2. PROGRAM STATUS

2.3. DATA QUALITY

TOC Elevation

12/6/16 to 12/8/16	2/21/17 to 2/23/17	3/28/17 to 3/30/17	5/2/17 to 5/4/17	6/20/17 to 6/21/17	7/25/17 to 7/26/17	8/29/17 to 8/30/17	10/10/17 to 10/11/17	8/17 to

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
SRH Pond

	12/7/16	2/22/17	3/28/17	5/3/17	6/20/17	7/25/17	8/29/17	10/10/17	4/4/18	10/30/18	4/9/19	10/22/19
	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Event 10	Event 11	Event 12
	Dec 2016	Feb 2017	Mar 2017	May 2017	Jun 2017	Jul 2017	Aug 2017	Oct 2017	Apr 2018	Oct 2018	Apr 2019	Oct 2019
Appendix III - Detection Monitoring												

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
SRH Pond

Constituents	Unit
Appendix III - Detection Monitoring	
Boron	mg/L
Calcium	mg/L
Chloride	mg/L
Fluoride	mg/L
Sulfate	mg/L
pH - Field Collected	SU

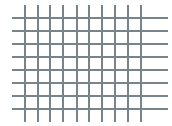
TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
SRH Pond

Constituents	Unit
Appendix III - Detection Monitoring	

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
SRH Pond

Figures

DESIGN:	DRAWN:	CHKD.:
DATE:	SCALE:	REVISION:



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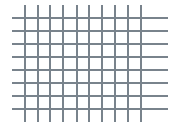


Laboratory Data Packages

Appendix A

(*Data Packages Available Upon Request***)**

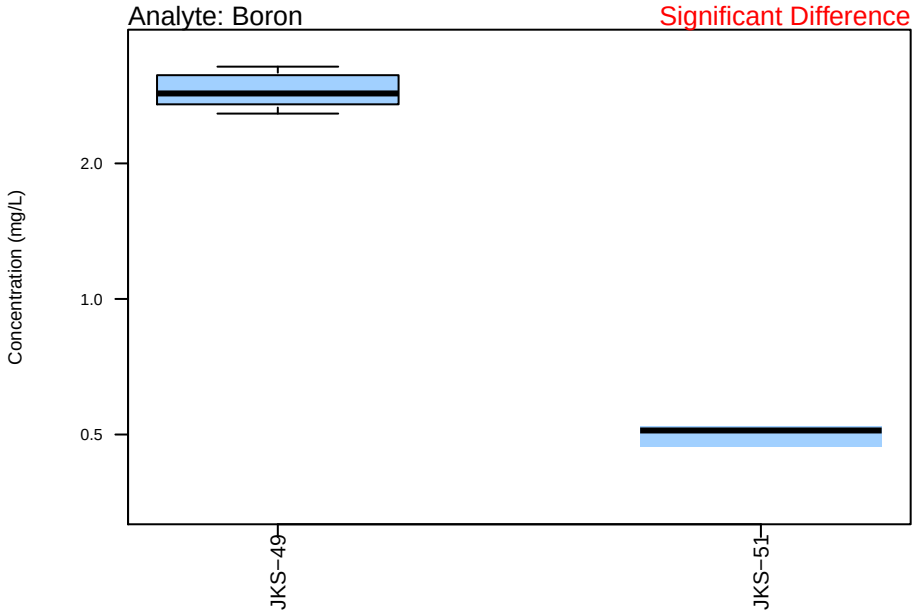
N

Analyte	UPL Type	Well	N	Num Detects	Percent Detect	p-value	tau	Conclusion
Boron	Intrawell	JKS-49	12	12	100%	<0.001	-0.779	Decreasing Trend
Boron	Intrawell	JKS-51	12	12	100%	0.45	-0.168	Stable, No Trend
Calcium	Intrawell	JKS-49	12	12	100%	0.945	-0.0153	Stable, No Trend
Calcium	Intrawell	JKS-51	12	12	100%	0.638	-0.121	Stable, No Trend
Chloride	Interwell	JKS-49, JKS-51	24	24	100%	0.0114	0.371	Increasing Trend
Fluoride	Intrawell	JKS-49	12	12	100%	0.311	0.242	Stable, No Trend
Fluoride	Intrawell	JKS-51	12	11	92%	0.947	-0.0303	Stable, No Trend
pH	Intrawell	JKS-49	12	12	100%	0.484	-0.159	Stable, No Trend
pH	Intrawell	JKS-51	12	12	100%	0.459	-0.182	Stable, No Trend
Sulfate	Intrawell	JKS-49	12	12	100%	0.243	0.26	Stable, No Trend
Sulfate	Intrawell	JKS-51	12	12	100%	0.45	0.168	Stable, No Trend
Total dissolved solids	Intrawell	JKS-49	12	12	100%	0.459	0.182	Stable, No Trend
Total dissolved solids	Intrawell	JKS-51	12	12	100%	0.836	-0.0465	Stable, No Trend

NOTES:

Non-detects were substituted with a value of zero for trend calculations
N: number of data points
tau: Kendall's tau statistic

Appendix B − Figure 1
Unit: SRH Pond
Boxplots of Upgradient Wells

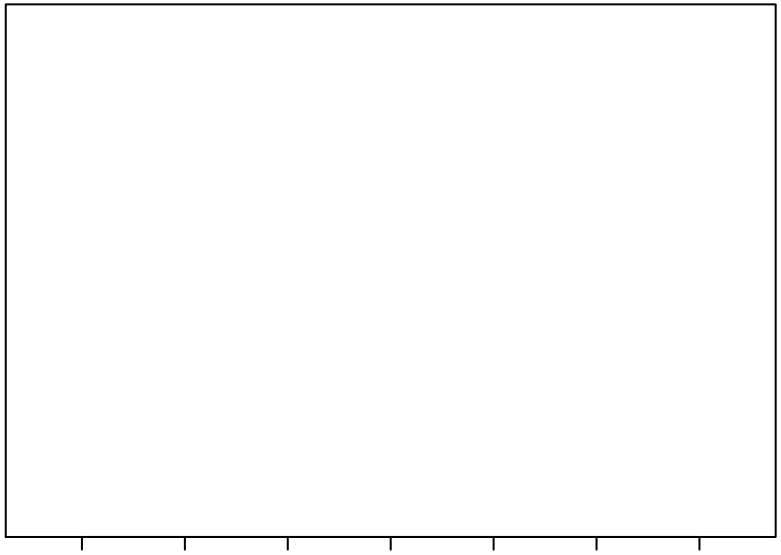


Appendix B − Figure 1

Appendix B − Figure 2
Unit: SRH Pond
QQ Plots of Upgradient Wells

Analyte: Boron
Wells: JKS−49

Intrawell Analysis
Normal Distribution



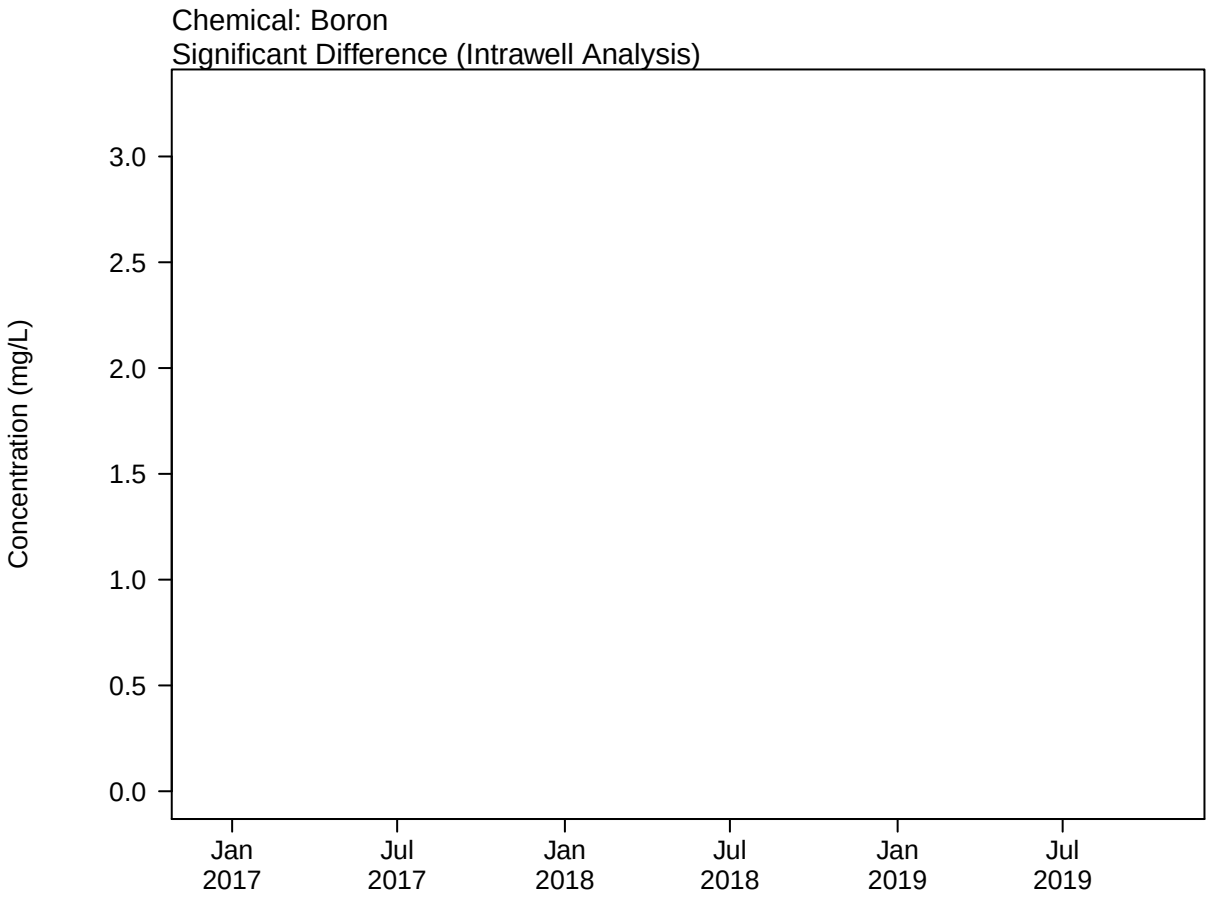
Normal Quantiles

Appendix B − Figu re2
Unit: SRH Bnd
QQ Plots of Upgradient Wells

Appendix B − Figure 2
Unit: SRH Pond

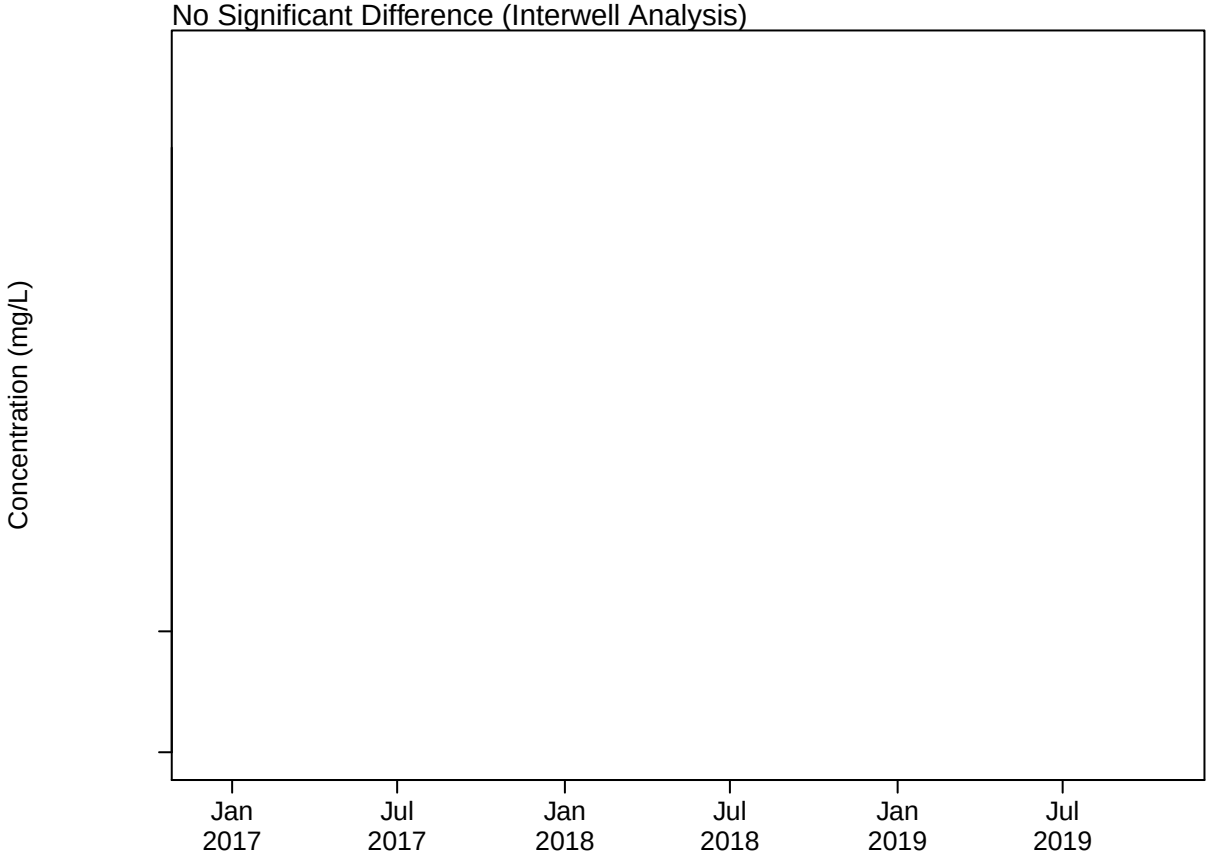
Appendix B − Figure 2
Unit: SRH Pond

Appendix B − Figure 3
Unit: SRH Pond
Timeseries of Upgradient Wells

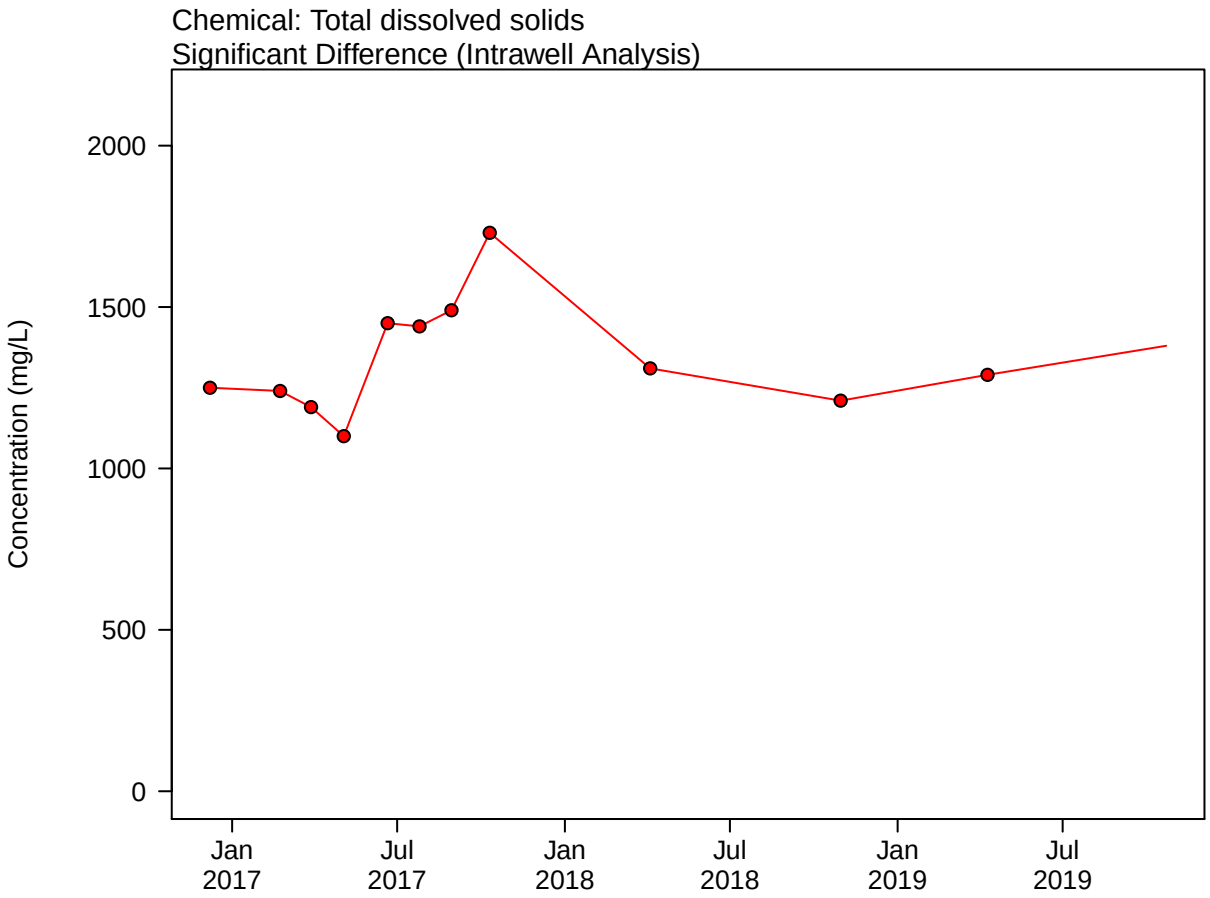


Appendix B − Figure 3
Unit: SRH Pond
Timeseries of Upgradient Wells

Chemical: Chloride
No Significant Difference (Interwell Analysis)



Appendix B − Figure 3
Unit: SRH Pond
Timeseries of Upgradient Wells



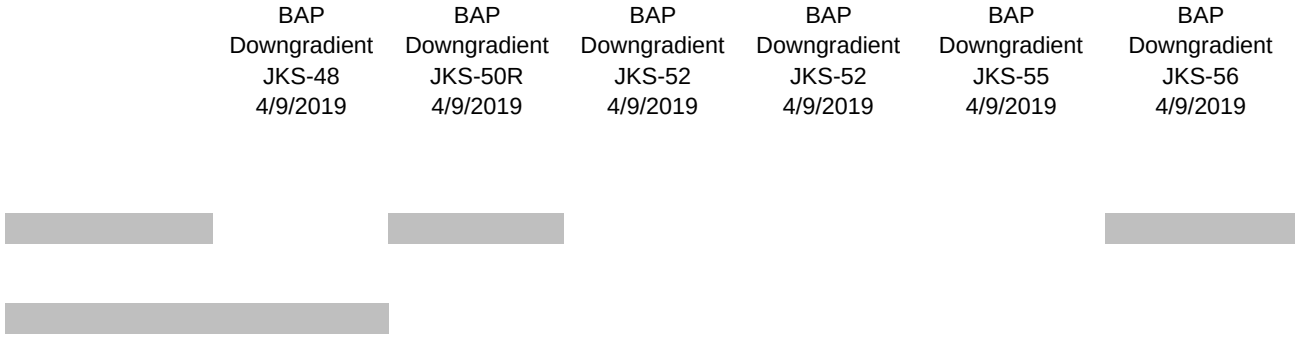
April 2019 Groundwater Sampling Event –

July 11, 2019
CPS Energy

BAPs – The constituents associated with potential SSIs include boron in JKS-50R and JKS-56 and fluoride in JKS-48. As previously presented in the *Written Demonstrations*, the concentrations of

Chemical	Units	2017-2018 LPL - EP	2017-2018 UPL - EP	EP Downgradient JKS-36 4/9/2019 N	EP Downgradient JKS-61 4/9/2019 N	EP Downgradient JKS-62 4/9/2019 N	EP Downgradient JKS-62 4/9/2019 FD
Boron	mg/L	--	1.33	0.663	2.72	0.612	0.554 X
Calcium	mg/L	--	1310	315 D	176	205 D	173 X

Chemical	Units	2017-2018 LPL - FAL	2017-2018 UPL - FAL	FAL Downgradient JKS-31 4/9/2019 N	FAL Downgradient JKS-33 4/9/2019 N	FAL Downgradient JKS-46 4/9/2019 N	FAL Downgradient JKS-60 4/9/2019 N	FAL Downgradient JKS-60 4/9/2019 FD


BAP
Downgradient
JKS-48
4/9/2019
BAP
Downgradient
JKS-50R
4/9/2019
BAP
Downgradient
JKS-52
4/9/2019
BAP
Downgradient
JKS-52
4/9/2019
BAP
Downgradient
JKS-55
4/9/2019
BAP
Downgradient
JKS-56
4/9/2019

SRH Pond Downgradient JKS-52 4/10/2019	SRH Pond Downgradient JKS-52 4/10/2019	SRH Pond Downgradient JKS-53 4/10/2019	SRH Pond Downgradient JKS-54 4/10/2019