-

2.2. SAMPLING SUMMARY

A summary of the total number of samples collected is

- The remaining six Appendix III analytes

Tables

TOC Elevation	**498.63**	**TOC Elevation**	**496.92**	**TOC Elevation**	**497.19**	**TOC Elevation**	**498.48**

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	4/4/18 to 4/5/18	10/30/18 to

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
Bottom Ash Ponds

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

TABLE 3
Groundwater Analytical Results Summary
CPM6nergy - Calaveras PowterStationy

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
Bottom Ash Ponds

Constituents	Unit
Boron	mg/L
Calcium	mg/L
Chloride	mg/L
Fluoride	mg/L
Sulfate	mg/L
pH - Field Collected	SU

Total dissolveuN1dents434.15.2 (mg/L)Tj/TT1 1 Tj0 723508 TAppendix (pHAssessmitu Mo (UFlungnds)Tj0TT1 1 Tj0 22.89D TAntimonyate1713270 (mg/L)Tj0 -1.508 TArsenicate)6045.2 (mg/L)TJ TBaralcium

Fluoride mg/Lmg/L03.0155423508NOTES:BLE 3.738]Tj3692.8925.7 : Mirylgrams ps PTiter.BLE 3**10/10/176-4726015(4/4/128l3818J12210/30/128l3871-1234/9/198l3818J12210/22/19 (ng/-682 3 Tj4312o7Evnsti1ulond80-6]Tj08 89Decf2/16Fn9j3 7Tj08 89Evnsti2ulond80 36Sow -87UFlung**

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
Bottom Ash Ponds

Constituents	Unit
Boron	mg/L
Calcium	mg/L

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
Bottom Ash Ponds

Constituents	Unit
Boron	mg/L
Calcium	mg/L
Chloride	mg/L
Fluoride	mg/L
Sulfate	mg/L
pH - Field Collected	SU
Total dissolved solids	mg/L
Appendix IV - Assessment Monitoring	
Antimony	mg/L
Arsenic	mg/L
Barium	mg/L
Beryllium	mg/L
Cadmium	mg/L
Chromium	mg/L
Cobalt	mg/L
Fluoride	mg/L
Lea-12604 (mg/L)]TJ T*[mg/L	mg/L
FMercury-123257. (mg/L)]TJ T*[BMolybdenm)-1202(mg (mg/L)]TJ T*[BSelnicm)-113769.5(mg/L)]TJ T*[BThamg/L)]To659.7 (mg/L)]TJ T*[Radmg/-226m)-1449.5pCig/L	

TABLE 3
Groundwater Analytical Results Summary
CPS Energy - Calaveras Power Station
Bottom Ash Ponds

Constituents	Unit
Boron	mg/L

Figures

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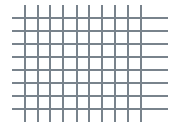
DATE:	SCALE:	REVISION:



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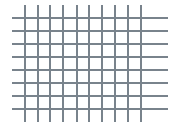


Laboratory Data Packages

Appendix A

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

Statistical Analysis Tables and Figures

Appendix B

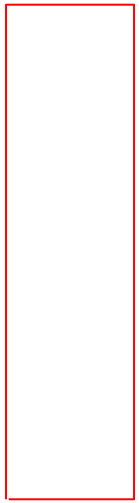
Analyte	N	Num Detects	Percent Detect	DF	KW Statistic	p-value	Conclusion	UPL Type
Boron	24	24	100.00%	1	17.3	<0.001	Significant Difference	Intrawell
Calcium	24	24	100.00%	1	16.3	<0.001	Significant Difference	Intrawell
Chloride	24	24	100.00%	1	0.0133	0.908	No Significant Difference	Interwell
Fluoride	24	23	95.83%	1	16.8	<0.001	Significant Difference	Intrawell
pH	24	24	100.00%	1	10.1	0.00146	Significant Difference	Intrawell
Sulfate	24	24	100.00%	1	16.8	<0.001	Significant Difference	Intrawell
Total dissolved solids	24	24	100.00%	1	6.62	0.0101	Significant Difference	Intrawell

NOTES:

Analyte	UPL Type	Well	N	Num Detects	Percent Detect	p-value	tau	Conclusion
Boron	Intrawell	JKS-49	12	12	100.00%	<0.001	-0.779	Decreasing Trend
Boron	Intrawell	JKS-51	12	12	100.00%	0.45	-0.168	Stable, No Trend
Calcium	Intrawell	JKS-49	12	12	100.00%	0.945	-0.0153	Stable, No Trend
Calcium	Intrawell	JKS-51	12	12	100.00%	0.638	-0.121	Stable, No Trend
Chloride	Interwell	JKS-49, JKS-51	24	24	100.00%	0.0114	0.371	Increasing Trend
Fluoride	Intrawell	JKS-49	12	12	100.00%	0.311	0.242	Stable, No Trend
Fluoride	Intrawell	JKS-51	12	11	91.67%	0.947	-0.0303	Stable, No Trend
pH	Intrawell	JKS-49	12	12	100.00%	0.484	-0.159	Stable, No Trend
pH	Intrawell	JKS-51	12	12	100.00%	0.459	-0.182	Stable, No Trend
Sulfate	Intrawell	JKS-49	12	12	100.00%	0.243	0.26	Stable, No Trend
Sulfate	Intrawell	JKS-51	12	12	100.00%	0.45	0.168	Stable, No Trend
Total dissolved solids	Intrawell	JKS-49	12	12	100.00%	0.459	0.182	Stable, No Trend
Total dissolved solids	Intrawell	JKS-51	12	12	100.00%	0.836	-0.0465	Stable, No Trend

NOTES:

Appendix B − Figure 1
Unit: Bottom Ash Ponds
Boxplots of Upgradient Wells



Apm8Hix B − Figu re2
Unit: Bottom Ash Ponds
QQ Plots of Upgradient Wells

Appendix B − Figure 2
Unit: Bottom Ash Ponds
QQ Plots of Upgradient Wells

Appendix B − Figure 3
Unit: Bottom Ash Ponds

Appendix B − Figure 3

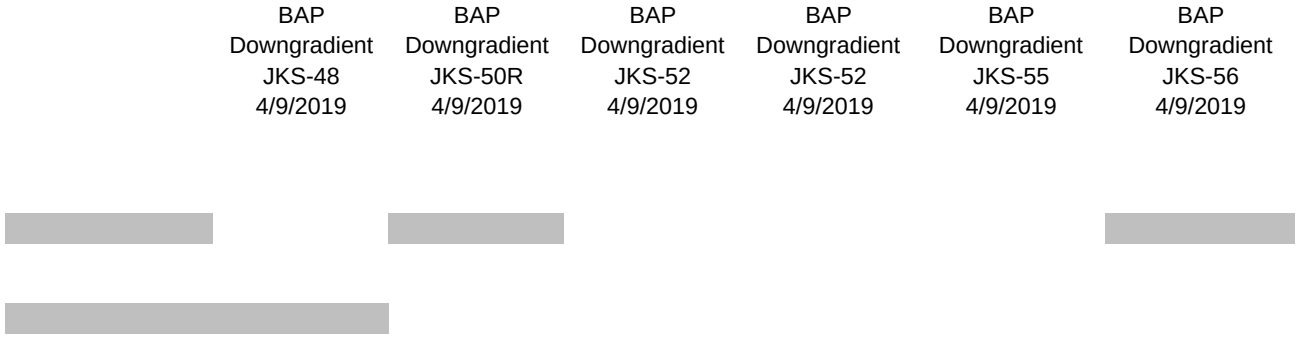
Appendix B − Figure 4
Unit: Bottom Ash Ponds
Trend Analysis of Downgradient Wells with Exceedances

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