

APPENDIX F:
WATER LEVEL LINEAR
REGRESSIONS

**APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)**

RiverMi	GWSI SITE ID	1968			1990			2006		
		DATE	DEPTH TO WATER	WATER LEVEL ELEVATION	DATE	DEPTH TO WATER	WATER LEVEL ELEVATION	DATE	DEPTH TO WATER	WATER LEVEL ELEVATION
82	320701110173901				11/27/1990	47.35	3,310.65	12/14/2006	48.5	3,309.50
82	320654110175801				11/27/1990	37.45	3,312.55			
82	320644110180301				11/27/1990	47.45	3,315.55			
83	320639110184601	4/10/1968	36.1	3,327.90	11/26/1990	38.4	3,325.60	12/12/2006	40.83	3,323.17
83	320627110182801				11/27/1990	60.4	3,319.60	12/14/2006	66.84	3,313.16
84	320600110190901	4/10/1968	39.5	3,335.50						
84	320527110191601				11/26/1990	38.9	3,343.10	12/12/2006	33.8	3,348.20
86	320515110192801				11/26/1990	37.2	3,350.80	12/12/2006	38.07	3,349.93
86	320524110200701	4/10/1968	39.1	3,367.90	11/26/1990	42.4	3,364.60			
86	320502110200401	4/10/1968	43.9	3,363.10	11/26/1990	48.3	3,358.70	12/12/2006	43.5	3,363.50
86	320509110201201	4/10/1968	57.2	3,366.80	11/26/1990	60.9	3,363.10	12/12/2006	54.8	3,369.20
86	320429110195201				11/26/1990	38.5	3,367.50	12/12/2006	39.8	3,366.20
87	320411110200801				11/27/1990	40.15	3,360.85	12/13/2006	42.78	3,358.22
88	320357110201601	3/13/1968	43.4	3,375.60	11/26/1990	42.4	3,376.60			
88	320341110210901				11/28/1990	57.61	3,402.39	12/12/2006	65.3	3,394.70
88	320337110211301				11/28/1990	55.5	3,401.50	12/12/2006	63.2	3,393.80
88	320338110211201				11/28/1990	56.41	3,400.59	12/12/2006	63.8	3,393.20
88	320332110210101				11/28/1990	49.5	3,395.50	12/12/2006	55.88	3,389.12
88	320336110204001				11/26/1990	50.7	3,388.30			
88	320331110203801				11/26/1990	55.5	3,387.50	12/12/2006	55.8	3,387.20
88	320348110194001				11/27/1990	61.65	3,386.35	12/13/2006	61.2	3,386.80
89	320329110202901	3/13/1968	42.05	3,393.95	11/26/1990	51.6	3,384.40	12/12/2006	52.7	3,383.30
89	320316110200001				11/28/1990	40.6	3,381.40			
89	320321110194801				11/27/1990	40.85	3,379.15	12/13/2006	38.53	3,381.47
90	320320110191201				11/27/1990	44.45	3,390.55	12/13/2006	43.46	3,391.54
90	320318110190701				11/27/1990	46	3,390.00	12/13/2006	38	3,398.00
90	320311110191501	3/13/1968	32.5	3,387.50						
90	320312110190801				11/27/1990	45.75	3,391.25	12/13/2006	37.5	3,399.50
90	320243110184801				11/27/1990	43.35	3,401.65	12/13/2006	36.4	3,408.60
91	320237110185901	3/13/1968	31.2	3,408.80						
91	320125110183801				11/28/1990	34.97	3,405.03			
94	320036110181501	3/14/1968	30.4	3,449.60						
94	320025110182001				11/28/1990	32.2	3,448.80			
94	320027110175601				11/29/1990	30.2	3,455.80	12/14/2006	31.33	3,454.67
94	320026110175501				11/29/1990	29.6	3,456.40	12/14/2006	29.68	3,456.32
95	320030110172001	3/18/1968	46.3	3,463.70	11/30/1990	45.75	3,464.25			
95	320021110172601	3/1/1968	46.8	3,463.20						
95	320008110174101							12/14/2006	39.61	3,459.39
90	320010110173901				11/29/1990	40.35	3,458.65	12/14/2006	41.53	3,457.47
90	320011110173901				11/29/1990	41.25	3,457.75	12/14/2006	42.97	3,456.03
95	320007110171101	3/20/1968	86.35	3,454.65	11/30/1990	90.59	3,450.00	12/14/2006	90.42	3,450.58
95	320005110170901				11/29/1990	72.4	3,460.60	12/14/2006	83.7	3,449.30
95	320003110174001				11/29/1990	44.75	3,463.25	12/14/2006	48.43	3,459.57
95	320000110170901	3/18/1968	75.85	3,461.15						
95	315955110170901	3/20/1968	78.7	3,441.30						
95	315922110165601	3/21/1968	45.85	3,466.15	11/29/1990	35.82	3,476.18	12/7/2006	35.7	3,476.30
96	315918110165501				11/29/1990	35.9	3,479.10	12/7/2006	32.9	3,482.10



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RiverMi	GWSI SITE ID	1968			1990			2006		
		DATE	DEPTH TO WATER	WATER LEVEL ELEVATION	DATE	DEPTH TO WATER	WATER LEVEL ELEVATION	DATE	DEPTH TO WATER	WATER LEVEL ELEVATION
97	315905110164701				11/29/1990	28.13	3,481.87	12/5/2006	29.33	3,480.67
97	315902110162301	3/20/1968	40	3,490.00	11/29/1990	50.2	3,479.80	12/5/2006	38.42	3,491.58
98	315817110163901	3/22/1968	6.4	3,492.60	11/28/1990	7.5	3,491.50			
98	315816110162501				11/29/1990	28.4	3,496.60	12/5/2006	27	3,498.00
98	315752110162401				11/28/1990	35.1	3,501.90			
99	315733110161801				11/28/1990	30.7	3,509.30	12/7/2006	29	3,511.00
100	315646110153801	4/4/1968	27.6	3,522.40	11/27/1990	28.18	3,521.82	12/8/2006	29.89	3,520.11
100	315639110160201				11/27/1990	27.02	3,512.98			
100	315505110145101				11/28/1990	18.1	3,566.90			
103	315423110144401	4/1/1968	19.65	3,570.35	11/28/1990	20.1	3,569.90	12/5/2006	20.7	3,569.30
103	315453110140501				11/27/1990	37.6	3,607.40			
104	315422110142901	4/1/1968	14.5	3,575.50						
104	315423110142101	4/1/1968	14.5	3,585.50						
104	315419110142301				11/28/1990	19.9	3,588.10			
104	315416110142101	4/1/1968	21.85	3,585.15	11/28/1990	19.8	3,587.20			
104	315355110144501				11/27/1990	49.6	3,575.40			
104	315354110144601				11/27/1990	54.2	3,583.80	12/7/2006	58.9	3,579.10
104	315427110140601	4/1/1968	44.6	3,580.40	11/28/1990	41.1	3,583.90	12/5/2006	44.5	3,580.50
104	315423110140601				11/28/1990	37.7	3,587.30	12/5/2006	41.2	3,583.80
104	315417110140001	4/1/1968	28.75	3,593.25	11/28/1990	25.8	3,596.20	12/11/2006	32.7	3,589.30
104	315418110150001				11/28/1990	35.1	3,589.90			
104	315428110134801				11/28/1990	26.7	3,617.30	12/5/2006	42.6	3,601.40
104	315425110132901				11/27/1990	38.1	3,619.90	11/27/2006	54.8	3,603.20
104	315406110135001				11/27/1990	30.4	3,594.60			
105	315400110131301	4/2/1968	52.05	3,607.95						
105	315355110132101	4/2/1968	43.95	3,605.05	11/27/1990	42.8	3,606.20	11/27/2006	49.5	3,599.50
105	315352110311701				11/28/1990	44.5	3,605.50			
105	315333110130501				11/26/1990	16	3,624.00			
106	315243110132101				11/26/1990	14.9	3,615.10			
106	315305110124901				11/26/1990	54.3	3,620.70			
106	315257110123701				11/26/1990	74.9	3,618.10	12/6/2006	78.8	3,614.20
107	315200110130201	11/26/1990	33.9	3,607.10						
107	315156110122601	4/3/1968	36.1	3,648.90						
107	315110110134301				11/28/1990	0	3,685.00	12/12/2006	0	3,685.00
109	315111110121001				11/27/1990	38.1	3,665.90	12/15/2006	36.2	3,667.80
109	315155110124101				11/26/1990	36.2	3,627.80			
109	315050110120201				11/27/1990	41.2	3,660.80	12/13/2006	41.4	3,660.60
110	315032110114901	4/3/1968	66.95	3,668.05	11/27/1990	73.8	3,661.20	12/14/2006	71.4	3,663.60
110	315019110115001	4/3/1968	67.7	3,677.30				12/14/2006	79	3,666.00
110	315005110122001				11/27/1990	43.2	3,664.80			
110	315005110124301	4/1/1968	16.7	3,673.30						
110	314959110121301	4/3/1968	45.5	3,678.50	11/27/1990	61.5	3,662.50	12/14/2006	56.5	3,667.50
110	314952110124401							12/14/2006	27.1	3,657.90
114	314740110123801	3/27/1968	20.8	3,725.20				12/11/2006	27.2	3,718.80
	site count: 91									



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1990	All Wells		FHA		Well Constructed in THA West of FHA		Well Constructed in THA East of FHA	
	3524.32	3310.65	5021.138	3312.55	20656.09	3364.6	3524.32	3310.65
	5021.138	3312.55	5694.293	3315.55	22361.7	3363.1	9156.605	3319.6
	5694.293	3315.55	8490.872	3325.6	28152.78	3402.39	55451.48	3458.65
	8490.872	3325.6	17503.22	3343.1	28156.03	3401.5	55471.12	3457.75
	9156.605	3319.6	19007.14	3350.8	28159.28	3400.59	56039	3463.25
	17503.22	3343.1	21590.07	3358.7	28815.79	3395.5	72165.71	3501.9
	19007.14	3350.8	24943.94	3367.5	29054.61	3388.3	78826.29	3521.82
	20656.09	3364.6	25954.3	3360.85	29253.12	3387.5	91300.17	3566.9
	21590.07	3358.7	27400.62	3376.6	29978.6	3384.4	97706.04	3587.2
	22361.7	3363.1	31047.22	3381.4	97997.63	3575.4	99726.13	3596.2
	24943.94	3367.5	31824.48	3379.15	98136.67	3583.8	99757.11	3589.9
	25954.3	3360.85	34577.46	3390.55	113899.1	3607.1	100784.5	3594.6
	27400.62	3376.6	34755.26	3390	119680.4	3685	119741.5	3665.9
	28152.78	3402.39	35325.55	3391.25			122416.3	3660.8
	28156.03	3401.5	38710.39	3401.65			125632.9	3664.8
	28159.28	3400.59	46701.52	3405.03			29393.16	3386.35
	28815.79	3395.5	52344.26	3448.8			54122.41	3464.25
	29054.61	3388.3	53435.7	3455.8			55782.83	3450
	29253.12	3387.5	53547.79	3456.4			56002	3460.6
	29393.16	3386.35	63062.34	3476.18			65126.97	3479.8
	29978.6	3384.4	63085.3	3479.1			96840.62	3607.4
	31047.22	3381.4	64244.24	3481.87			98855.65	3583.9
	31824.48	3379.15	69484.65	3491.5			99023.51	3587.3
	34577.46	3390.55	69589.7	3496.6			100011.4	3617.3
	34755.26	3390	74562.74	3509.3			100014.6	3619.9
	35325.55	3391.25	79932.12	3512.98			103291.5	3606.2
	38710.39	3401.65	95701.78	3569.9			103457.9	3605.5
	46701.52	3405.03	97642.17	3588.1			104702.7	3624
	52344.26	3448.8	120426.6	3627.8			109183.5	3615.1
	53435.7	3455.8					109826.1	3620.7
	53547.79	3456.4					110166.3	3618.1
	54122.41	3464.25	24573.41				123474.3	3661.2
	55451.48	3458.65					126910.6	3662.5
	55471.12	3457.75						
	55782.83	3450						
	56002	3460.6						
	56039	3463.25						
	63062.34	3476.18						
	63085.3	3479.1						
	64244.24	3481.87						
	65126.97	3479.8						
	69484.65	3491.5						
	69589.7	3496.6						
	72165.71	3501.9						
	74562.74	3509.3						
	78826.29	3521.82						
	79932.12	3512.98						



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1990	All Wells	FHA	Well Constructed in THA West of FHA	Well Constructed in THA East of FHA
	91300.17	3566.9		
	95701.78	3569.9		
	96840.62	3607.4		
	97642.17	3588.1		
	97706.04	3587.2		
	97997.63	3575.4		
	98136.67	3583.8		
	98855.65	3583.9		
	99023.51	3587.3		
	99726.13	3596.2		
	99757.11	3589.9		
	100011.4	3617.3		
	100014.6	3619.9		
	100784.5	3594.6		
	103291.5	3606.2		
	103457.9	3605.5		
	104702.7	3624		
	109183.5	3615.1		
	109826.1	3620.7		
	110166.3	3618.1		
	119680.4	3685		
	119741.5	3665.9		
	120426.6	3627.8		
	122416.3	3660.8		
	123474.3	3661.2		
	125632.9	3664.8		
	126910.6	3662.5		



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2006	All Wells		FHA		Well Constructed in THA West of FHA		Well Constructed in THA East of FHA	
	3524.32	3309.5	8490.872	3323.17	22361.7	3369.2	3524.32	3309.5
	8490.872	3323.17	17503.22	3348.2	28152.78	3394.7	9156.605	3313.16
	9156.605	3313.16	19007.14	3349.93	28156.03	3393.8	55372.65	3459.39
	17503.22	3348.2	21590.07	3363.5	28159.28	3393.2	55451.48	3457.47
	19007.14	3349.93	24943.94	3366.2	28815.79	3389.12	55471.12	3456.03
	21590.07	3363.5	25954.3	3358.22	29253.12	3387.2	56039	3459.57
	22361.7	3369.2	31824.48	3381.47	29978.6	3383.3	78826.29	3520.11
	24943.94	3366.2	34577.46	3391.54	98136.67	3579.1	99726.13	3589.3
	25954.3	3358.22	34755.26	3398	119680.4	3685	119741.5	3667.8
	28152.78	3394.7	35325.55	3399.5			122416.3	3660.6
	28156.03	3393.8	38710.39	3408.6			141547.5	3718.8
	28159.28	3393.2	53435.7	3454.67			29393.16	3386.8
	28815.79	3389.12	53547.79	3456.32			55782.83	3450.58
	29253.12	3387.2	63062.34	3476.3			56002	3449.3
	29393.16	3386.8	63085.3	3482.1			65126.97	3491.58
	29978.6	3383.3	64244.24	3480.67			98855.65	3580.5
	31824.48	3381.47	69589.7	3498			99023.51	3583.8
	34577.46	3391.54	74562.74	3511			100011.4	3601.4
	34755.26	3398	95701.78	3569.3			100014.6	3603.2
	35325.55	3399.5	128040.1	3657.9			103291.5	3599.5
	38710.39	3408.6					110166.3	3614.2
	53435.7	3454.67					123474.3	3663.6
	53547.79	3456.32					123858.2	3666
	55372.65	3459.39	16959.86				126910.6	3667.5
	55451.48	3457.47						
	55471.12	3456.03						
	55782.83	3450.58						
	56002	3449.3						
	56039	3459.57						
	63062.34	3476.3						
	63085.3	3482.1						
	64244.24	3480.67						
	65126.97	3491.58						
	69589.7	3498						
	74562.74	3511						
	78826.29	3520.11						
	95701.78	3569.3						
	98136.67	3579.1						
	98855.65	3580.5						
	99023.51	3583.8						
	99726.13	3589.3						
	100011.4	3601.4						
	100014.6	3603.2						
	103291.5	3599.5						
	110166.3	3614.2						
	119680.4	3685						



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2006	All Wells	FHA	Well Constructed in THA West of FHA	Well Constructed in THA East of FHA
	119741.5	3667.8		
	122416.3	3660.6		
	123474.3	3663.6		
	123858.2	3666		
	126910.6	3667.5		
	128040.1	3657.9		
	141547.5	3718.8		



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1968	All Wells		FHA		Well Constructed in THA West of FHA		Well Constructed in THA East of FHA	
	8490.872	3327.9	8490.872	3327.9	20656.09	3367.9	78826.29	3522.4
	12477.43	3335.5	12477.43	3335.5	22361.7	3366.8	97469.31	3585.5
	20656.09	3367.9	21590.07	3363.1	29978.6	3393.95	97706.04	3585.15
	21590.07	3363.1	27400.62	3375.6			99726.13	3593.25
	22361.7	3366.8	35064	3387.5			115341.4	3648.9
	27400.62	3375.6	38729.35	3408.8			141547.5	3725.2
	29978.6	3393.95	52062.36	3449.6			54122.41	3463.7
	35064	3387.5	63062.34	3466.15			55113	3463.2
	38729.35	3408.8	69484.65	3492.6			55782.83	3454.65
	52062.36	3449.6	95701.78	3570.35			57138.27	3461.15
	54122.41	3463.7	97180.1	3575.5			57917.16	3441.3
	55113	3463.2	126513.5	3673.3			65126.97	3490
	55782.83	3454.65					98855.65	3580.4
	57138.27	3461.15					103211.1	3607.95
	57917.16	3441.3					103291.5	3605.05
	63062.34	3466.15					123474.3	3668.05
	65126.97	3490	18486.49				123858.2	3677.3
	69484.65	3492.6					126910.6	3678.5
	78826.29	3522.4						
	95701.78	3570.35						
	97180.1	3575.5						
	97469.31	3585.5						
	97706.04	3585.15						
	98855.65	3580.4						
	99726.13	3593.25						
	103211.1	3607.95						
	103291.5	3605.05						
	113899.1	3607.1						
	115341.4	3648.9						
	123474.3	3668.05						
	123858.2	3677.3						
	126513.5	3673.3						
	126910.6	3678.5						
	141547.5	3725.2						



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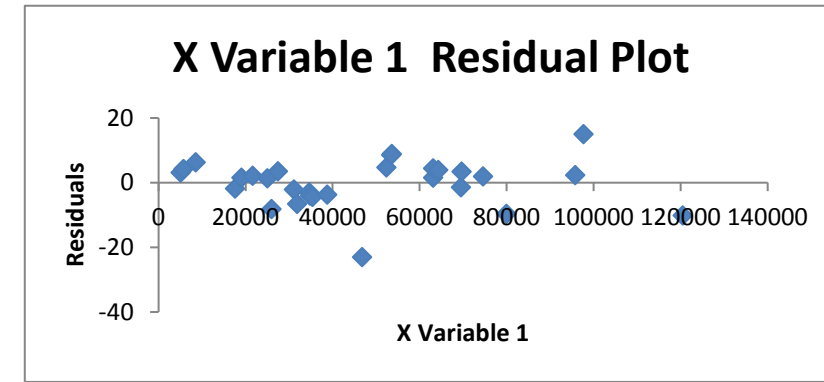
SUMMARY OUTPUT

1990

Regression Statistics	
Multiple R	0.996242461
R Square	0.992499042
Adjusted R Square	0.992221228
Standard Error	7.327834189
Observations	29

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	191835.2356	191835.2356	3572.5401	3.14656E-30
Residual	27	1449.823155	53.6971539		
Total	28	193285.0587			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 75.0%	Upper 75.0%	Lower 50.0%	Upper 50.0%
Intercept	3295.075228	2.623249382	1256.104452	6.78979E-66	3289.692765	3300.457691	3291.99122	3298.159236	3293.281752	3296.868704
X Variable 1	0.002846667	4.76264E-05	59.77072946	3.14656E-30	0.002748946	0.002944389	0.002790676	0.002902659	0.002814106	0.002879229

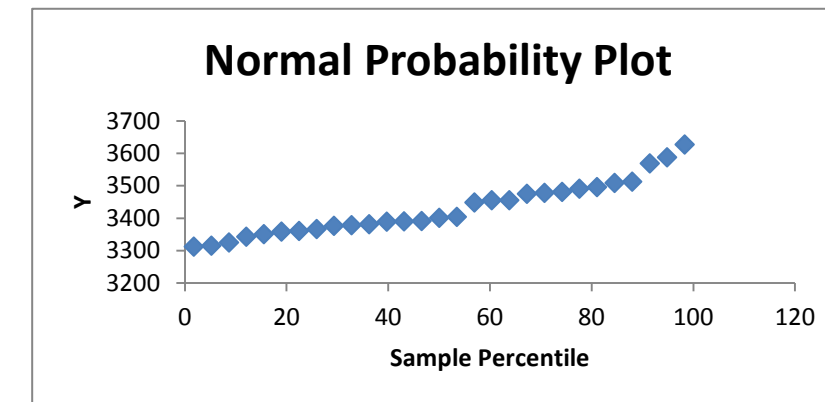
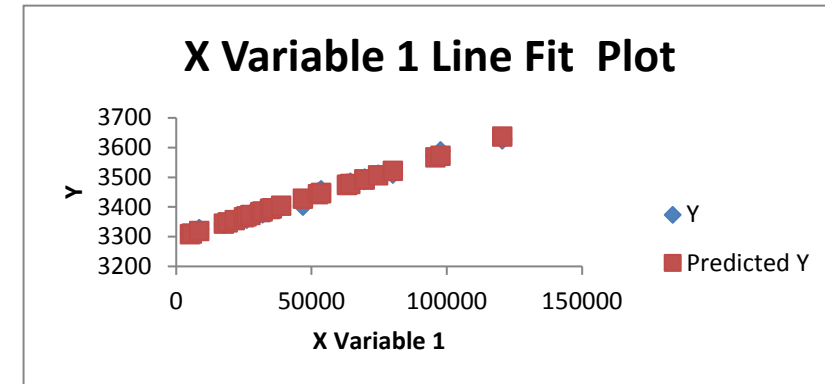


RESIDUAL OUTPUT

Observation	Predicted Y	Residuals	Standard Residuals
1	3309.368737	3.181263283	0.442100609
2	3311.284987	4.265013241	0.592709494
3	3319.245916	6.354084255	0.883027988
4	3344.901072	-1.801071526	-0.250295165
5	3349.182225	1.617774576	0.224822362
6	3356.534978	2.165021896	0.300873399
7	3366.08232	1.417679759	0.197015157
8	3368.958481	-8.108481134	-1.126836771
9	3373.075664	3.524336279	0.489777512
10	3383.456348	-2.056347594	-0.285770916
11	3385.668946	-6.518946154	-0.90593887
12	3393.50576	-2.955760215	-0.410762415
13	3394.011885	-4.011885417	-0.557532284
14	3395.635309	-4.385308708	-0.609426972
15	3405.270841	-3.620840963	-0.503188781
16	3428.018915	-22.98891543	-3.194772831
17	3444.081909	4.718091248	0.655673809
18	3447.188878	8.611121883	1.196688827
19	3447.507983	8.892016747	1.235724826
20	3474.592727	1.587272957	0.220583547
21	3474.658087	4.441912646	0.617293229
22	3477.957218	3.912781572	0.543759809
23	3492.874902	-1.374901866	-0.191070307

PROBABILITY OUTPUT

Percentile	Y
1.724137931	3312.55
5.172413793	3315.55
8.620689655	3325.6
12.06896552	3343.1
15.51724138	3350.8
18.96551724	3358.7
22.4137931	3360.85
25.86206897	3367.5
29.31034483	3376.6
32.75862069	3379.15
36.20689655	3381.4
39.65517241	3390
43.10344828	3390.55
46.55172414	3391.25
50	3401.65
53.44827586	3405.03
56.89655172	3448.8
60.34482759	3455.8
63.79310345	3456.4
67.24137931	3476.18
70.68965517	3479.1
74.13793103	3481.87
77.5862069	3491.5



APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)

SUMMARY OUTPUT

		1990			
24	3493.173955	3.426044738	0.476117922	81.03448276	3496.6
25	3507.330543	1.969456901	0.273695704	84.48275862	3509.3
26	3522.615372	-9.635371656	-1.339028963	87.93103448	3512.98
27	3567.506354	2.393645522	0.332645257	91.37931034	3569.9
28	3573.030008	15.06999238	2.094278975	94.82758621	3588.1
29	3637.889679	-10.08967922	-1.40216415	98.27586207	3627.8

	<i>FHA Lower 75%</i>	<i>FHA Best Fit</i>	<i>FHA Upper 75%</i>	<i>FHA Lower 95%</i>	<i>FHA Upper 95%</i>	<i>FHA Lower 50%</i>	<i>FHA Upper 50%</i>
5021.137683	3306.003586	3309.368737	3312.733887	3303.495601	3315.241872	3307.411765	3311.325709
5694.293281	3307.882145	3311.284987	3314.687829	3305.346069	3317.223904	3309.306096	3313.263878
8490.871911	3315.686489	3319.245916	3322.805343	3313.033713	3325.458119	3317.175964	3321.315867
17503.21965	3340.837027	3344.901072	3348.965116	3337.808169	3351.993974	3342.537665	3347.264479
19007.13754	3345.033974	3349.182225	3353.330477	3341.942358	3356.422092	3346.769849	3351.594602
21590.07115	3352.242104	3356.534978	3360.827852	3349.042703	3364.027253	3354.038497	3359.031459
24943.93764	3361.601657	3366.08232	3370.562983	3358.262301	3373.90234	3363.476632	3368.688008
25954.29838	3364.421246	3368.958481	3373.495716	3361.039728	3376.877234	3366.319894	3371.597068
27400.61512	3368.457447	3373.075664	3377.693881	3365.015574	3381.135753	3370.389983	3375.761345
31047.22454	3378.633951	3383.456348	3388.278745	3375.039906	3391.872789	3380.651928	3386.260768
31824.48381	3380.803029	3385.668946	3390.534863	3377.17655	3394.161342	3382.839218	3388.498675
34577.46236	3388.485699	3393.50576	3398.525821	3384.744339	3402.267181	3390.586391	3396.42513
34755.25806	3388.981869	3394.011885	3399.041902	3385.23309	3402.790681	3391.086726	3396.937044
35325.54714	3390.573361	3395.635309	3400.697256	3386.800784	3404.469833	3392.69158	3398.579037
38710.39376	3400.01937	3405.270841	3410.522312	3396.105544	3414.436138	3402.216897	3408.324785
46701.5188	3422.320007	3428.018915	3433.717824	3418.072715	3437.965116	3424.704768	3431.333062
52344.25521	3438.067054	3444.081909	3450.096764	3433.584292	3454.579525	3440.584026	3447.579792
53435.69619	3441.112911	3447.188878	3453.264845	3436.584604	3457.793152	3443.655456	3450.7223
53547.79398	3441.42574	3447.507983	3453.590227	3436.892755	3458.123211	3443.970911	3451.045055
63062.33881	3467.977747	3474.592727	3481.207707	3463.047724	3486.13773	3470.745847	3478.439607
63085.2991	3468.041822	3474.658087	3481.274352	3463.110841	3486.205334	3470.81046	3478.505715
64244.24417	3471.276062	3477.957218	3484.638375	3466.296718	3489.617719	3474.071854	3481.842583
69484.64699	3485.900326	3492.874902	3499.849478	3480.702302	3505.047501	3488.818902	3496.930901
69589.70086	3486.193497	3493.173955	3500.154413	3480.99109	3505.356821	3489.114535	3497.233375
74562.73994	3500.071636	3507.330543	3514.58945	3494.661705	3519.999381	3503.109193	3511.551893
79932.11643	3515.055824	3522.615372	3530.17492	3509.421831	3535.808912	3518.219187	3527.011556
95701.77892	3559.063835	3567.506354	3575.948874	3552.77178	3582.240929	3562.596686	3572.416023
97642.17185	3564.478842	3573.030008	3581.581173	3558.105816	3587.9542	3568.057157	3578.002858
145000	3696.639176	3707.841989	3719.044803	3688.289924	3727.394054	3701.327098	3714.356881



APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)

SUMMARY OUTPUT

2006

<i>Regression Statistics</i>	
Multiple R	0.998565453
R Square	0.997132964
Adjusted R Square	0.996973685
Standard Error	4.643686215
Observations	20

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	134995.1627	134995.1627	6260.261508	2.43071E-24
Residual	18	388.1487899	21.56382166		
Total	19	135383.3115			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 75.0%</i>	<i>Upper 75.0%</i>	<i>Lower 50.0%</i>	<i>Upper 50.0%</i>
Intercept	3296.903829	2.017097777	1634.478937	5.30731E-48	3292.666064	3301.141594	3294.506082	3299.301576	3295.515332	3298.292326
X Variable 1	0.002856628	3.61042E-05	79.12181436	2.43071E-24	0.002780776	0.00293248	0.00281371	0.002899545	0.002831775	0.002881481

RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>	<i>Standard Residuals</i>
1	3321.159089	2.010910671	0.444908252
2	3346.904012	1.295988177	0.286733689
3	3351.200145	-1.270145365	-0.28101604
4	3358.578625	4.921374867	1.088840156
5	3368.159373	-1.959373168	-0.433505726
6	3371.045598	-12.82559767	-2.837626914
7	3387.814532	-6.344532168	-1.403709651
8	3395.678767	-4.138767035	-0.915690405
9	3396.186663	1.813336845	0.401195606
10	3397.815767	1.684233238	0.372631801
11	3407.485013	1.11498651	0.246687586
12	3449.549721	5.12027925	1.132847184
13	3449.869942	6.450057574	1.427056846
14	3477.049455	-0.74945502	-0.165814786
15	3477.115044	4.984955975	1.102907295
16	3480.425719	0.244281329	0.054046547
17	3495.695698	2.304301534	0.509820144
18	3509.90182	1.09818017	0.242969231
19	3570.288185	-0.988184784	-0.218633066
20	3662.66831	-4.766830927	-1.05464775

PROBABILITY OUTPUT

<i>Percentile</i>	<i>Y</i>
2.5	3323.17
7.5	3348.2
12.5	3349.93
17.5	3358.22
22.5	3363.5
27.5	3366.2
32.5	3381.47
37.5	3391.54
42.5	3398
47.5	3399.5
52.5	3408.6
57.5	3454.67
62.5	3456.32
67.5	3476.3
72.5	3480.67
77.5	3482.1
82.5	3498
87.5	3511
92.5	3569.3
97.5	3657.9

	<i>FHA Best Fit</i>	<i>FHA Lower 75%</i>	<i>FHA Upper 75%</i>	<i>FHA Lower 95%</i>	<i>FHA Upper 95%</i>	<i>FHA Lower 50%</i>	<i>FHA Upper 50%</i>
8490.871911	3321.159089	3318.396936	3323.921243	3316.277274	3326.040905	3319.55957	3322.758608

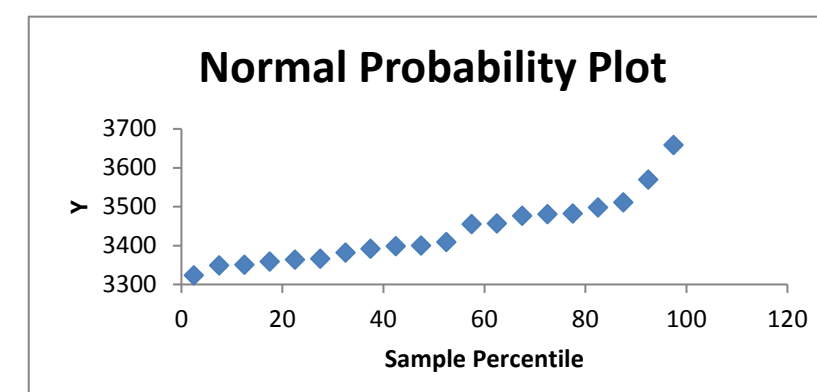
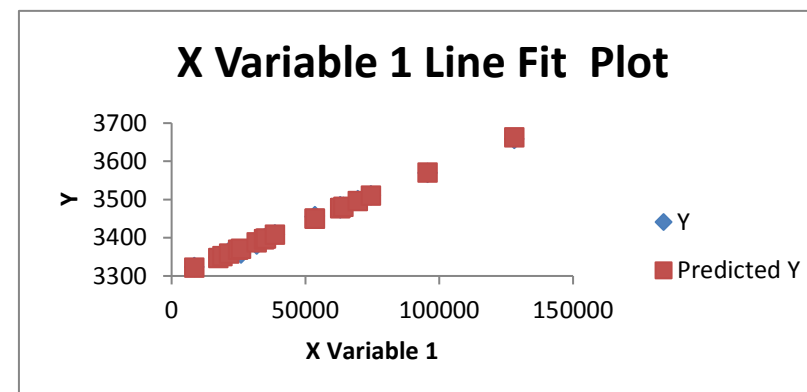
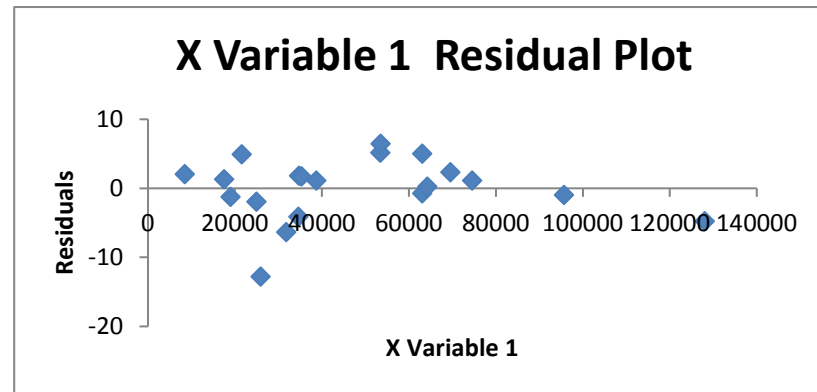


APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)

SUMMARY OUTPUT

2006

17503.21965	3346.904012	3343.755071	3350.052953	3341.338591	3352.469432	3345.080511	3348.727513
19007.13754	3351.200145	3347.98666	3354.41363	3345.52065	3356.879641	3349.339268	3353.061023
21590.07115	3358.578625	3355.254287	3361.902963	3352.703209	3364.454042	3356.653554	3360.503696
24943.93764	3368.159373	3364.691096	3371.627651	3362.029559	3374.289187	3366.150949	3370.167797
25954.29838	3371.045598	3367.533958	3374.557237	3364.839146	3377.25205	3369.012063	3373.079132
31824.48381	3387.814532	3384.050959	3391.578105	3381.162815	3394.46625	3385.635107	3389.993957
34577.46236	3395.678767	3391.797043	3399.560491	3388.81823	3402.539304	3393.430923	3397.926611
34755.25806	3396.186663	3392.297309	3400.076017	3389.31264	3403.060686	3393.9344	3398.438926
35325.54714	3397.815767	3393.901937	3401.729596	3390.898486	3404.733047	3395.549331	3400.082203
38710.39376	3407.485013	3403.425915	3411.544112	3400.310985	3414.659042	3405.134454	3409.835573
53435.69619	3449.549721	3444.85865	3454.240792	3441.258748	3457.840693	3446.833197	3452.266245
53547.79398	3449.869942	3445.174061	3454.565824	3441.570467	3458.169418	3447.150632	3452.589252
63062.33881	3477.049455	3471.945233	3482.153677	3468.028282	3486.070628	3474.093682	3480.005228
63085.2991	3477.115044	3472.009837	3482.220251	3468.092129	3486.137959	3474.1587	3480.071388
64244.24417	3480.425719	3475.270773	3485.580665	3471.314896	3489.536542	3477.440572	3483.410866
69589.70086	3495.695698	3490.311339	3501.080058	3486.179412	3505.211985	3492.577702	3498.813695
74562.73994	3509.90182	3504.30403	3515.499609	3500.008318	3519.795322	3506.660229	3513.14341
95701.77892	3570.288185	3563.783162	3576.793208	3558.791243	3581.785126	3566.52123	3574.05514
145000	3711.11485	3702.494073	3719.735627	3695.878537	3726.351163	3706.122696	3716.107004



APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)

SUMMARY OUTPUT

1968

<i>Regression Statistics</i>	
Multiple R	0.998047796
R Square	0.996099404
Adjusted R Square	0.995709344
Standard Error	7.08872262
Observations	12

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	128323.9243	128323.9243	2553.710527	2.22568E-13
Residual	10	502.4998838	50.24998838		
Total	11	128826.4242			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 75.0%</i>	<i>Upper 75.0%</i>	<i>Lower 50.0%</i>	<i>Upper 50.0%</i>
Intercept	3295.994369	3.70637352	889.2774436	7.95614E-26	3287.736054	3304.252684	3291.46794	3300.520797	3293.400604	3298.588134
X Variable 1	0.00289301	5.72485E-05	50.53425102	2.22568E-13	0.002765452	0.003020567	0.002823095	0.002962925	0.002852947	0.002933073

RESIDUAL OUTPUT

<i>Observation</i>	<i>Predicted Y</i>	<i>Residuals</i>	<i>Standard Residuals</i>
1	3320.558544	7.34145603	1.086201909
2	3332.091698	3.40830193	0.504273818
3	3358.454655	4.645345023	0.687299987
4	3375.264615	0.335384713	0.049621698
5	3397.434874	-9.934874428	-1.469909991
6	3408.03877	0.76123048	0.112627522
7	3446.611294	2.988705599	0.442192627
8	3478.434329	-12.28432934	-1.817522563
9	3497.014129	-4.41412949	-0.653090594
10	3572.860548	-2.510547552	-0.371446963
11	3577.137343	-1.637343001	-0.242252366
12	3661.9992	11.30080003	1.672004916

PROBABILITY OUTPUT

<i>Percentile</i>	<i>Y</i>
4.166666667	3327.9
12.5	3335.5
20.83333333	3363.1
29.16666667	3375.6
37.5	3387.5
45.83333333	3408.8
54.16666667	3449.6
62.5	3466.15
70.83333333	3492.6
79.16666667	3570.35
87.5	3575.5
95.83333333	3673.3

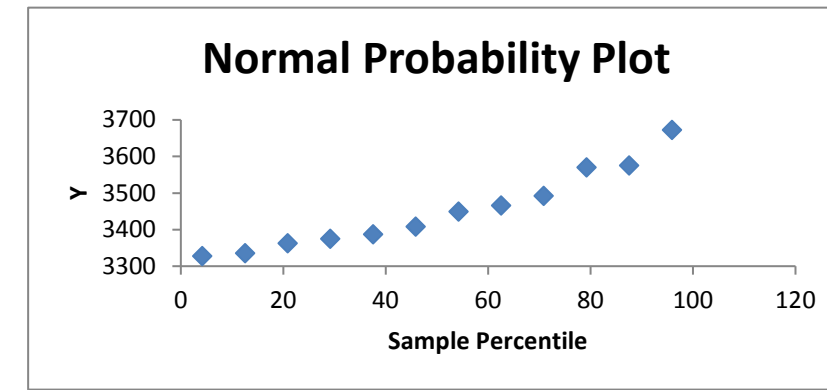
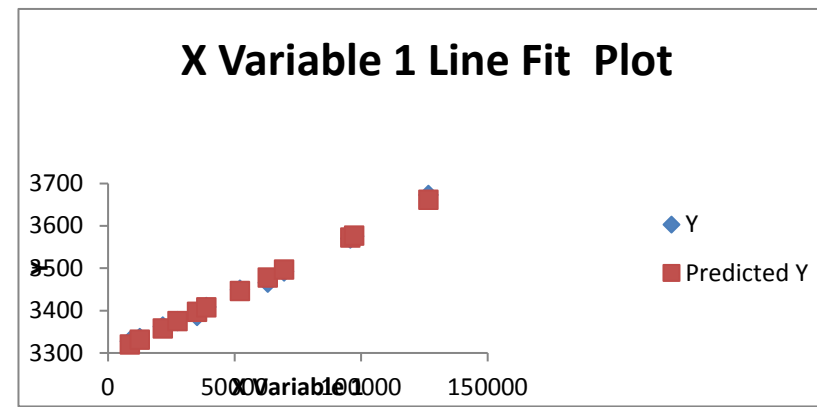
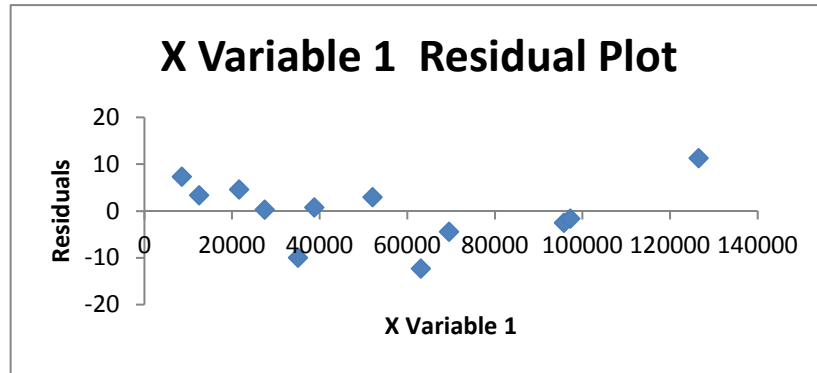
	<i>FHA Lower 75%</i>	<i>FHA Best Fit</i>	<i>FHA Upper 75%</i>	<i>FHA Lower 95%</i>	<i>FHA Upper 95%</i>	<i>FHA Lower 50%</i>	<i>FHA Upper 50%</i>
8490.871911	3315.438476	3320.558544	3325.678612	3311.217154	3329.899934	3317.624608	3323.49248
12477.43094	3326.692909	3332.091698	3337.490487	3322.241792	3341.941604	3328.998048	3335.185349
21590.07115	3352.418756	3358.454655	3364.490554	3347.442363	3369.466947	3354.995923	3361.913387
27400.61512	3368.822472	3375.264615	3381.706759	3363.511144	3387.018087	3371.573094	3378.956136
35064.00415	3390.456945	3397.434874	3404.412804	3384.70388	3410.165869	3393.436334	3401.433415
38729.35479	3400.804577	3408.03877	3415.272962	3394.840231	3421.237308	3403.893383	3412.184156
52062.36377	3438.444924	3446.611294	3454.777665	3431.71203	3461.510559	3441.931745	3451.290843
63062.33881	3469.498895	3478.434329	3487.369763	3462.131934	3494.736724	3473.314086	3483.554572
69484.64699	3487.62968	3497.014129	3506.398579	3479.89252	3514.135739	3491.636588	3502.391671



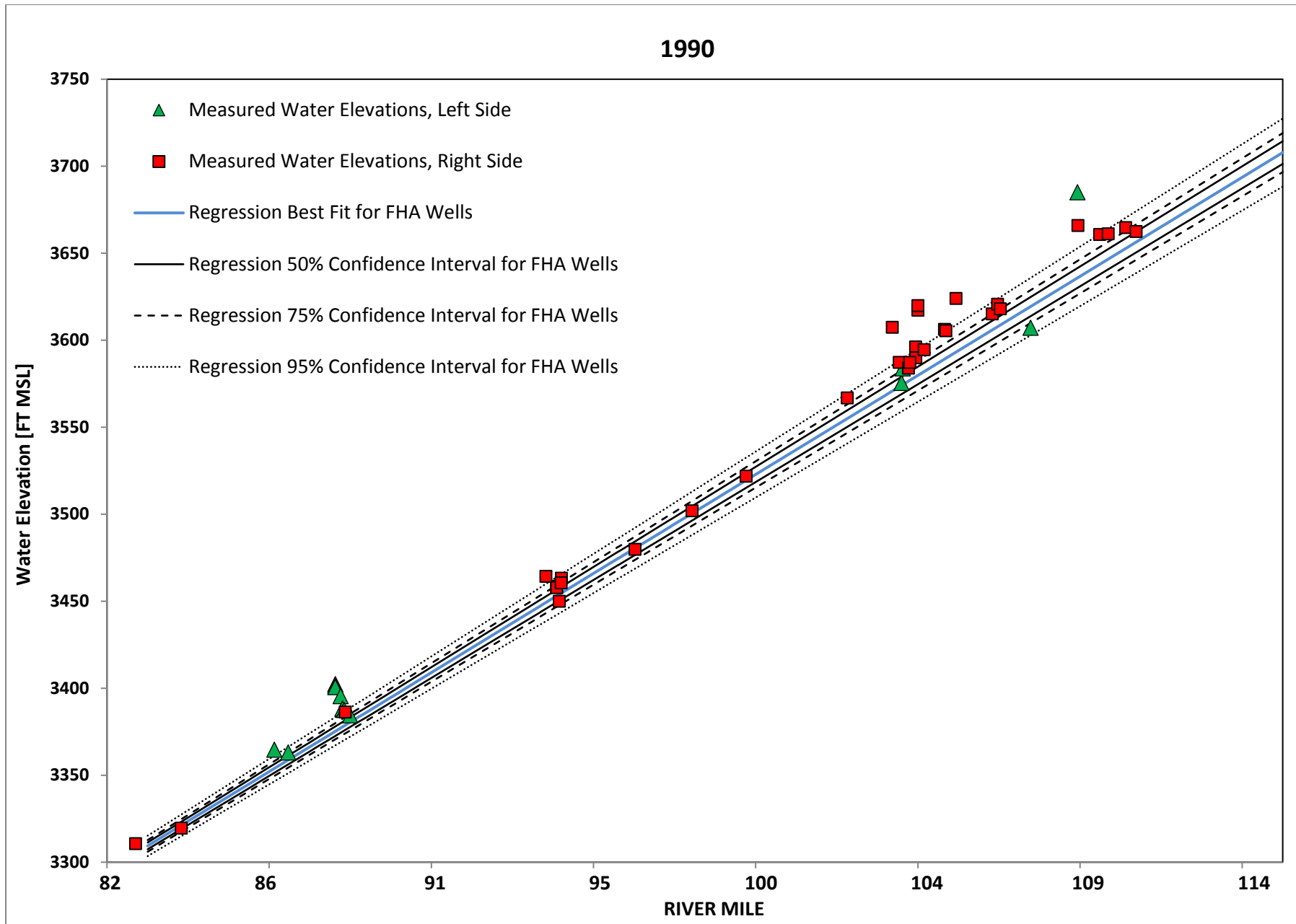
APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)

SUMMARY OUTPUT

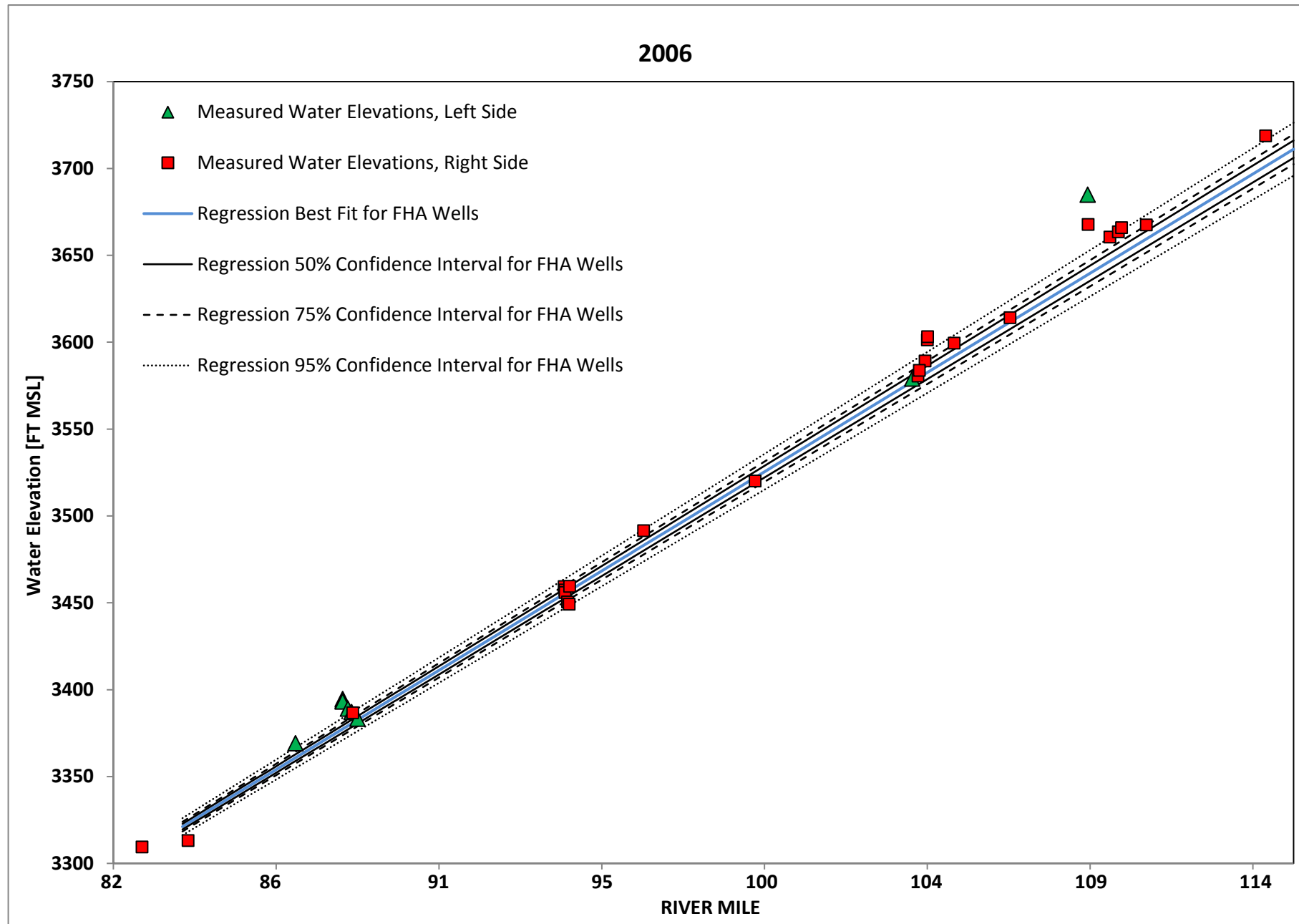
	1968						
	95701.77892	3561.643126	3572.860548	3584.077969	3552.394744	3593.326351	3566.432664
	97180.09936	3565.816565	3577.137343	3588.458121	3556.482969	3597.791717	3570.650234
	145000	3700.816673	3715.480781	3730.14489	3688.726616	3742.234947	3707.077855
							3723.883708



APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
(RM 82-114)



APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
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APPENDIX F: 2014 WATER LEVEL REGRESSION ANALYSIS SAN PEDRO RIVER
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