



**A3H2323**

09/12/2013

Invoice  
A322195

Anne Littlejohn  
Central Valley RWQCB  
11020 Sun Center Drive, Suite 200  
Rancho Cordova, CA 95670

Dear Anne Littlejohn,

Thank you for selecting BSK Associates for your analytical testing needs. We have prepared this report in response to your request for analytical services. Enclosed are the results of analyses for samples received by the laboratory on 08/28/2013 08:30.

If additional clarification of any information is required, please contact your Client Services Representative, Stephane Maupas at (800) 877-8310 or (559) 497-2888.

BSK ASSOCIATES

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Stephane Maupas  
Project Manager

**Case Narrative**

**Work Order Information**

<b>Client Name:</b> Central Valley RWQCB	<b>Submitted by:</b> Calvin Yang
<b>Client Code:</b> centr4730	<b>Shipped by:</b> ONTRAC
<b>Work Order:</b> A3H2323	<b>COC Number:</b>
<b>Project:</b> Evaluation WQ in Ag Dominated Water Bodies	<b>TAT:</b> 10
<b>Client Project:</b> Evaluation WQ in Ag Dominated Water Bodies	<b>PO #:</b> 11-123-555

**Sample Receipt Conditions**

<b>Cooler:</b>	<b>Cooler #2</b>	<b>Temp. °C:</b>	1.8
Containers Intact			
COC/Labels Agree			
Received On Wet Ice			
Packing Material - Bubble Wrap			
Packing Material - Foam			
Sample(s) were received in temperature range.			
Initial receipt at BSK-SAC			

<b>Cooler:</b>	<b>Cooler #3</b>	<b>Temp. °C:</b>	0.7
Containers Intact			
COC/Labels Agree			
Received On Wet Ice			
Packing Material - Bubble Wrap			
Packing Material - Foam			
Sample(s) were received in temperature range.			
Initial receipt at BSK-SAC			

<b>Cooler:</b>	<b>Default Cooler</b>	<b>Temp. °C:</b>	2.8
Containers Intact			
COC/Labels Agree			
Received On Wet Ice			
Packing Material - Bubble Wrap			
Packing Material - Foam			
Sample(s) were received in temperature range.			
Initial receipt at BSK-SAC			

**Report Manager**

Calvin Yang  
 Anne Littlejohn

**Report Format**

Final.rpt  
 Final.rpt



**Certificate of Analysis**

Anne Littlejohn  
 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-01  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 06

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	ND	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	ND	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.090	0.22	mg/L	1	A309908	08/28/13 14:27	08/28/13 14:27	
Sulfate as SO4	EPA 300.0	ND	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	ND		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	ND	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	ND	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	ND	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	ND	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	ND		0.41	mg/L					
Magnesium	EPA 200.7	ND	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	ND	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Report Issue Date:** 09/12/2013 13:56  
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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-02  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 07

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>19</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	<b>0.31</b>	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.090	0.22	mg/L	1	A309908	08/28/13 14:49	08/28/13 14:49	
Sulfate as SO4	EPA 300.0	<b>38</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>390</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>9.5</b>	0.082	0.20	ug/L	2	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>7.4</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	<b>280</b>	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	<b>42</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>240</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>32</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>76</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-03  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 10

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	11	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	0.21	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	0.19	0.090	0.22	mg/L	1	A309908	08/28/13 14:56	08/28/13 14:56	J
Sulfate as SO4	EPA 300.0	17	0.38	2.0	mg/L	1	A310051	08/30/13	08/30/13	
Total Dissolved Solids	SM 2540C	270		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	4.5	0.082	0.20	ug/L	2	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	2.1	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	170	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	31	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	170		0.41	mg/L					
Magnesium	EPA 200.7	22	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	37	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Lab Sample ID:** A3H2323-04  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 11

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>19</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	<b>0.32</b>	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.090	0.22	mg/L	1	A309908	08/28/13 15:04	08/28/13 15:04	
Sulfate as SO4	EPA 300.0	<b>37</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>390</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>7.3</b>	0.082	0.20	ug/L	2	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>7.2</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	<b>260</b>	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	<b>41</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>230</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>30</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>72</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Lab Sample ID:** A3H2323-05  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Waste Water

**Sample Description:** AWL 130827 - 12

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>78</b>	0.89	2.0	mg/L	2	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	<b>0.34</b>	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	<b>26</b>	0.18	0.44	mg/L	2	A309908	08/28/13 15:11	08/28/13 15:11	
Sulfate as SO4	EPA 300.0	<b>38</b>	0.76	4.0	mg/L	2	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>560</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>1.6</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>1.5</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	<b>450</b>	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	<b>16</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>88</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>12</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>150</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-06  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 13

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>62</b>	2.2	5.0	mg/L	5	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	<b>0.52</b>	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.45	1.1	mg/L	5	A309908	08/28/13 15:18	08/28/13 15:18	DL01
Sulfate as SO4	EPA 300.0	<b>480</b>	1.9	10	mg/L	5	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>1300</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>17</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>12</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	<b>1100</b>	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	<b>87</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>450</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>58</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>300</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Report Issue Date:** 09/12/2013 13:56  
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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-07  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 14

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	28	0.89	2.0	mg/L	2	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	0.42	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.18	0.44	mg/L	2	A309908	08/28/13 15:30	08/28/13 15:30	DL01
Sulfate as SO4	EPA 300.0	42	0.76	4.0	mg/L	2	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	510		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	15	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	11	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	390	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	46	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	270		0.41	mg/L					
Magnesium	EPA 200.7	37	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	100	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Report Issue Date:** 09/12/2013 13:56  
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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-08  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 15

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>53</b>	0.89	2.0	mg/L	2	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	<b>0.39</b>	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	<b>11</b>	0.18	0.44	mg/L	2	A309908	08/28/13 15:37	08/28/13 15:37	
Sulfate as SO4	EPA 300.0	<b>94</b>	0.76	4.0	mg/L	2	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>630</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>13</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>9.2</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	<b>510</b>	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	<b>39</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>220</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>29</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>150</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Report Issue Date:** 09/12/2013 13:56  
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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-09  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 16

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	21	0.89	2.0	mg/L	2	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	0.33	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.18	0.44	mg/L	2	A309908	08/28/13 15:57	08/28/13 15:57	DL01
Sulfate as SO4	EPA 300.0	42	0.76	4.0	mg/L	2	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	460		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	10	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	7.0	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	340	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	44	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	250		0.41	mg/L					
Magnesium	EPA 200.7	34	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	83	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-10  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 17

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	21	0.89	2.0	mg/L	2	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	0.33	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	0.33	0.18	0.44	mg/L	2	A309908	08/28/13 16:19	08/28/13 16:19	DL01, J
Sulfate as SO4	EPA 300.0	40	0.76	4.0	mg/L	2	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	420		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	10	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	6.9	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	320	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	43	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	250		0.41	mg/L					
Magnesium	EPA 200.7	34	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	82	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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Anne Littlejohn  
 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-11  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 18

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>14</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Fluoride	EPA 300.0	<b>0.30</b>	0.015	0.10	mg/L	1	A310163	09/04/13	09/04/13	
Nitrate as N	EPA 300.0	ND	0.090	0.22	mg/L	1	A309908	08/28/13 16:41	08/28/13 16:41	
Sulfate as SO4	EPA 300.0	<b>19</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>290</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>4.3</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>2.4</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
*Boron	EPA 200.8	<b>210</b>	4.5	10	ug/L	1	A310036	08/30/13	09/10/13	
Calcium	EPA 200.7	<b>32</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>170</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>23</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>46</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-12  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 19

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>10</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	<b>0.18</b>	0.090	0.22	mg/L	1	A309908	08/28/13 16:48	08/28/13 16:48	J
Sulfate as SO4	EPA 300.0	<b>13</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>190</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>2.6</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>1.4</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	<b>25</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>120</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>15</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>34</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
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 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-13  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 20

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>6.8</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	<b>0.17</b>	0.090	0.22	mg/L	1	A309908	08/28/13 16:55	08/28/13 16:55	J
Sulfate as SO4	EPA 300.0	<b>16</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>220</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>2.9</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>1.9</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	<b>23</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>140</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>19</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>36</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
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**Received Time:** 08:30

**Lab Sample ID:** A3H2323-14  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 21

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>5.3</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	<b>0.17</b>	0.090	0.22	mg/L	1	A309908	08/28/13 17:17	08/28/13 17:17	J
Sulfate as SO4	EPA 300.0	<b>6.4</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>230</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>4.2</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>2.8</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	<b>34</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>200</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>28</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>20</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-15  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 22

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>4.4</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	<b>0.18</b>	0.090	0.22	mg/L	1	A309908	08/28/13 17:25	08/28/13 17:25	J
Sulfate as SO4	EPA 300.0	<b>7.0</b>	0.38	2.0	mg/L	1	A309969	08/29/13	08/29/13	
Total Dissolved Solids	SM 2540C	<b>210</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>3.2</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>2.0</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	<b>31</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>180</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>24</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>19</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-16  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 23

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>8.2</b>	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	<b>0.77</b>	0.090	0.22	mg/L	1	A309908	08/28/13 17:32	08/28/13 17:32	
Sulfate as SO4	EPA 300.0	<b>26</b>	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>240</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>2.9</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>1.4</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	<b>25</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	<b>150</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>22</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	<b>42</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-17  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 24

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	9.6	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	0.42	0.090	0.22	mg/L	1	A309908	08/28/13 17:39	08/28/13 17:39	
Sulfate as SO4	EPA 300.0	40	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	320		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	2.6	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	1.9	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	34	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	210		0.41	mg/L					
Magnesium	EPA 200.7	31	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	61	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-18  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Surface Water

**Sample Description:** AWL 130827 - 25

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	14	0.45	1.0	mg/L	1	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	2.0	0.090	0.22	mg/L	1	A309908	08/28/13 17:46	08/28/13 17:46	
Sulfate as SO4	EPA 300.0	44	0.38	2.0	mg/L	1	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	330		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	2.1	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	1.9	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	30	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Hardness as CaCO3	SM 2340B	190		0.41	mg/L					
Magnesium	EPA 200.7	28	0.046	0.10	mg/L	1	A310036	08/30/13	09/06/13	
Sodium	EPA 200.7	62	0.45	1.0	mg/L	1	A310036	08/30/13	09/06/13	



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Anne Littlejohn  
 Central Valley RWQCB  
 11020 Sun Center Drive, Suite 200  
 Rancho Cordova, CA 95670

**Report Issue Date:** 09/12/2013 13:56  
**Received Date:** 08/28/2013  
**Received Time:** 08:30

**Lab Sample ID:** A3H2323-19  
**Sample Date:** 08/27/2013 00:00  
**Sample Type:** Grab

**Client Project:** Evaluation WQ in Ag Dominated Water Bodies  
**Sampled by:** Calvin Yang  
**Matrix:** Waste Water

**Sample Description:** AWL 130827 - 26

**General Chemistry**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	<b>57</b>	0.89	2.0	mg/L	2	A309908	08/28/13	08/28/13	
Nitrate as N	EPA 300.0	<b>21</b>	0.18	0.44	mg/L	2	A309908	08/28/13 17:54	08/28/13 17:54	
Sulfate as SO4	EPA 300.0	<b>72</b>	0.76	4.0	mg/L	2	A309908	08/28/13	08/28/13	
Total Dissolved Solids	SM 2540C	<b>490</b>		5.0	mg/L	1	A310088	09/03/13	09/06/13	

**Metals**

Analyte	Method	Result	MDL	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
*Arsenic	EPA 200.8 DRC	<b>1.9</b>	0.041	0.10	ug/L	1	A310185	09/04/13	09/06/13	
*Arsenic - Dissolved (1)	EPA 200.8 DRC	<b>1.5</b>	0.045	0.10	ug/L	1	A310023	08/30/13	09/11/13	
Calcium	EPA 200.7	<b>23</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/05/13	
Hardness as CaCO3	SM 2340B	<b>160</b>		0.41	mg/L					
Magnesium	EPA 200.7	<b>26</b>	0.046	0.10	mg/L	1	A310036	08/30/13	09/05/13	
Sodium	EPA 200.7	<b>100</b>	0.45	1.0	mg/L	1	A310036	08/30/13	09/05/13	



### General Chemistry Quality Control Report

Analyte	Result	MDL	RL	Units	Spike	Source	%REC	RPD	Date
					Level	Result	%REC	Limits	RPD

**Batch: A309908**

Analyst: AJT

Prepared: 08/28/2013

**Blank (A309908-BLK1) EPA 300.0 - Quality Control**

Chloride	ND	0.45	1.0	mg/L						08/28/13
Nitrate as N	ND	0.090	0.22	mg/L						08/28/13
Sulfate as SO4	ND	0.38	2.0	mg/L						08/28/13

**Blank Spike (A309908-BS1) EPA 300.0 - Quality Control**

Chloride	50	0.45	1.0	mg/L	50		99	90-110		08/28/13
Nitrate as N	11	0.090	0.22	mg/L	11		99	90-110		08/28/13
Sulfate as SO4	49	0.38	2.0	mg/L	50		99	90-110		08/28/13

**Blank Spike Dup (A309908-BSD1) EPA 300.0 - Quality Control**

Chloride	50	0.45	1.0	mg/L	50		99	90-110	0	20	08/28/13
Nitrate as N	11	0.090	0.22	mg/L	11		99	90-110	0	20	08/28/13
Sulfate as SO4	50	0.38	2.0	mg/L	50		99	90-110	0	20	08/28/13

**Matrix Spike (A309908-MS1) EPA 300.0 - Quality Control**

**Source: A3H2323-01**

Chloride	97	0.89	2.0	mg/L	100	ND	97	80-120			08/28/13
Nitrate as N	22	0.18	0.44	mg/L	23	ND	97	80-120			08/28/13
Sulfate as SO4	97	0.76	4.0	mg/L	100	ND	97	80-120			08/28/13

**Matrix Spike (A309908-MS2) EPA 300.0 - Quality Control**

**Source: A3H2323-13**

Chloride	110	0.89	2.0	mg/L	100	6.8	99	80-120			08/28/13
Nitrate as N	22	0.18	0.44	mg/L	23	0.17	98	80-120			08/28/13
Sulfate as SO4	110	0.76	4.0	mg/L	100	16	97	80-120			08/28/13

**Matrix Spike Dup (A309908-MSD1) EPA 300.0 - Quality Control**

**Source: A3H2323-01**

Chloride	97	0.89	2.0	mg/L	100	ND	97	80-120	1	20	08/28/13
Nitrate as N	22	0.18	0.44	mg/L	23	ND	97	80-120	0	20	08/28/13
Sulfate as SO4	98	0.76	4.0	mg/L	100	ND	98	80-120	1	20	08/28/13

**Matrix Spike Dup (A309908-MSD2) EPA 300.0 - Quality Control**

**Source: A3H2323-13**

Chloride	110	0.89	2.0	mg/L	100	6.8	100	80-120	1	20	08/28/13
Nitrate as N	23	0.18	0.44	mg/L	23	0.17	99	80-120	1	20	08/28/13
Sulfate as SO4	120	0.76	4.0	mg/L	100	16	100	80-120	3	20	08/28/13

**Batch: A309969**

Analyst: AJT

Prepared: 08/29/2013

**Blank (A309969-BLK1) EPA 300.0 - Quality Control**

Sulfate as SO4	ND	0.38	2.0	mg/L						08/29/13
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**Blank Spike (A309969-BS1) EPA 300.0 - Quality Control**

Sulfate as SO4	51	0.38	2.0	mg/L	50		103	90-110			08/29/13
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**Blank Spike Dup (A309969-BSD1) EPA 300.0 - Quality Control**

Sulfate as SO4	51	0.38	2.0	mg/L	50		103	90-110	0	20	08/29/13
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**Matrix Spike (A309969-MS1) EPA 300.0 - Quality Control**

**Source: A3H2373-01**

Sulfate as SO4	100	0.76	4.0	mg/L	100	0.66	100	80-120			08/29/13
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A3H2323 FINAL 09122013 1356



### General Chemistry Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
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**Batch: A309969**

Analyst: AJT

Prepared: 08/29/2013

**Matrix Spike (A309969-MS2) EPA 300.0 - Quality Control** **Source: A3H2404-04**

Sulfate as SO4	100	0.76	4.0	mg/L	100	0.86	100	80-120			08/29/13	
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**Matrix Spike Dup (A309969-MSD1) EPA 300.0 - Quality Control** **Source: A3H2373-01**

Sulfate as SO4	100	0.76	4.0	mg/L	100	0.66	101	80-120	0	20	08/29/13	
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**Matrix Spike Dup (A309969-MSD2) EPA 300.0 - Quality Control** **Source: A3H2404-04**

Sulfate as SO4	100	0.76	4.0	mg/L	100	0.86	100	80-120	0	20	08/29/13	
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**Batch: A310051**

Analyst: AJT

Prepared: 08/30/2013

**Blank (A310051-BLK1) EPA 300.0 - Quality Control**

Sulfate as SO4	ND	0.38	2.0	mg/L							08/30/13	
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**Blank Spike (A310051-BS1) EPA 300.0 - Quality Control**

Sulfate as SO4	50	0.38	2.0	mg/L	50		100	90-110			08/30/13	
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**Blank Spike Dup (A310051-BSD1) EPA 300.0 - Quality Control**

Sulfate as SO4	51	0.38	2.0	mg/L	50		101	90-110	1	20	08/30/13	
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**Matrix Spike (A310051-MS1) EPA 300.0 - Quality Control** **Source: A3H2487-03**

Sulfate as SO4	190	0.76	4.0	mg/L	100	91	101	80-120			08/30/13	
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**Matrix Spike (A310051-MS2) EPA 300.0 - Quality Control** **Source: A3H2498-06**

Sulfate as SO4	150	0.76	4.0	mg/L	100	54	100	80-120			08/30/13	
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**Matrix Spike Dup (A310051-MSD1) EPA 300.0 - Quality Control** **Source: A3H2487-03**

Sulfate as SO4	190	0.76	4.0	mg/L	100	91	102	80-120	0	20	08/30/13	
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**Matrix Spike Dup (A310051-MSD2) EPA 300.0 - Quality Control** **Source: A3H2498-06**

Sulfate as SO4	160	0.76	4.0	mg/L	100	54	101	80-120	1	20	08/30/13	
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**Batch: A310088**

Analyst: DEH

Prepared: 09/03/2013

**Blank (A310088-BLK1) SM 2540C - Quality Control**

Total Dissolved Solids	ND		5.0	mg/L							09/06/13	
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**Blank Spike (A310088-BS1) SM 2540C - Quality Control**

Total Dissolved Solids	1000		5.0	mg/L	1000		100	70-130			09/06/13	
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**Duplicate (A310088-DUP1) SM 2540C - Quality Control** **Source: A3H2323-02**

Total Dissolved Solids	400		5.0	mg/L		390			2	20	09/06/13	
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**Batch: A310163**

Analyst: AJT

Prepared: 09/04/2013

**Blank (A310163-BLK1) EPA 300.0 - Quality Control**

Fluoride	ND	0.015	0.10	mg/L							09/04/13	
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**Blank Spike (A310163-BS1) EPA 300.0 - Quality Control**

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1414 Stanislaus Street

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(559) 497-2888

FAX (559) 485-6935

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**General Chemistry Quality Control Report**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Date Analyzed	Qual
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Batch: A310163

Analyst: AJT

Prepared: 09/04/2013

**Blank Spike (A310163-BS1) EPA 300.0 - Quality Control**

Fluoride	0.51	0.015	0.10	mg/L	0.50		101	90-110			09/04/13	
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**Blank Spike Dup (A310163-BSD1) EPA 300.0 - Quality Control**

Fluoride	0.51	0.015	0.10	mg/L	0.50		102	90-110	0	10	09/04/13	
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**Matrix Spike (A310163-MS1) EPA 300.0 - Quality Control**

Source: A3H2323-04

Fluoride	1.5	0.031	0.20	mg/L	1.0	0.32	114	80-120			09/04/13	
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**Matrix Spike (A310163-MS2) EPA 300.0 - Quality Control**

Source: A3H2376-03

Fluoride	1.2	0.031	0.20	mg/L	1.0	0.20	97	80-120			09/04/13	
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**Matrix Spike Dup (A310163-MSD1) EPA 300.0 - Quality Control**

Source: A3H2323-04

Fluoride	1.5	0.031	0.20	mg/L	1.0	0.32	116	80-120	2	10	09/04/13	
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**Matrix Spike Dup (A310163-MSD2) EPA 300.0 - Quality Control**

Source: A3H2376-03

Fluoride	1.2	0.031	0.20	mg/L	1.0	0.20	98	80-120	1	10	09/04/13	
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### Metals Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
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**Batch: A310023**

Analyst: PSK

Prepared: 08/30/2013

**Blank (A310023-BLK1) EPA 200.8 DRC - Quality Control**

Arsenic - Dissolved (1)	ND	0.045	0.10	ug/L							09/11/13	
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**Blank Spike (A310023-BS1) EPA 200.8 DRC - Quality Control**

Arsenic - Dissolved (1)	170	0.18	0.40	ug/L	200		87	85-115			09/11/13	
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**Blank Spike Dup (A310023-BSD1) EPA 200.8 DRC - Quality Control**

Arsenic - Dissolved (1)	170	0.18	0.40	ug/L	200		86	85-115	1	20	09/11/13	
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**Matrix Spike (A310023-MS1) EPA 200.8 DRC - Quality Control**

**Source: A3H2323-01**

Arsenic - Dissolved (1)	180	0.045	0.10	ug/L	200	ND	88	70-130			09/11/13	
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**Matrix Spike (A310023-MS2) EPA 200.8 DRC - Quality Control**

**Source: A3H2323-19**

Arsenic - Dissolved (1)	170	0.045	0.10	ug/L	200	1.5	83	70-130			09/11/13	
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**Matrix Spike Dup (A310023-MSD1) EPA 200.8 DRC - Quality Control**

**Source: A3H2323-01**

Arsenic - Dissolved (1)	170	0.045	0.10	ug/L	200	ND	86	70-130	3	20	09/11/13	
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**Matrix Spike Dup (A310023-MSD2) EPA 200.8 DRC - Quality Control**

**Source: A3H2323-19**

Arsenic - Dissolved (1)	170	0.045	0.10	ug/L	200	1.5	84	70-130	1	20	09/11/13	
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**Batch: A310036**

Analyst: NRE

Prepared: 08/30/2013

**Blank (A310036-BLK2) EPA 200.7 - Quality Control**

Calcium	ND	0.046	0.10	mg/L							09/05/13	
Magnesium	ND	0.046	0.10	mg/L							09/05/13	
Sodium	ND	0.45	1.0	mg/L							09/05/13	

**Blank Spike (A310036-BS2) EPA 200.7 - Quality Control**

Calcium	10	0.046	0.10	mg/L	10		100	85-115			09/05/13	
Magnesium	9.8	0.046	0.10	mg/L	10		98	85-115			09/05/13	
Sodium	10	0.45	1.0	mg/L	10		102	85-115			09/05/13	

**Blank Spike Dup (A310036-BSD2) EPA 200.7 - Quality Control**

Calcium	9.9	0.046	0.10	mg/L	10		99	85-115	2	20	09/05/13	
Magnesium	9.7	0.046	0.10	mg/L	10		97	85-115	2	20	09/05/13	
Sodium	10	0.45	1.0	mg/L	10		100	85-115	2	20	09/05/13	

**Matrix Spike (A310036-MS3) EPA 200.7 - Quality Control**

**Source: A3H2306-02**

Calcium	74	0.046	0.10	mg/L	10	64	95	70-130			09/05/13	
Magnesium	32	0.046	0.10	mg/L	10	23	97	70-130			09/05/13	
Sodium	28	0.45	1.0	mg/L	10	18	100	70-130			09/05/13	

**Matrix Spike (A310036-MS4) EPA 200.7 - Quality Control**

**Source: A3H2323-10**

Calcium	53	0.046	0.10	mg/L	10	43	94	70-130			09/06/13	
Magnesium	43	0.046	0.10	mg/L	10	34	95	70-130			09/06/13	
Sodium	91	0.45	1.0	mg/L	10	82	94	70-130			09/06/13	

**Matrix Spike Dup (A310036-MSD3) EPA 200.7 - Quality Control**

**Source: A3H2306-02**

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### Metals Quality Control Report

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
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**Batch: A310036**

Analyst: NRE

Prepared: 08/30/2013

Matrix Spike Dup (A310036-MSD3)	EPA 200.7 - Quality Control						Source: A3H2306-02					
Calcium	75	0.046	0.10	mg/L	10	64	107	70-130	2	20	09/05/13	
Magnesium	33	0.046	0.10	mg/L	10	23	99	70-130	1	20	09/05/13	
Sodium	28	0.45	1.0	mg/L	10	18	102	70-130	1	20	09/05/13	

Matrix Spike Dup (A310036-MSD4)	EPA 200.7 - Quality Control						Source: A3H2323-10					
Calcium	52	0.046	0.10	mg/L	10	43	93	70-130	0	20	09/06/13	
Magnesium	43	0.046	0.10	mg/L	10	34	94	70-130	0	20	09/06/13	
Sodium	90	0.45	1.0	mg/L	10	82	88	70-130	1	20	09/06/13	

Blank (A310036-BLK1)	EPA 200.8 - Quality Control											
Boron	ND	4.5	10	ug/L							09/10/13	

Blank Spike (A310036-BS1)	EPA 200.8 - Quality Control											
Boron	600	4.5	10	ug/L	600		101	85-115			09/10/13	

Blank Spike Dup (A310036-BSD1)	EPA 200.8 - Quality Control											
Boron	630	4.5	10	ug/L	600		106	85-115	5	20	09/10/13	

Matrix Spike (A310036-MS1)	EPA 200.8 - Quality Control						Source: A3H2306-02					
Boron	720	4.5	10	ug/L	600	99	103	70-130			09/10/13	

Matrix Spike (A310036-MS2)	EPA 200.8 - Quality Control						Source: A3H2323-10					
Boron	940	4.5	10	ug/L	600	320	103	70-130			09/10/13	

Matrix Spike Dup (A310036-MSD1)	EPA 200.8 - Quality Control						Source: A3H2306-02					
Boron	740	4.5	10	ug/L	600	99	107	70-130	3	20	09/10/13	

Matrix Spike Dup (A310036-MSD2)	EPA 200.8 - Quality Control						Source: A3H2323-10					
Boron	970	4.5	10	ug/L	600	320	108	70-130	3	20	09/10/13	

**Batch: A310185**

Analyst: PSK

Prepared: 09/04/2013

Blank (A310185-BLK1)	EPA 200.8 DRC - Quality Control											
Arsenic	ND	0.041	0.10	ug/L							09/06/13	

Blank Spike (A310185-BS1)	EPA 200.8 DRC - Quality Control											
Arsenic	45	0.041	0.10	ug/L	50		90	85-115			09/06/13	

Blank Spike Dup (A310185-BSD1)	EPA 200.8 DRC - Quality Control											
Arsenic	45	0.041	0.10	ug/L	50		89	85-115	1	20	09/06/13	

Matrix Spike (A310185-MS1)	EPA 200.8 DRC - Quality Control						Source: A3H2323-01					
Arsenic	45	0.041	0.10	ug/L	50	ND	89	70-130			09/06/13	

Matrix Spike (A310185-MS2)	EPA 200.8 DRC - Quality Control						Source: A3H2323-11					
Arsenic	49	0.041	0.10	ug/L	50	4.3	89	70-130			09/06/13	

Matrix Spike Dup (A310185-MSD1)	EPA 200.8 DRC - Quality Control						Source: A3H2323-01					

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Fresno, CA 93706

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**Metals Quality Control Report**

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
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**Batch: A310185**

Analyst: PSK

Prepared: 09/04/2013

<b>Matrix Spike Dup (A310185-MSD1)</b>	<b>EPA 200.8 DRC - Quality Control</b>						<b>Source: A3H2323-01</b>					
Arsenic	37	0.041	0.10	ug/L	50	ND	74	70-130	19	20	09/06/13	

<b>Matrix Spike Dup (A310185-MSD2)</b>	<b>EPA 200.8 DRC - Quality Control</b>						<b>Source: A3H2323-11</b>					
Arsenic	49	0.041	0.10	ug/L	50	4.3	89	70-130	1	20	09/06/13	



## Certificate of Analysis

09/12/2013

**Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance.
- Sample(s) received, prepared, and analyzed within the method specified criteria unless otherwise noted within this report.
- The results relate only to the samples analyzed in accordance with test(s) requested by the client on the Chain of Custody document. Any analytical quality control exceptions to method criteria that are to be considered when evaluating these results have been flagged and are defined in the data qualifiers section.
- All results are expressed on wet weight basis unless otherwise specified.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Results contained in this analytical report must be reproduced in its entirety.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses unless qualified or noted in the Case Narrative.
- Analytical data contained in this report may be used for regulatory purposes to meet the requirements of the Federal or State drinking water, wastewater, and hazardous waste programs.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- \* - This is not a NELAP accredited analyte.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing for each certification.

State of California - ELAP	1180	State of Nevada	CA000792009A
State of California - ELAP (Rancho Cordova)	2435	State of Hawaii	04227CA
State of California - NELAP	04227CA	State of Oregon	4017
State of Washington	C997	State of Oregon - NWTPH	4021

**Definitions and Flags for Data Qualifiers**

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable				

J Estimated value

DL01 Sample required dilution due to matrix or high concentration of non-target analyte.

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1414 Stanislaus Street

Fresno, CA 93706

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**Central Valley RWQCB**

**centr4730**



**08282013**

Turnaround: Standard

Due Date: 9/12/2013



1414 Stanislaus St., Fresno, CA 93706  
 (559) 497-2888 Fax (559) 497-2893  
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Required Fields

Temp: 25.150.7

A3H2223  
 centur4730  
 08/28/2013  
 10



Company/Client Name: Central Valley Regional Water Quality Control Board  
 Report Attention: Anne Littlejohn  
 Invoice To: Joseph C. McGahan  
 Phone: 916-464-4840  
 Fax: 916-464-4840  
 E-mail: alittlejohn@waterboards.ca.gov, jmcgahan@summerseag.com

Address: 11020 Sun Center Dr #200 Rancho Cordova CA 95670  
 State: CA  
 Zip: 95670

Project: Eval WQ in Ag Dominated Water Bodies  
 Project #: [blank]

Reporting Options:  
 Trace (L-Flag)  Swamp  EDD Type: [blank]

Sample Name (Printed/Signature): [Signature]  
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

How would you like your completed results sent?  
 E-Mail  Fax  Mail  
 Standard - 10 Business Days  Rush: Date Needed

Regulatory Compliance:  
 EDT to California DPH  System Number: [blank]  
 Geotracker #: [blank]

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Analytes					
		Date	Time			Na, Nitrate, TDS, Chloride	Sulfate, Hardness	Total and Dissolved: As	Boron	Total Fluoride	
1	AWL130827 - 06	8/27/13		SW		X	X	X	X		
2	AWL130827 - 07	8/27/13		SW		X	X	X	X		
3	AWL130827 - 10	8/27/13		SW		X	X	X	X		
4	AWL130827 - 11	8/27/13		SW		X	X	X	X		
5	AWL130827 - 12	8/27/13		WW		X	X	X	X		
6	AWL130827 - 13	8/27/13		SW		X	X	X	X		
7	AWL130827 - 14	8/27/13		SW		X	X	X	X		
8	AWL130827 - 15	8/27/13		SW		X	X	X	X		
9	AWL130827 - 16	8/27/13		SW		X	X	X	X		
10	AWL130827 - 17	8/27/13		SW		X	X	X	X		
11	AWL130827 - 18	8/27/13		SW		X	X	X	X		
12	AWL130827 - 19	8/27/13		SW		X	X	X	X		
13	AWL130827 - 20	8/27/13		SW		X	X	X	X		
14	AWL130827 - 21	8/27/13		SW		X	X	X	X		

Relinquished by (Signature and Printed Name): [Signature] Name: Anderson  
 Company: BSK Associates  
 Date: 8/27/13  
 Received by (Signature and Printed Name): [Signature]  
 Date: 8/27/13  
 Payment Received at Delivery: [Signature]  
 Date: 8/27/13  
 Chilling Process Required: [Signature]  
 Amount: [blank]  
 P/A#: [blank]  
 Check: [blank] Int: [blank] Cash: [blank]





# Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?			
		Yes	No	NA	Yes	No	NA
COC Info	If samples were taken today, is there evidence that chilling has begun?			Were there bubbles in the VOA vials? (Volatiles Only)			
	Yes	No	NA	Yes	No	NA	
COC Info	Did all bottles arrive unbroken and intact?			Was a sufficient amount of sample received?			
	Yes	No	NA	Yes	No	NA	
COC Info	Did all bottle labels agree with COC?			Do samples have a hold time <72 hours?			
	Yes	No	NA	Yes	No	NA	
COC Info	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Was PM notified of discrepancies?			
	Yes	No	NA	Yes	No	NA	
Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?	PM: By/Time:		
					1-19		
Bottles Received	Bacti $\text{Na}_2\text{S}_2\text{O}_3$		—	—			
	None (P) <sup>White Cap</sup>		—	—	IC		
Bottles Received	Cr6 Buffer (P) <sup>Blue Cap</sup>		pH 9-9.5	Y N			
	HNO <sub>3</sub> (P) <sup>Red Cap</sup>		—	—	IB		
Bottles Received	H <sub>2</sub> SO <sub>4</sub> (P) <sup>Yellow Cap</sup>		pH $\leq 2$	Y N			
	NaOH (P) <sup>Green Cap</sup>		Cl, pH $\geq 12$	Y N			
Bottles Received	NaOH + ZnAc (P)		pH $\geq 9$	Y N			
	Dissolved Oxygen 300ml (g)		—	—			
Bottles Received	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—			
	H <sub>2</sub> SO <sub>4</sub> (AG) <sup>Yellow Label</sup> O&G, Diesel		—	—			
Bottles Received	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549		—	—			
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) <sup>Blue Label</sup> 547, 515, 525, 548		—	—			
Bottles Received	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) <sup>Blue Label</sup> THMs 524.2 or 524.3		—	—			
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) <sup>Blue Label</sup> 504, 505		—	—			
Bottles Received	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) <sup>Orange Label</sup> 531		pH = 3	Y N			
	NH <sub>4</sub> Cl (AG) <sup>Purple Label</sup> 552		—	—			
Bottles Received	EDA (AG) <sup>Brown Label</sup> DBPs		—	—			
	Ascorbic + Maleic (AG) <sup>LI Green Label</sup> 524.3		—	—			
Bottles Received	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/824		—	—			
	Buffer pH 4 (CG)		—	—			
Bottles Received	None (CG)		—	—			
	H <sub>3</sub> PO <sub>4</sub> (CG) <sup>Salmon Label</sup>		—	—			
Bottles Received	Other:		—	—			
	Asbestos 1Liter Plastic w/ Foil		—	—			
Bottles Received	Low Level Hg / Metals Double Baggie		—	—			
	Bottled Water		—	—			
Bottles Received	Clear Glass Jar: 250 / 500 / 1 Liter		—	—			
	Soil Tube Brass / Steel / Plastic		—	—			
Bottles Received	Tedlar Bag / Plastic Bag		—	—			
	Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
S P					S P		
Comments	*NO time sample on coc & on sample containers starting						

G. S. B.