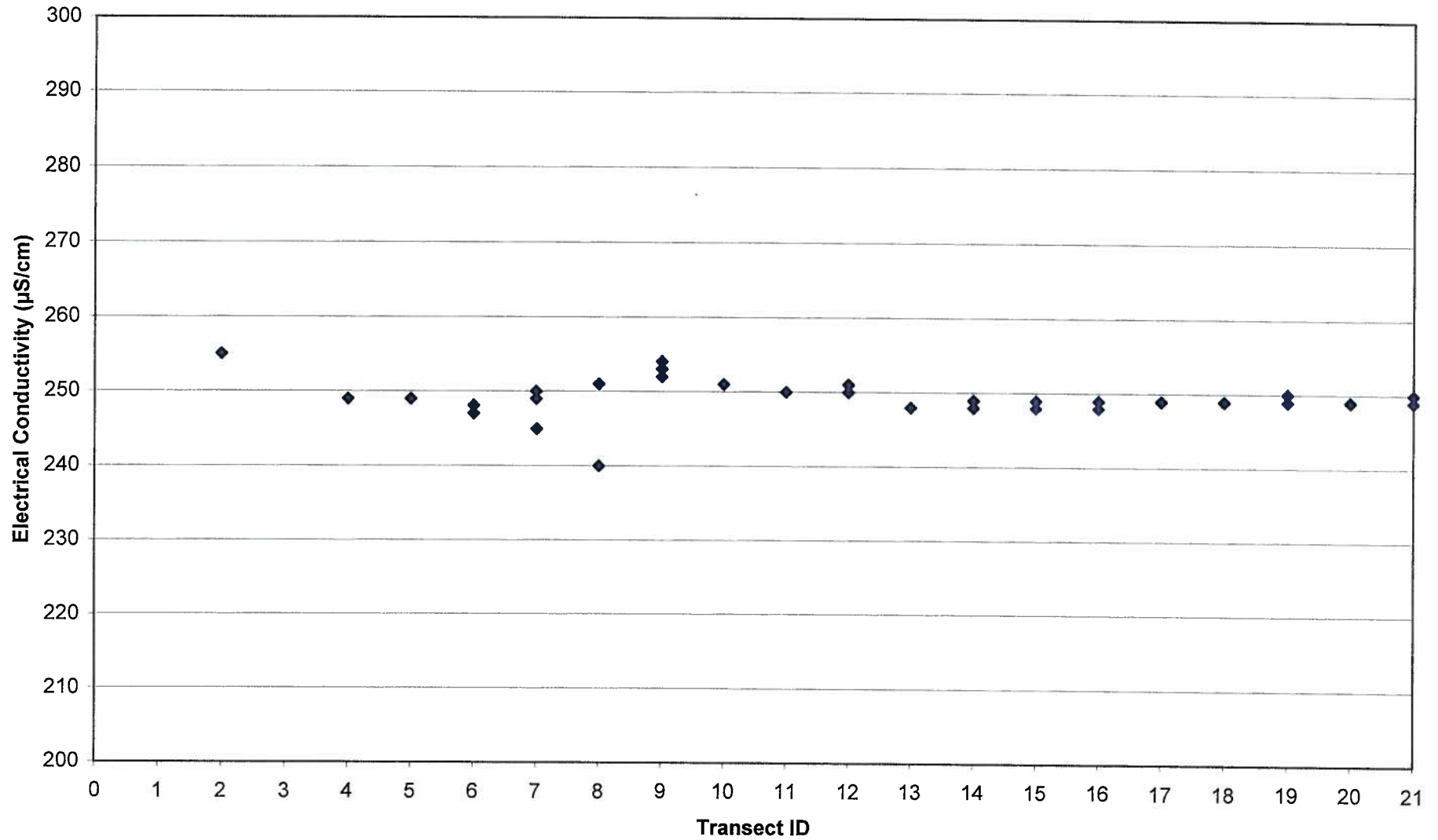
Electical Conductivity Measurements
Big Sur River - September 15, 2004
El Sur Ranch



Electical Conductivity Measurements
Big Sur River - September 30, 2004
El Sur Ranch



Electical Conductivity Measurements
Big Sur River - October 15, 2004
El Sur Ranch



Electical Conductivity Measurements
Big Sur River - October 28, 2004
El Sur Ranch

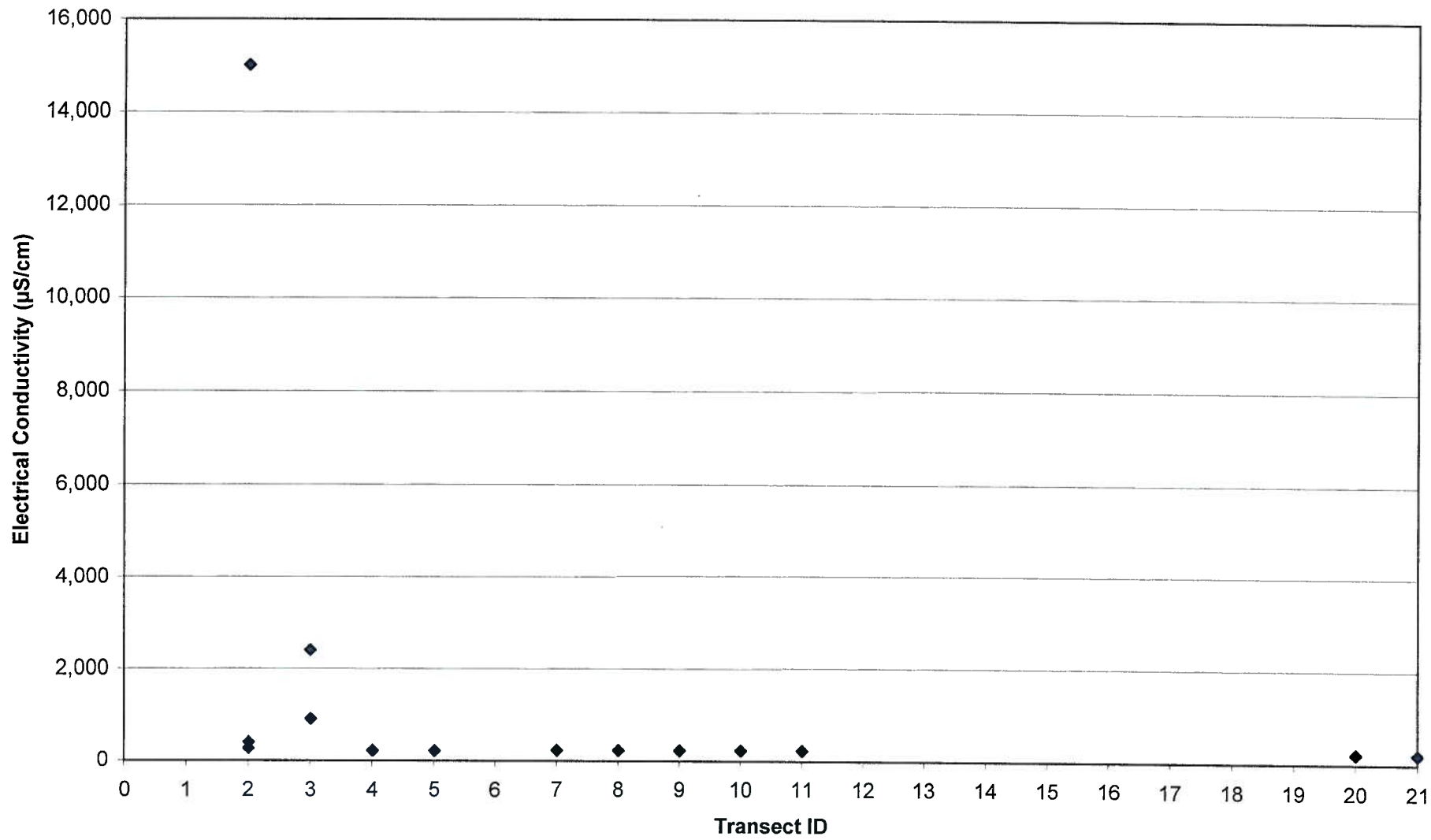


Figure 3-2a
JSA-04 Hydrograph
 El Sur Ranch
 Big Sur, California

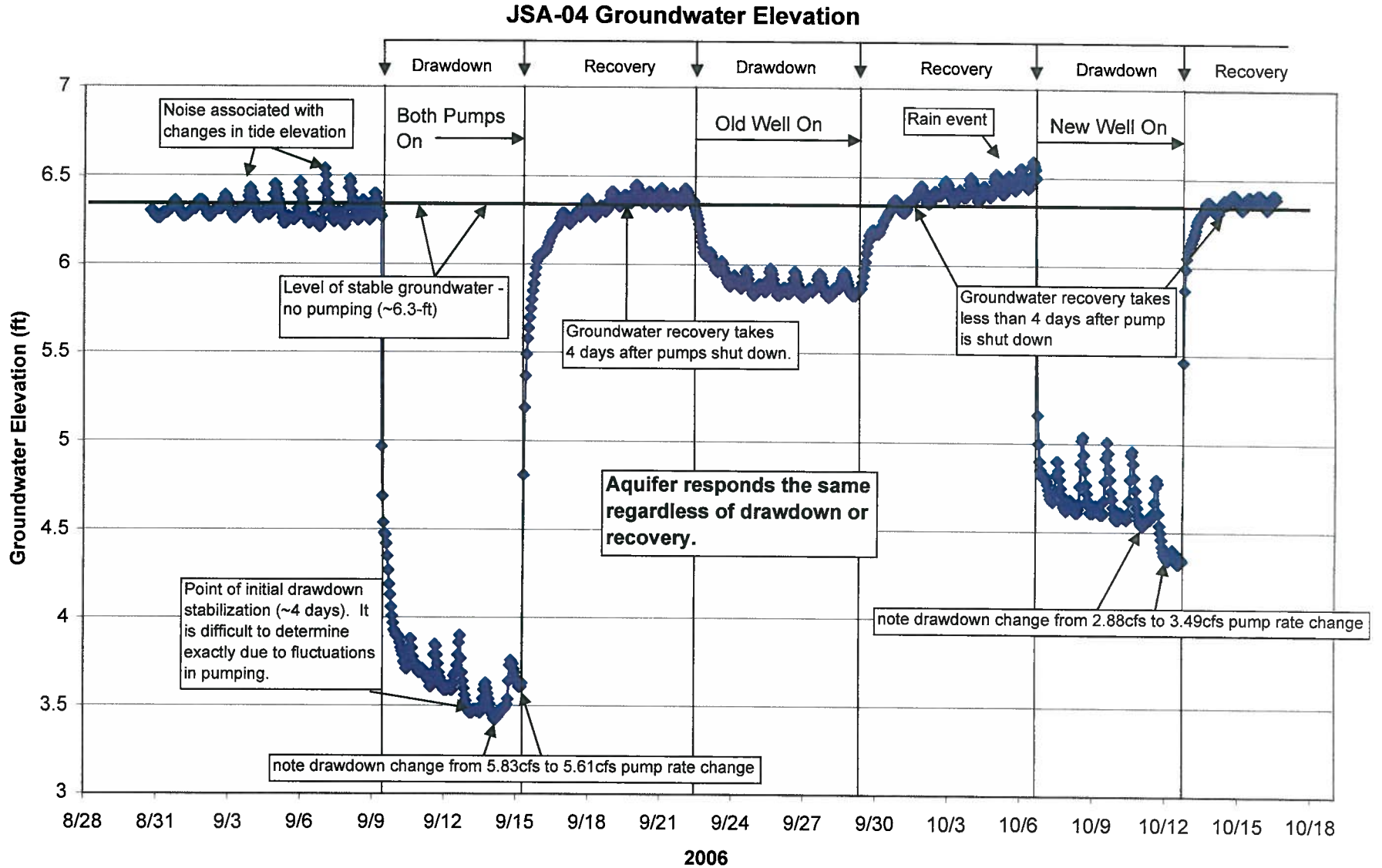


Figure 3-2b
JSA-04 Recovery Curve Post Two Well Pumping Test
 El Sur Ranch
 Big Sur, California

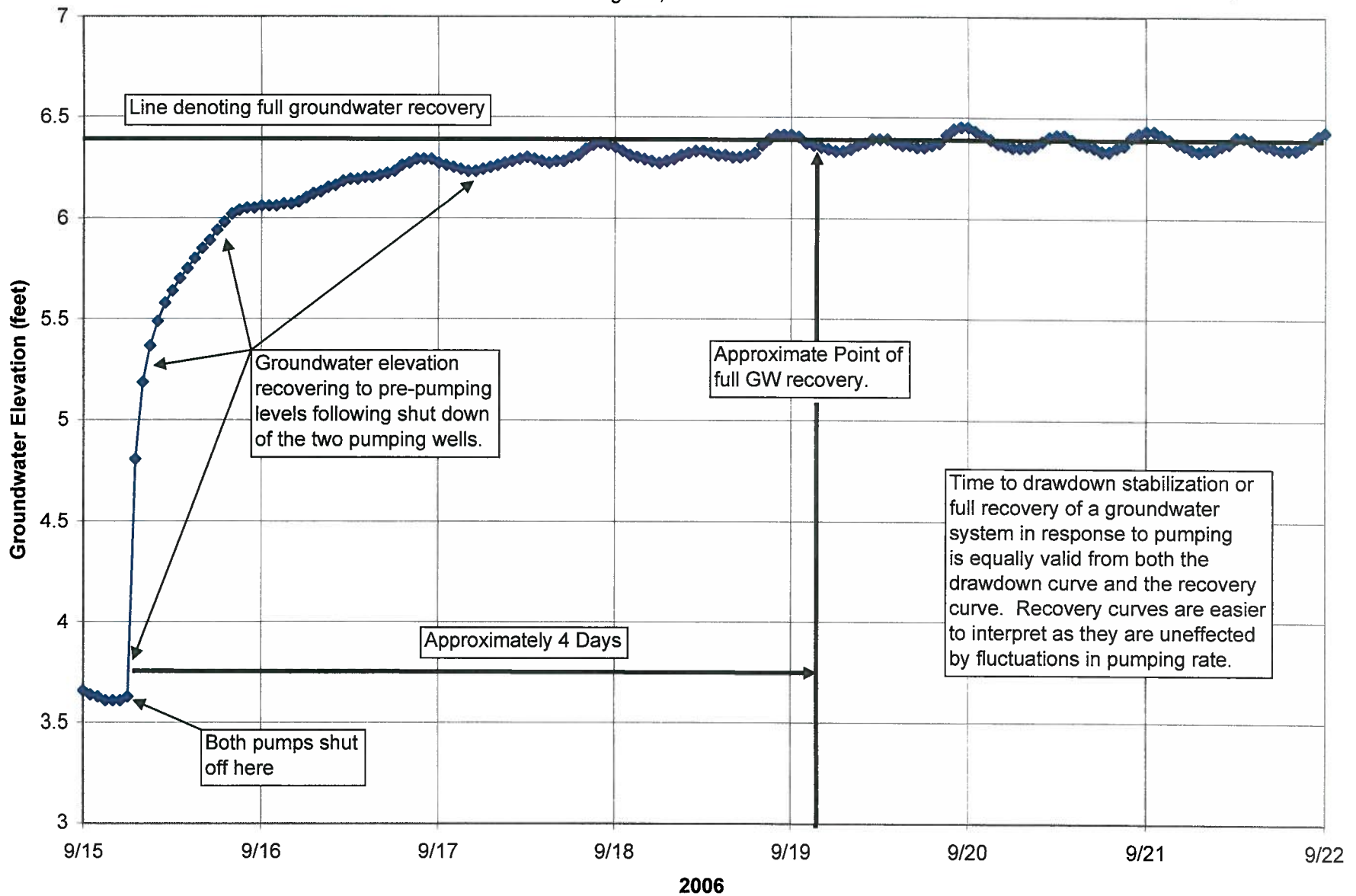


Figure 3-7
Old Well Distance Drawdown Graph
El Sur Ranch
Big Sur, California

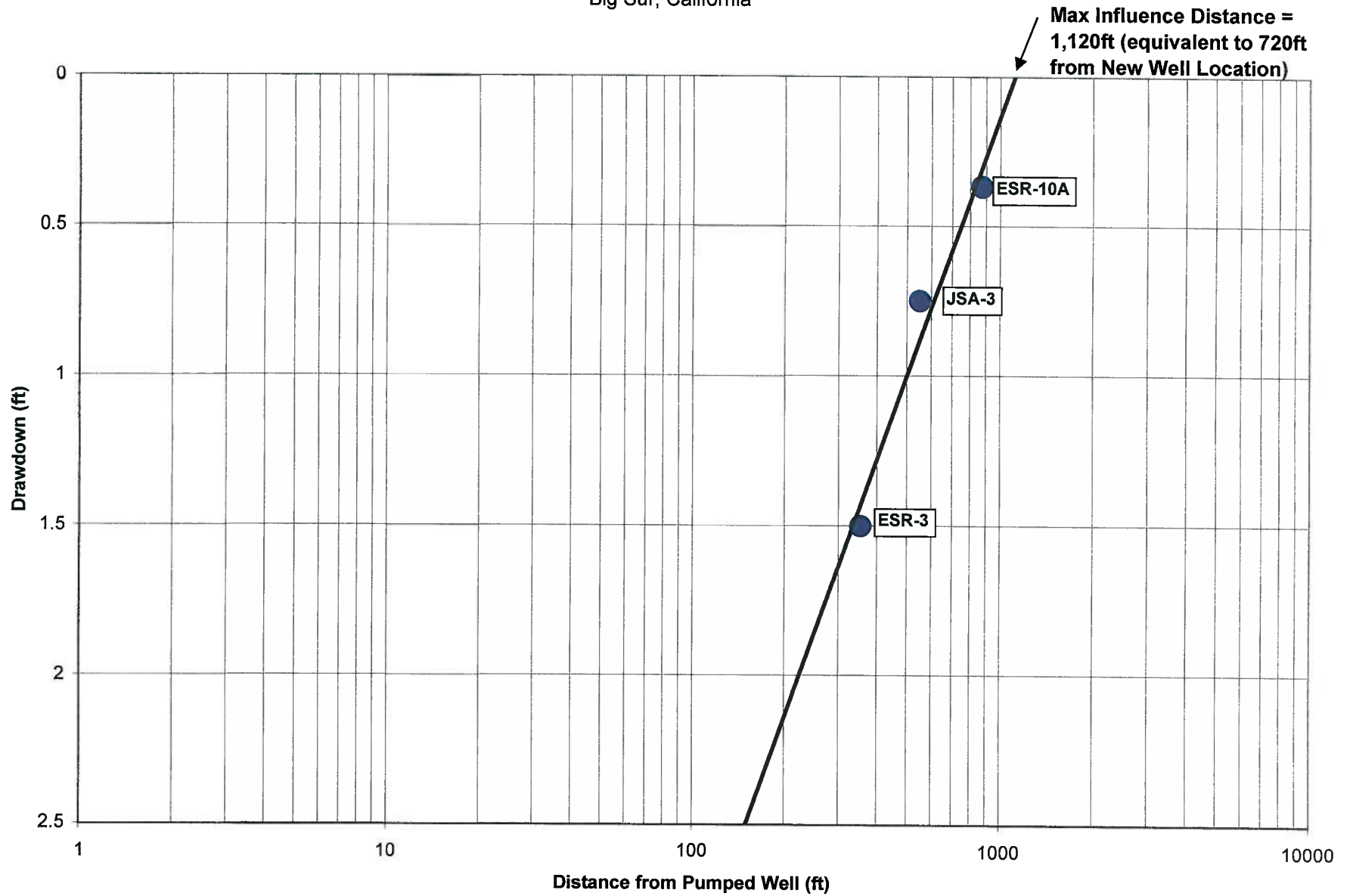


Figure 3-8
New Well Distance Drawdown Graph
El Sur Ranch
Big Sur, California

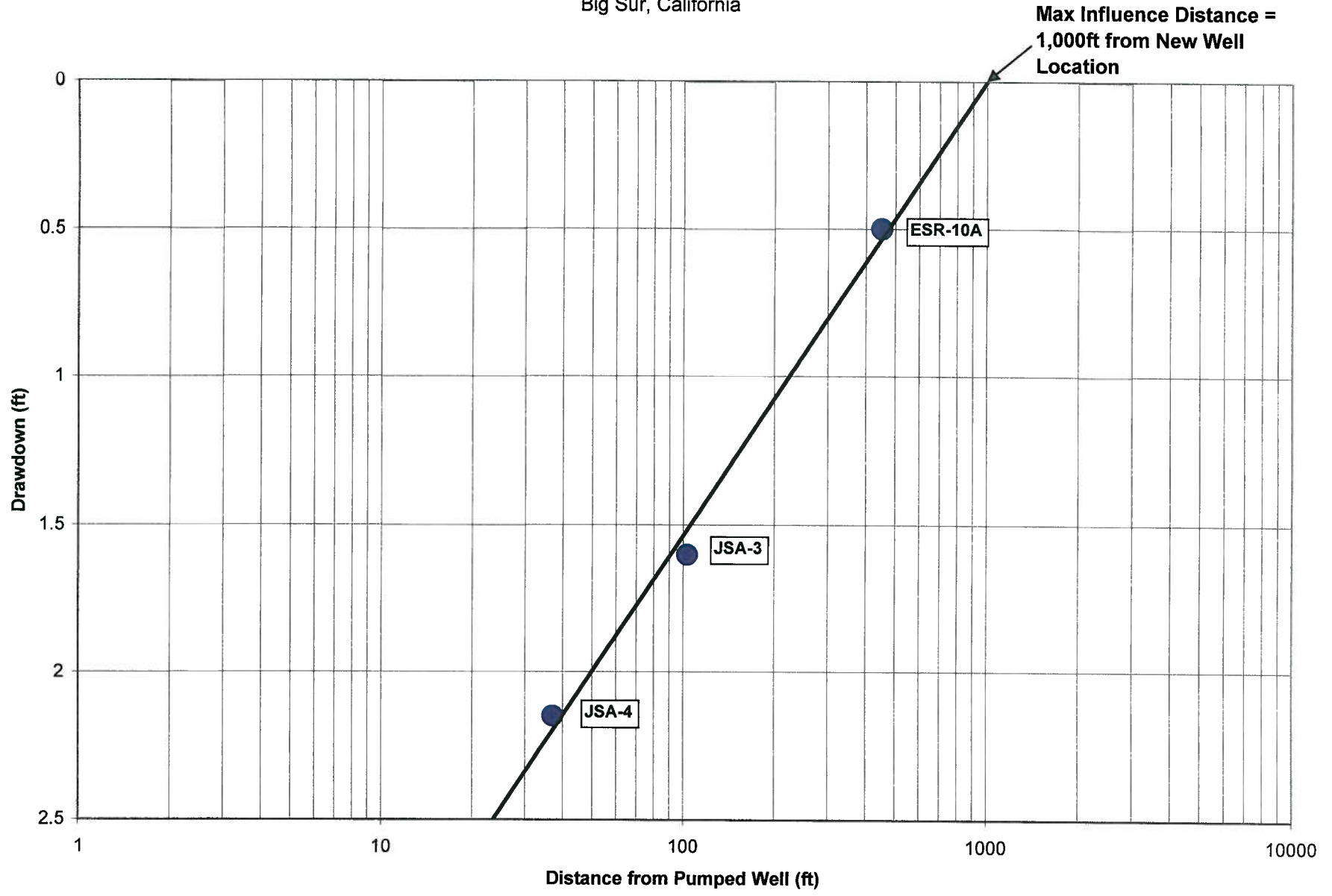


Figure 3-11
P2RD Groundwater Elevation
El Sur Ranch
Big Sur, California

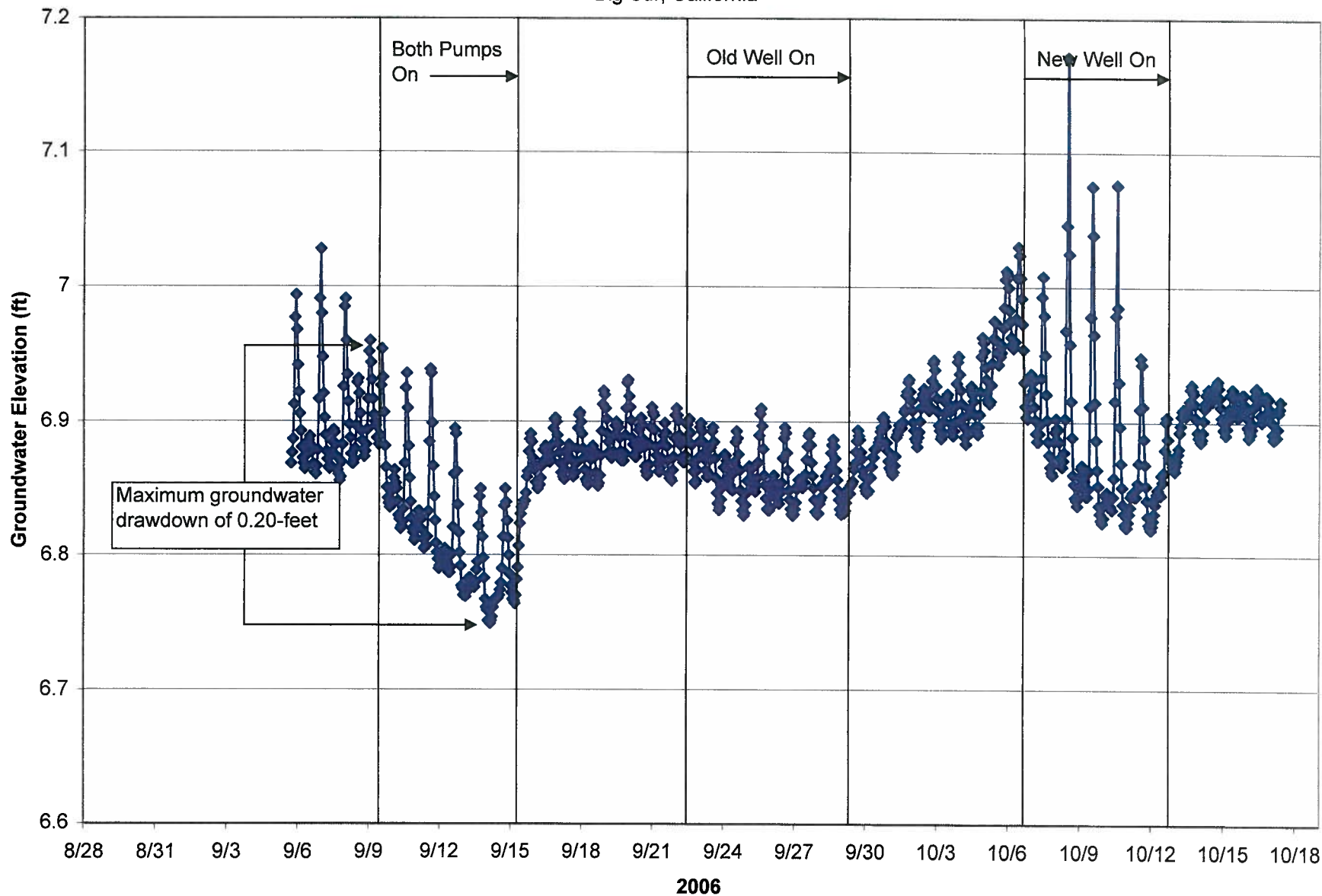


Figure 3-12
P3RD Groundwater Elevation
El Sur Ranch
Big Sur, California

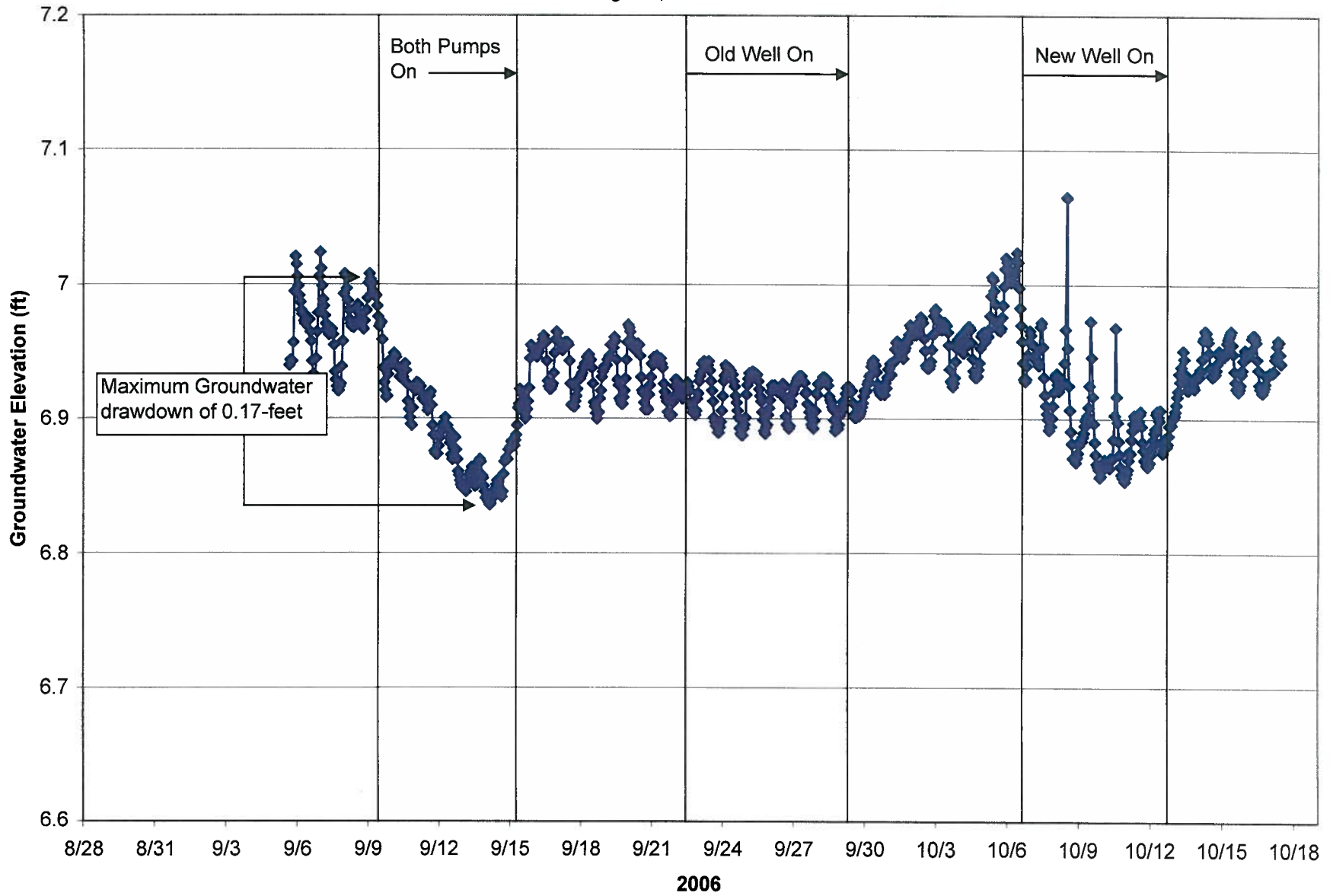
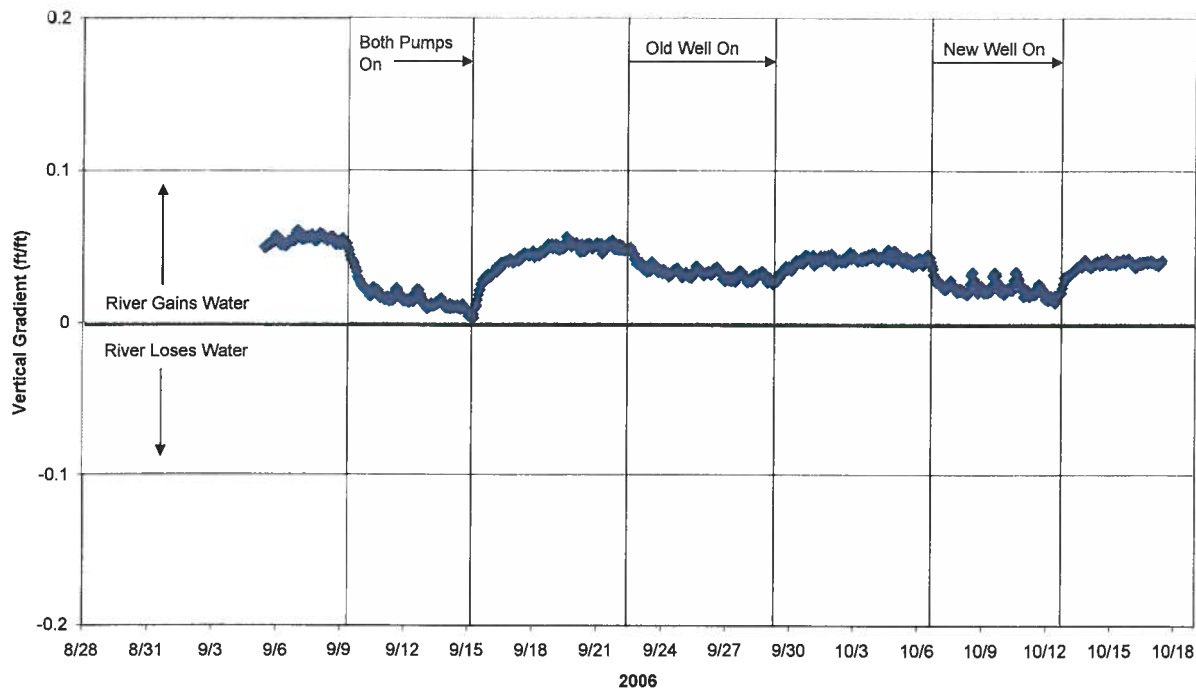


Figure 3-16
Vertical Gradients of Piezometer P4
El Sur Ranch
Big Sur, California

P4L Vertical Gradient



P4R Vertical Gradient

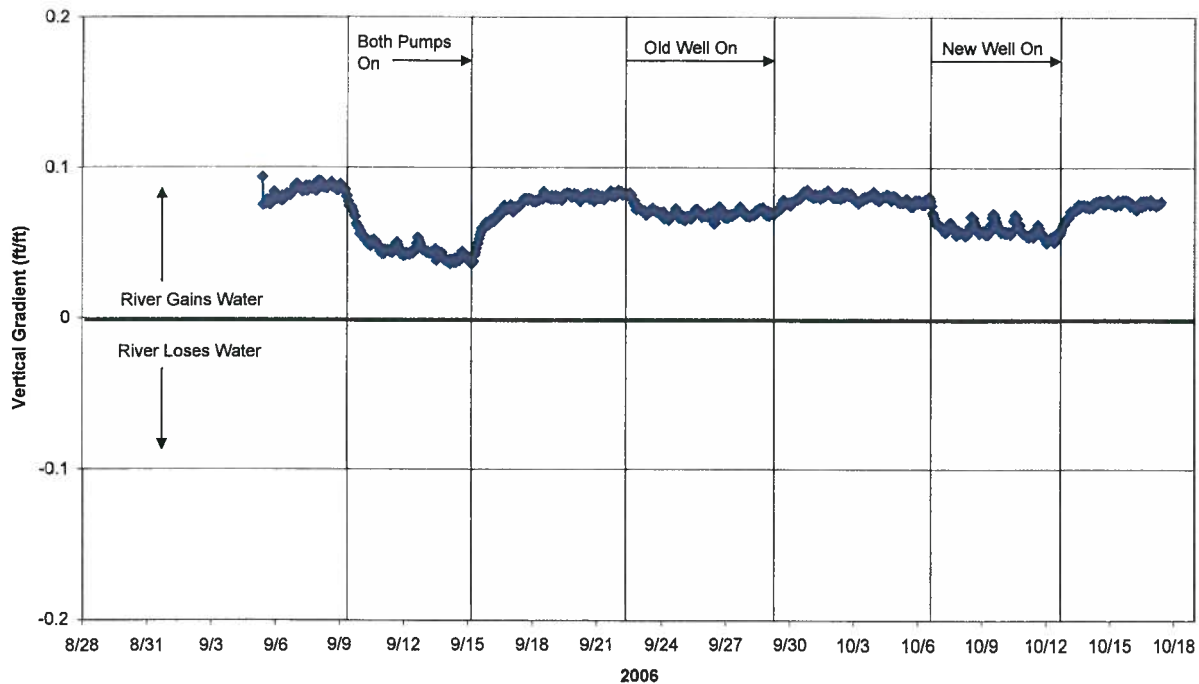
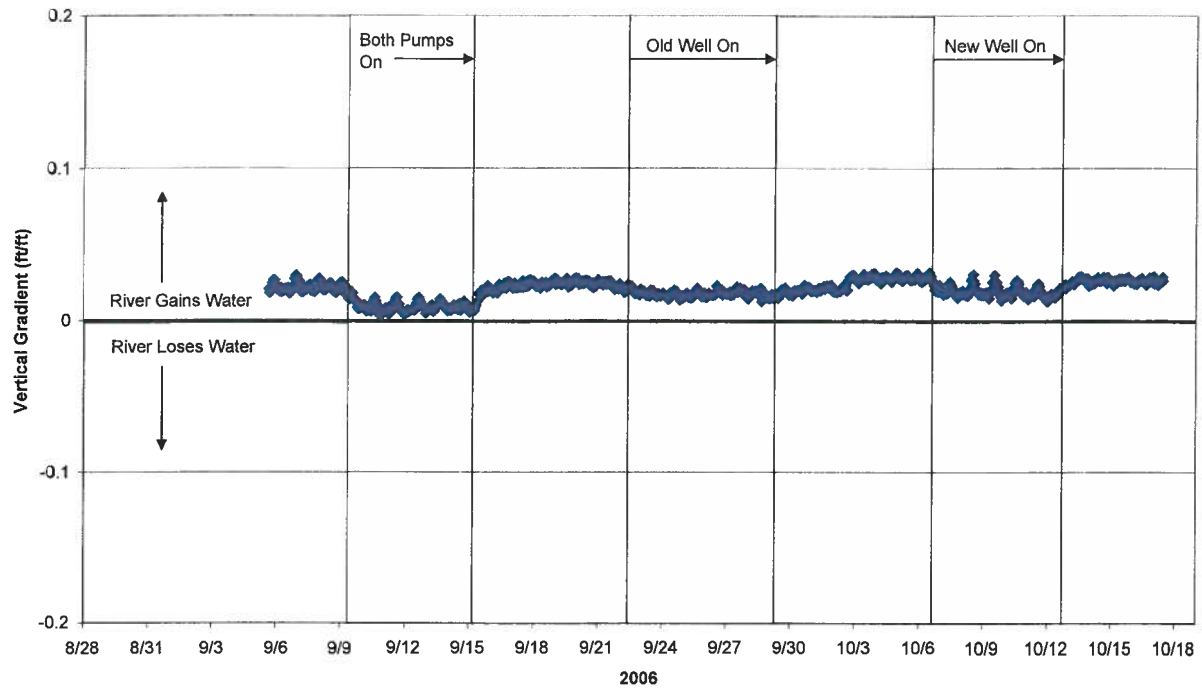


Figure 3-17
 Vertical Gradients at Piezometer P3
 El Sur Ranch
 Big Sur, California

P3L Vertical Gradient



P3R Vertical Gradient

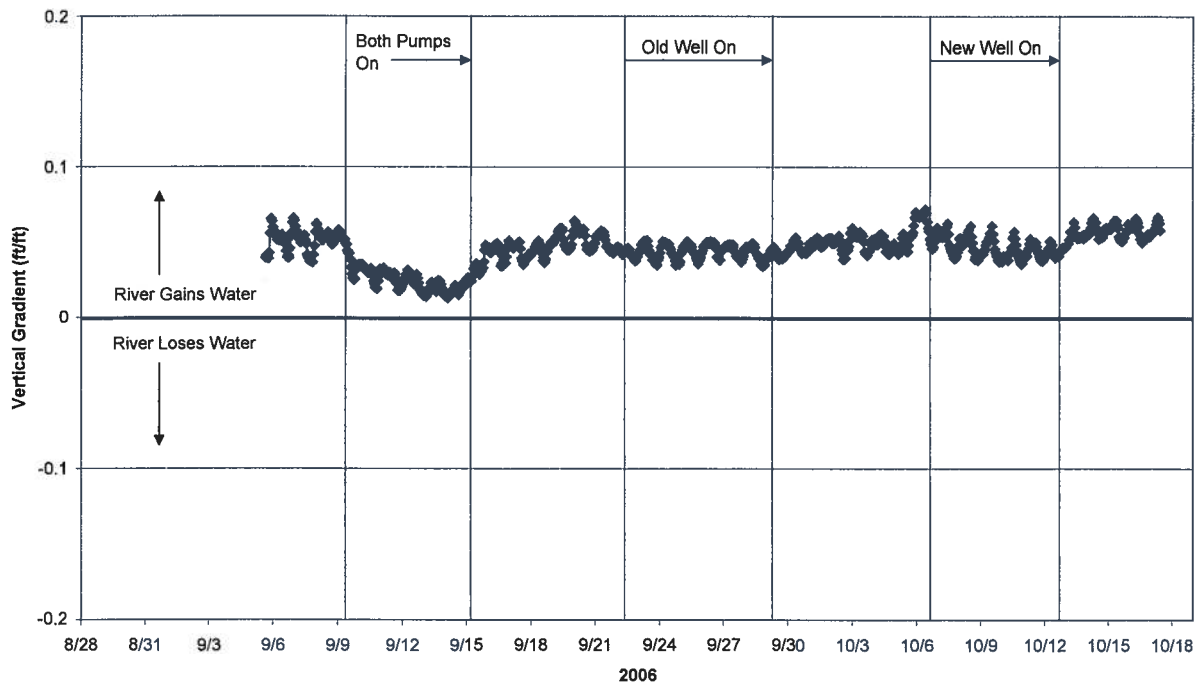


Figure 3-19
Piezometer P1LS Groundwater Elevation vs. Maximum Daily Tide
 El Sur Ranch
 Big Sur, California

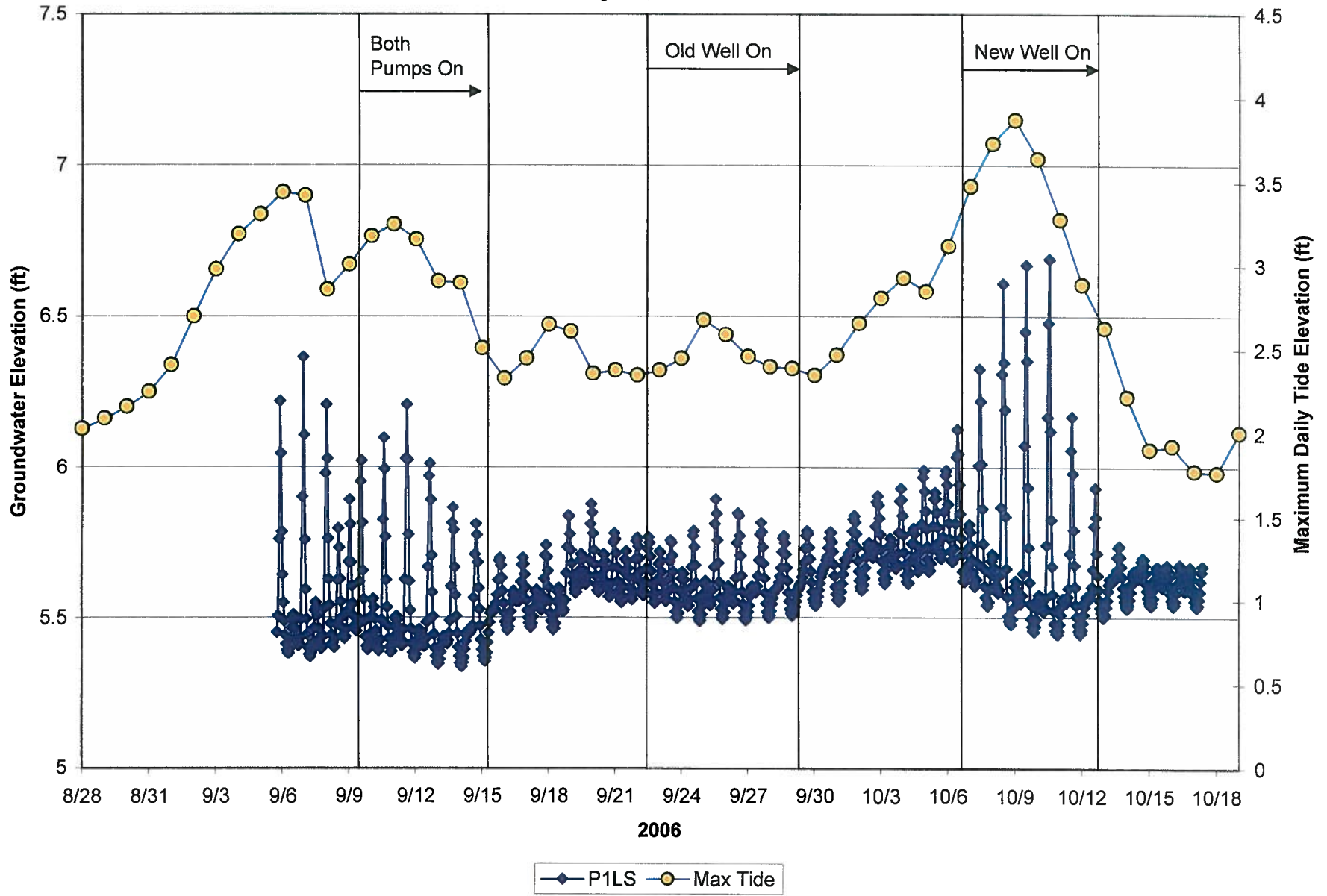


Figure 3-20
Piezometer P1L Vertical Gradient
 El Sur Ranch
 Big Sur, California

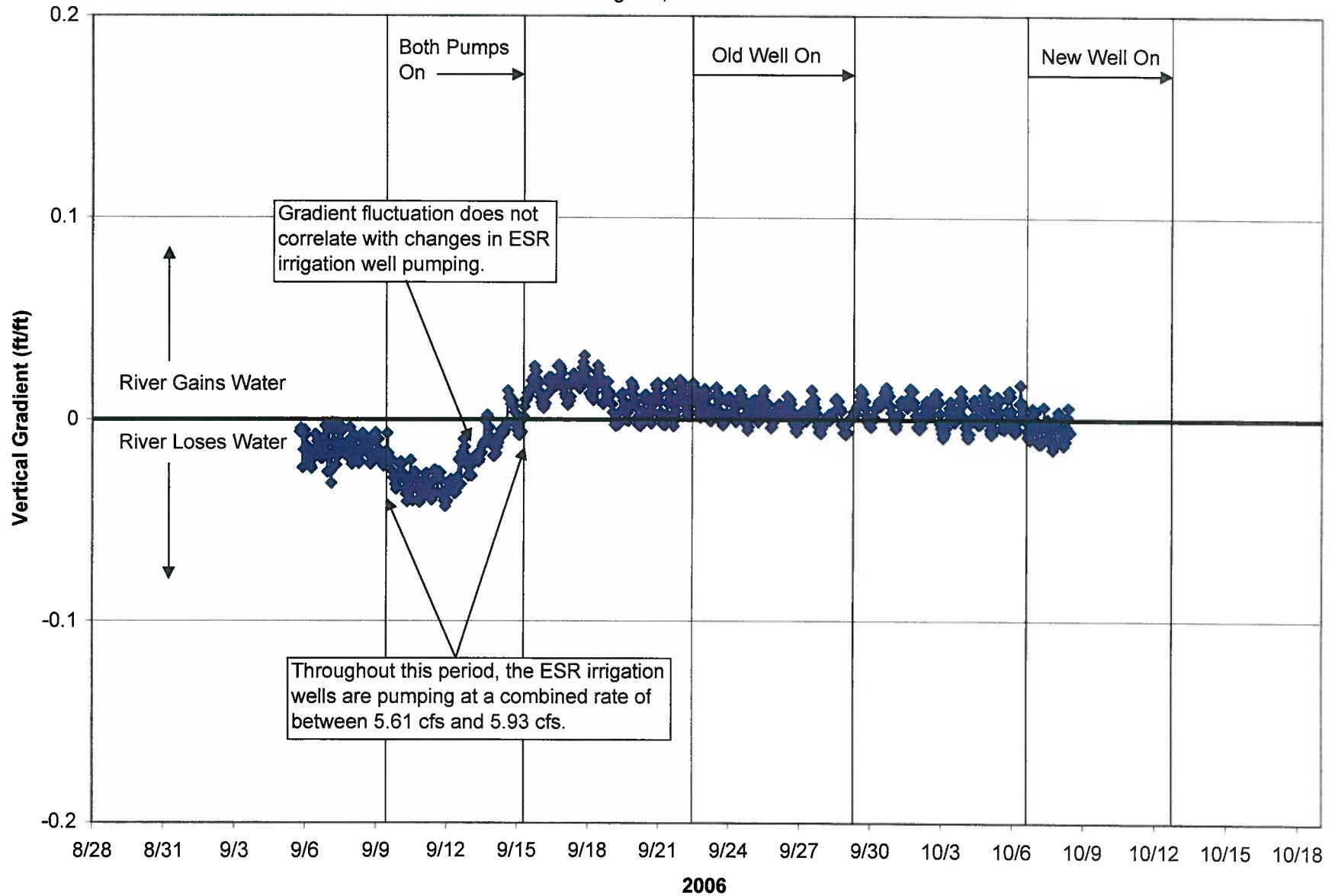
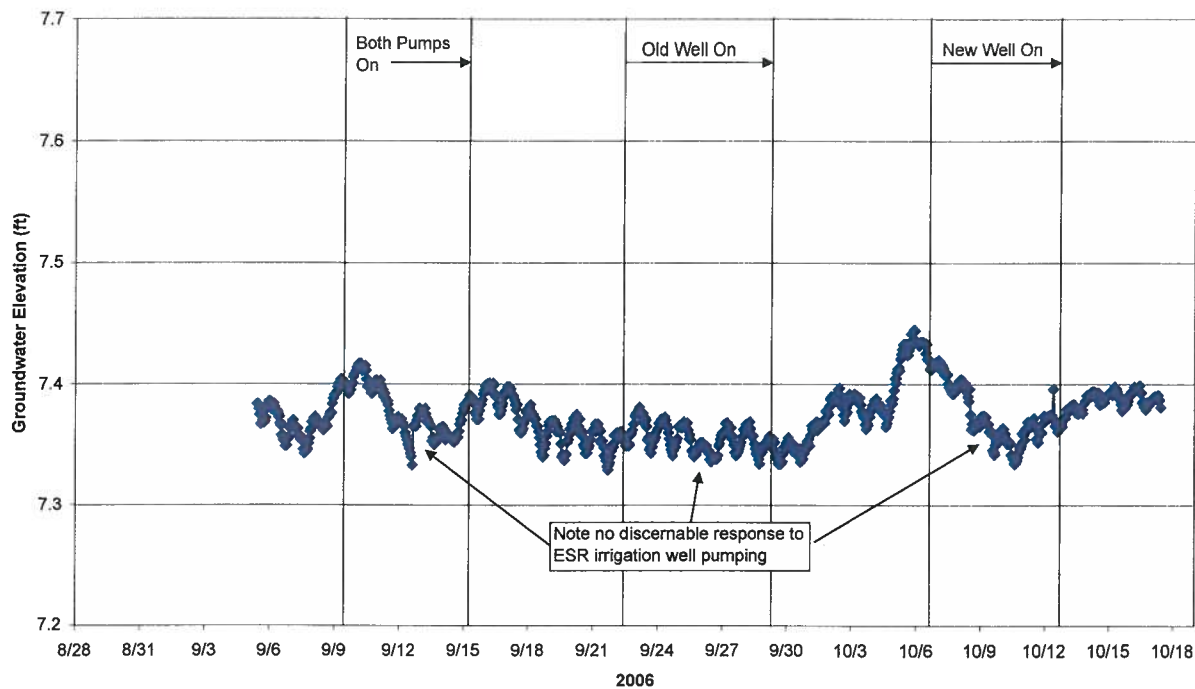


Figure 3-21
 Groundwater Elevations at Piezometer Pair P4L
 El Sur Ranch
 Big Sur, California

P4LS Groundwater Elevation



P4LD Groundwater Elevation

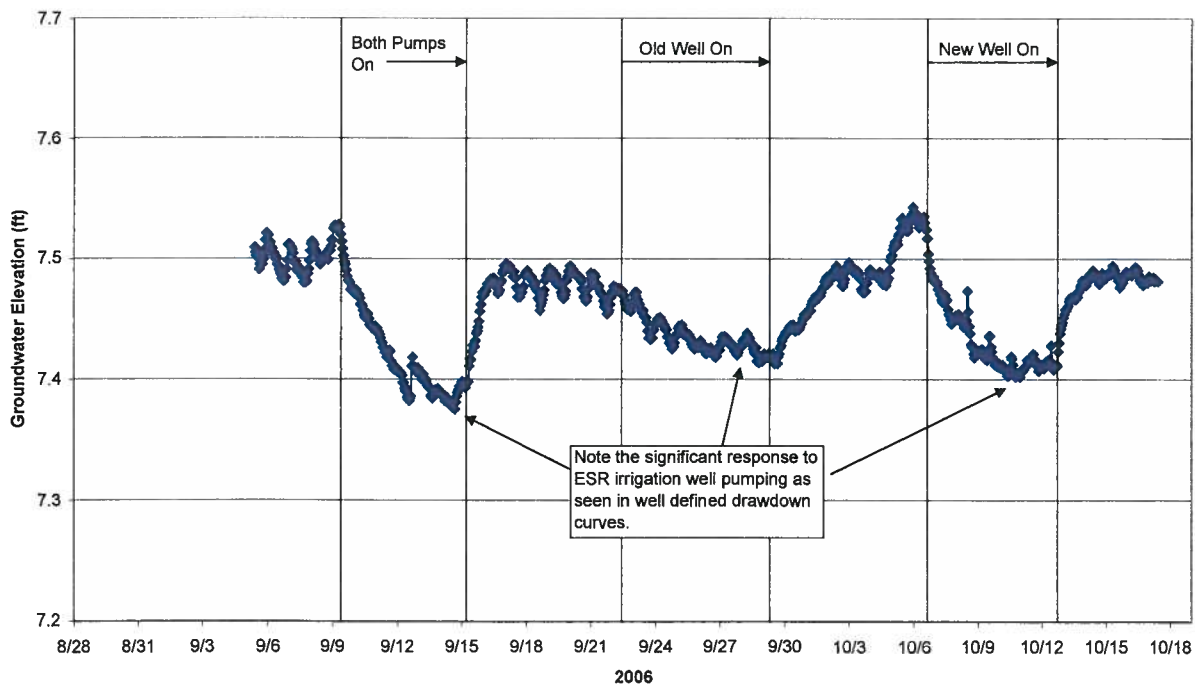
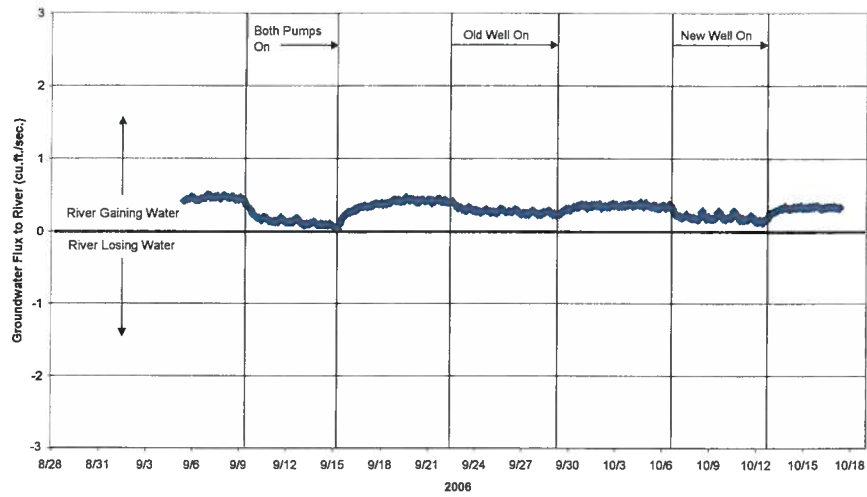
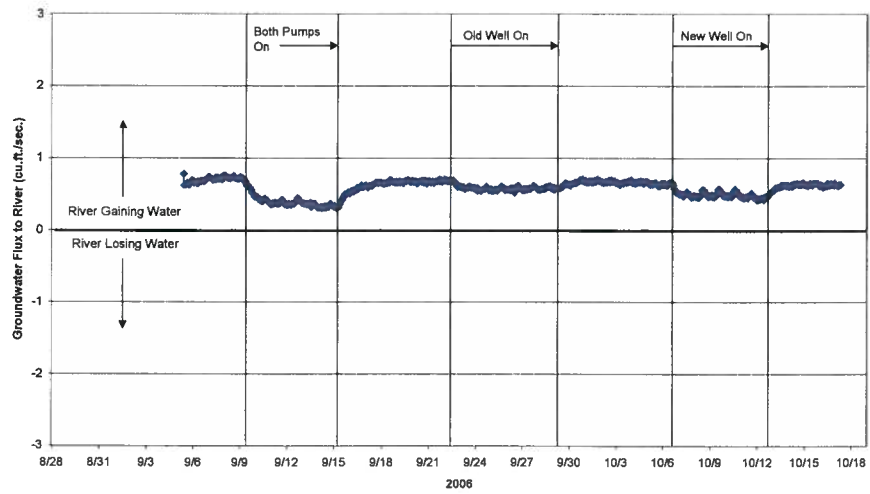


Figure 3-24
 Zone 4 Groundwater Flux to River
 El Sur Ranch
 Big Sur, California

Zone 4 Left (P4L) Groundwater Flux to River



Zone 4 Right (P4R) Groundwater Flux to River



Zone 4 - Total Groundwater Flux to River

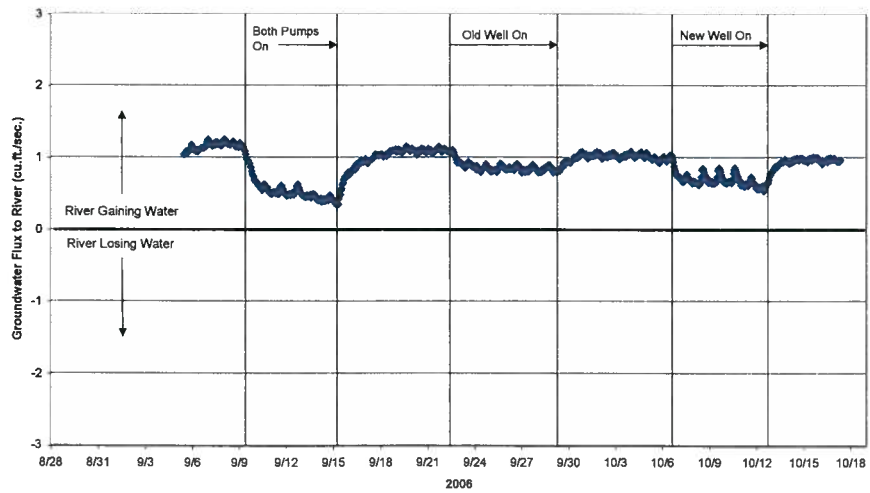
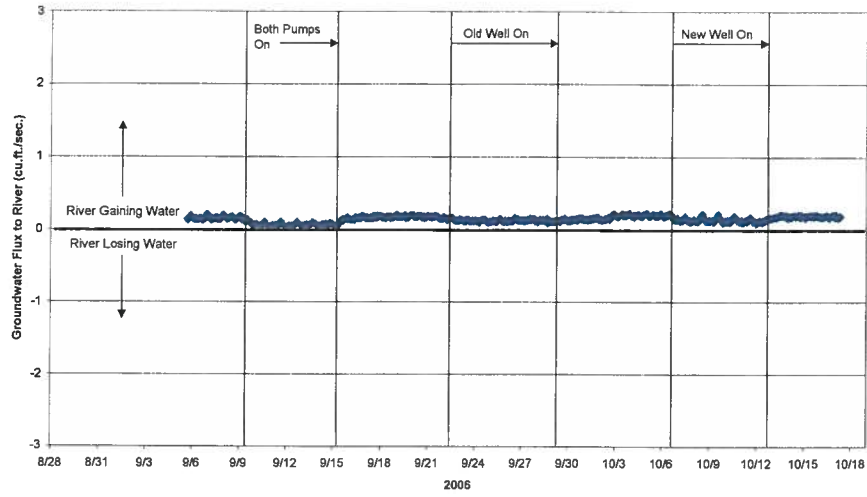
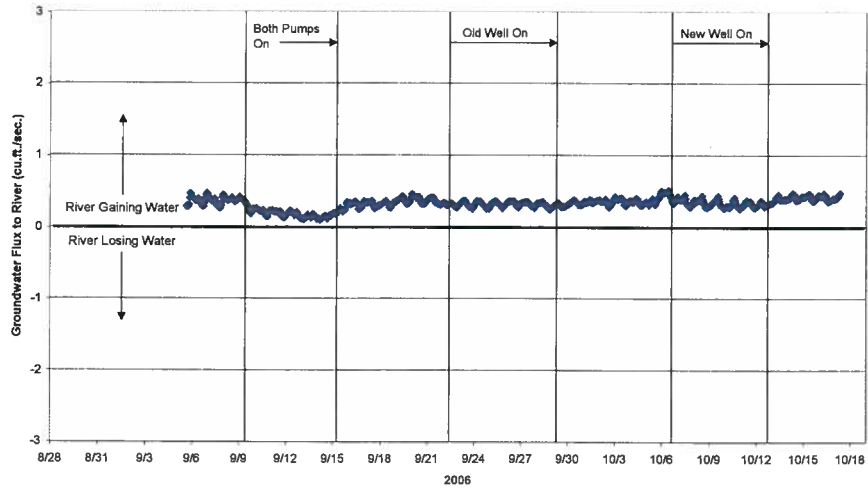


Figure 3-25
 Zone 3 Groundwater Flux to River
 El Sur Ranch
 Big Sur, California

Zone 3 Left (P3L) Groundwater Flux to River



Zone 3 Right (P3R) Groundwater Flux to River



Zone 3 - Total Groundwater Flux to River

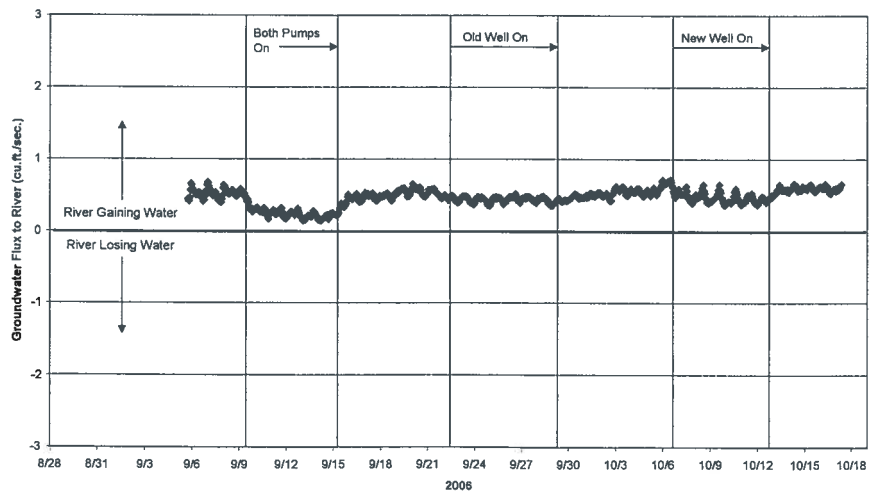
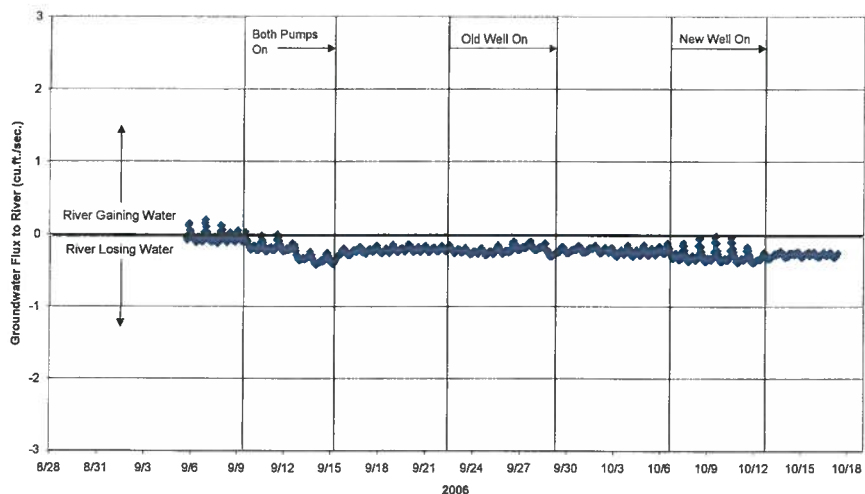
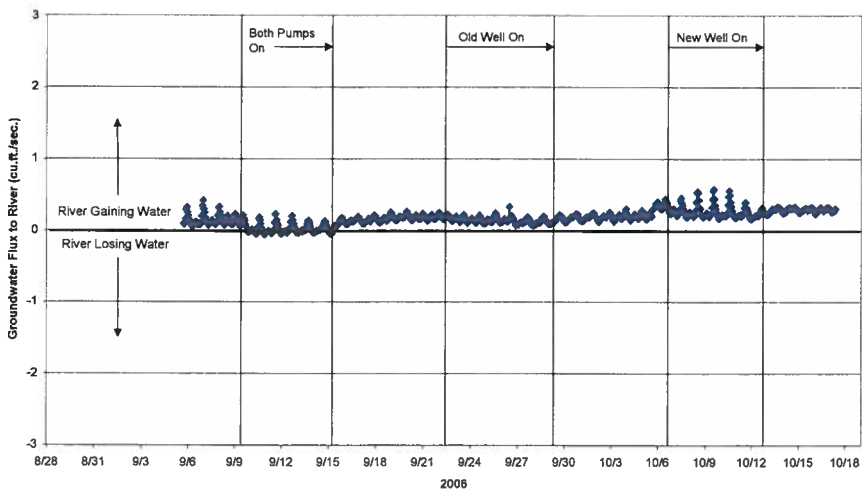


Figure 3-28
 Zone 2 Groundwater Flux to River
 El Sur Ranch
 Big Sur, California

Zone 2 Left (P2L) Groundwater Flux to River



Zone 2 Right (P2R) Groundwater Flux to River



Zone 2 - Total Groundwater Flux to River

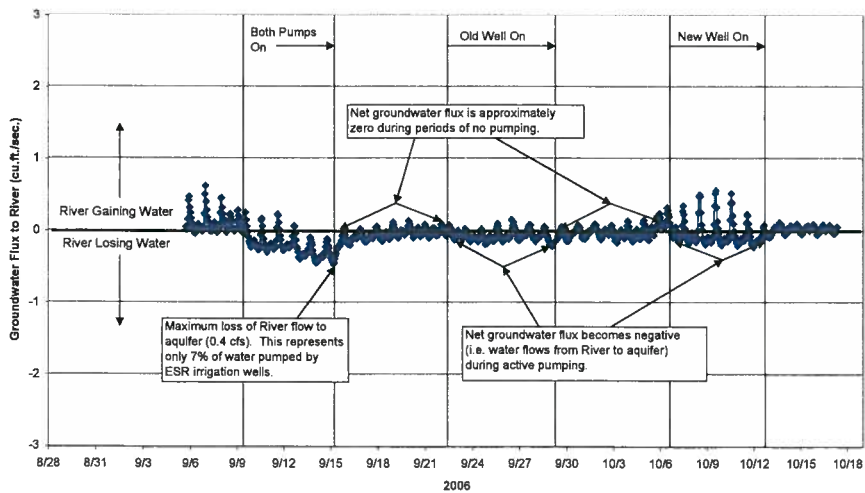


Figure 3-27
 Zone 1 Groundwater Flux to River
 El Sur Ranch
 Big Sur, California

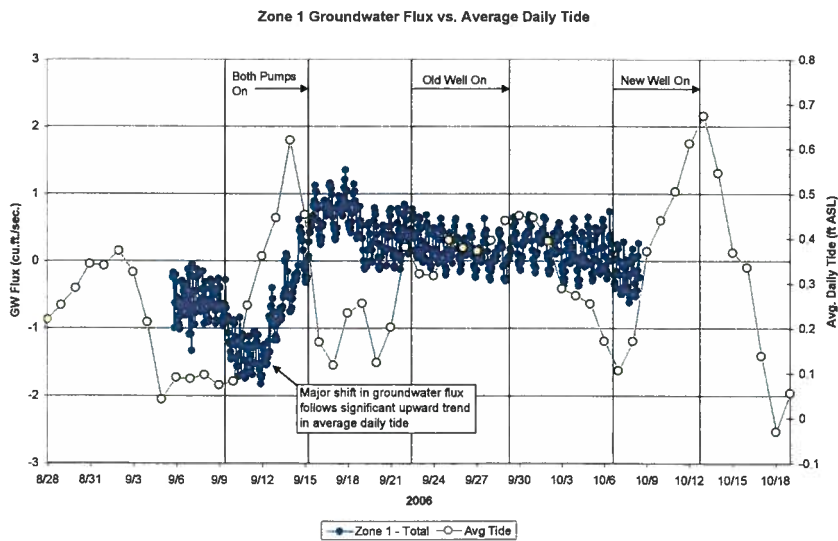
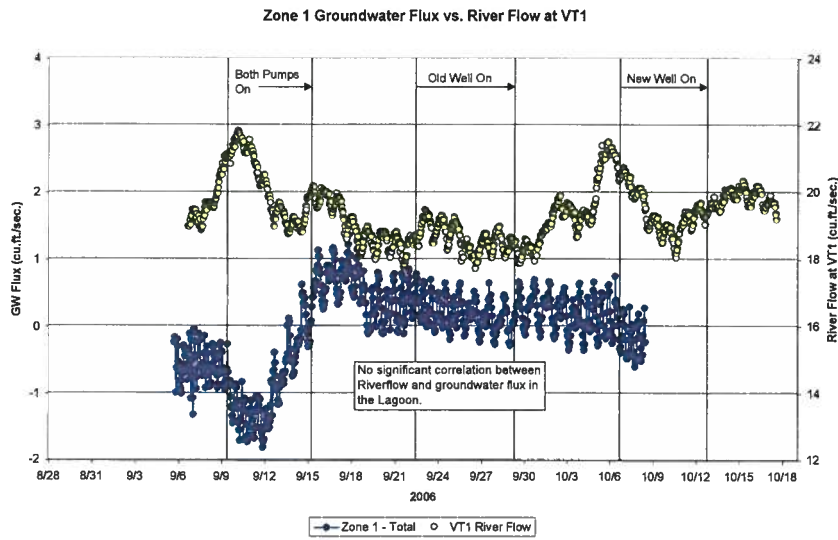
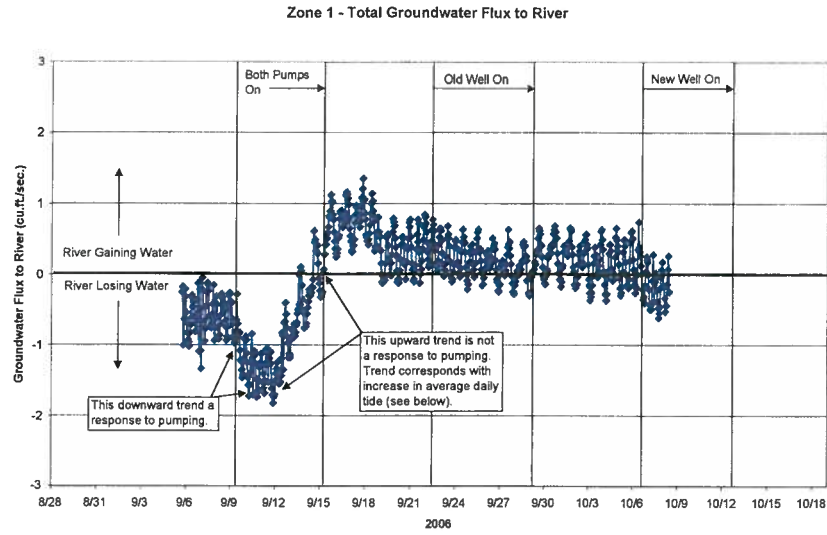


Figure 3-34
Navy Well Electroconductivity
El Sur Ranch
Big Sur, California

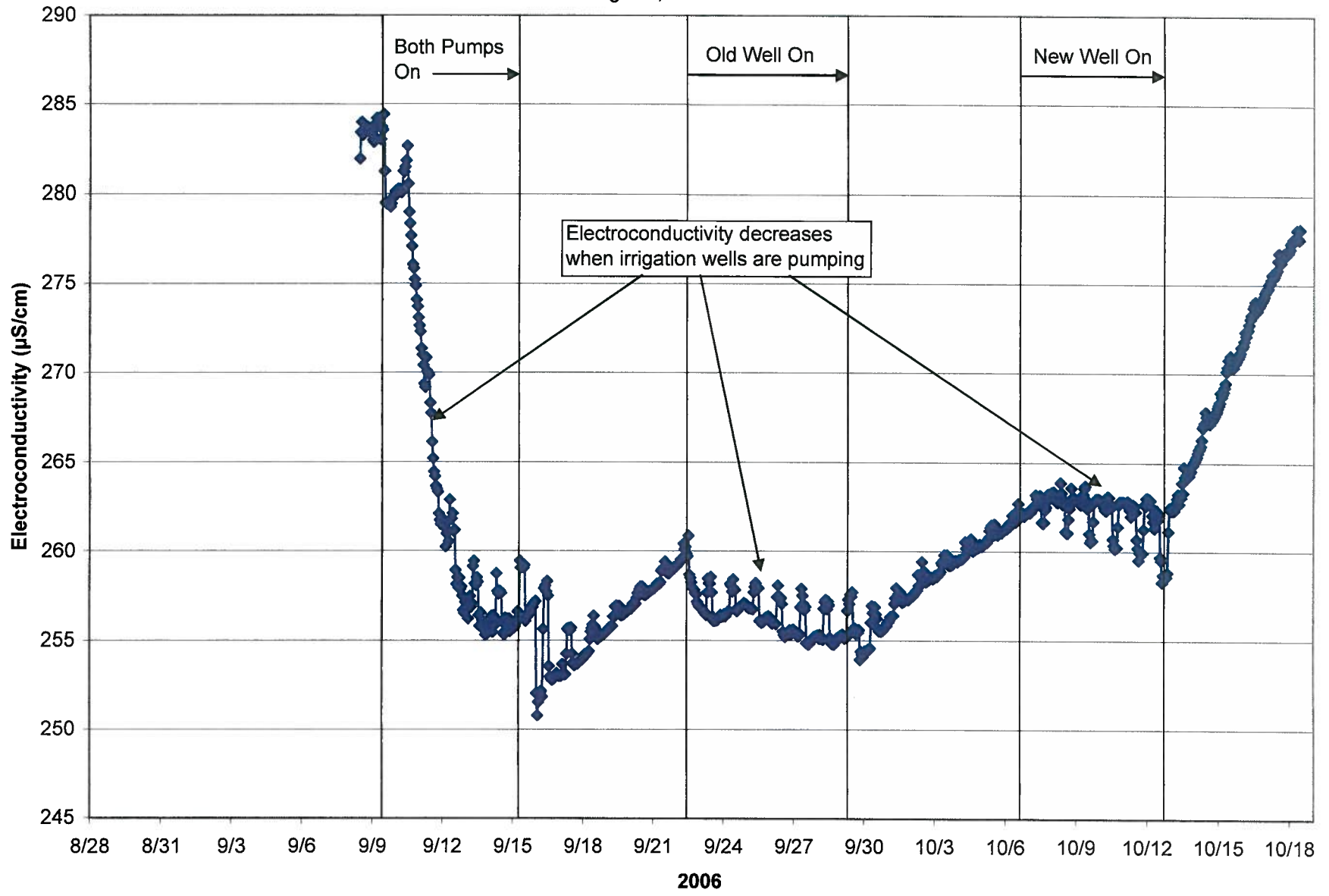


Figure 3-36
Lagoon Stilling Well River Elevation vs. Min and Max Daily Tide Elevation
 El Sur Ranch
 Big Sur, California

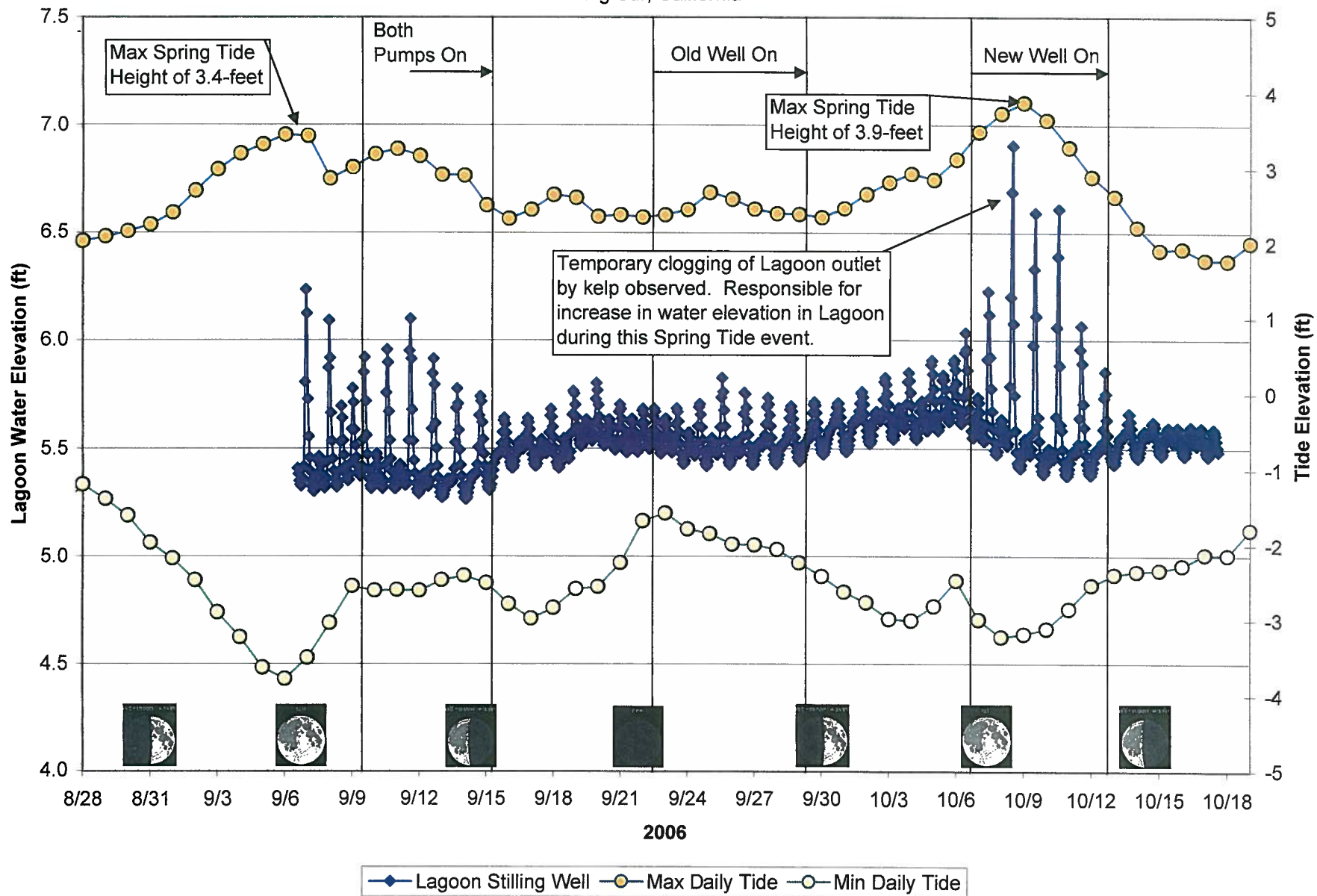
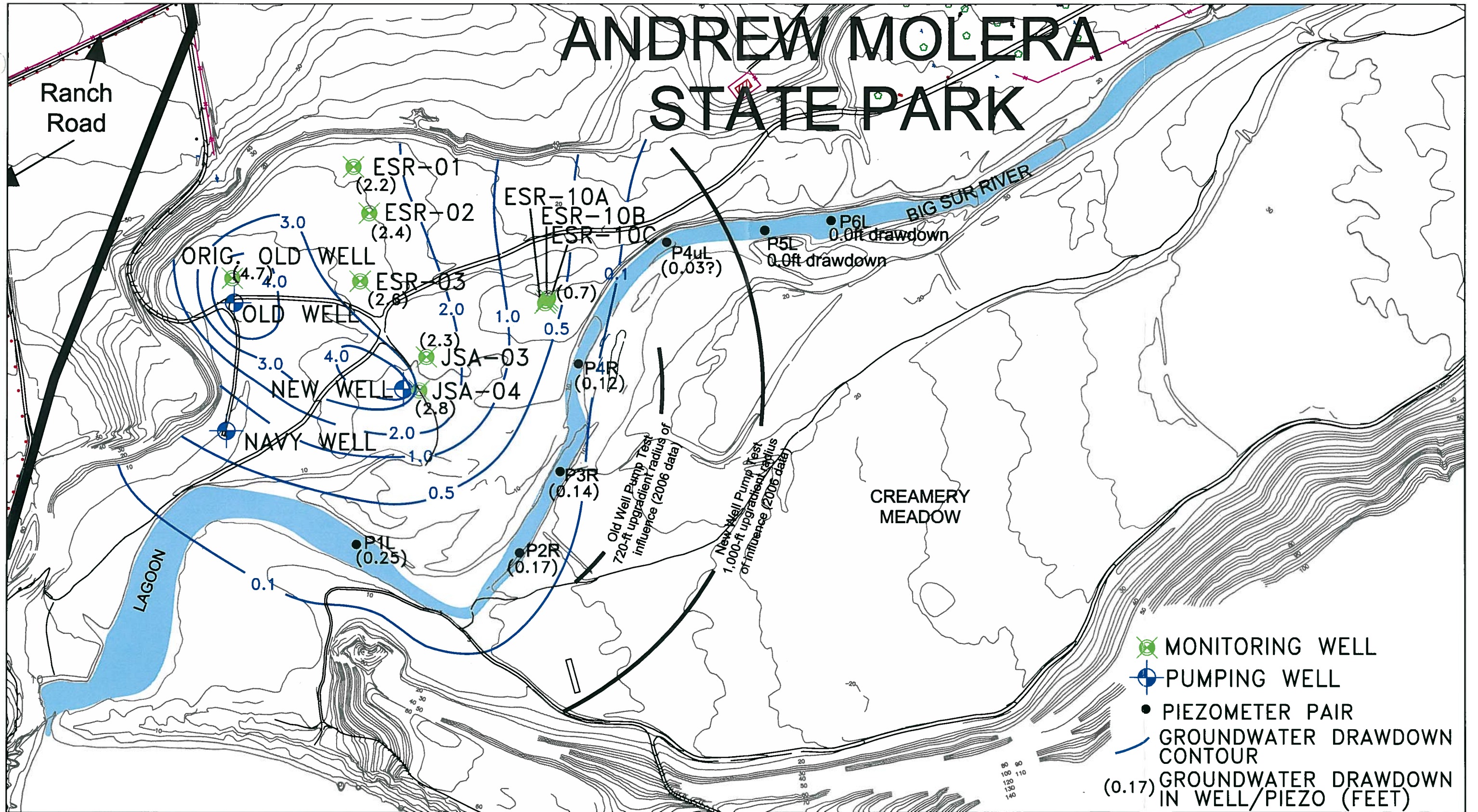


Table 3-4
Correlation Between Pumping Rate and Decrease in Groundwater Inflow to River,
Zone 1 Through Zone 4
 El Sur Ranch
 Big Sur, California

Wells Active	Total Pumping Rate (cfs)	Calculated Decrease in Groundwater Inflow (cfs)	Is There a Net Gain in River Flow?	Pumping to Groundwater Inflow Reduction Ratio (cfs per cfs)
Both	5.83	2.41	NO	0.41
New	2.91	1.62	YES	0.56
Old	2.43	0.74	YES	0.30
AVERAGE:				0.42

ANDREW MOLERA STATE PARK



- MONITORING WELL
- PUMPING WELL
- PIEZOMETER PAIR
- GROUNDWATER DRAWDOWN CONTOUR
- (0.17) GROUNDWATER DRAWDOWN IN WELL/PIEZO (FEET)



EL SUR RANCH
BIG SUR, CALIFORNIA



FIGURE 3-1

IRRIGATION WELL RADIUS OF INFLUENCE AND
CONCEPTUAL GROUNDWATER DRAWDOWN MAP
(2007 MAXIMUM PUMPING CONDITIONS DEPICTED)

PROJECT NO.

01-ESR-004

DATE

11/16/07

DR. BY

ML/jp

APP. BY

PH

Figure 3-3
Drawdown at P2RD
 El Sur Ranch
 Big Sur, California

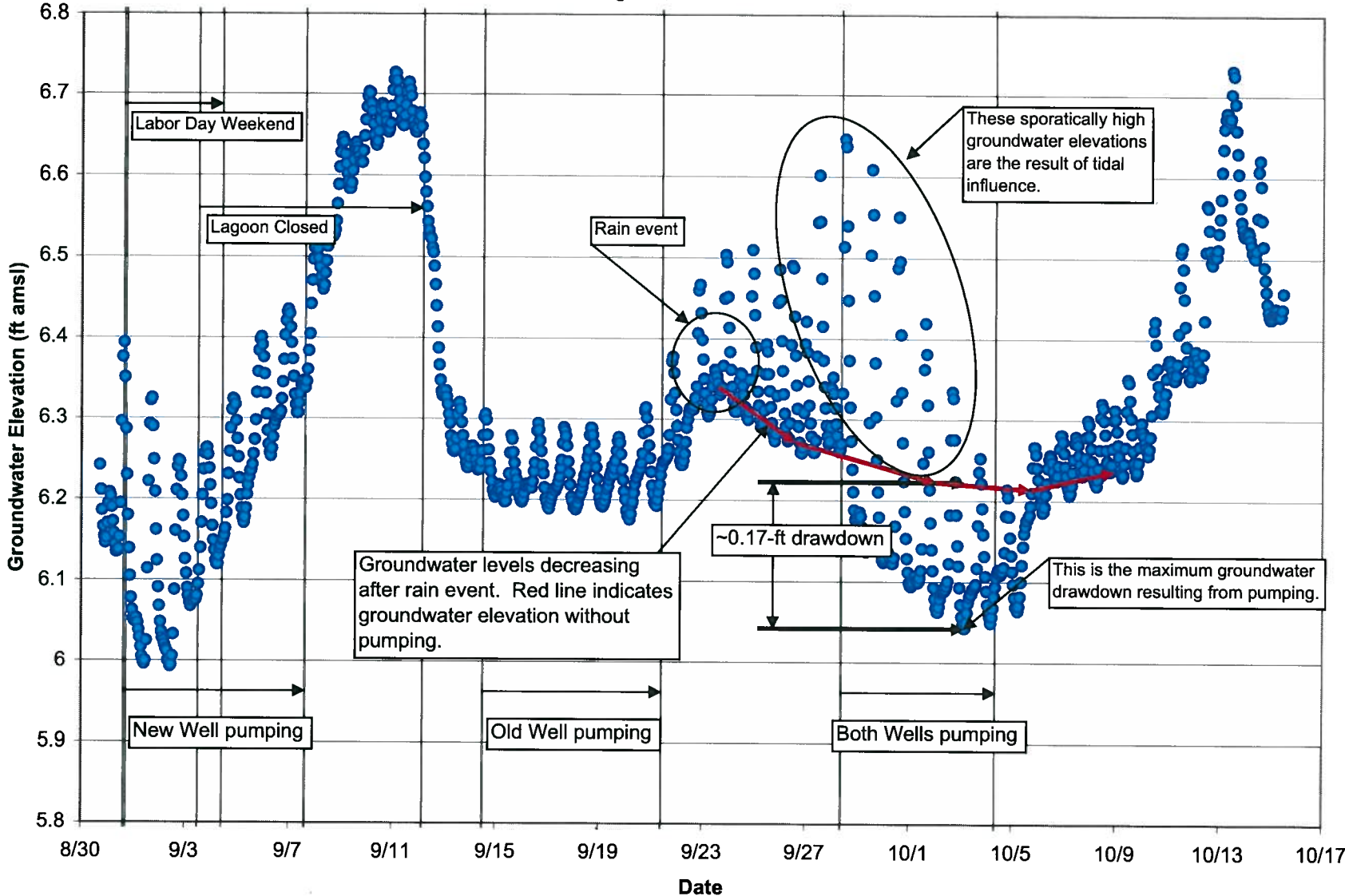


Figure 3-5
P6L and P5L Vertical Gradient Across Riverbed
 El Sur Ranch
 Big Sur, California

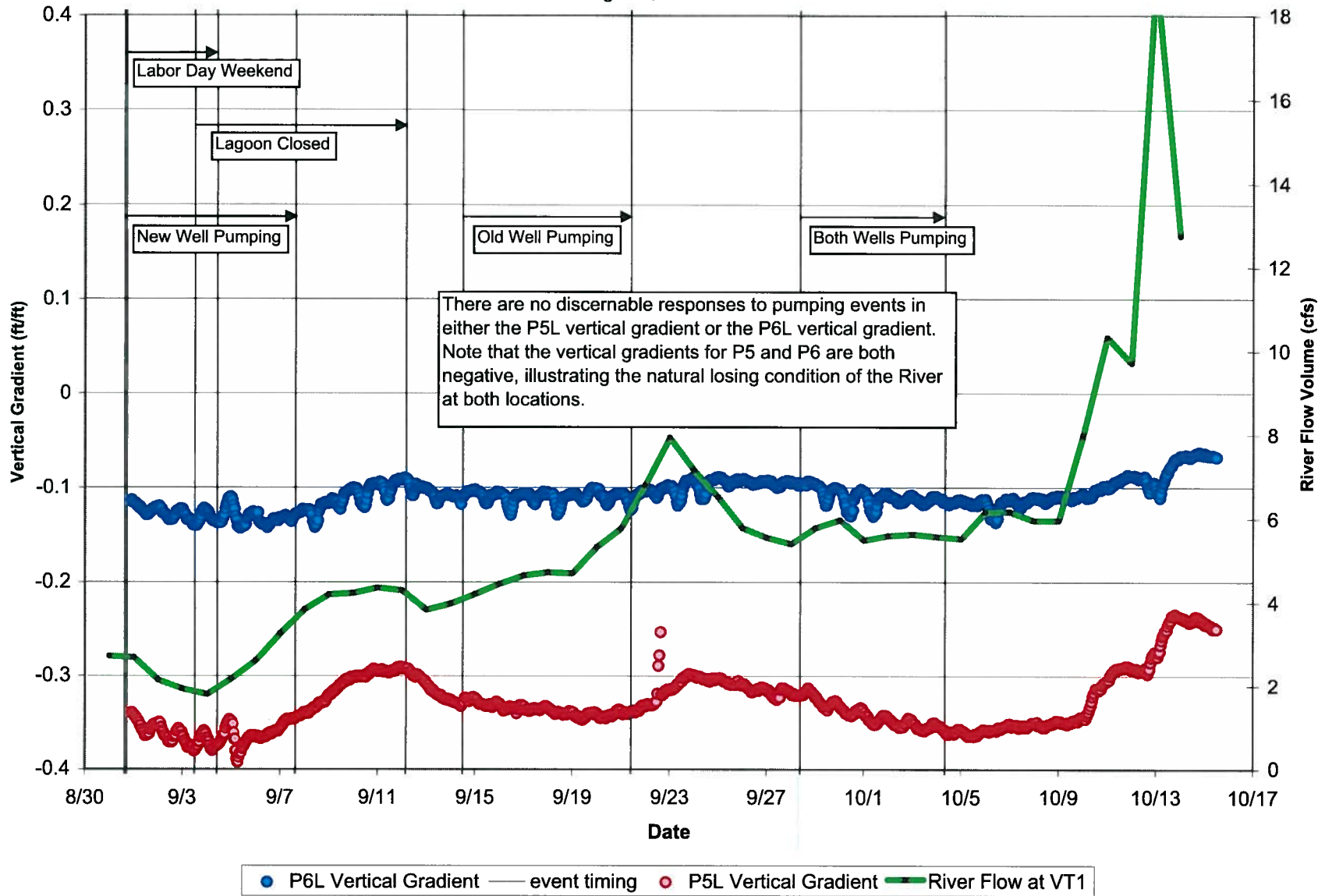


Figure 3-6
P4uL Vertical Gradient Across Riverbed
El Sur Ranch
Big Sur, California

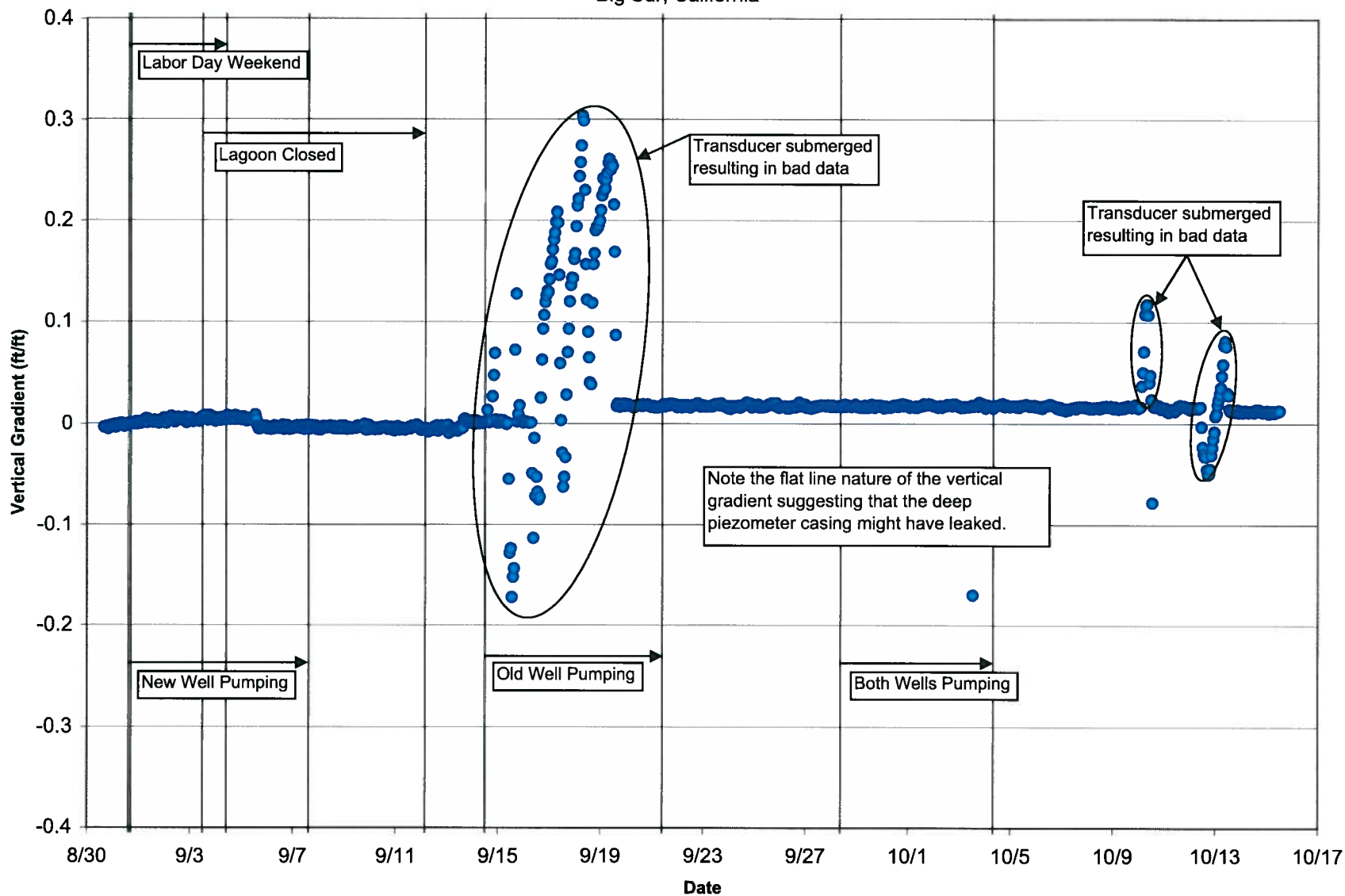


Figure 3-7
P4L (Left Bank) and P4R (Right Bank) Vertical Gradient Across Riverbed
 El Sur Ranch
 Big Sur, California

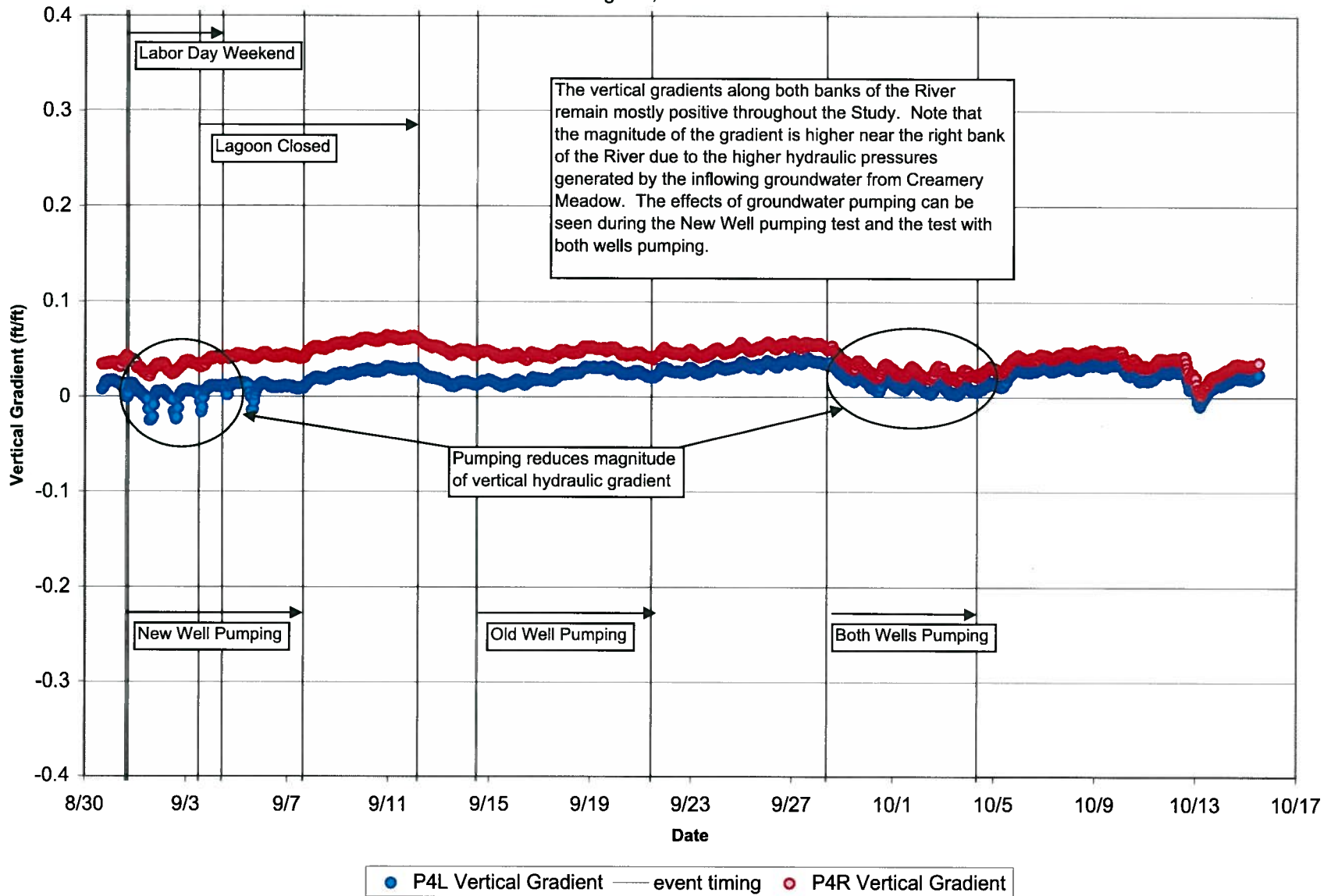


Figure 3-8
P3L (Left Bank) and P3R (Right Bank) Vertical Gradient Across Riverbed
 El Sur Ranch
 Big Sur, California

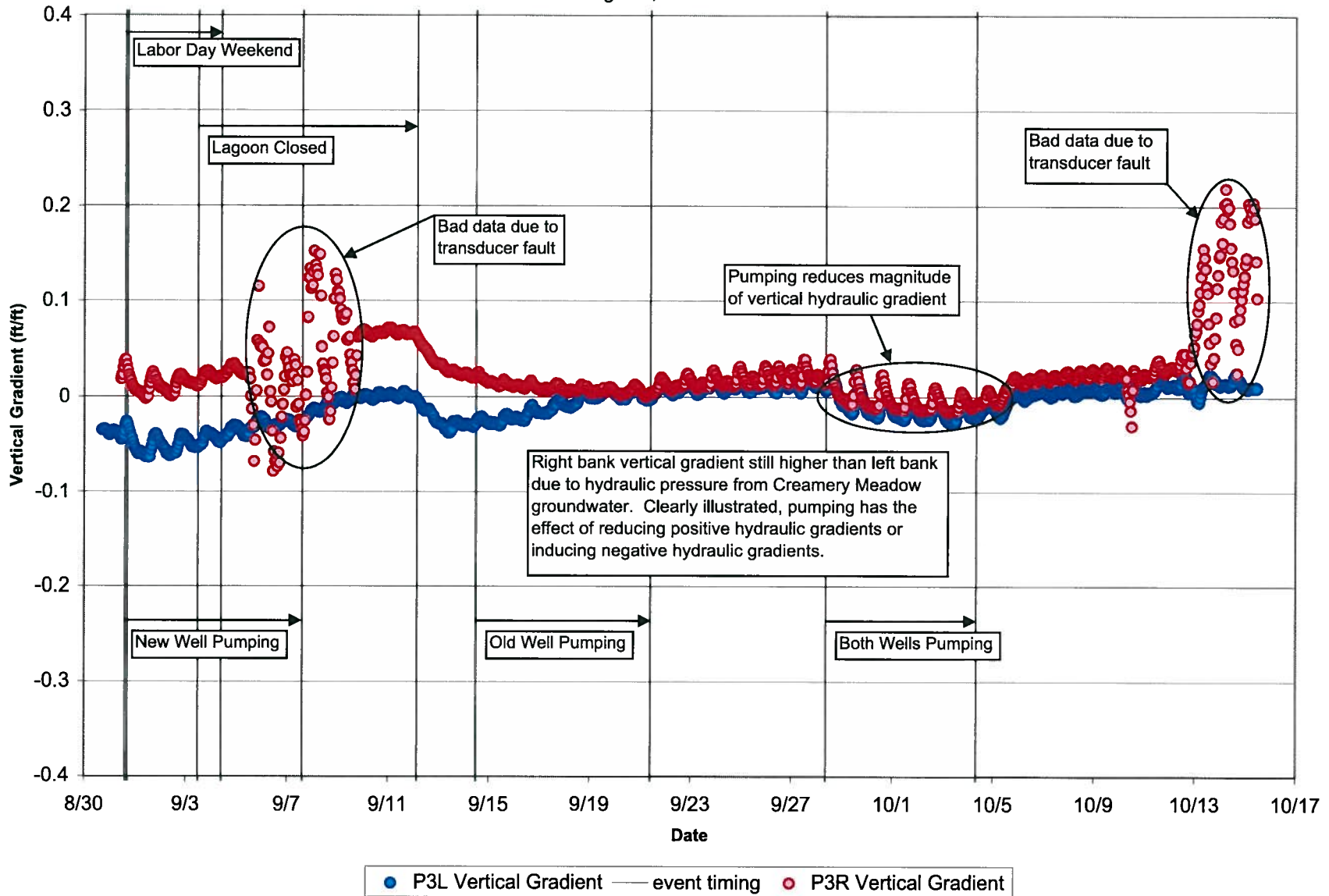


Figure 3-9
P2L (Left Bank) and P2R (Right Bank) Vertical Gradient Across Riverbed
 El Sur Ranch
 Big Sur, California

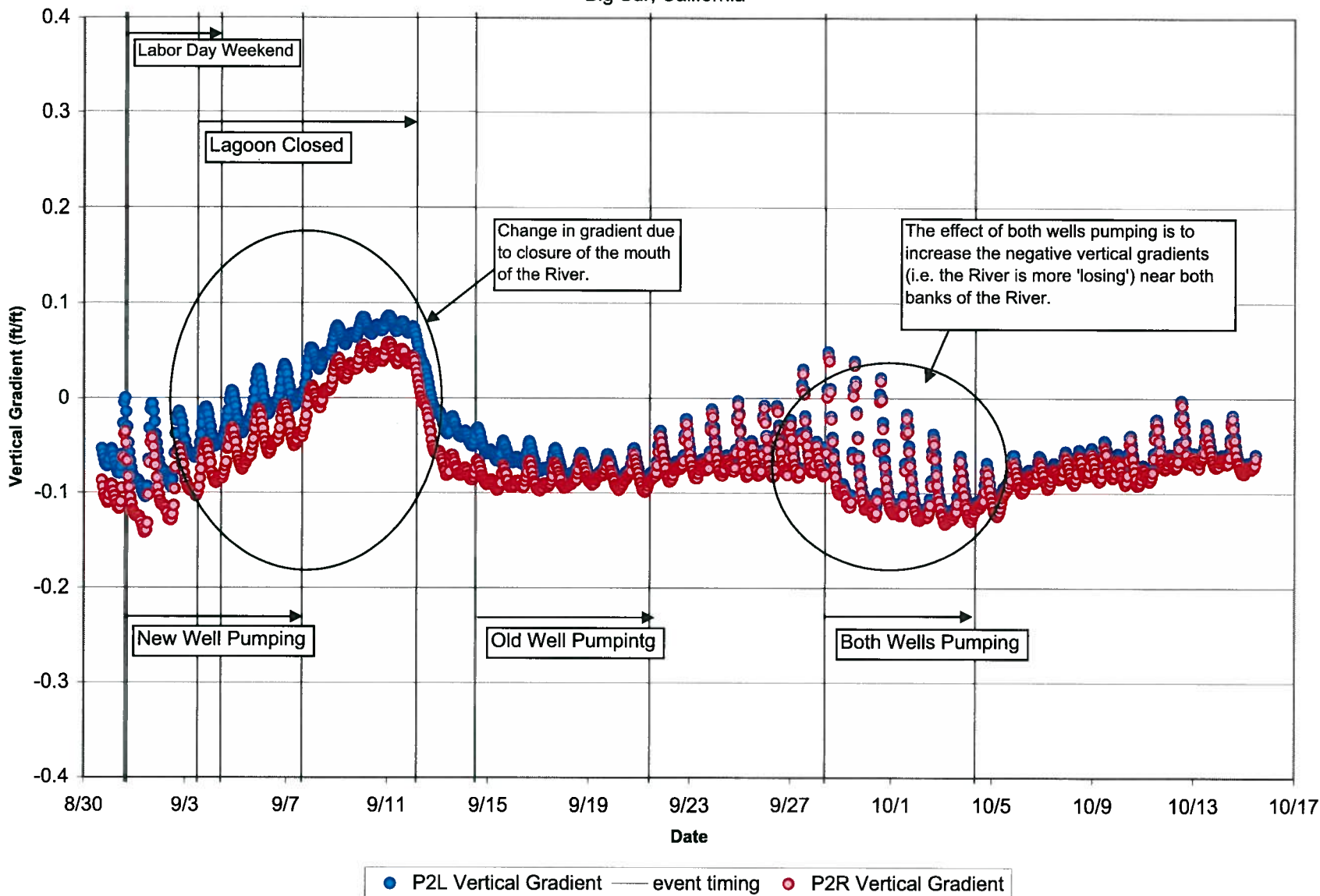


Figure 3-10
P1L Vertical Gradient Across Riverbed
 El Sur Ranch
 Big Sur, California

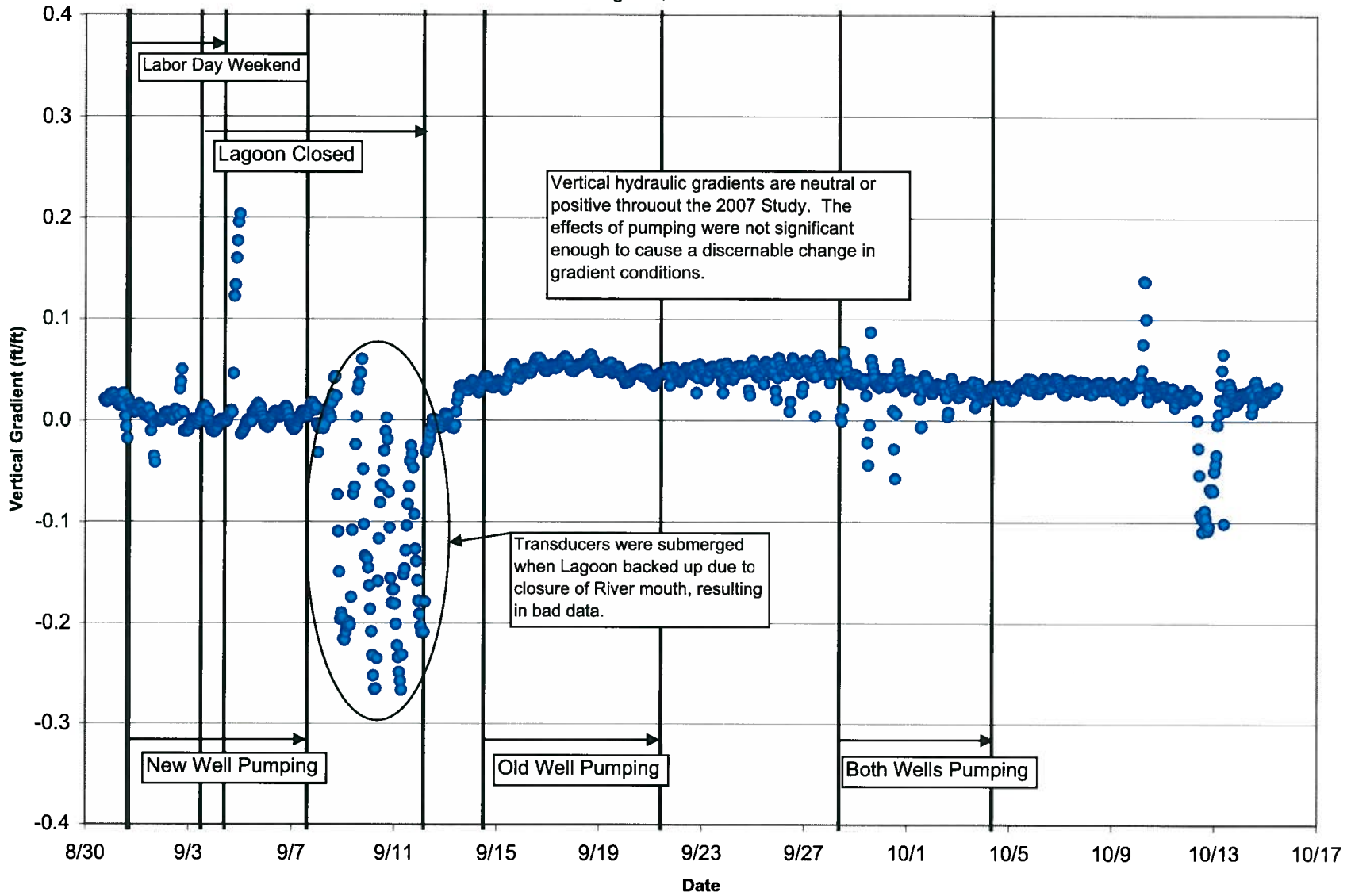


Figure 3-11
Average Daily Flow Volume at VT2 and VT3
 El Sur Ranch
 Big Sur, California

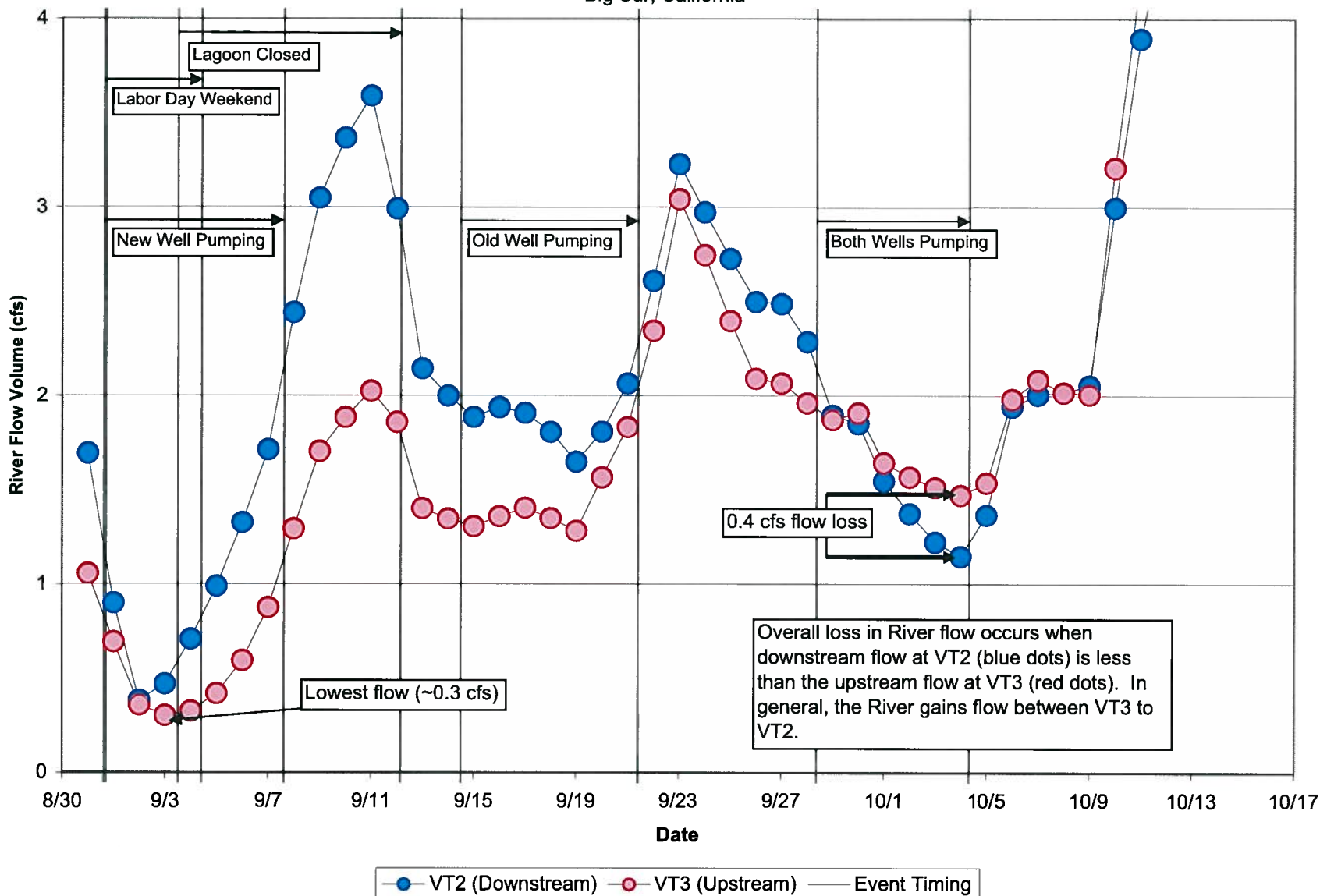


Figure 3-12
Change in Flow Between VT3 and VT2
 El Sur Ranch
 Big Sur, California

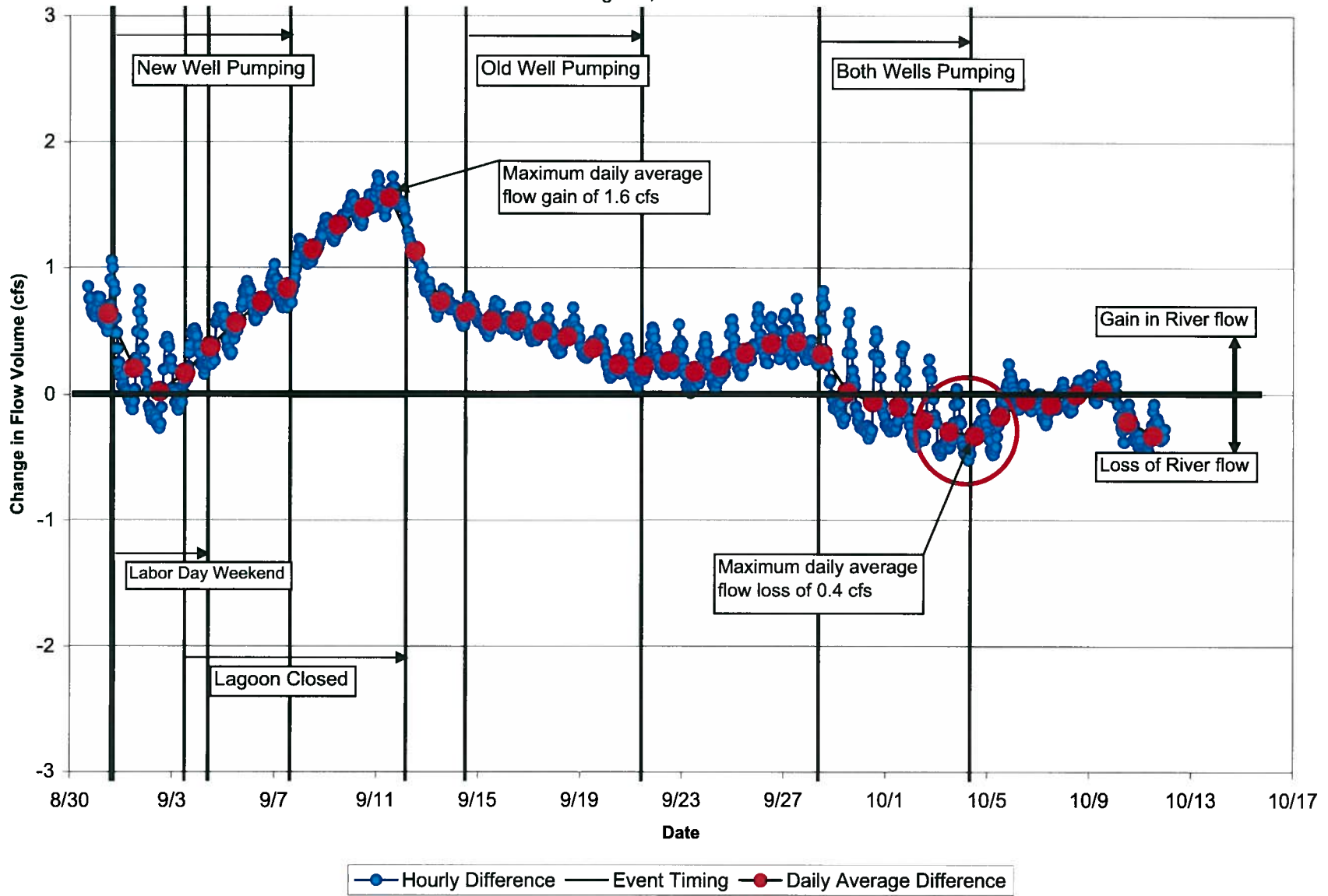


Figure 3-13
River Flow Gain Loss - Zone 4
 El Sur Ranch
 Big Sur, California

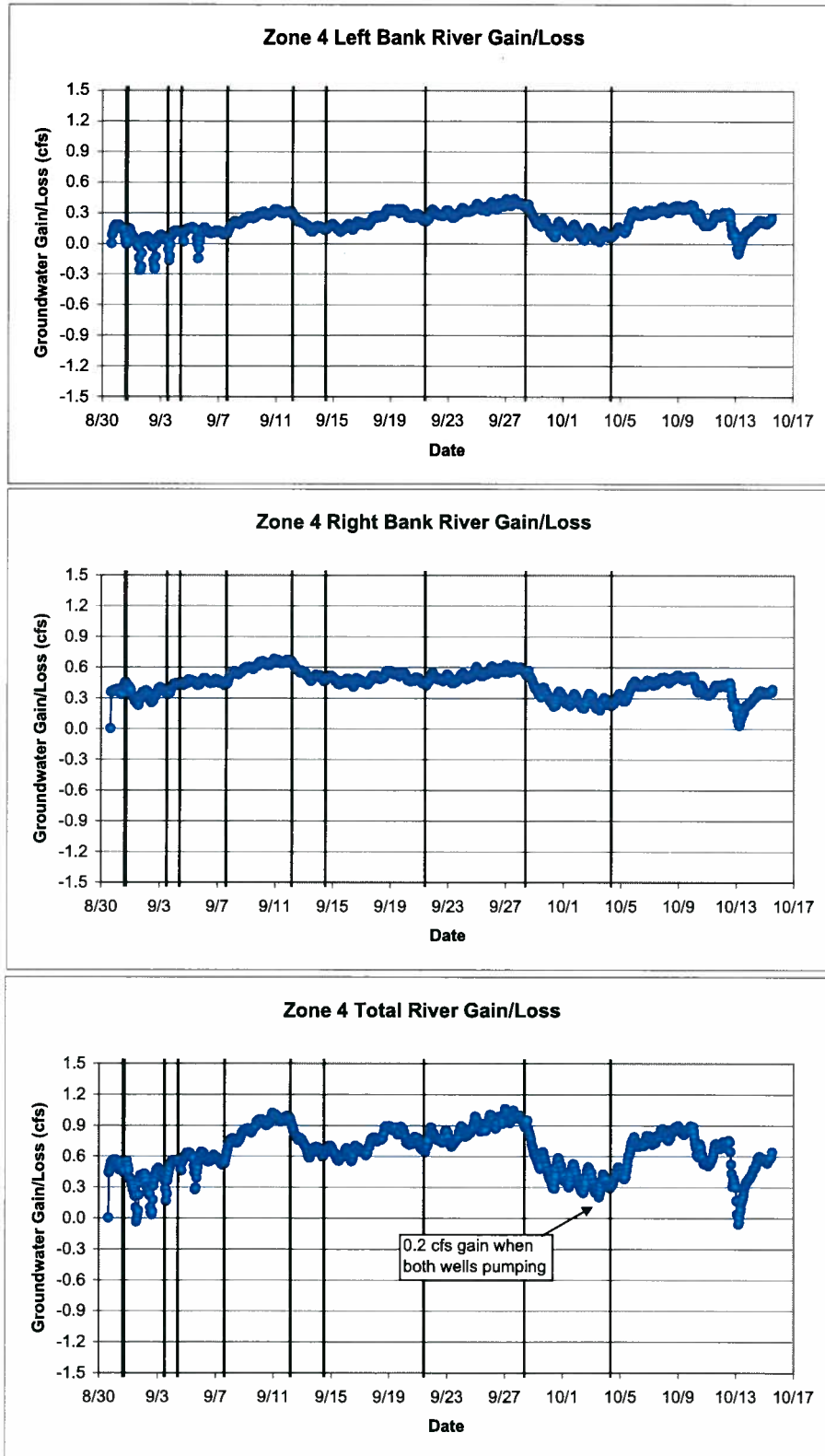


Figure 3-14
River Flow Gain Loss - Zone 3
 El Sur Ranch
 Big Sur, California

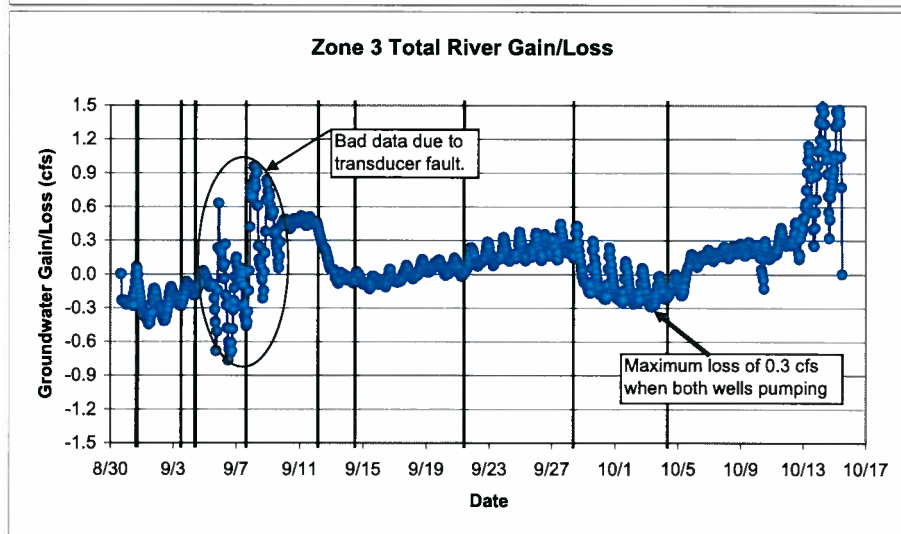
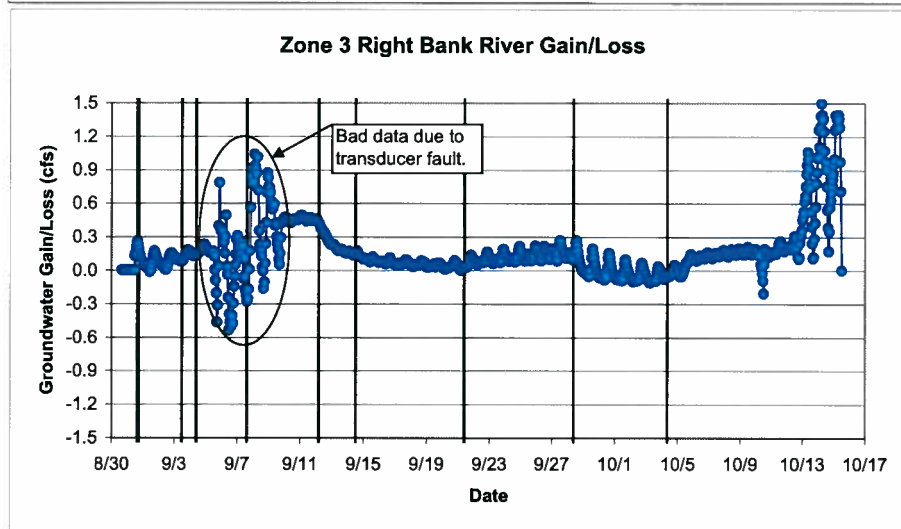
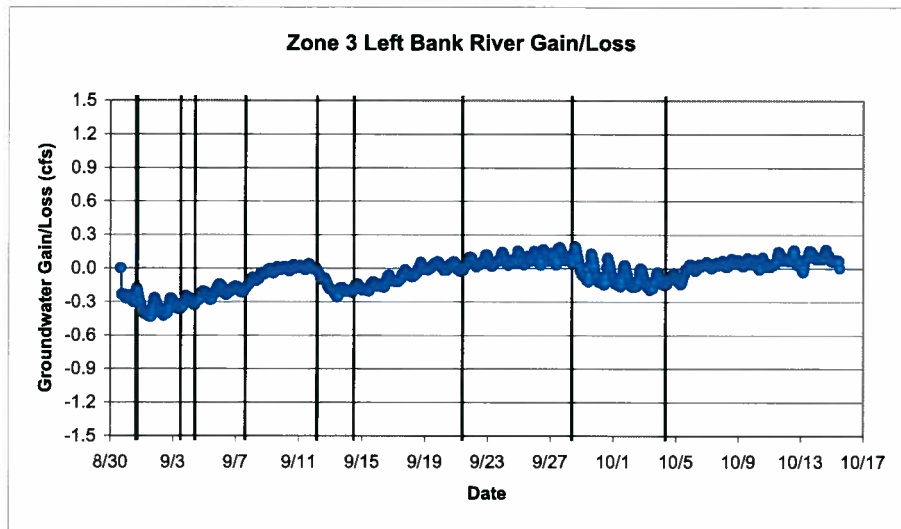
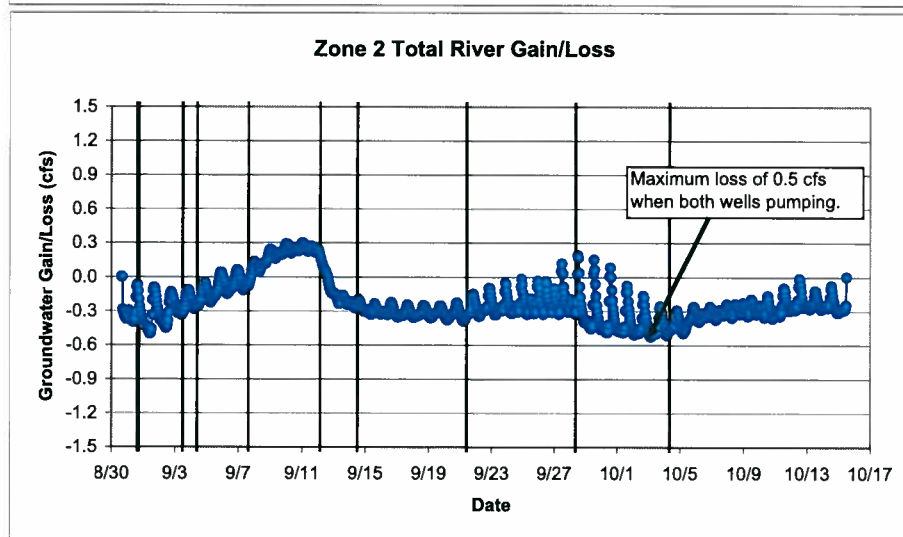
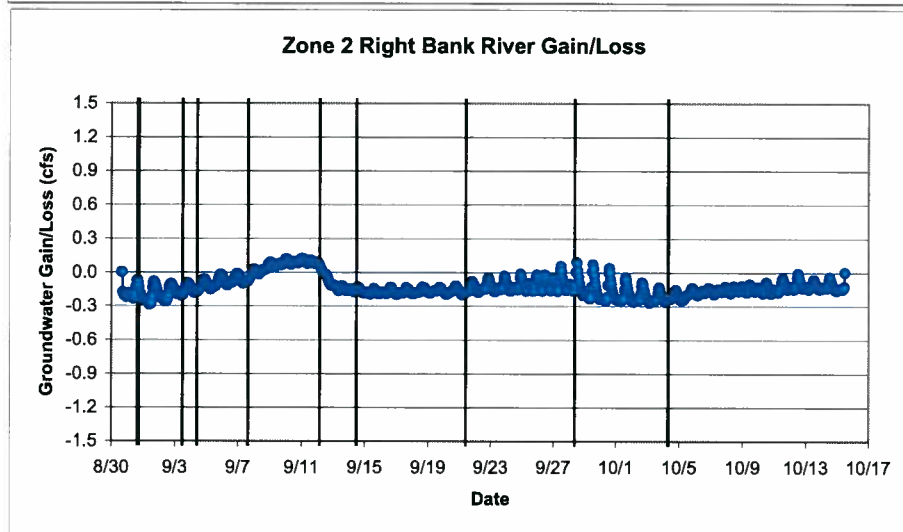
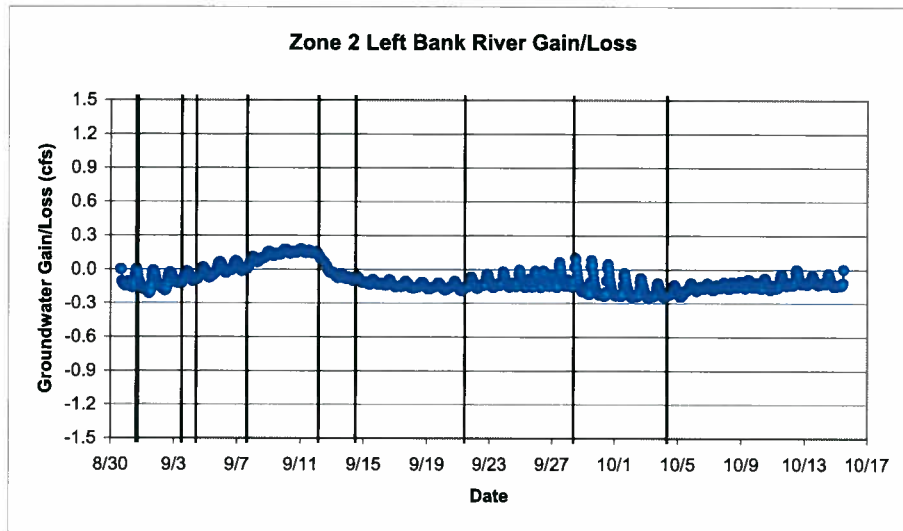
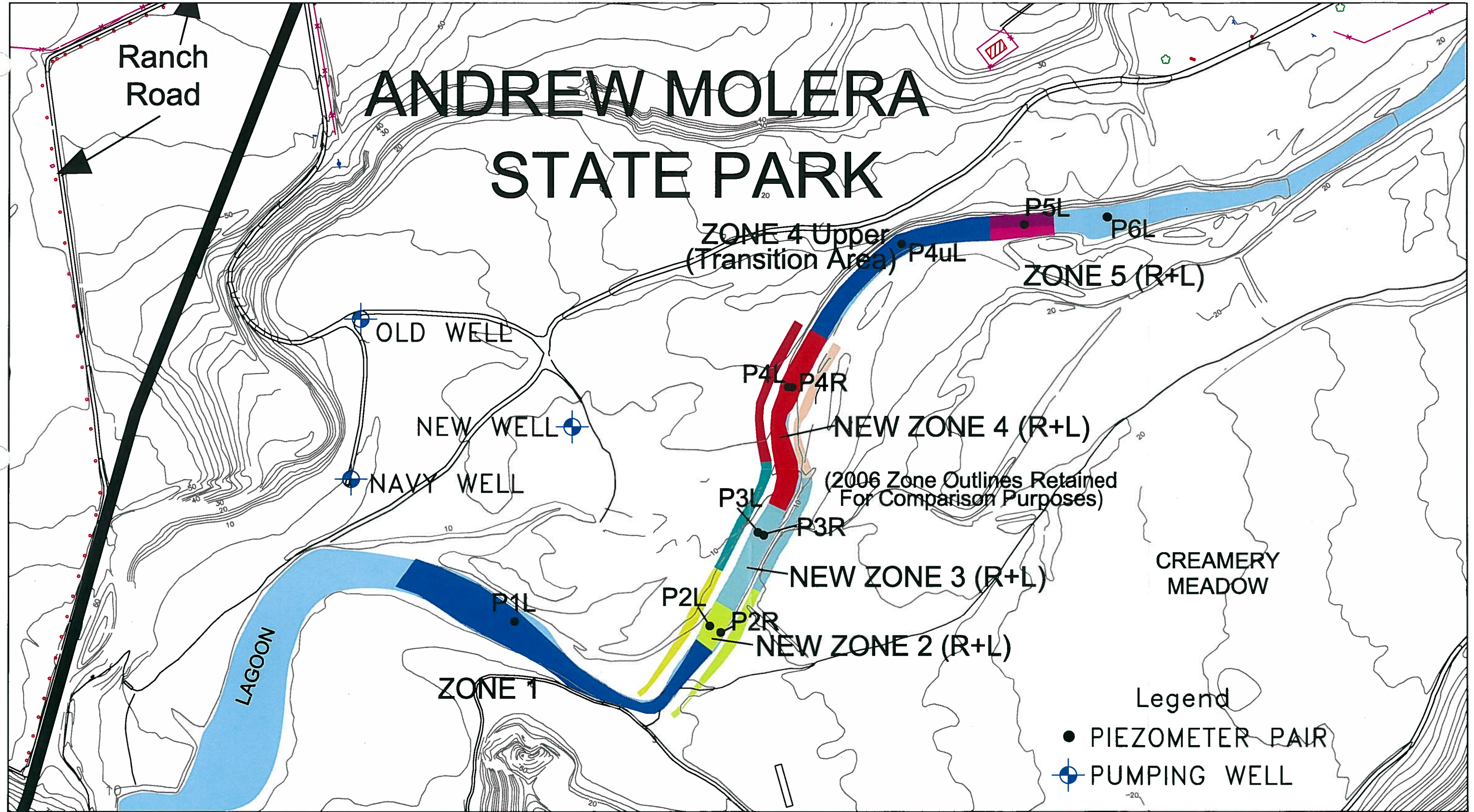


Figure 3-15
River Flow Gain Loss - Zone 2
 El Sur Ranch
 Big Sur, California





EL SUR RANCH
BIG SUR, CALIFORNIA



FIGURE 3-16

2007 INTERPRETED STREAMBED ZONES

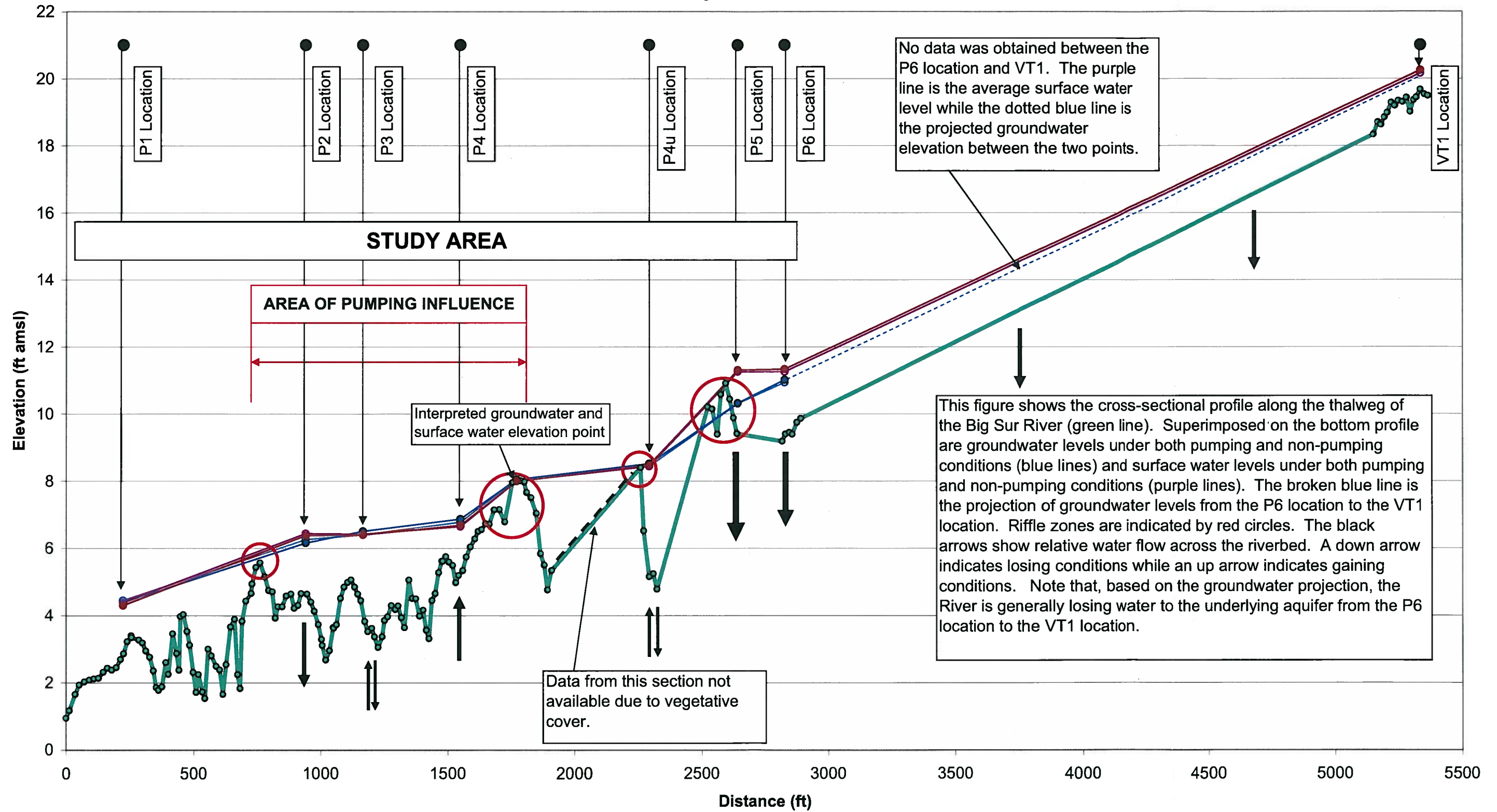
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ML/jp

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PH

Figure 3-18
 Longitudinal Profile
 El Sur Ranch
 Big Sur, California



—●— Riverbottom Profile
 ● Data Collection Points
 —●— Prepumping GW
 —●— Both Pumping GW
 —●— Prepumping River
 —●— Both Pumping River

Figure 3-20
Groundwater Temperature Measured at Monitoring Well ESR-1
El Sur Ranch
Big Sur, California

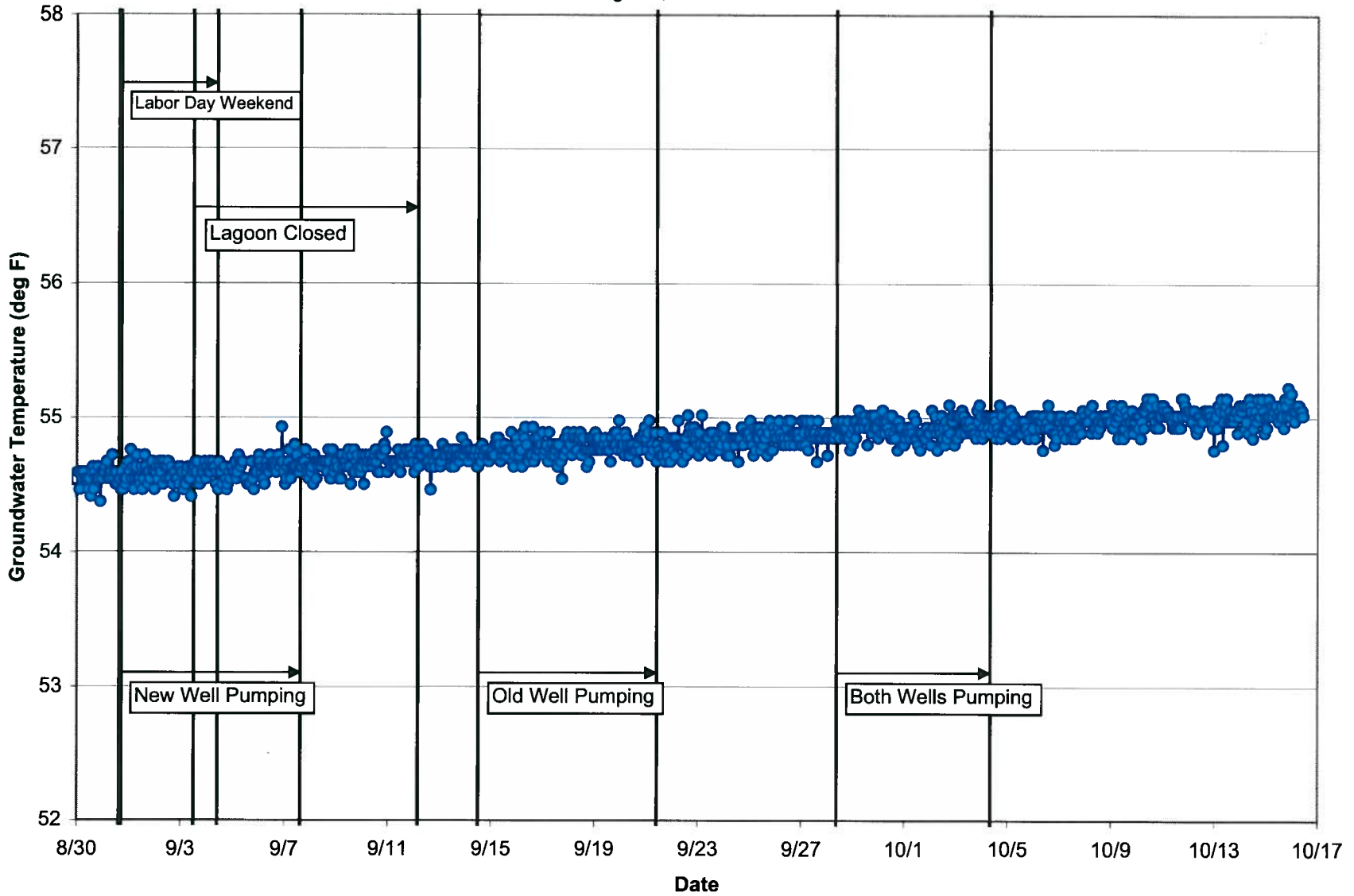


Figure 3-21
Average Daily River Water Temperature Comparison Between Locations P5, P6 and VT1
 El Sur Ranch
 Big Sur, California

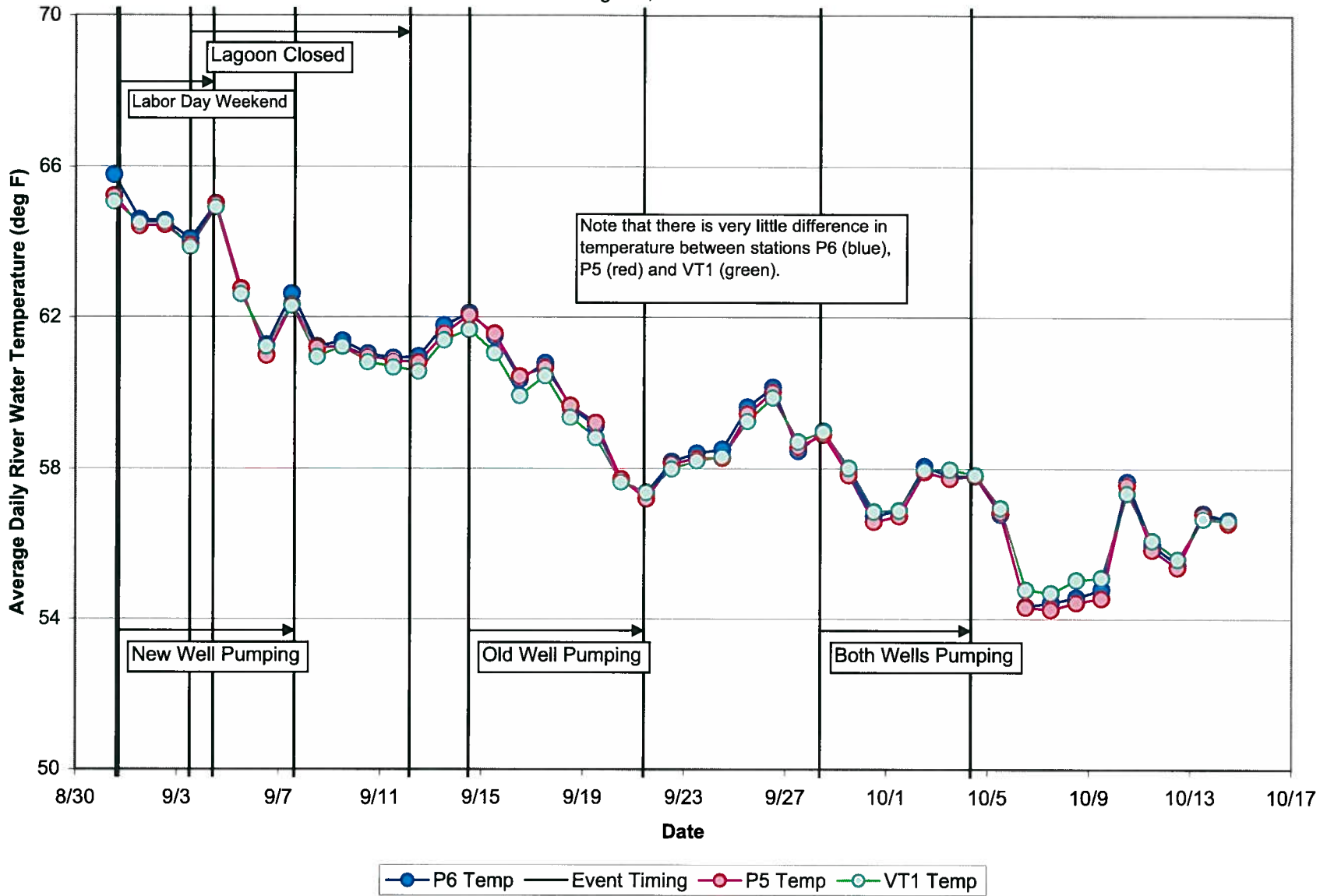


Figure 3-22
Average Daily River Water Temperature Measured at P4u
 El Sur Ranch
 Big Sur, California

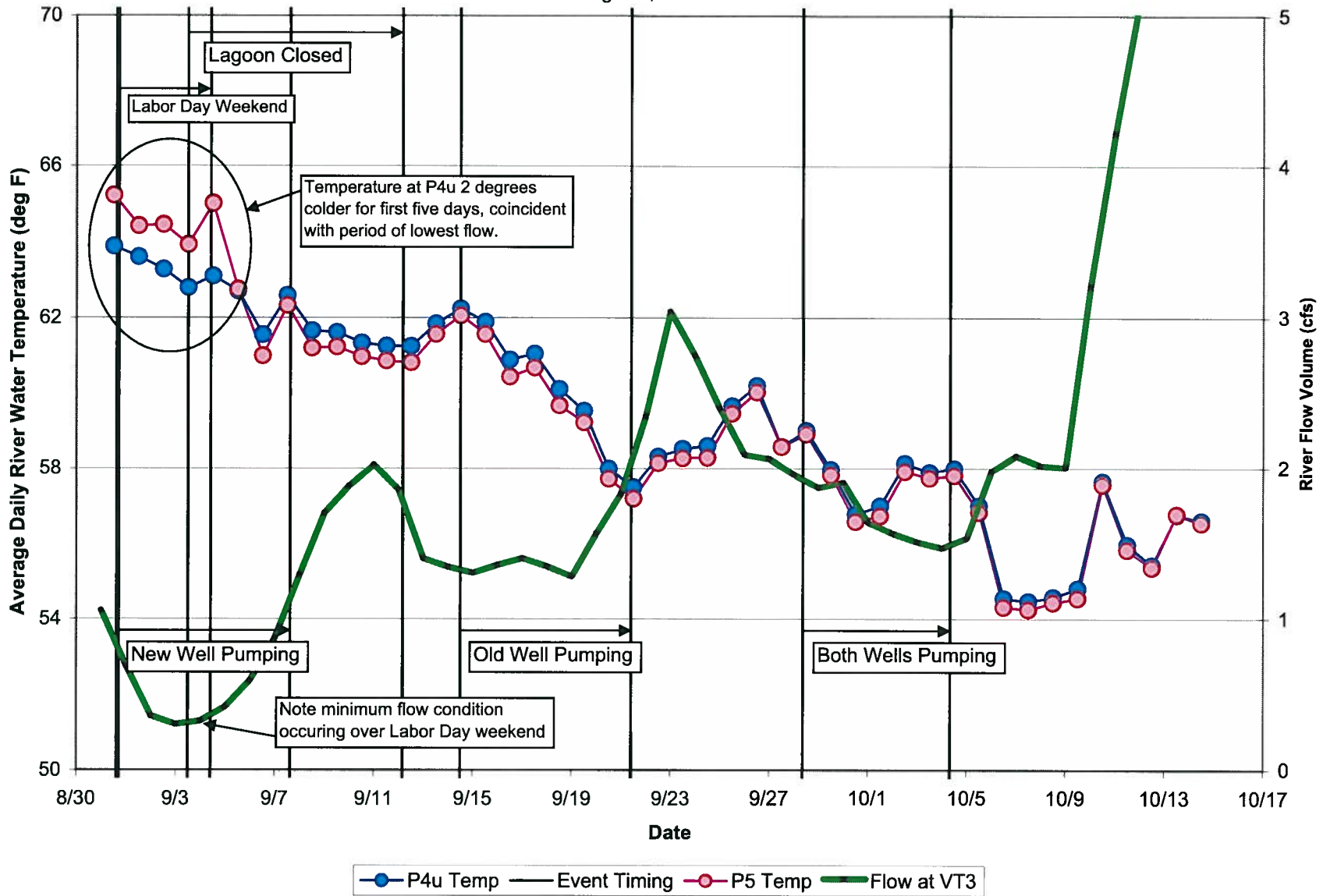


Figure 3-23
Average Daily River Water Temperature Measured at P4
 El Sur Ranch
 Big Sur, California

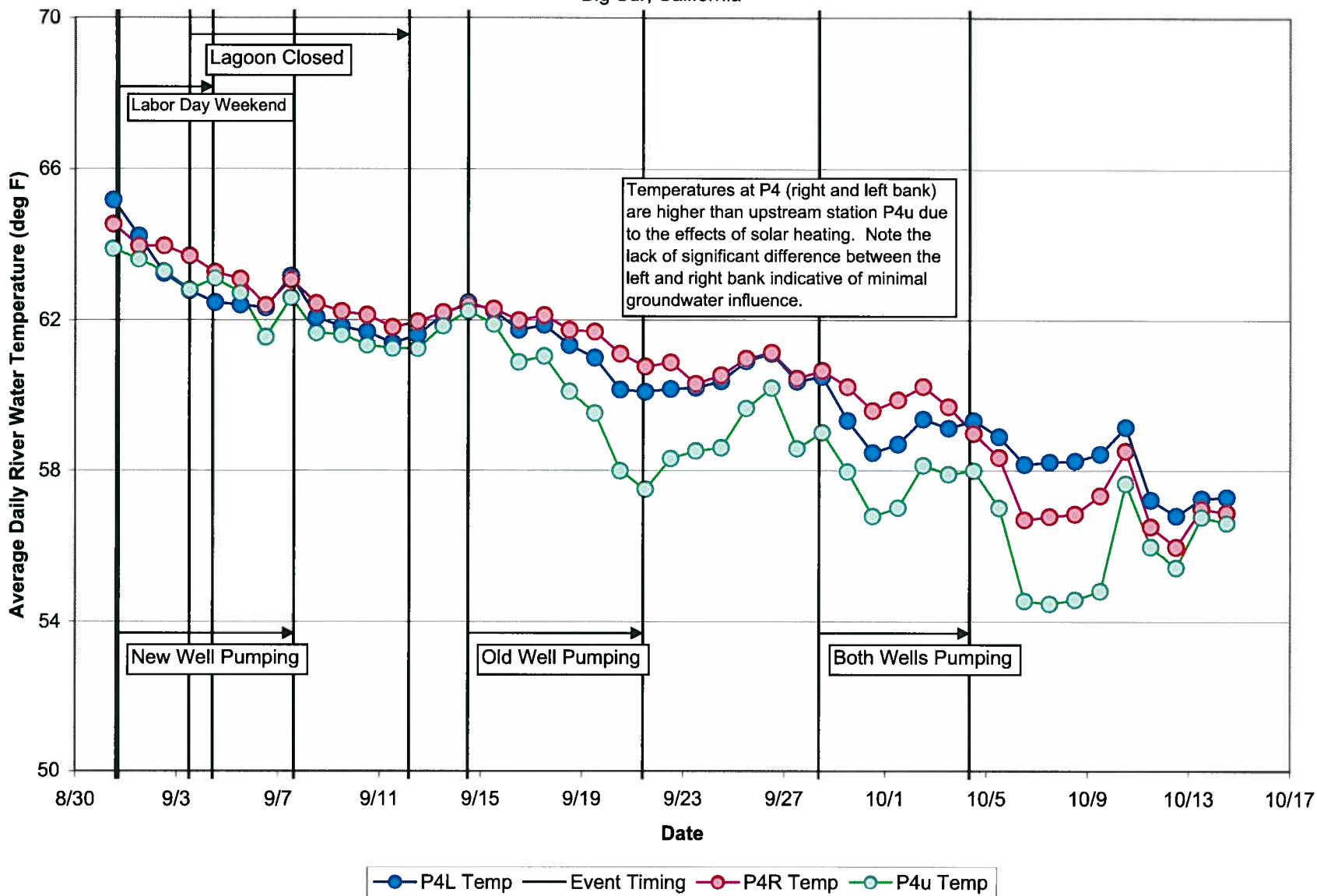


Figure 3-24
Average Daily River Water Temperature Measured at P3
 El Sur Ranch
 Big Sur, California

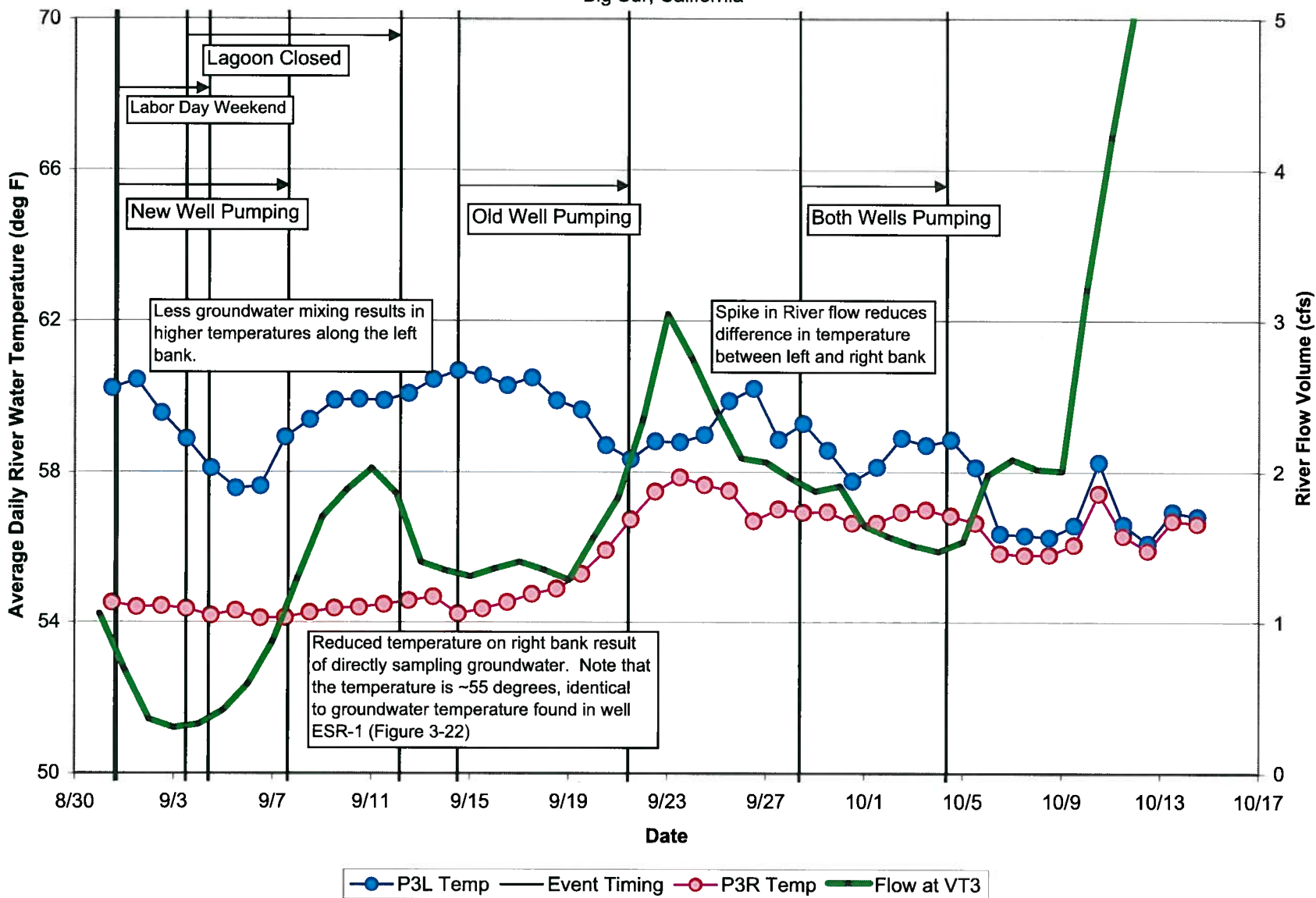


Figure 3-25
Average Daily River Water Temperature Measured at P2
 El Sur Ranch
 Big Sur, California

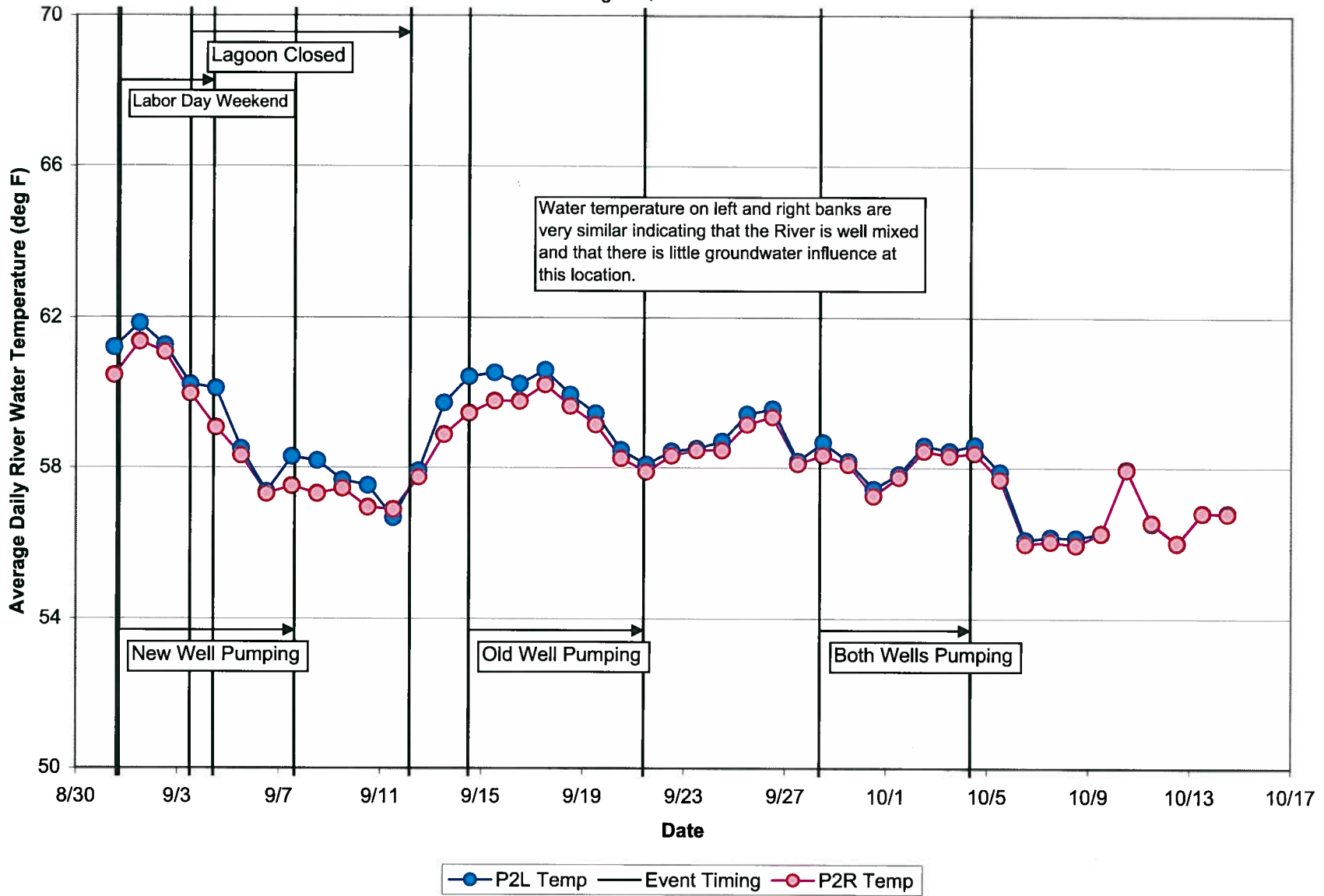


Figure 3-26
Average Daily River Water Temperature Measured at P1 (Lagoon)
 El Sur Ranch
 Big Sur, California

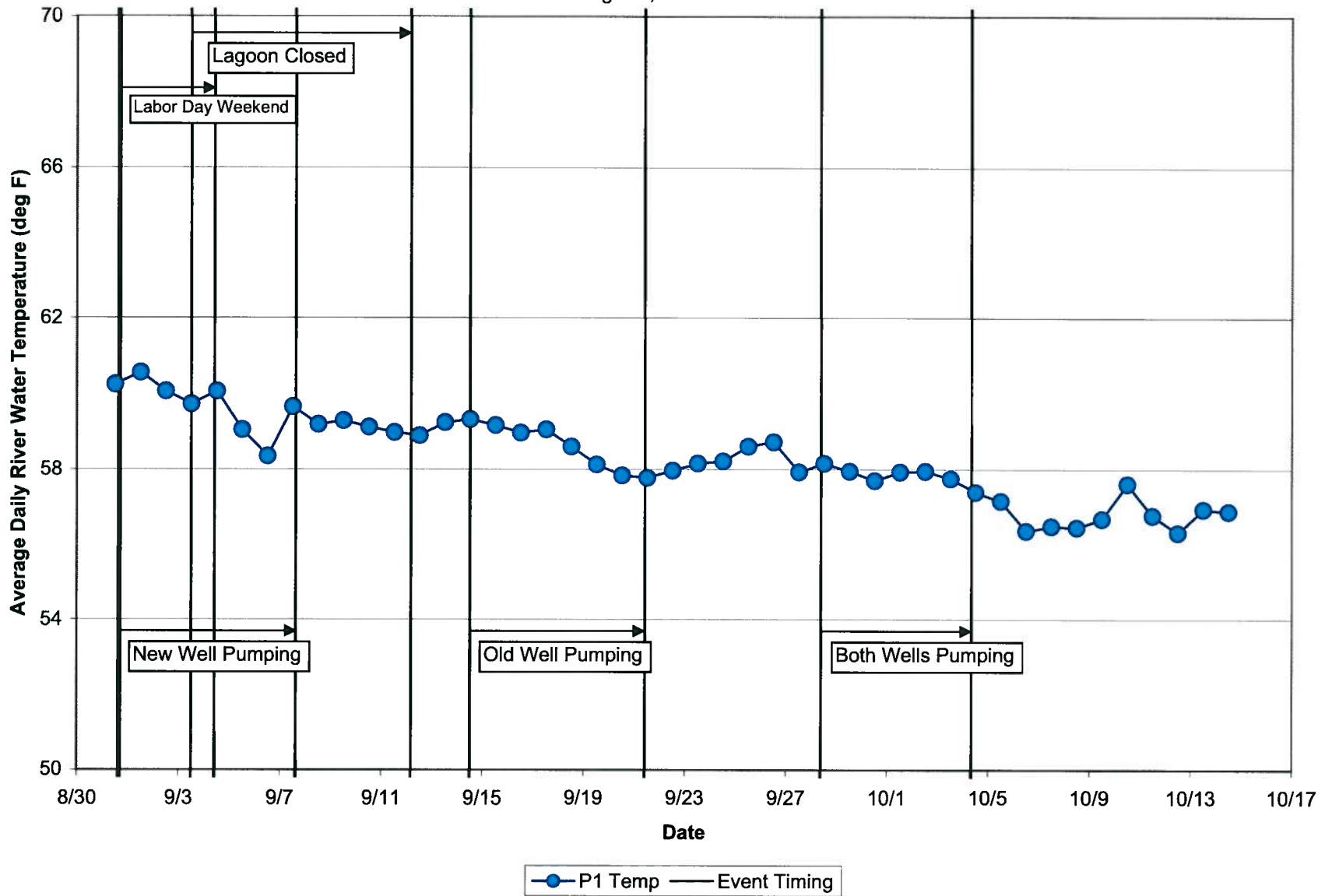


Figure 3-27
Daily Average Dissolved Oxygen Content in River Water at P5
 El Sur Ranch
 Big Sur, California

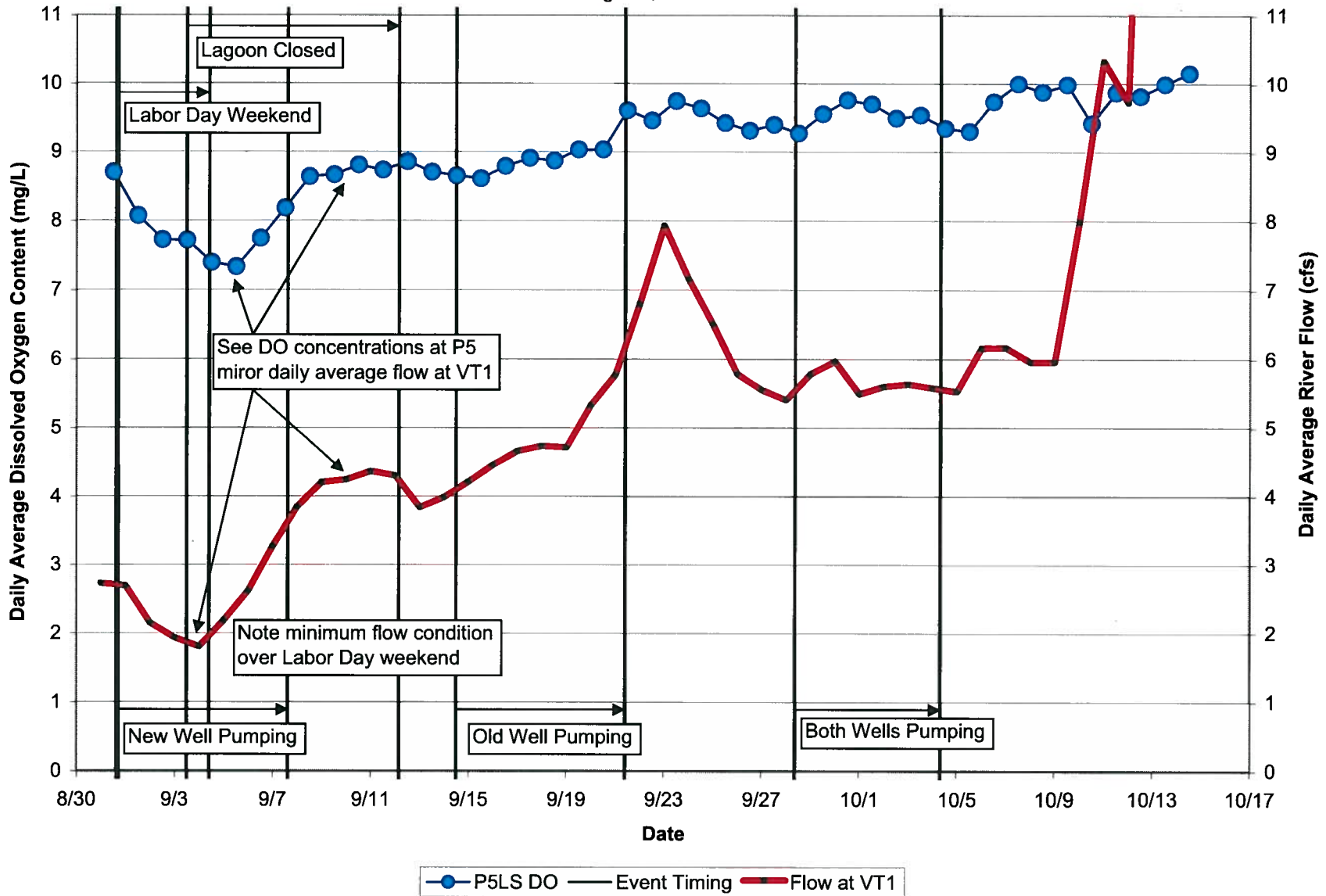


Figure 3-28
Daily Average Dissolved Oxygen Content in River Water at P4u
 El Sur Ranch
 Big Sur, California

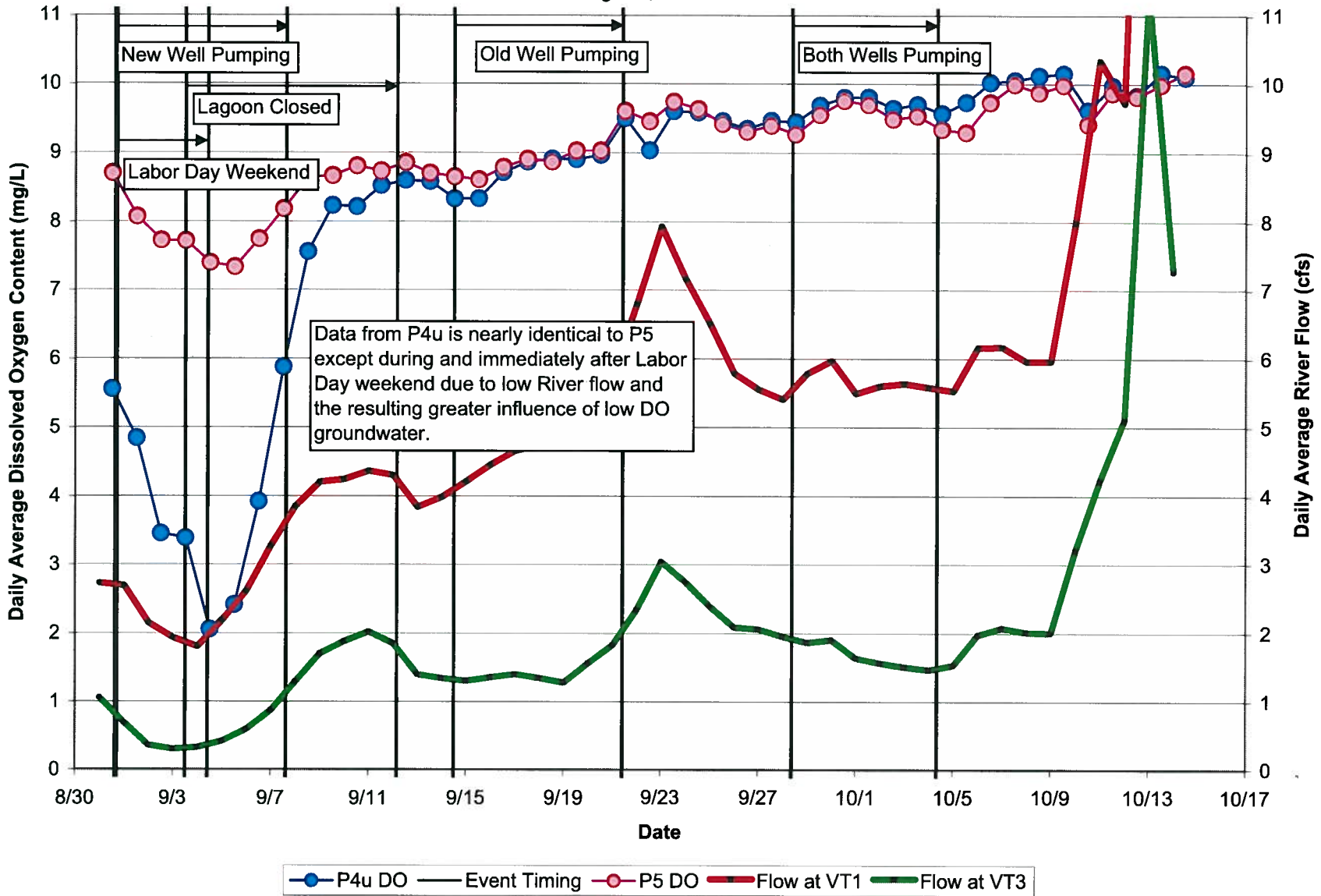


Figure 3-29
Daily Average Dissolved Oxygen Content in River Water at P4
 El Sur Ranch
 Big Sur, California

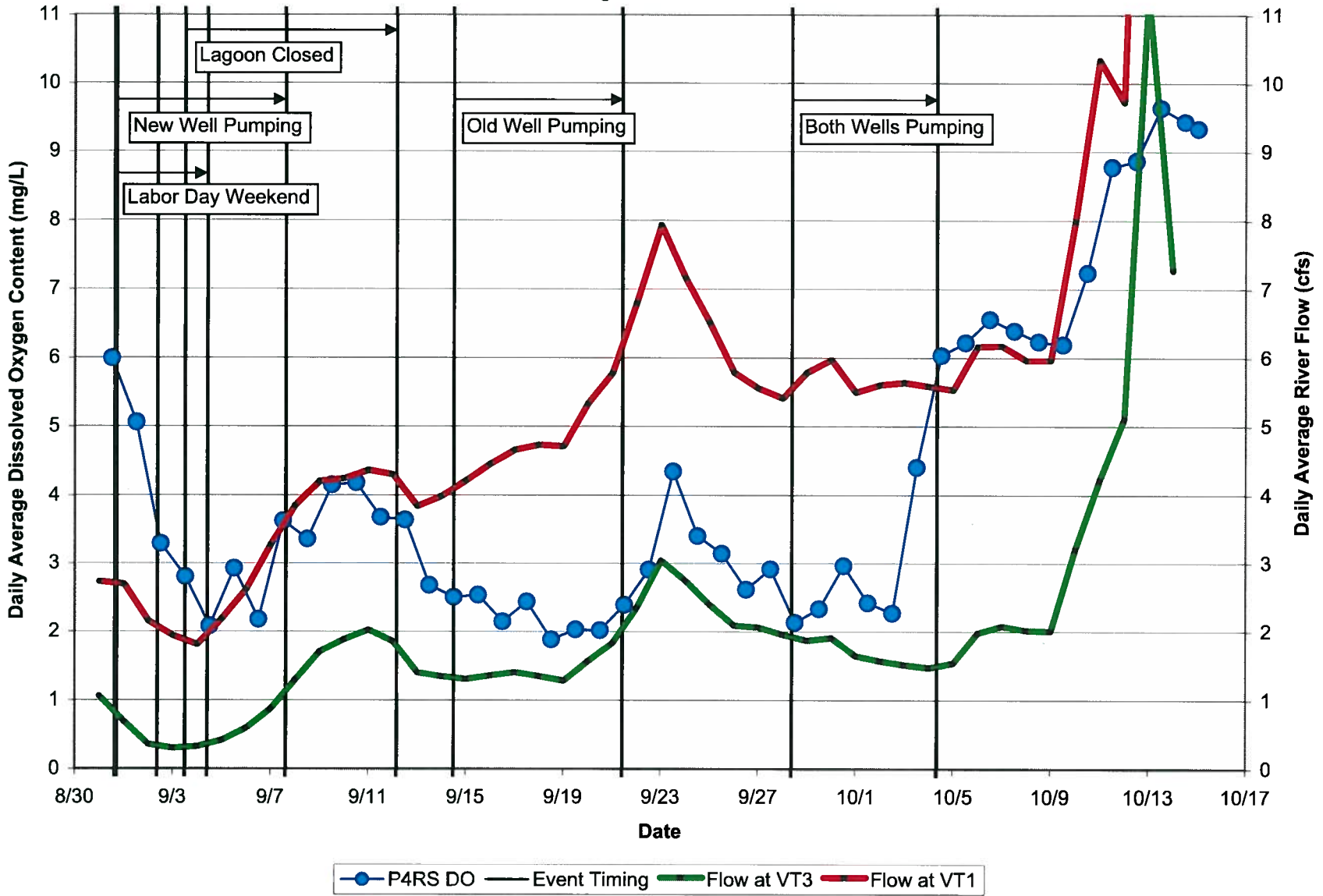


Figure 3-30
Daily Dissolved Oxygen Content in River Water at P3
 El Sur Ranch
 Big Sur, California

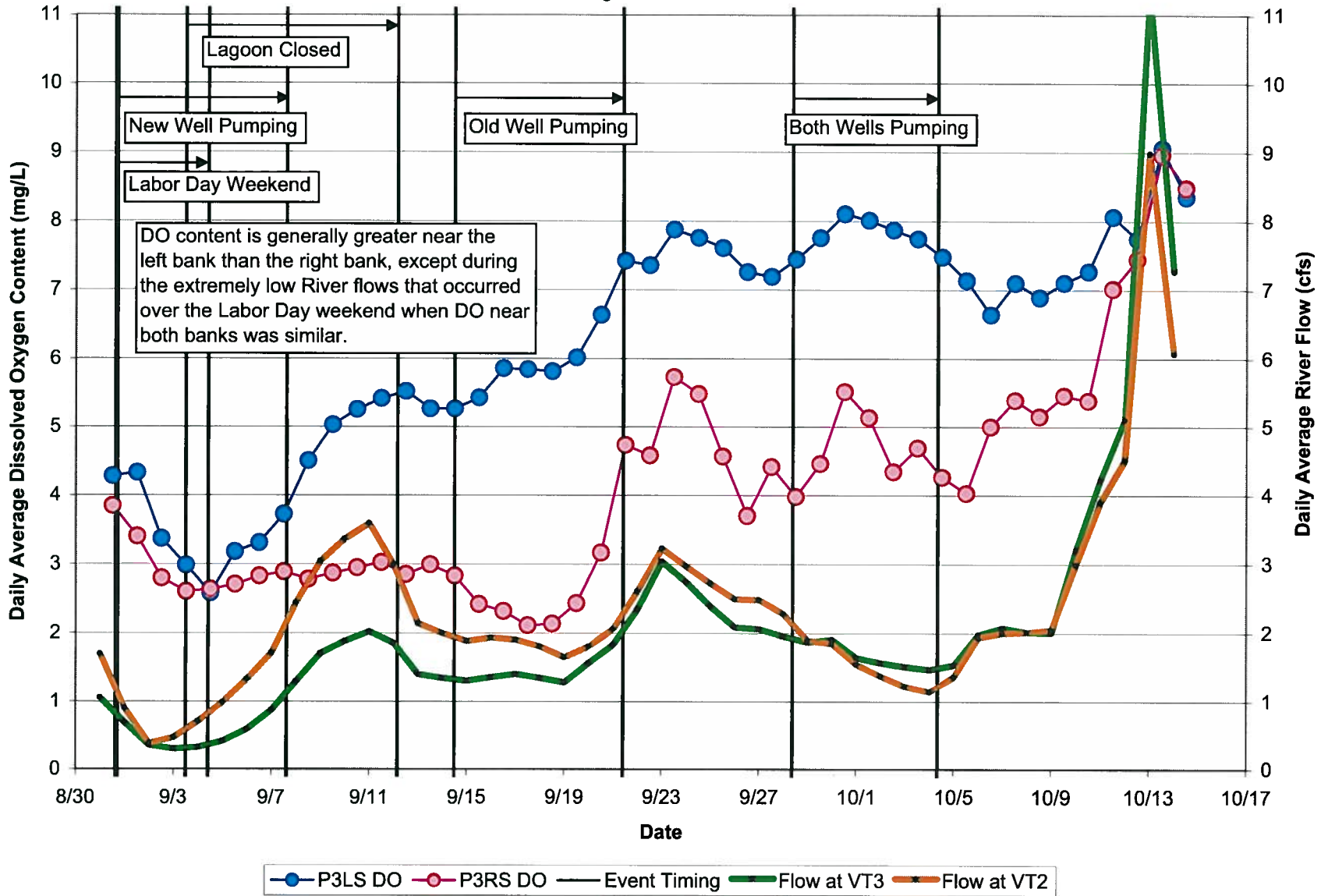


Figure 3-31
Daily Average Dissolved Oxygen Content in River Water at P2
 El Sur Ranch
 Big Sur, California

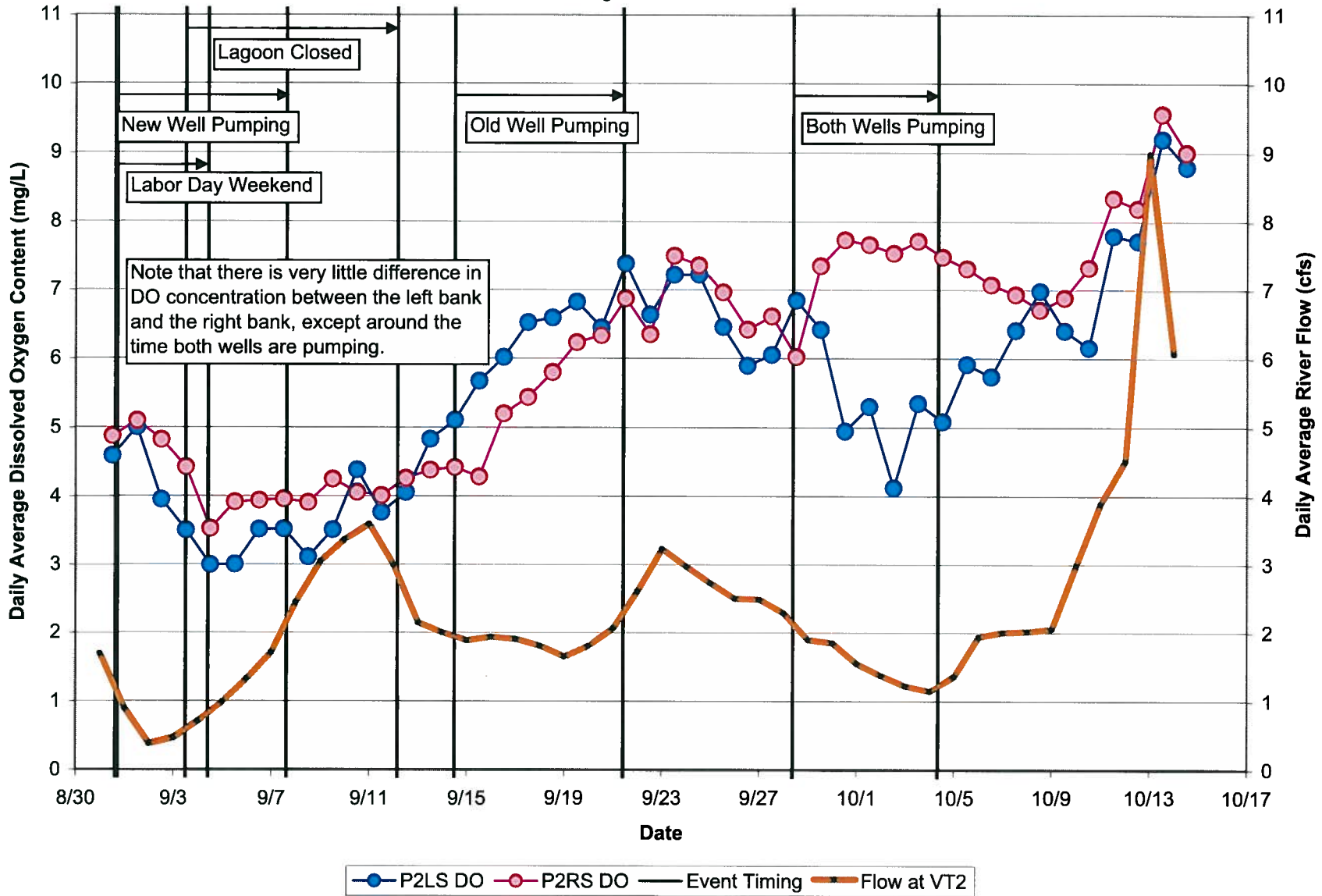


Figure 3-35
Big Sur Flows vs. Zone 2-4 Flows Regression Analysis
 El Sur Ranch
 Big Sur, California

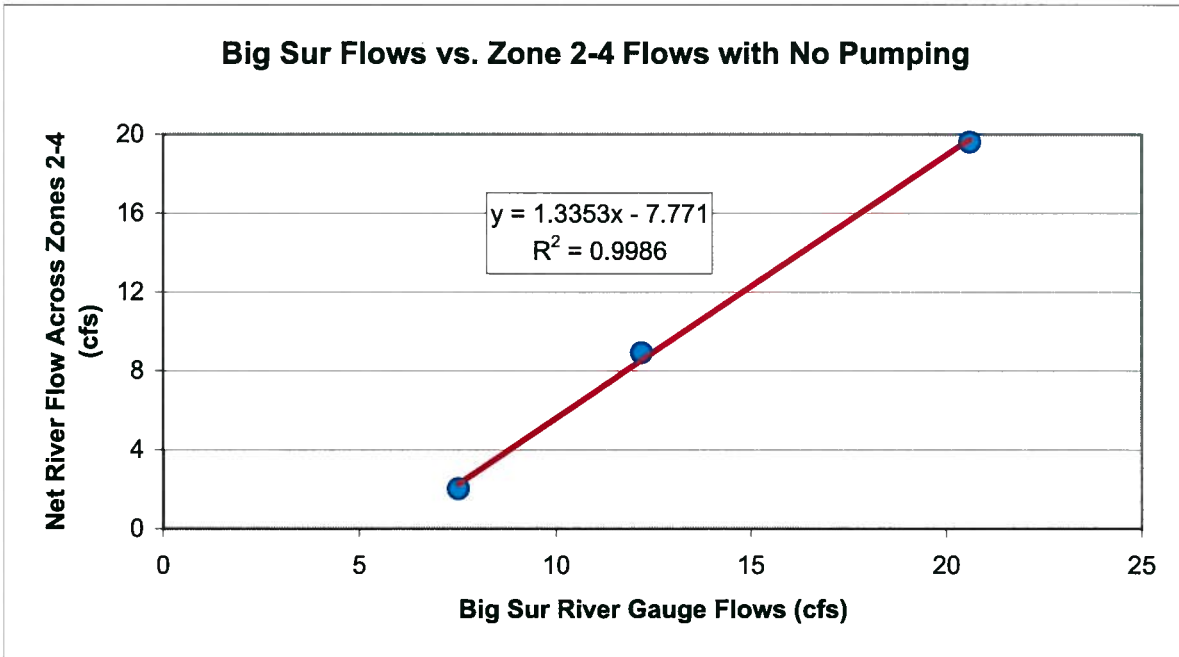
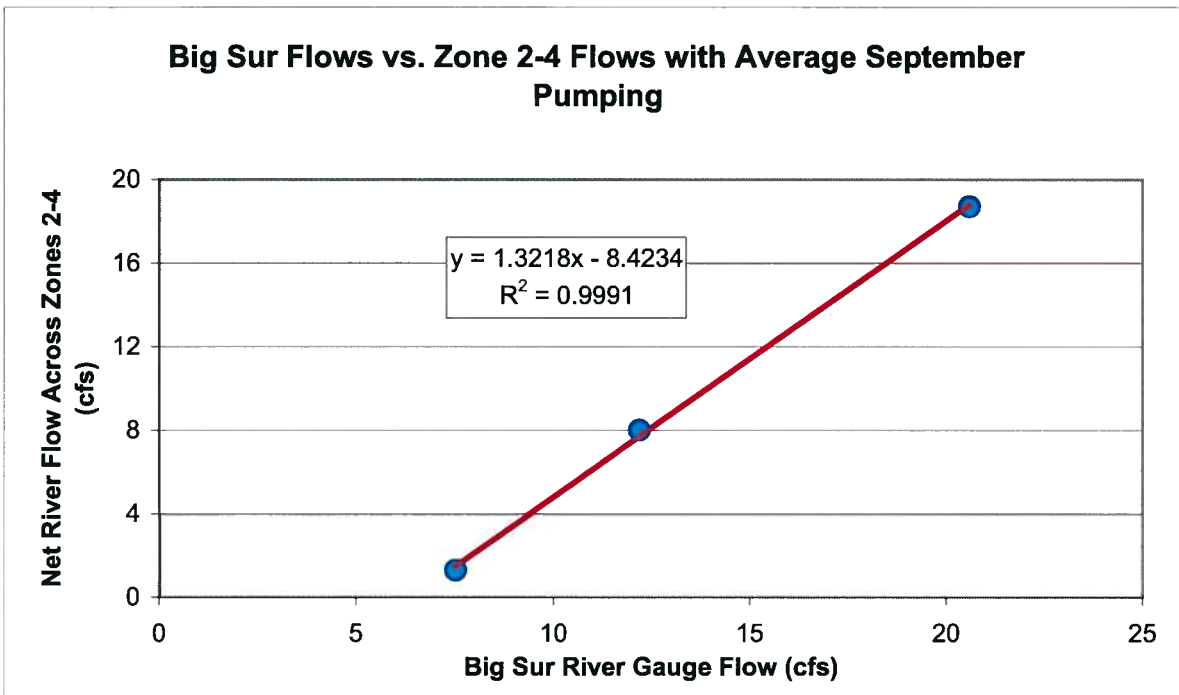


Table 3-1
Correlation Between Pumping Rate and Decrease in Groundwater
Inflow to River, Zone 2 Through Zone 4
 El Sur Ranch
 Big Sur, California

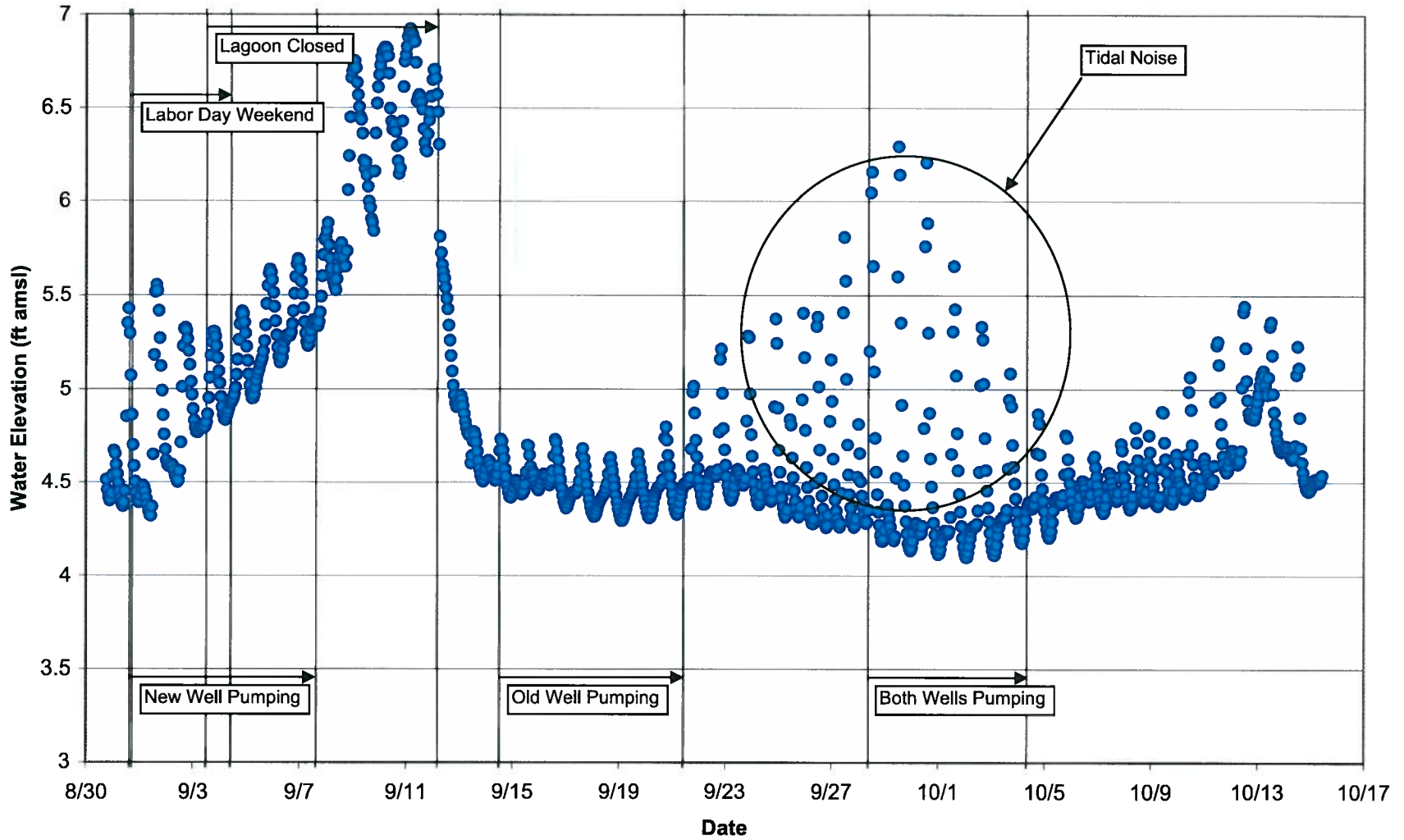
Wells Active	Total Pumping Rate (cfs)	Calculated Decrease in Groundwater Inflow (cfs)	Is There a Net Gain in River Flow?	Pumping to Groundwater Inflow Reduction Ratio (cfs per cfs)
Both	5.02	~1 to 1.2	NO	0.24
New	2.37	NA*	NO	NA*
Old	2.26	~0.2	YES	0.09

*due to overlapping hydraulic events (specifically, the closing of the Lagoon), it is not possible to calculate the decrease in overall groundwater flow with any amount of accuracy.

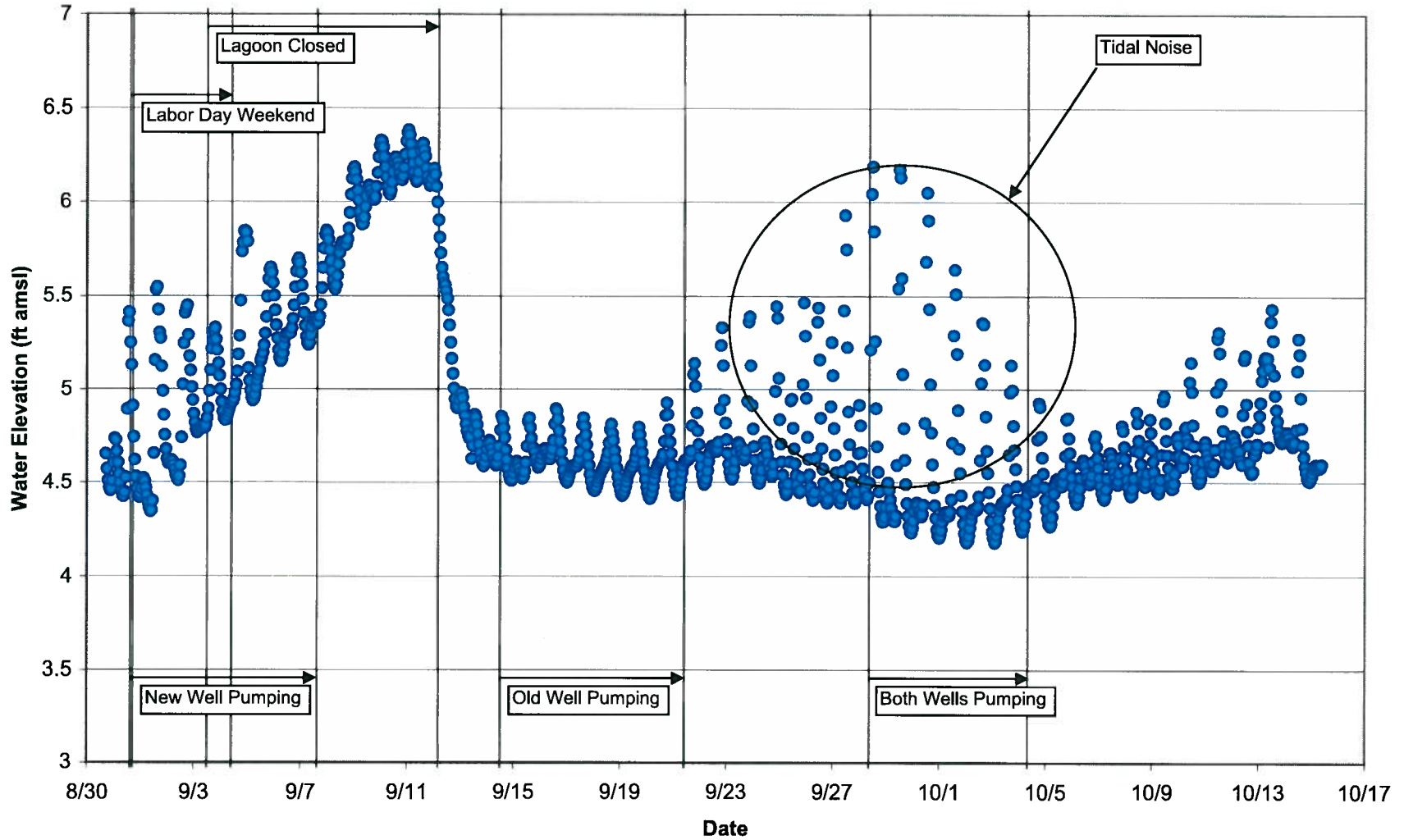
APPENDIX G

RIVER PIEZOMETER HYDROGRAPHS

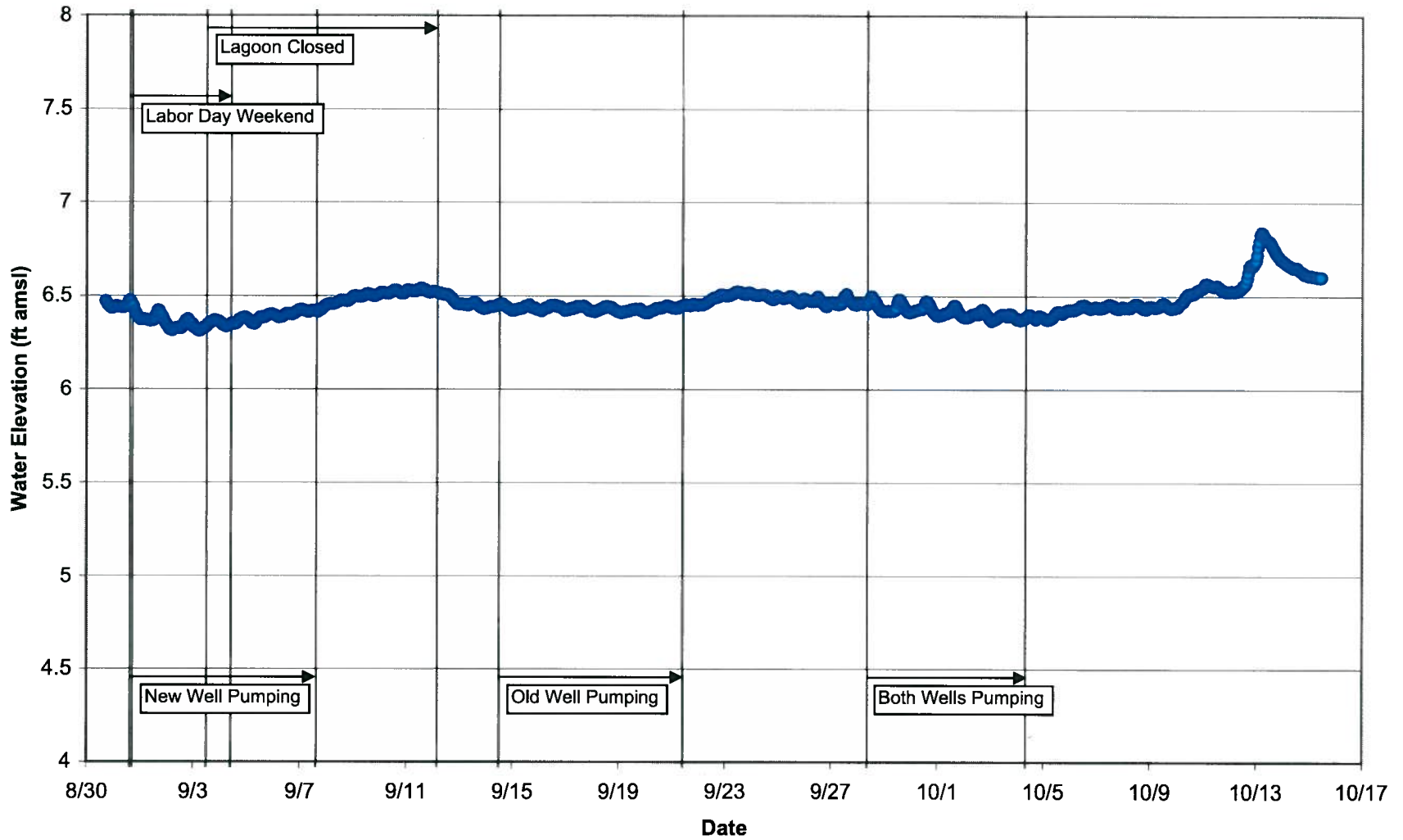
Appendix G - P1LS Hydrograph - 2007



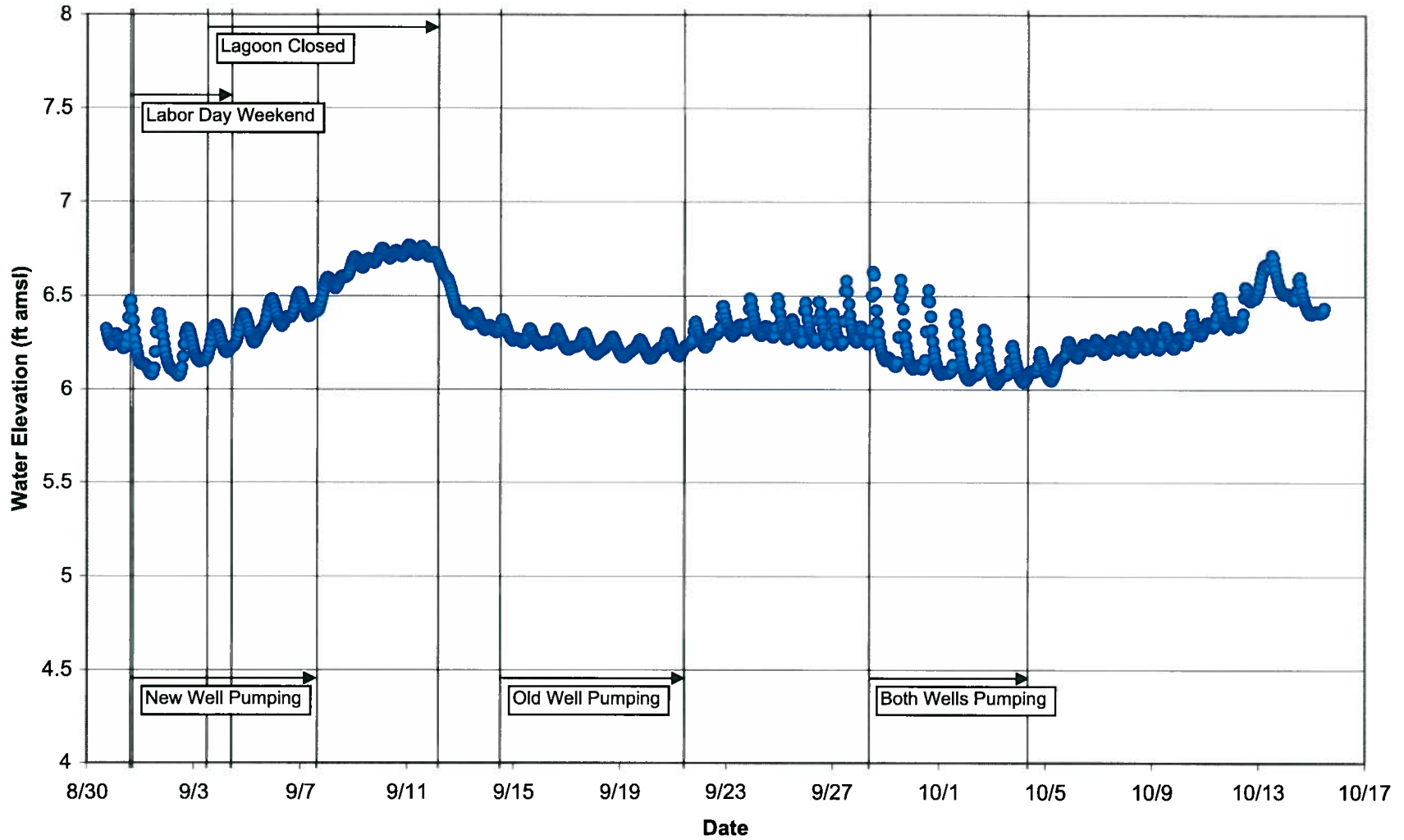
Appendix G - P1LD Hydrograph - 2007



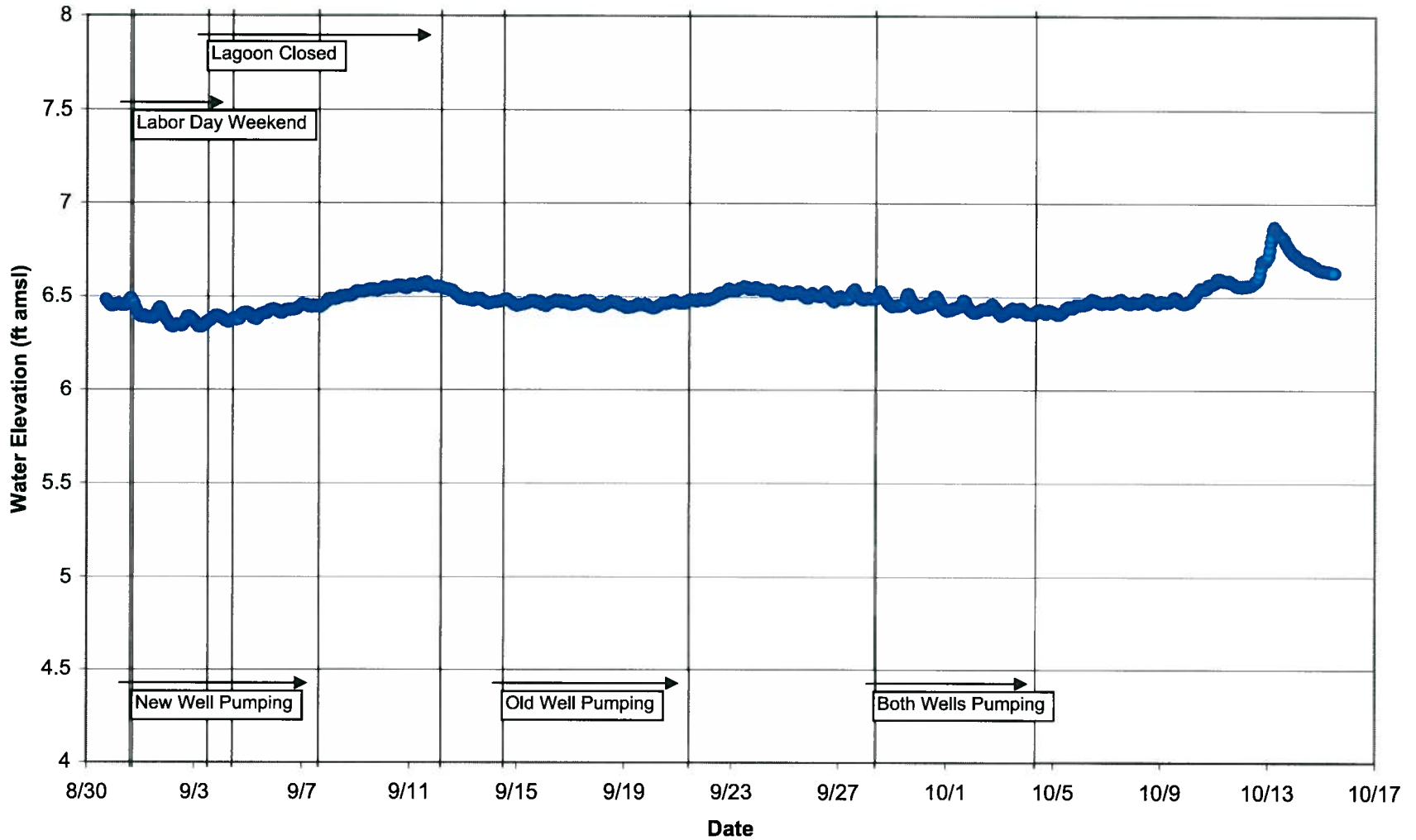
Appendix G - P2LS Hydrograph - 2007



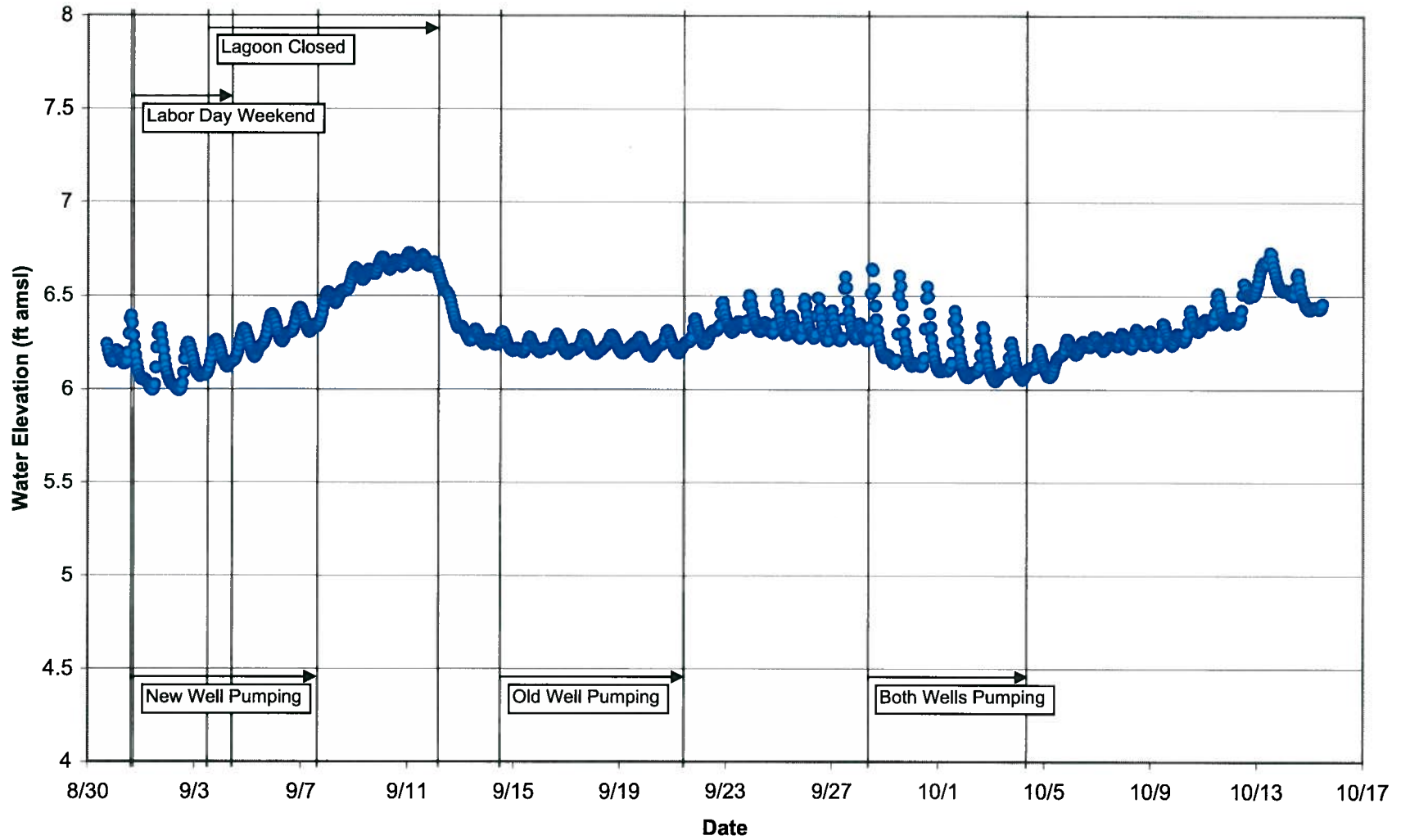
Appendix G - P2LD Hydrograph - 2007



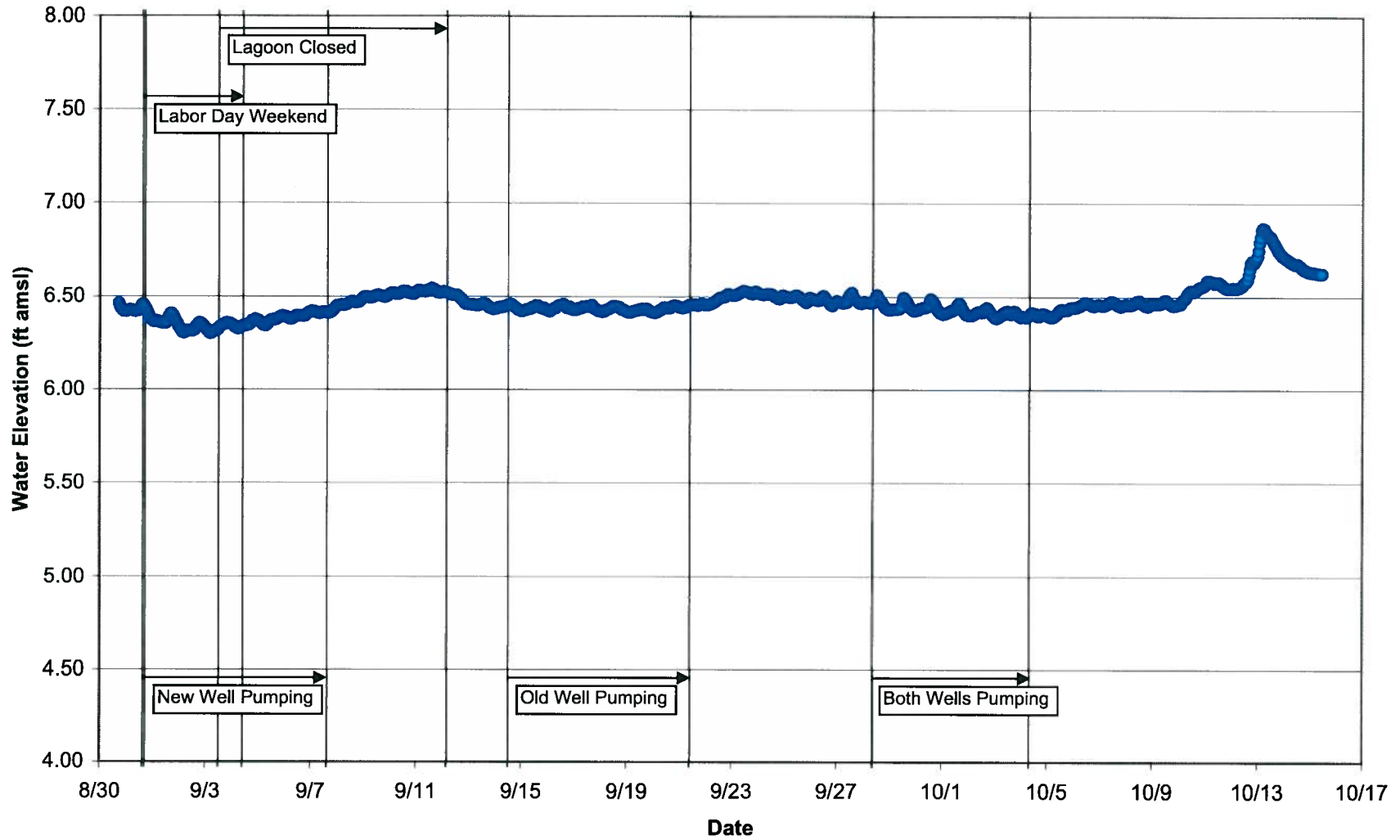
Appendix G - P2RS Hydrograph - 2007



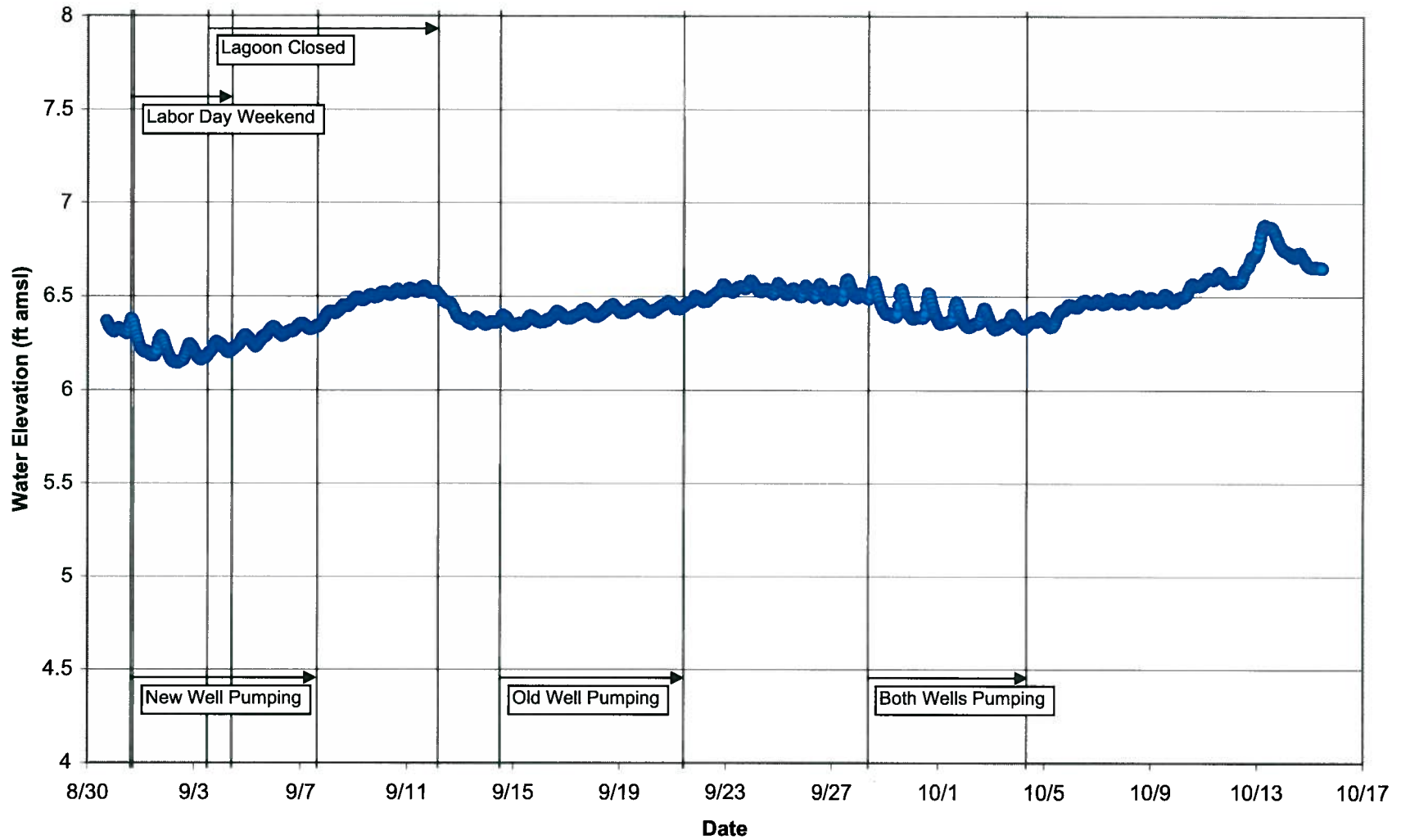
Appendix G - P2RD Hydrograph - 2007



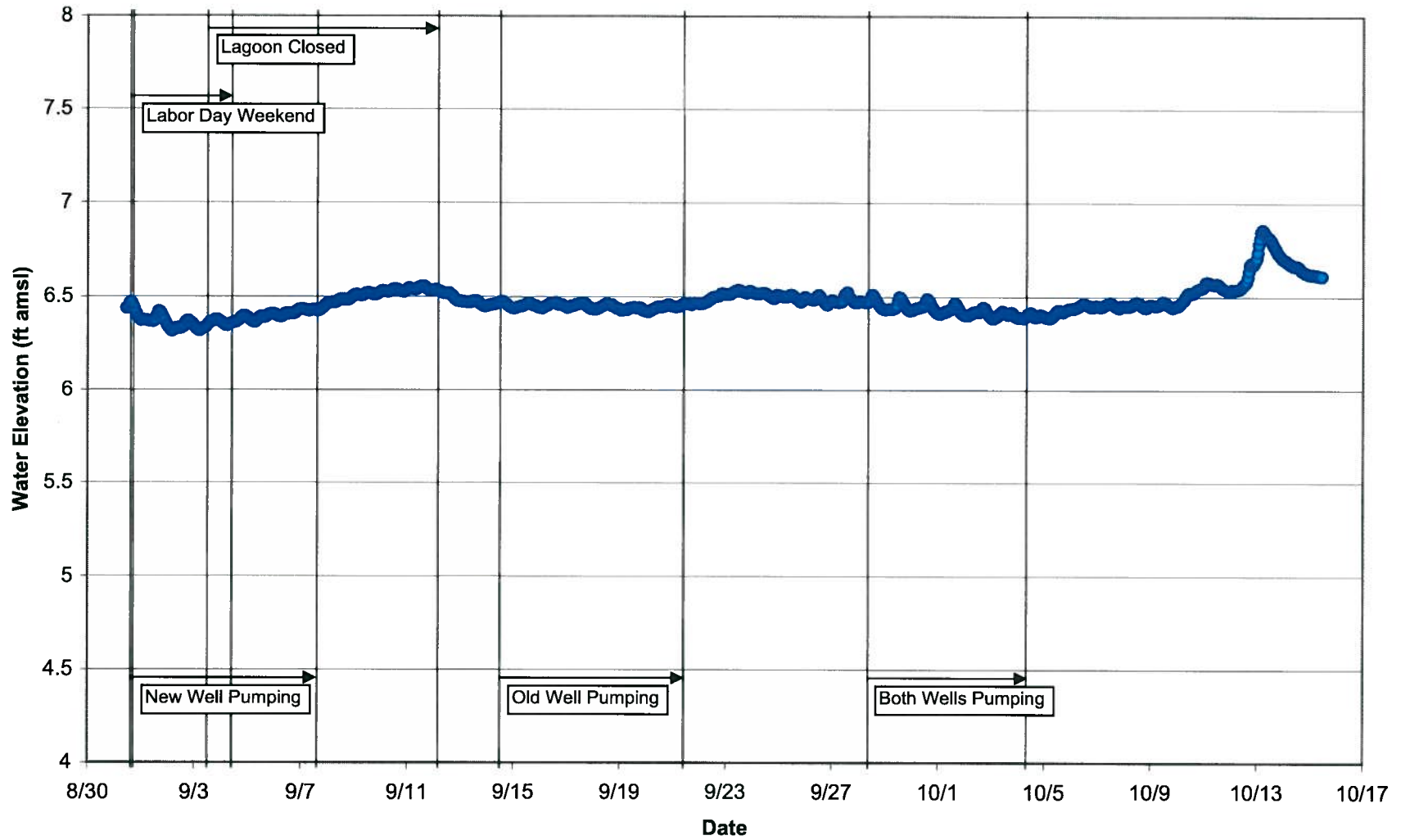
Appendix G - P3LS Hydrograph - 2007



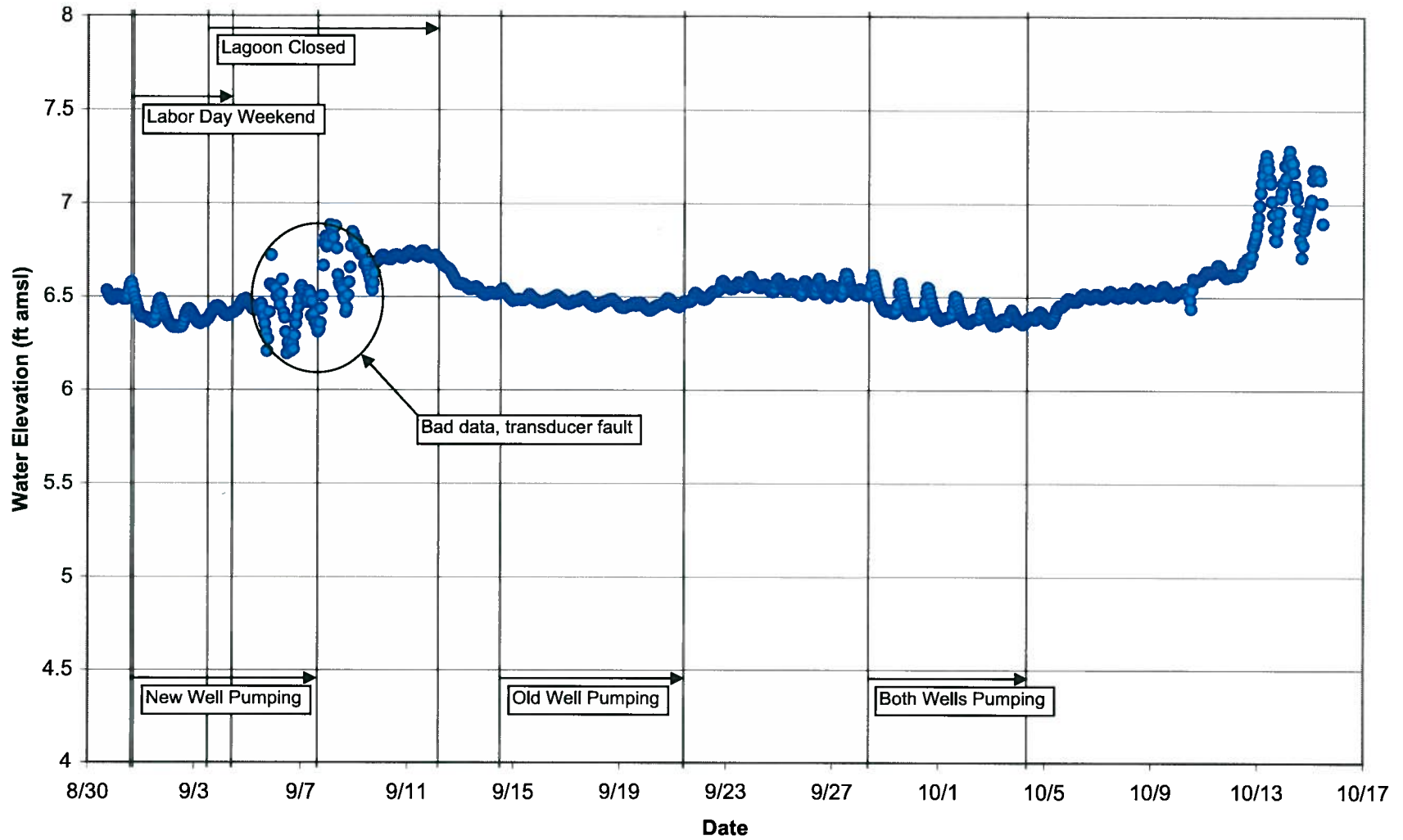
Appendix G - P3LD Hydrograph - 2007



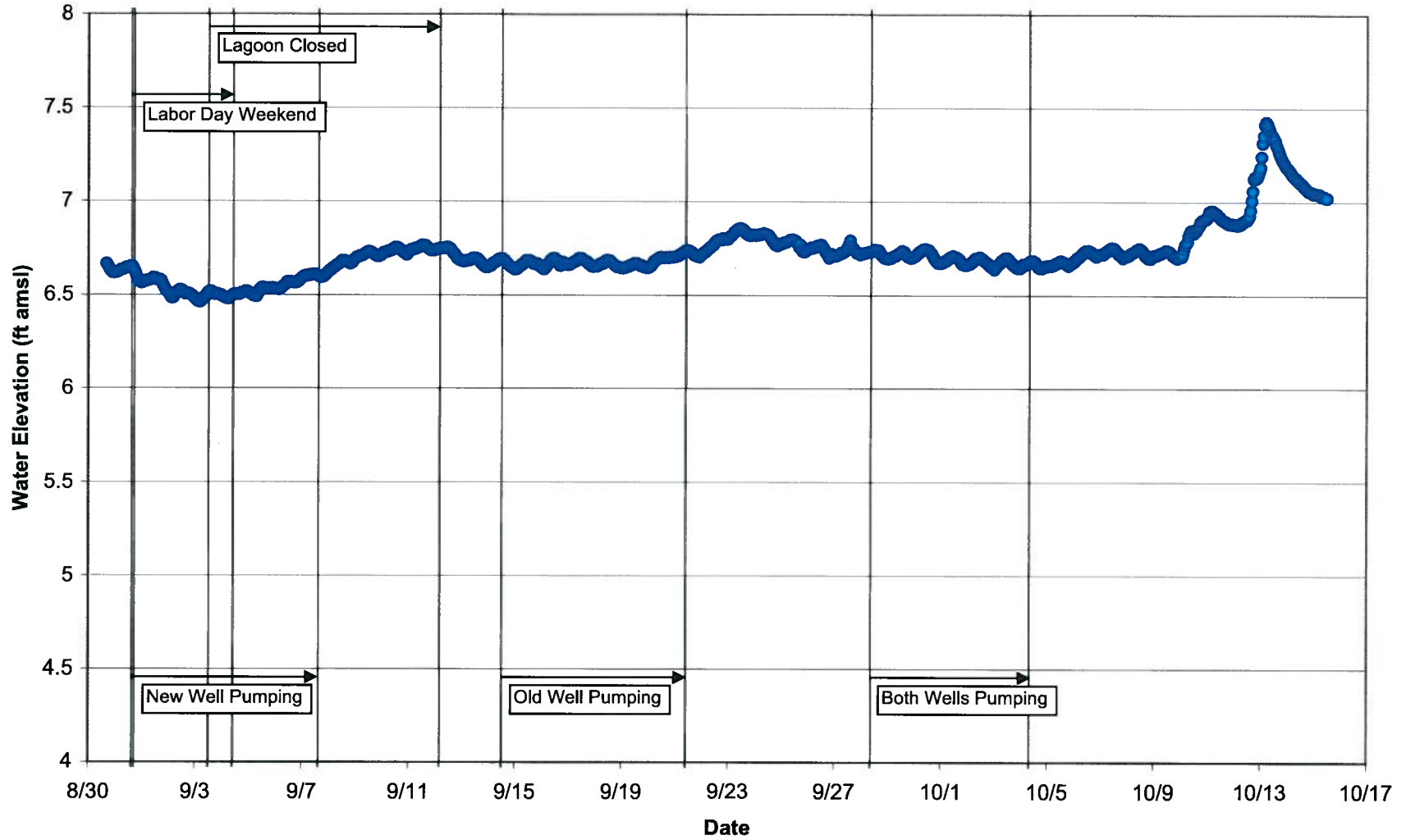
Appendix G - P3RS Hydrograph - 2007



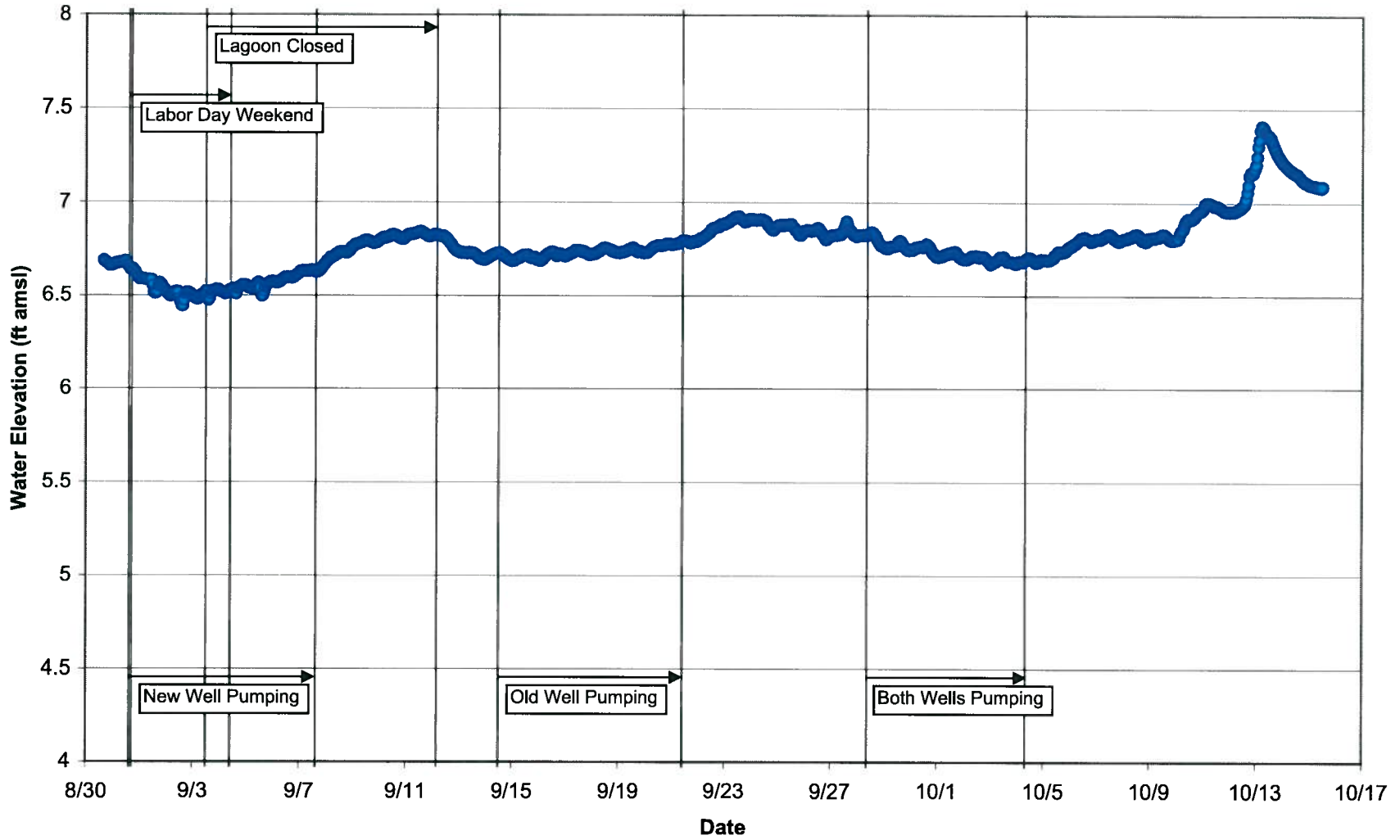
Appendix G - P3RD Hydrograph - 2007



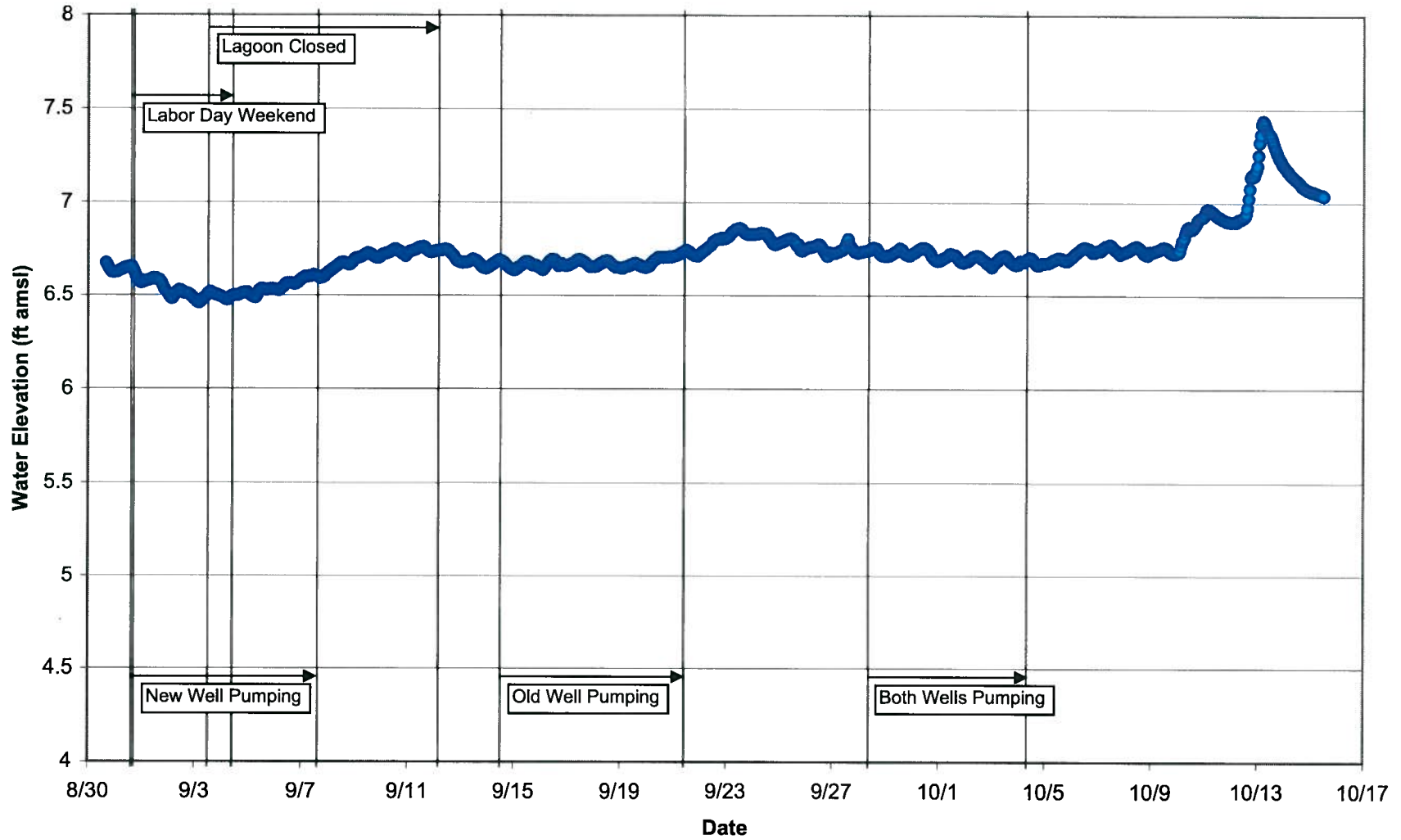
Appendix G - P4LS Hydrograph - 2007



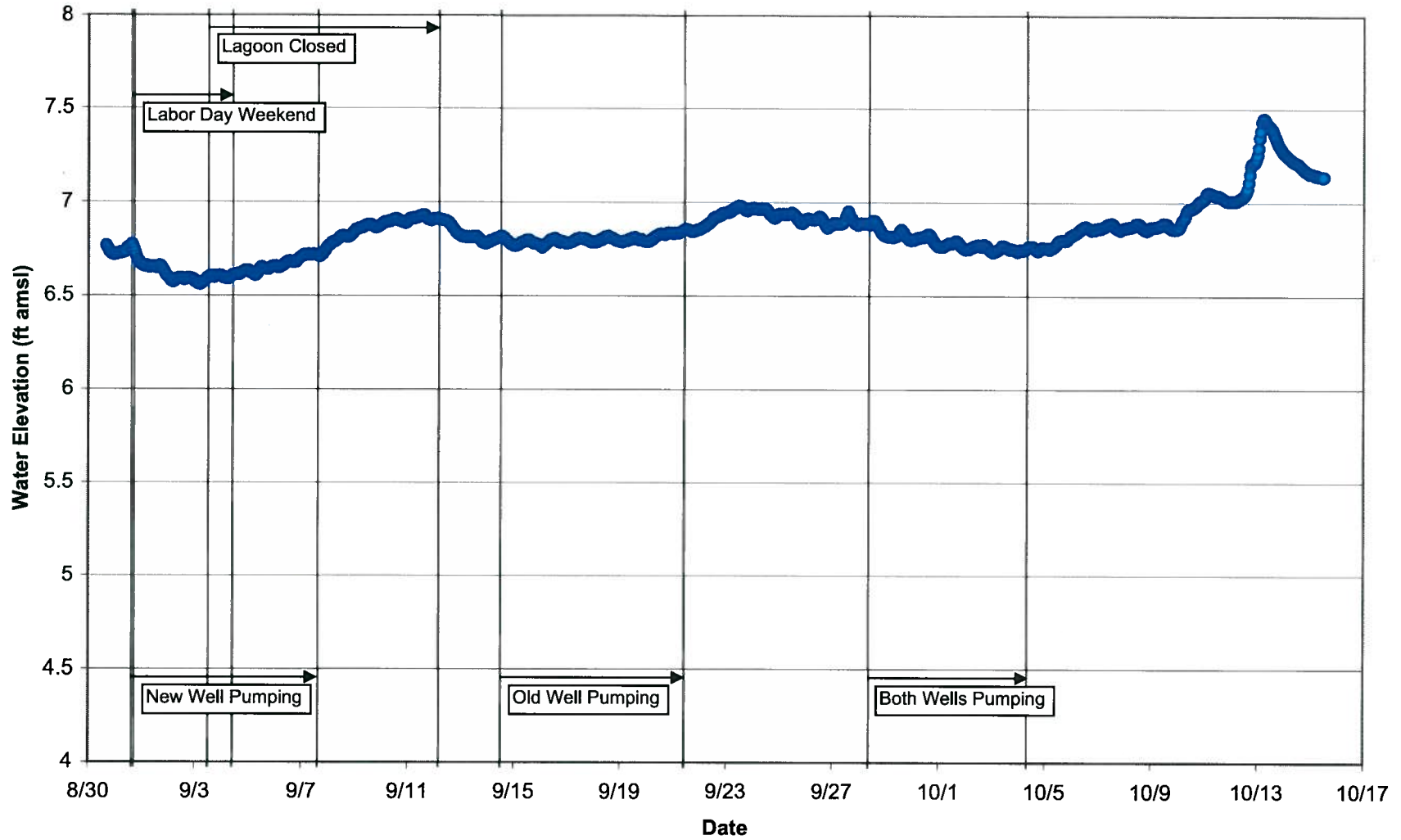
Appendix G - P4LD Hydrograph - 2007



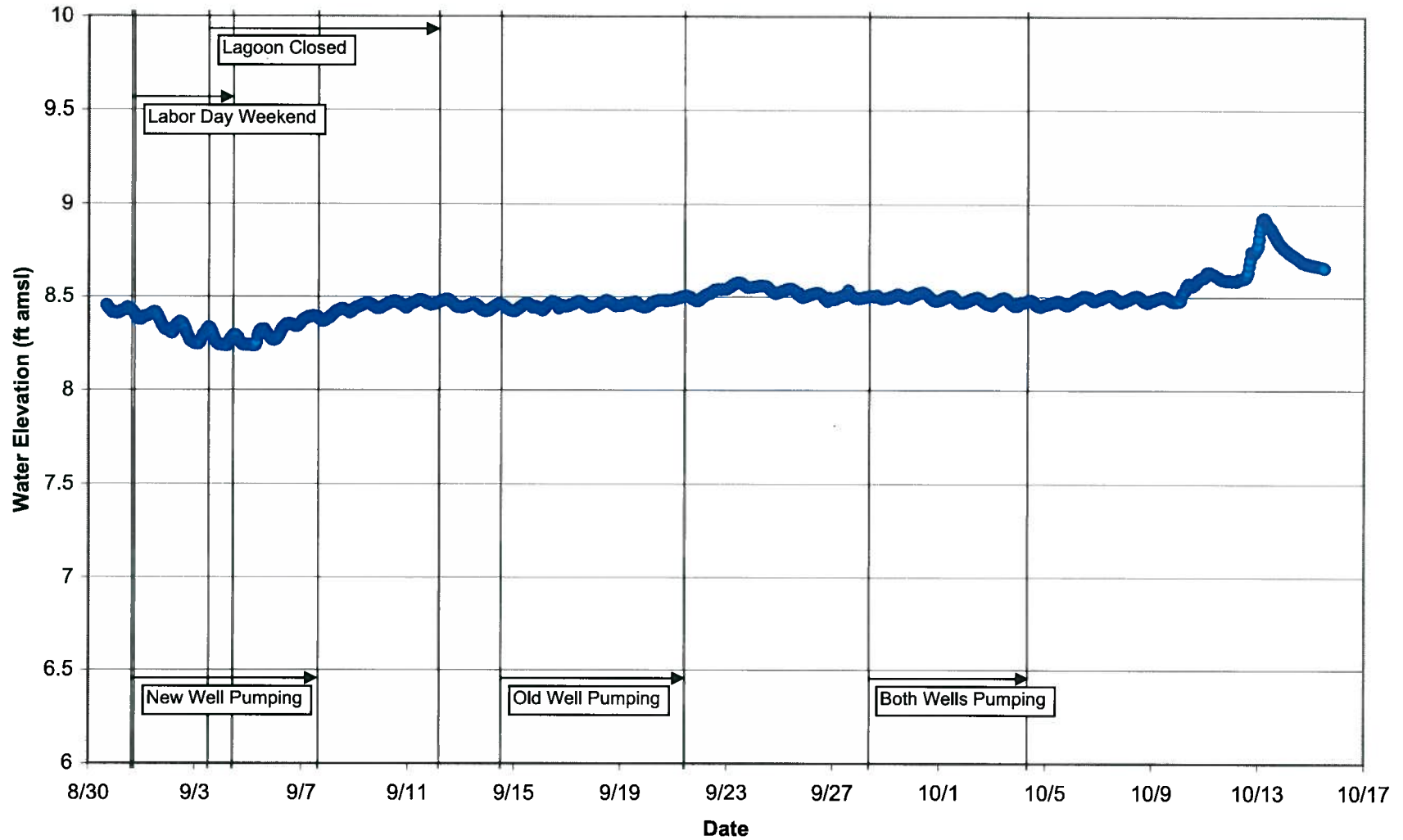
Appendix G - P4RS Hydrograph - 2007



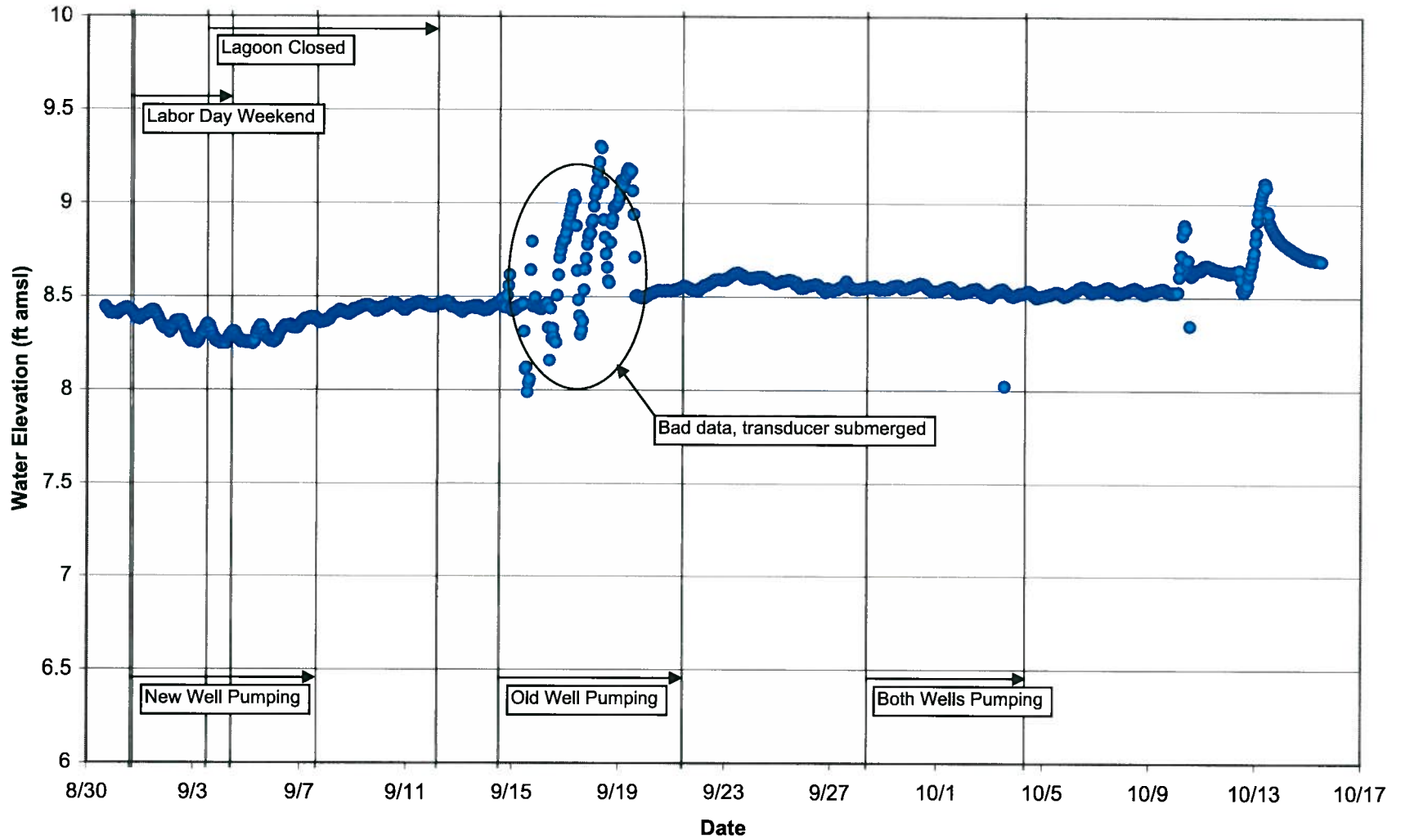
Appendix G - P4RD Hydrograph - 2007



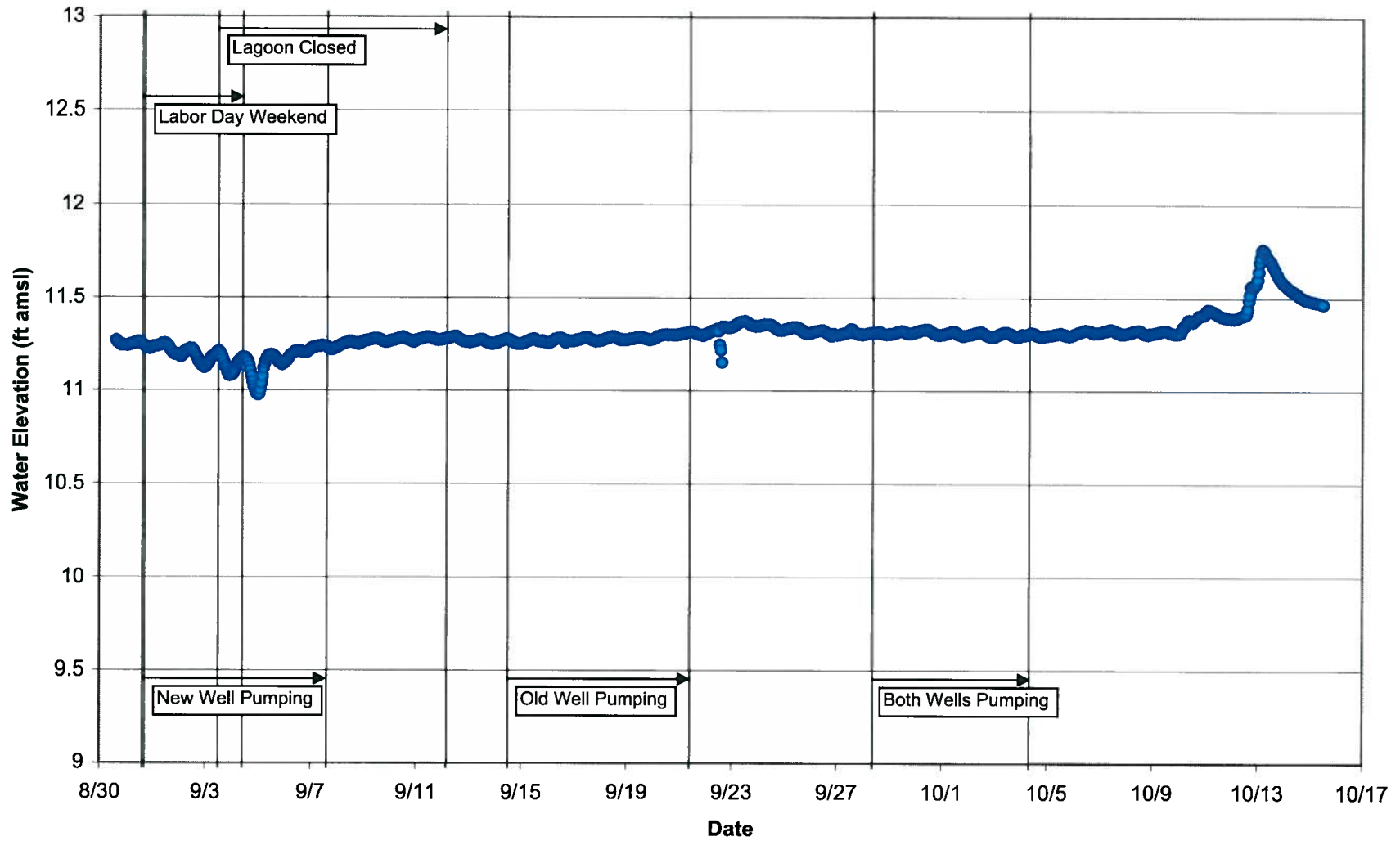
Appendix G - P4uLS Hydrograph - 2007



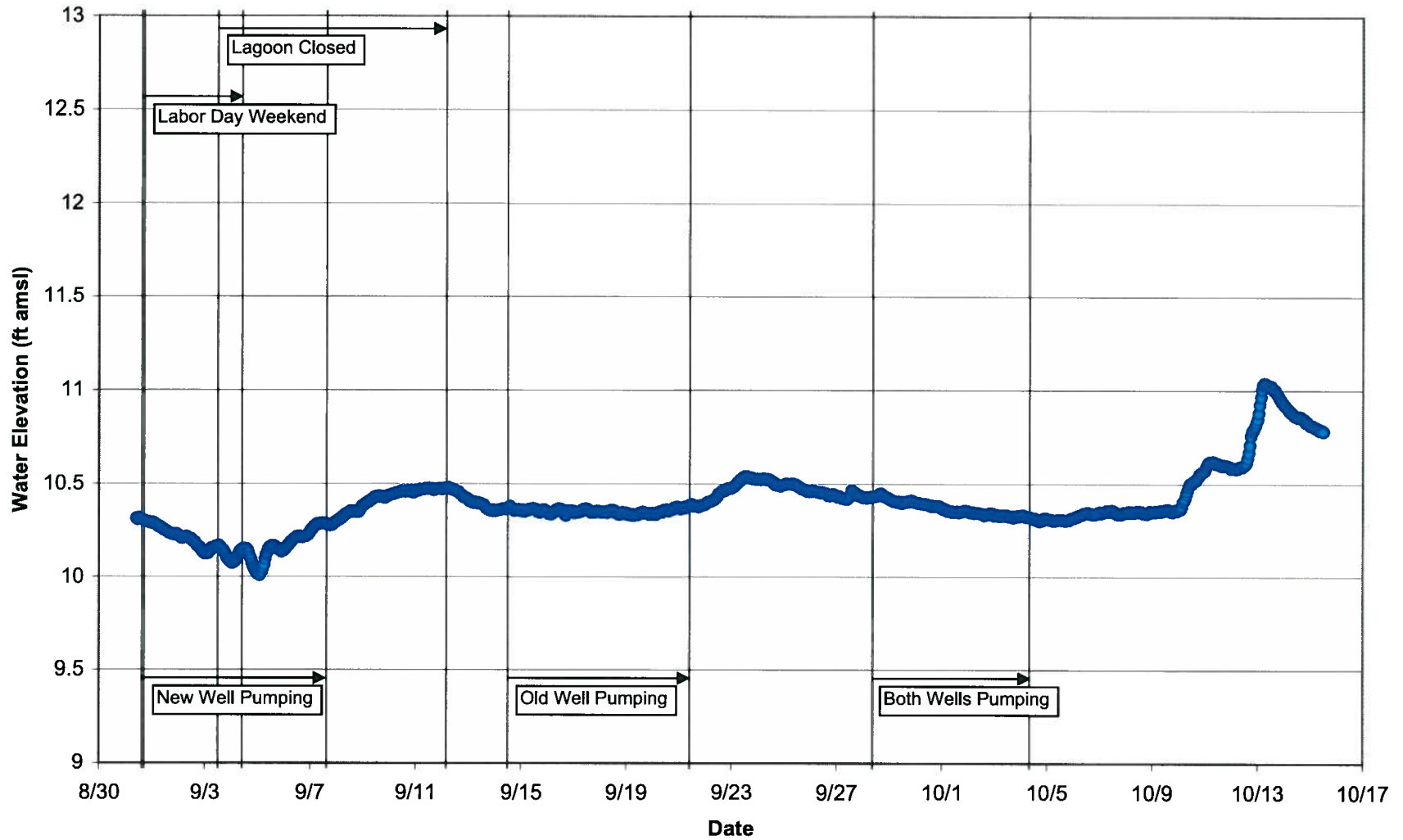
Appendix G - P4uLD Hydrograph - 2007



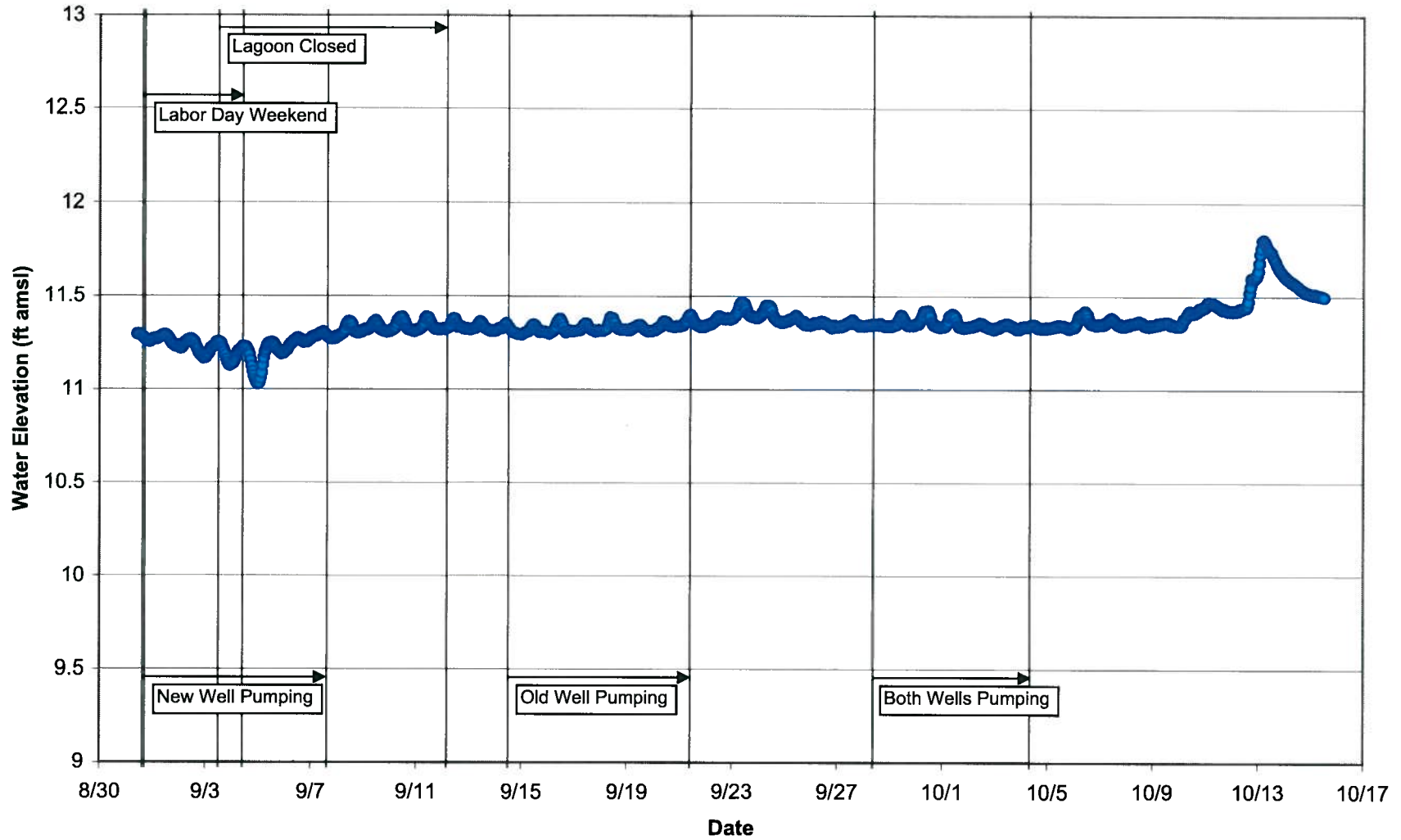
Appendix G - P5LS Hydrograph - 2007



Appendix G - P5LD Hydrograph - 2007



Appendix G - P6LS Hydrograph - 2007



Appendix G - P6LD Hydrograph - 2007

