



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 07/29/10

Job: NGEM-TRON-FL

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: NGEM-TRON-FL-GW					
Lab ID: PES10072921-01A	Fluoride	0.34	0.25 mg/L	07/30/10 11:00	07/30/10 12:16
Date Sampled 07/29/10 10:00	Chloride	84	40 mg/L	07/30/10 11:00	07/30/10 12:16
	Bromide	ND	0.25 mg/L	07/30/10 11:00	07/30/10 12:16
	Nitrate (NO3) - N	0.64	0.25 mg/L	07/30/10 11:00	07/30/10 12:16
	Phosphate, ortho - P	ND	0.50 mg/L	07/30/10 11:00	07/30/10 12:16
	Sulfate (SO4)	220	75 mg/L	07/30/10 11:00	07/30/10 12:16

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

8/5/10

**Report Date**



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Date Received : 07/29/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-GW				
Lab ID : PES10072921-01A	Alkalinity, Bicarbonate (As CaCO3)	160	10 mg/L	08/03/10
Date Sampled 07/29/10 10:00	Alkalinity, Hydroxide (As CaCO3)	ND	10 mg/L	08/03/10
	Alkalinity, Total (As CaCO3 at pH 4.5)	160	10 mg/L	08/03/10

ND = Not Detected

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Date Received : 07/29/10

Job: NGEM-TRON-FL

Ammonia as Nitrogen  
SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-GW Lab ID: PES10072921-01A Nitrogen, Ammonia (As N) Date Sampled 07/29/10 10:00	ND	0.10 mg/L	08/02/10	08/02/10

ND = Not Detected

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 07/29/10

Job: NGEM-TRON-FL

Metals by ICPMS  
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: NGEM-TRON-FL-GW					
Lab ID: PES10072921-01A	Boron (B)	0.23	0.10 mg/L	08/04/10 08:52	08/05/10
Date Sampled 07/29/10 10:00	Sodium (Na)	83	0.50 mg/L	08/04/10 08:52	08/05/10
	Magnesium (Mg)	25	0.50 mg/L	08/04/10 08:52	08/05/10
	Potassium (K)	4.5	0.50 mg/L	08/04/10 08:52	08/05/10
	Calcium (Ca)	68	0.50 mg/L	08/04/10 08:52	08/05/10
	Chromium (Cr)	0.0070	0.0050 mg/L	08/04/10 08:52	08/05/10
	Manganese (Mn)	ND	0.0050 mg/L	08/04/10 08:52	08/05/10
	Iron (Fe)	0.65	0.30 mg/L	08/04/10 08:52	08/05/10
	Cobalt (Co)	ND	0.0050 mg/L	08/04/10 08:52	08/05/10
	Arsenic (As)	ND	0.0050 mg/L	08/04/10 08:52	08/05/10
	Lead (Pb)	ND	0.0050 mg/L	08/04/10 08:52	08/05/10

This replaces the report originally signed 8/5/10, due to a change in the analyte list, per client request.

ND = Not Detected

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9/23/10

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Fax: (916) 393-7398  
Date Received : 07/29/10

Job: NGEM-TRON-FL

### Metals by ICPMS EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
<b>Client ID: NGEM-TRON-FL-RSAM-6</b>					
Lab ID : PES10072921-02A	Boron (B)	ND	20 mg/Kg	08/03/10	08/03/10
Date Sampled 07/28/10 16:00	Sodium (Na)	490	100 mg/Kg	08/03/10	08/03/10
	Magnesium (Mg)	9,000	100 mg/Kg	08/03/10	08/03/10
	Potassium (K)	2,700	100 mg/Kg	08/03/10	08/03/10
	Calcium (Ca)	22,000	100 mg/Kg	08/03/10	08/03/10
	Chromium (Cr)	15	1.0 mg/Kg	08/03/10	08/03/10
	Manganese (Mn)	440	1.0 mg/Kg	08/03/10	08/03/10
	Iron (Fe)	18,000	500 mg/Kg	08/03/10	08/03/10
	Cobalt (Co)	6.9	1.0 mg/Kg	08/03/10	08/03/10
	Arsenic (As)	2.8	1.0 mg/Kg	08/03/10	08/03/10
	Lead (Pb)	8.8	1.0 mg/Kg	08/03/10	08/03/10
<b>Client ID: NGEM-TRON-FL-RSAM-5</b>					
Lab ID : PES10072921-03A	Boron (B)	ND	20 mg/Kg	08/03/10	08/03/10
Date Sampled 07/28/10 16:00	Sodium (Na)	1,900	100 mg/Kg	08/03/10	08/03/10
	Magnesium (Mg)	9,700	100 mg/Kg	08/03/10	08/03/10
	Potassium (K)	2,300	100 mg/Kg	08/03/10	08/03/10
	Calcium (Ca)	28,000	100 mg/Kg	08/03/10	08/03/10
	Chromium (Cr)	15	1.0 mg/Kg	08/03/10	08/03/10
	Manganese (Mn)	270	1.0 mg/Kg	08/03/10	08/03/10
	Iron (Fe)	17,000	500 mg/Kg	08/03/10	08/03/10
	Cobalt (Co)	5.8	1.0 mg/Kg	08/03/10	08/03/10
	Arsenic (As)	3.6	1.0 mg/Kg	08/03/10	08/03/10
	Lead (Pb)	5.4	1.0 mg/Kg	08/03/10	08/03/10
<b>Client ID: NGEM-TRON-FL-SA-179</b>					
Lab ID : PES10072921-04A	Boron (B)	ND	20 mg/Kg	08/03/10	08/03/10
Date Sampled 07/28/10 16:00	Sodium (Na)	580	100 mg/Kg	08/03/10	08/03/10
	Magnesium (Mg)	14,000	100 mg/Kg	08/03/10	08/03/10
	Potassium (K)	2,800	100 mg/Kg	08/03/10	08/03/10
	Calcium (Ca)	65,000	100 mg/Kg	08/03/10	08/03/10
	Chromium (Cr)	18	1.0 mg/Kg	08/03/10	08/03/10
	Manganese (Mn)	330	1.0 mg/Kg	08/03/10	08/03/10
	Iron (Fe)	20,000	500 mg/Kg	08/03/10	08/03/10
	Cobalt (Co)	6.8	1.0 mg/Kg	08/03/10	08/03/10
	Arsenic (As)	5.5	1.0 mg/Kg	08/03/10	08/03/10
	Lead (Pb)	7.4	1.0 mg/Kg	08/03/10	08/03/10



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Client ID: NGEM-TRON-FL-SA-189

Lab ID : PES10072921-05A	Boron (B)	ND	20 mg/Kg	08/03/10	08/03/10
Date Sampled 07/28/10 16:00	Sodium (Na)	900	100 mg/Kg	08/03/10	08/03/10
	Magnesium (Mg)	12,000	100 mg/Kg	08/03/10	08/03/10
	Potassium (K)	2,100	100 mg/Kg	08/03/10	08/03/10
	Calcium (Ca)	69,000	100 mg/Kg	08/03/10	08/03/10
	Chromium (Cr)	13	1.0 mg/Kg	08/03/10	08/03/10
	Manganese (Mn)	300	1.0 mg/Kg	08/03/10	08/03/10
	Iron (Fe)	16,000	500 mg/Kg	08/03/10	08/03/10
	Cobalt (Co)	5.2	1.0 mg/Kg	08/03/10	08/03/10
	Arsenic (As)	7.2	1.0 mg/Kg	08/03/10	08/03/10
	Lead (Pb)	6.0	1.0 mg/Kg	08/03/10	08/03/10

This replaces the report originally signed 8/5/10, due to a change in the analyte list, per client request.

Sample results were calculated on a wet weight basis.  
ND = Not Detected

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9/23/10

Report Date



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Date Received : 07/29/10

Job: NGEM-TRON-FL

### Total Dissolved Solids (TDS) SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-GW				
Lab ID: PES10072921-01A Solids, Total Dissolved (TDS)	620	10 mg/L	08/03/10	08/03/10
Date Sampled 07/29/10 10:00				

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8/5/10

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Attn: Cindy Schreier  
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Fax: (916) 393-7398  
Date Received : 07/29/10

Job: NGEM-TRON-FL

Total Organic Carbon as NonPurgeable Organic Carbon  
EPA Method SW9060 / SM5310C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-GW Lab ID: PES10072921-01A Total Organic Carbon Date Sampled 07/29/10 10:00	2.8	1.0 mg/L	07/30/10 10:22	07/31/10

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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Alpha certifies that the test results meet all requirements of NELAP unless footnoted otherwise.

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8/5/10

Report Date





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Attn: Cindy Schreier  
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Fax: (916) 393-7398  
Date Received : 07/29/10

Job: NGEM-TRON-FL

Total Suspended Solids  
SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-GW Lab ID: PES10072921-01A Solids, Total Suspended (TSS) Date Sampled 07/29/10 10:00	ND	2.5 mg/L	08/03/10	08/03/10

ND = Not Detected

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Date:  
11-Aug-10

## QC Summary Report

Work Order:  
10072921

### Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **22**

Batch ID: **24741**

Analysis Date: **07/30/2010 11:20**

Sample ID: **MB-24741**

Units : **mg/L**

Run ID: **IC\_1\_100730A**

Prep Date: **07/30/2010 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	ND	0.25								
Chloride	ND	0.5								
Bromide	ND	0.25								
Nitrate (NO3) - N	ND	0.25								
Phosphate, ortho - P	ND	0.5								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **24**

Batch ID: **24741**

Analysis Date: **08/05/2010 13:04**

Sample ID: **LFB-24741**

Units : **mg/L**

Run ID: **IC\_1\_100730A**

Prep Date: **07/30/2010 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.42	0.25	5		108	90	110			
Chloride	51.9	0.5	50		104	90	110			
Bromide	5.05	0.25	5		101	90	110			
Nitrate (NO3) - N	5.09	0.25	5		102	90	110			
Phosphate, ortho - P	5.45	0.5	5		109	90	110			
Sulfate (SO4)	104	0.5	100		104	90	110			

### Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **39**

Batch ID: **24741**

Analysis Date: **07/30/2010 16:35**

Sample ID: **10073004-02ALFM**

Units : **mg/L**

Run ID: **IC\_1\_100730A**

Prep Date: **07/30/2010 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	98.2	2.5	100	0	98	80	120			
Chloride	7360	5	1000	6302	106	80	120			
Bromide	131	2.5	100	23.12	108	80	120			
Nitrate (NO3) - N	113	2.5	100	0	113	80	120			
Phosphate, ortho - P	135	5	100	0	135	80	120			M1
Sulfate (SO4)	5350	5	2000	3352	100	80	120			

### Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **40**

Batch ID: **24741**

Analysis Date: **07/30/2010 16:53**

Sample ID: **10073004-02ALFMD**

Units : **mg/L**

Run ID: **IC\_1\_100730A**

Prep Date: **07/30/2010 11:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	98.4	2.5	100	0	98	80	120	98.24	0.2(15)	
Chloride	7450	5	1000	6302	114	80	120	7359	1.2(15)	
Bromide	130	2.5	100	23.12	107	80	120	130.8	0.2(15)	
Nitrate (NO3) - N	115	2.5	100	0	115	80	120	113.1	1.5(15)	
Phosphate, ortho - P	106	5	100	0	106	80	120	134.5	23.6(15)	R5
Sulfate (SO4)	5400	5	2000	3352	102	80	120	5352	0.8(15)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.



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Date:  
11-Aug-10

## QC Summary Report

Work Order:  
10072921

### Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0803AL**

Analysis Date: **08/03/2010 13:44**

Sample ID: **LCS-W0803AL**

Units : **mg/L**

Run ID: **WETLAB\_100803C**

Prep Date: **08/03/2010 13:44**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Bicarbonate (As CaCO3)	275.6	10	250		110	80	120			
Alkalinity, Hydroxide (As CaCO3)	275.6	10	250		110	80	120			
Alkalinity, Total (As CaCO3 at pH 4.5)	276	10	250		110	80	120			

### Comments:

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Date:  
04-Aug-10

## QC Summary Report

Work Order:  
10072921

### Method Blank

File ID:	Type	MBLK	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100727A	Analysis Date:	07/27/2010 14:21				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	ND	0.1								

### Laboratory Control Spike

File ID:	Type	LCS	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100727A	Analysis Date:	07/27/2010 14:25				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5.06	0.1	5		101	70	130			

### Sample Matrix Spike

File ID:	Type	MS	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100727A	Analysis Date:	07/27/2010 14:31				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	4.83	0.1	5		0	97	65	138		

### Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	SM4500-NH3D						
Sample ID:	Units :	mg/L	Run ID:	WETLAB_100727A	Analysis Date:	07/27/2010 14:34				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Nitrogen, Ammonia (As N)	5.06	0.1	5		0	101	65	138	4.83	4.7(20)

### Comments:

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Date:  
23-Sep-2010

## QC Summary Report

Work Order:  
10072921

### Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **080310.B\243\_MB.D\**

Batch ID: **24767**

Analysis Date: **08/05/2010 10:27**

Sample ID: **MB-24767**

Units : **mg/L**

Run ID: **ICP/MS\_100805A**

Prep Date: **08/04/2010 08:52**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	ND	0.1								
Sodium (Na)	ND	0.5								
Magnesium (Mg)	ND	0.5								
Potassium (K)	ND	0.5								
Calcium (Ca)	ND	0.5								
Chromium (Cr)	ND	0.005								
Manganese (Mn)	ND	0.005								
Iron (Fe)	ND	0.3								
Cobalt (Co)	ND	0.005								
Arsenic (As)	ND	0.005								
Lead (Pb)	ND	0.005								

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **080310.B\244\_L.D\**

Batch ID: **24767**

Analysis Date: **08/05/2010 10:33**

Sample ID: **LCS-24767**

Units : **mg/L**

Run ID: **ICP/MS\_100805A**

Prep Date: **08/04/2010 08:52**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	0.601	0.1	0.625		96	80	120			
Sodium (Na)	119	0.5	125		95	80	120			
Magnesium (Mg)	122	0.5	125		97	80	120			
Potassium (K)	120	0.5	125		96	80	120			
Calcium (Ca)	122	0.5	125		97	80	120			
Chromium (Cr)	0.593	0.005	0.625		95	80	120			
Manganese (Mn)	6.28	0.005	6.25		100	80	120			
Iron (Fe)	128	0.3	125		102	80	120			
Cobalt (Co)	0.582	0.005	0.625		93	80	120			
Arsenic (As)	0.625	0.005	0.625		100	80	120			
Lead (Pb)	0.648	0.005	0.625		104	80	120			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **080310.B\248\_SS.D\**

Batch ID: **24767**

Analysis Date: **08/05/2010 10:56**

Sample ID: **10073005-02AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100805A**

Prep Date: **08/04/2010 08:52**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	0.871	0.1	0.625	0.2651	97	75	125			
Sodium (Na)	176	0.5	125	65.03	89	75	125			
Magnesium (Mg)	158	0.5	125	44.59	91	75	125			
Potassium (K)	110	0.5	125	1.254	87	75	125			
Calcium (Ca)	242	0.5	125	141	81	75	125			
Chromium (Cr)	0.602	0.005	0.625	0.005437	95	75	125			
Manganese (Mn)	6.5	0.005	6.25	0.05171	103	75	125			
Iron (Fe)	133	0.3	125	1.586	105	75	125			
Cobalt (Co)	0.6	0.005	0.625	0	96	75	125			
Arsenic (As)	0.618	0.005	0.625	0	99	75	125			
Lead (Pb)	0.65	0.005	0.625	0	104	75	125			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **080310.B\249\_SSS.D\**

Batch ID: **24767**

Analysis Date: **08/05/2010 11:01**

Sample ID: **10073005-02AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100805A**

Prep Date: **08/04/2010 08:52**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	0.883	0.1	0.625	0.2651	99	75	125	0.8712	1.3(20)	
Sodium (Na)	178	0.5	125	65.03	90	75	125	175.9	0.9(20)	
Magnesium (Mg)	161	0.5	125	44.59	93	75	125	157.9	2.1(20)	
Potassium (K)	113	0.5	125	1.254	89	75	125	110.3	2.4(20)	
Calcium (Ca)	248	0.5	125	141	85	75	125	242.3	2.2(20)	
Chromium (Cr)	0.601	0.005	0.625	0.005437	95	75	125	0.6015	0.2(20)	
Manganese (Mn)	6.4	0.005	6.25	0.05171	101	75	125	6.495	1.6(20)	
Iron (Fe)	133	0.3	125	1.586	105	75	125	132.6	0.1(20)	
Cobalt (Co)	0.593	0.005	0.625	0	95	75	125	0.5999	1.2(20)	
Arsenic (As)	0.616	0.005	0.625	0	99	75	125	0.6175	0.2(20)	
Lead (Pb)	0.649	0.005	0.625	0	104	75	125	0.6501	0.2(20)	



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

**Date:**  
23-Sep-2010

## QC Summary Report

**Work Order:**  
10072921

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
23-Sep-2010

## QC Summary Report

Work Order:  
10072921

### Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **073110.B\1R353.D\**

Batch ID: **23747**

Analysis Date: **08/03/2010 08:54**

Sample ID: **MB-24747**

Units : **mg/Kg** Run ID: **ICP/MS\_100802B**

Prep Date: **08/03/2010 08:54**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	ND	20								
Sodium (Na)	ND	100								
Magnesium (Mg)	ND	100								
Potassium (K)	ND	100								
Calcium (Ca)	ND	100								
Chromium (Cr)	ND	1								
Manganese (Mn)	ND	1								
Iron (Fe)	ND	500								
Cobalt (Co)	ND	1								
Arsenic (As)	ND	1								
Lead (Pb)	ND	1								

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **073110.B\1R354L.D\**

Batch ID: **23747**

Analysis Date: **08/03/2010 09:00**

Sample ID: **LCS-24747**

Units : **mg/Kg** Run ID: **ICP/MS\_100802B**

Prep Date: **08/03/2010 09:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	21.5	20	25		86	80	120			
Sodium (Na)	4290	100	5000		86	80	120			
Magnesium (Mg)	4350	100	5000		87	80	120			
Potassium (K)	4300	100	5000		86	80	120			
Calcium (Ca)	4550	100	5000		91	80	120			
Chromium (Cr)	18.5	1	25		74	80	120			L2
Manganese (Mn)	218	1	250		87	80	120			
Iron (Fe)	4420	500	5000		88	80	120			
Cobalt (Co)	18.1	1	25		73	80	120			L2
Arsenic (As)	21.3	1	25		85	80	120			
Lead (Pb)	19.3	1	25		77	80	120			L2

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **073110.B\1R358MS.D\**

Batch ID: **23747**

Analysis Date: **08/03/2010 09:23**

Sample ID: **10072921-01AMS**

Units : **mg/Kg** Run ID: **ICP/MS\_100802B**

Prep Date: **08/03/2010 09:23**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B)	27.7	20	25		0	111	75	125		
Sodium (Na)	5040	100	5000		490.2	91	75	125		
Magnesium (Mg)	13000	100	5000		8998	79	75	125		
Potassium (K)	7090	100	5000		2737	87	75	125		
Calcium (Ca)	26000	100	5000		22340	73	75	125		M3
Chromium (Cr)	30.3	1	25		14.91	61	75	125		M57
Manganese (Mn)	618	1	250		443.2	70	75	125		M2
Iron (Fe)	19200	500	5000		18400	15	75	125		M2
Cobalt (Co)	24.4	1	25		6.917	70	75	125		M57
Arsenic (As)	23.2	1	25		2.767	82	75	125		
Lead (Pb)	27.2	1	25		8.75	74	75	125		M57

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **073110.B\1R359MD.D\**

Batch ID: **23747**

Analysis Date: **08/03/2010 09:28**

Sample ID: **10072921-01AMSD**

Units : **mg/Kg** Run ID: **ICP/MS\_100802B**

Prep Date: **08/03/2010 09:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Boron (B)	32.6	20	25		0	130	75	125	27.65	16.5(20)	M1
Sodium (Na)	5760	100	5000		490.2	105	75	125	5043	13.3(20)	
Magnesium (Mg)	15100	100	5000		8998	122	75	125	12970	15.2(20)	
Potassium (K)	8940	100	5000		2737	124	75	125	7091	23.1(20)	R5
Calcium (Ca)	30900	100	5000		22340	170	75	125	26000	17.1(20)	M3
Chromium (Cr)	39.6	1	25		14.91	99	75	125	30.28	26.6(20)	R58
Manganese (Mn)	711	1	250		443.2	107	75	125	617.5	14.1(20)	
Iron (Fe)	25600	500	5000		18400	144	75	125	19170	28.7(20)	M1 R58
Cobalt (Co)	27.9	1	25		6.917	84	75	125	24.43	13.3(20)	
Arsenic (As)	25.8	1	25		2.767	92	75	125	23.21	10.4(20)	
Lead (Pb)	29.7	1	25		8.75	84	75	125	27.17	8.8(20)	



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
23-Sep-2010

## QC Summary Report

Work Order:  
10072921

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L2 = The associated blank spike recovery was below laboratory acceptance limits.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

M57 = Matrix spike recovery was below laboratory acceptance limits.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

R58 = MS/MSD RPD exceeded the laboratory control limit.





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
11-Aug-10

## QC Summary Report

Work Order:  
10072921

### Method Blank

Type **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0802DS** Analysis Date: **08/03/2010 00:00**  
Sample ID: **MBLK-W0802DS** Units : mg/L Run ID: **WETLAB\_100802D** Prep Date: **08/03/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) ND 10

### Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0802DS** Analysis Date: **08/03/2010 00:00**  
Sample ID: **LCS-W0802DS** Units : mg/L Run ID: **WETLAB\_100802D** Prep Date: **08/03/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) 96 10 100 96 80 120

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
04-Aug-10

## QC Summary Report

Work Order:  
10072921

### Method Blank

Type **MBLK** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>24737</b>	Analysis Date: <b>07/30/2010 15:09</b>							
Sample ID: <b>MBLK-24737</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100730A</b>	Prep Date: <b>07/30/2010 10:22</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND		1							

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>24737</b>	Analysis Date: <b>07/30/2010 15:34</b>							
Sample ID: <b>LCS-24737</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100730A</b>	Prep Date: <b>07/30/2010 10:22</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	4.55	1	5		91	74	126			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>24737</b>	Analysis Date: <b>07/30/2010 16:29</b>							
Sample ID: <b>10072821-03AMS</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100730A</b>	Prep Date: <b>07/30/2010 10:22</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	8.65	1	5	3.948	94	56	137			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>24737</b>	Analysis Date: <b>07/30/2010 16:56</b>							
Sample ID: <b>10072821-03AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100730A</b>	Prep Date: <b>07/30/2010 10:22</b>							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	8.76	1	5	3.948	96	56	137	8.647	1.3(20)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
11-Aug-10

## QC Summary Report

Work Order:  
10072921

### Method Blank

Type **MBLK** Test Code: **SM2540D**

File ID:				Batch ID: <b>W0802SS</b>		Analysis Date: <b>08/03/2010 00:00</b>				
Sample ID: <b>MBLK-W0802SS</b>	Units : mg/L		Run ID: <b>WETLAB_100802E</b>		Prep Date: <b>08/03/2010 00:00</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Suspended (TSS)	ND		2.5							

### Laboratory Control Spike

Type **LCS** Test Code: **SM2540D**

File ID:				Batch ID: <b>W0802SS</b>		Analysis Date: <b>08/03/2010 00:00</b>				
Sample ID: <b>LCS-W0802SS</b>	Units : mg/L		Run ID: <b>WETLAB_100802E</b>		Prep Date: <b>08/03/2010 00:00</b>					
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Solids, Total Suspended (TSS)	92	2.5	100		92	50	140			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

# CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

August 05, 2010

CLS Work Order #: CTG1096  
COC #:

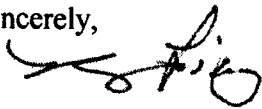
Reyna Vallejo  
Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

**Project Name: PES10072921**

Enclosed are the results of analyses for samples received by the laboratory on 07/29/10 13:25. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness. Any comments and exceptions are addressed under the Notes and Definitions section.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.  
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

# CALIFORNIA LABORATORY SERVICES

Page 2 of 4

08/05/10 11:07

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10072921 Project Number: PES10072921 Project Manager: Reyna Vallejo	CLS Work Order #: CTG1096 COC #:
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## Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>PES10072921-01A (NGEM-TRON-FL-GW) (CTG1096-01) Aqueous</b> <b>Sampled: 07/29/10 10:00</b> <b>Received: 07/29/10 13:25</b>									
Chlorate	ND	0.020	mg/L	1	CT05671	08/04/10	08/04/10	EPA 300.0	

CA DOHS ELAP Accreditation/Registration Number 1233

# CALIFORNIA LABORATORY SERVICES

Alpha Analytical, Inc.-Sparks 255 Glendale Ave.; Suite 21 Sparks, NV 89431	Project: PES10072921 Project Number: PES10072921 Project Manager: Reyna Vallejo	CLS Work Order #: CTG1096 COC #:
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## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch CT05671 - General Prep</b>										
<b>Blank (CT05671-BLK1)</b>										
Chlorate	ND	0.020	mg/L							Prepared & Analyzed: 08/04/10
<b>LCS (CT05671-BS1)</b>										
Chlorate	0.479	0.020	mg/L	0.500		96	80-120			Prepared & Analyzed: 08/04/10
<b>LCS Dup (CT05671-BSD1)</b>										
Chlorate	0.474	0.020	mg/L	0.500		95	80-120	1	20	Prepared & Analyzed: 08/04/10
<b>Matrix Spike (CT05671-MS1)</b>										
Chlorate	0.497	0.020	mg/L	0.500	ND	99	75-125			Source: CTG1096-01 Prepared & Analyzed: 08/04/10
<b>Matrix Spike Dup (CT05671-MSD1)</b>										
Chlorate	0.510	0.020	mg/L	0.500	ND	102	75-125	3	25	Source: CTG1096-01 Prepared & Analyzed: 08/04/10

# CALIFORNIA LABORATORY SERVICES

Page 4 of 4

08/05/10 11:07

Alpha Analytical, Inc.-Sparks  
255 Glendale Ave.; Suite 21  
Sparks, NV 89431

Project: PES10072921  
Project Number: PES10072921  
Project Manager: Reyna Vallejo

CLS Work Order #: CTG1096  
COC #:

## Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

CA DOHS ELAP Accreditation/Registration Number 1233

3249 Fitzgerald Road Rancho Cordova, CA 95742    [www.californialab.com](http://www.californialab.com)    916-638-7301    Fax: 916-638-4510



**A0G2391**

08/10/2010

Reyna Vallejo  
Alpha Analytical Laboratories Inc  
255 Glendale Ave, Suite 21  
Sparks, NV 89431

Dear Reyna Vallejo,

Thank you for selecting BSK Analytical Laboratories 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 07/30/2010 12:25.

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

BSK ANALYTICAL LABORATORIES

*Pamela Cooper*

---

Pam Cooper  
Client Services Representative



**Case Narrative**

**Work Order Information**

**Client Name:** Alpha Analytical Laboratories Inc  
**Client Code:** Alpha0401  
**Work Order:** A0G2391  
**Project:** General - Sparks, NV  
**Client Project:** PES10072921

**Submitted by:** Lisa  
**Shipped by:** Fed Ex  
**COC Number:**  
**TAT:** 10  
**PO #:**

**Sample Receipt Conditions**

**Cooler:** Default Cooler      **Temp. °C:** 1  
Custody Seals  
Containers Intact  
COC/Labels Agree  
Received On Wet Ice  
Packing Material - Bubble Wrap  
Packing Material - Foam  
Sample(s) were received in temperature range.  
Sample(s) preserved after receipt at lab.  
Initial receipt at BSK-FAL

**Report Manager**  
Reyna Vallejo

**Report Format**  
FAL Final Report.rpt



**Certificate of Analysis**

Reyna Vallejo  
Alpha Analytical Laboratories Inc  
255 Glendale Ave, Suite 21  
Sparks, NV 89431

**Report Issue Date:** 8/10/2010 15:59  
**Received Date:** 07/30/2010  
**Received Time:** 12:25

**Lab Sample ID:** A0G2391-01      **Client Project:** PES10072921  
**Sample Date:** 07/29/2010 10:00      **Sampled by:** RG/CL  
**Sample Type:** Grab      **Matrix:** Water

**Sample Description:** NGEM-TRON-FL-GW // PES10072921-01A

**Metals**

Analyte	Method	Result	RL	Units	Dil.	Batch	Prepared	Analyzed	Qualifiers
*Uranium	EPA 200.8	4.2	1.0	ug/L	1	A007032	08/10/10	08/10/10	
*Uranium, Radiological		2.8		pCi/L					



Certificate of Analysis

Reyna Vallejo
Alpha Analytical Laboratories Inc
255 Glendale Ave, Suite 21
Sparks, NV 89431

Report Issue Date: 8/10/2010 15:59
Received Date: 07/30/2010
Received Time: 12:25

Lab Sample ID: A0G2391-02 Client Project: PES10072921
Sample Date: 07/28/2010 16:00 Sampled by: RG/CL
Sample Type: Grab Matrix: Solid

Sample Description: NGEM-TRON-FL-RSAM-6 // PES10072921-02A

Metals

Table with 10 columns: Analyte, Method, Result, RL, Units, Dil., Batch, Prepared, Analyzed, Qualifiers. Row 1: \*Uranium, EPA 6020, ND, 1.2, mg/kg, 1, A006779, 08/04/10, 08/10/10



Certificate of Analysis

Reyna Vallejo
Alpha Analytical Laboratories Inc
255 Glendale Ave, Suite 21
Sparks, NV 89431

Report Issue Date: 8/10/2010 15:59
Received Date: 07/30/2010
Received Time: 12:25

Lab Sample ID: AOG2391-03 Client Project: PES10072921
Sample Date: 07/28/2010 16:00 Sampled by: RG/CL
Sample Type: Grab Matrix: Solid

Sample Description: NGEM-TRON-FL-RSAM-5 // PES10072921-03A

Metals

Table with 10 columns: Analyte, Method, Result, RL, Units, Dil., Batch, Prepared, Analyzed, Qualifiers. Row 1: \*Uranium, EPA 6020, ND, 1.2, mg/kg, 1, A006779, 08/04/10, 08/10/10



Certificate of Analysis

Reyna Vallejo
Alpha Analytical Laboratories Inc
255 Glendale Ave, Suite 21
Sparks, NV 89431

Report Issue Date: 8/10/2010 15:59
Received Date: 07/30/2010
Received Time: 12:25

Lab Sample ID: A0G2391-04 Client Project: PES10072921
Sample Date: 07/28/2010 16:00 Sampled by: RG/CL
Sample Type: Grab Matrix: Solid

Sample Description: NGEM-TRON-FL-SA-179 // PES10072921-04A

Metals

Table with 10 columns: Analyte, Method, Result, RL, Units, Dil., Batch, Prepared, Analyzed, Qualifiers. Row 1: Uranium, EPA 6020, 1.3, 1.2, mg/kg, 1, A006779, 08/04/10, 08/10/10



**Certificate of Analysis**

Reyna Vallejo  
Alpha Analytical Laboratories Inc  
255 Glendale Ave, Suite 21  
Sparks, NV 89431

**Report Issue Date:** 8/10/2010 15:59  
**Received Date:** 07/30/2010  
**Received Time:** 12:25

**Lab Sample ID:** A0G2391-05                      **Client Project:** PES10072921  
**Sample Date:** 07/28/2010 16:00              **Sampled by:** RG/CL  
**Sample Type:** Grab                                      **Matrix:** Solid

**Sample Description:** NGEM-TRON-FL-SA-189 // PES10072921-05A

**Metals**

Analyte	Method	Result	RL	Units	Dil.	Batch	Prepared	Analyzed	Qualifiers
*Uranium	EPA 6020	1.9	1.2	mg/kg	1	A006779	08/04/10	08/10/10	

## Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
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Batch: A006779

Analyst: MAS

Prepared: 8/4/2010 Analyzed: 8/10/2010

**Blank (A006779-BLK1) EPA 6020 - Quality Control**

Uranium ND 1.2 mg/kg

**Blank Spike (A006779-BS1) EPA 6020 - Quality Control**

Uranium 91 1.2 mg/kg 100 91 75-125

**Blank Spike Dup (A006779-BSD1) EPA 6020 - Quality Control**

Uranium 97 1.2 mg/kg 100 97 75-125 7 20

**Matrix Spike (A006779-MS1) EPA 6020 - Quality Control**

Source: A0G2276-01

Uranium 100 1.2 mg/kg 100 0.72 102 75-125

**Matrix Spike Dup (A006779-MSD1) EPA 6020 - Quality Control**

Source: A0G2276-01

Uranium 100 1.2 mg/kg 100 0.72 101 75-125 2 20

Batch: A007032

Analyst: MAS

Prepared & Analyzed: 8/10/2010

**Blank (A007032-BLK1) EPA 200.8 - Quality Control**

Uranium ND 1.0 ug/L

**Blank Spike (A007032-BS1) EPA 200.8 - Quality Control**

Uranium 49 1.0 ug/L 50 98 85-115

**Blank Spike Dup (A007032-BSD1) EPA 200.8 - Quality Control**

Uranium 54 1.0 ug/L 50 108 85-115 10 20

**Matrix Spike (A007032-MS1) EPA 200.8 - Quality Control**

Source: A0G2321-01

Uranium 120 2.0 ug/L 100 13 109 70-130

**Matrix Spike Dup (A007032-MSD1) EPA 200.8 - Quality Control**

Source: A0G2321-01

Uranium 110 2.0 ug/L 100 13 99 70-130 8 20

**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, 502.2, 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. Samples submitted to the laboratory have been analyzed outside of this holding time requirement.
- \* - 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.
- (2) The digestion used to produce this result deviated from EPA 200.2 by excluding hydrochloric acid in order to produce acceptable recoveries for affected metals.

**Certifications:**

State of California - CDPH - ELAP	1180
State of California - CDPH - NELAP	04227CA
State of New Mexico - NMED-DWB	
State of Nevada - NDEP	CA000792009A

**Definitions and Flags for Data Qualifiers**

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



A0G2391

**Alpha Analytical Laboratories Inc**

**Alpha0401**

**07302010**

Revna Vallejo  
General - Sparks, NV

Turnaround: Standard  
Due Date: 08/13/2010

Sample ID	Sample Description	Date Sampled	Lab Notes
A0G2391-01	NGEM-TRON-FL-GW	07/29/2010	
A0G2391-02	NGEM-TRON-FL-RSAM-6	07/28/2010	
A0G2391-03	NGEM-TRON-FL-RSAM-5	07/28/2010	
A0G2391-04	NGEM-TRON-FL-SA-179	07/28/2010	
A0G2391-05	NGEM-TRON-FL-SA-189	07/28/2010	

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**CA**  
**WorkOrder : PES10072921**  
**Report Due By : 5:00 PM On : 05-Aug-10**

Client: **Prima Environmental**  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention **Phone Number** (916) 939-7300 x **Email Address** data@primaenvironmental.com  
 Cindy Schreier

EDD Required : No

Sampled by : RG/CL

Client's COC # : 21963, 21962 Job : NGENM-TRON-FL

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD w/In Surrogates

Cooler Temp **4 °C** Samples Received **29-Jul-10** Date Printed **22-Sep-10**

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha	Sub	TAT	300.0(0) W		300.0 W		ALCALINITY Y W		Requested Tests		Sample Remarks
						W	W	Y	W	NH3	Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn, Ca, K, Na	DD_AQ	
PES10072921-02A	NGEM-TRON-FL-RSAM-6	07/28/10 16:00	1	1	4							Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn, Ca, K, Na	
PES10072921-03A	NGEM-TRON-FL-RSAM-5	07/28/10 16:00	1	1	4							Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn, Ca, K, Na	
PES10072921-04A	NGEM-TRON-FL-SA-179	07/28/10 16:00	1	1	4							Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn, Ca, K, Na	
PES10072921-05A	NGEM-TRON-FL-SA-189	07/28/10 16:00	1	1	4							Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn, Ca, K, Na	

Comments: Chain prelogged on 7/29/10 in order for Sac office to sub Chlorate to CLS. Remaining samples rec'd 7/30/10. Chain split into two separate workorders due to different TAT's (PES10073020). Security seals intact. Frozen ice. TOC pH=2. Uranium subbed to BSK Labs. Placed sub lab chains on 5 day TATs due to login error. Amended 9/22/10 12:00 to add Ca, K & Na to all samples. per Cindy KM

Logged in by: *K Murray* *K Murray* Signature \_\_\_\_\_ Print Name \_\_\_\_\_ Company **Alpha Analytical, Inc.** Date/Time **9/22/10 12:00**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**CA**  
 WorkOrder : PES10072921  
 Report Due By : 5:00 PM On : 05-Aug-10

Client: Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
 Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : RG/CL

Cooler Temp 4 °C Samples Received 29-Jul-10 Date Printed 22-Sep-10

Client's COC # : 21963, 21962 Job : NGENM-TRON-FL  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles	Alpha Sub	TAT	TDS_w	TOC_w	TSS_w	Requested Tests	Sample Remarks
PES10072921-01A	NGEM-TRON-FL-GW	07/29/10 10:00	6	2	4		TOC	TDS/TSS		Metals poly rec'd filtered.
PES10072921-02A	NGEM-TRON-FL-RSAM-6	07/28/10 16:00	1	1	4					
PES10072921-03A	NGEM-TRON-FL-RSAM-5	07/28/10 16:00	1	1	4					
PES10072921-04A	NGEM-TRON-FL-SA-179	07/28/10 16:00	1	1	4					
PES10072921-05A	NGEM-TRON-FL-SA-189	07/28/10 16:00	1	1	4					

Comments: Chain prelogged on 7/29/10 in order for Sac office to sub Chlorate to CLS. Remaining samples rec'd 7/30/10. Chain split into two separate workorders due to different TATs (PES10073020). Security seals intact. Frozen ice. TOC pH=2. Uranium subbed to BSK Labs. Placed sub lab chains on 5 day TATs due to login error. Amended 9/22/10 12:00 to add Ca, K & Na to all samples, per Cindy KM

Logged in by: *K Murray* Signature *K Murray* Print Name *K Murray* Company Alpha Analytical, Inc. Date Time 9/22/10 1200

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

# CA

WorkOrder : PES10072921  
 Report Due By : 5:00 PM On : 05-Aug-10

Client: Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention: Phone Number (916) 939-7300 x  
 Email Address: data@primaenvironmental.com  
 Cindy Schreier

EDD Required : No

Sampled by : RG/CL

Client's COC # : 21963, 21962 Job : NGENM-TRON-FL

Cooler Temp 4 °C Samples Received 29-Jul-10 Date Printed 30-Jul-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests		Sample Remarks					
				Alpha	Sub	TAT	300 g(D) W	300 g W		ALCALINT Y_W	AMMONIA W	METALS_A DD_AQ	METALS_A DD_SO	METALS_A Q
PES10072921-01A	NGEM-TRON-FL-GW	AQ	07/29/10 10:00	6	2	4	Chlorate, Br, Cl, F, NO3, PO4, SO4	Chlorate, Br, Cl, F, NO3, PO4, SO4	Total Bicarb, Hydroxide	NH3	Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn	As, B, Cr, Co, Fe, Pb, Mg, Mn	Metals poly rec'd filtered.
PES10072921-02A	NGEM-TRON-FL-RSAM-6	SO	07/28/10 16:00	1	1	4					Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn	As, B, Cr, Co, Fe, Pb, Mg, Mn	
PES10072921-03A	NGEM-TRON-FL-RSAM-5	SO	07/28/10 16:00	1	1	4					Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn	As, B, Cr, Co, Fe, Pb, Mg, Mn	
PES10072921-04A	NGEM-TRON-FL-SA-179	SO	07/28/10 16:00	1	1	4					Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn	As, B, Cr, Co, Fe, Pb, Mg, Mn	
PES10072921-05A	NGEM-TRON-FL-SA-189	SO	07/28/10 16:00	1	1	4					Uranium	As, B, Cr, Co, Fe, Pb, Mg, Mn	As, B, Cr, Co, Fe, Pb, Mg, Mn	

Comments: Chain prelogged on 7/29/10 in order for Sec office to sub Chlorate to CLS. Remaining samples rec'd 7/30/10. Chain split into two separate workorders due to different TATs (PES10073020). Security seals intact. Frozen ice. TOC pH=2. Uranium subbed to BSK Labs. Placed sub lab chains on 5 day TATs due to login error.

Logged in by: K Schreier K M... ..  
 Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_  
 Company: Alpha Analytical, Inc. Date/Time: 7/30/10 1010

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedar B-Brass P-Plastic OT-Other

Billing Information :

CHAIN-OF-CUSTODY RECORD

CA

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10072921

Report Due By : 5:00 PM On : 05-Aug-10

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention: Phone Number (916) 939-7300 x Email Address  
Cindy Schreier data@primaenvironmental.com

EDD Required : No

Sampled by : RG/CL

Cooler Temp 4 °C

Samples Received 29-Jul-10

Date Printed 30-Jul-10

PO : Client's COC # : 21963, 21962 Job : NGENM-TRON-FL  
QC Level : S3 = Final Rpt MBLK, LCS, MS/MSD with Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles				Requested Tests			Sample Remarks
				Alpha	Sub	TAT	TDS_W	TOC_W	TSS_W		
PES10072921-01A	NGEM-TRON-FL-GW	AQ	07/29/10 10:00	6	2	4	TDS/TSS	TOC	TDS/TSS	Metals poly rec'd filtered.	
PES10072921-02A	NGEM-TRON-FL-RSAM-	SO	07/28/10 16:00	1	1	4					
PES10072921-03A	NGEM-TRON-FL-RSAM-	SO	07/28/10 16:00	1	1	4					
PES10072921-04A	NGEM-TRON-FL-SA-179-	SO	07/28/10 16:00	1	1	4					
PES10072921-05A	NGEM-TRON-FL-SA-189-	SO	07/28/10 16:00	1	1	4					


Comments: Chain prelogged on 7/29/10 in order for Sac office to sub Chlorate to CLS. Remaining samples rec'd 7/30/10. Chain split into two separate workorders due to different TATs (PES10073020). Security seals intact. Frozen ice. TOC pH=2. Uranium subbed to BSK Labs. Placed sub lab chains on 5 day TATs due to login error.

Signature \_\_\_\_\_ Print Name \_\_\_\_\_ Company Alpha Analytical, Inc. Date/Time 7/30/10 1010

Logged in by: *K Murray* *K Murray*

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing In** PRIMA ENVIRONMENTAL, Inc.  
 Name 5070 Robert J. Mathews Parkway, Suite 300  
 Address El Dorado Hills, CA 95762  
 City, State, Phone: 916-939-7300  
 Phone Nur FAX: 916-939-7398



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?** AZ CA NV WA  
 ID OR OTHER WA Page # 1 of 2  
**21963**

Client Name NGEM-TRON-EL Job # NGEM-TRON-EL  
 Address data@primaenvironmental.com Email Address  
 City, State, Zip 1000 Phone # 1000

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Office (Use Only)	Report Attention	Sample Description	TAT	Field Filtered	Total and type of containers ** See Below	Analyses Required	Global ID #	REMARKS
1000	7/28/10	SD	ES/CL			Cindy Schreier	NGEM-TRON-EL-PSAW-10	24hr		1-S *	314 Perchlorate		
							-PSAW-5			*	30.1 Alkalinity		
							-SA-179			*	300 Amions		
							-SA-189			*	Chlorate		
							NGEM-TRON-EL-6W			3-V	160.1 TDS		
							NGEM-TRON-EL-6W			1-L, 3-P	9060 TOC		
							PS10072921-01			1-OT	160.2 TSS		
													** Amions?
													Bromide, Chloride, nitrate
													ortho-phosphate
													Sulfate
													* 1 Soil jar for both analysis
													* Substo CES

**ADDITIONAL INSTRUCTIONS:**

Signature	Print Name	Company	Date	Time
<i>Catherine Ligouri</i>	Catherine Ligouri	PRIMA	7-29-10	1240
<i>Lisa deSilva</i>	Lisa deSilva	ALDRA	7-29-10	1240
<i>Lisa deSilva</i>	Lisa deSilva	ALDRA	7-29-10	1506
<i>K Murray</i>	K Murray	AAA	7/30/10	1500

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Lier V-Voa S-Soil Jar O-Orto T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analy

**Billing In: PRIMA ENVIRONMENTAL, Inc.**  
 Name: 5070 Robert J. Mathews Parkway, Suite 300  
 Address: El Dorado Hills, CA 95762  
 City, State, ZIP: PH: 916-939-7300  
 Phone Num: FAX: 916-939-7398



**Samples Collected From Which State?** 21962  
 AZ CA NV WA  
 ID OR OTHER  
 Page # 2 of 2

Client Name: NGEM-TRON-FL  
 Address: data@primaenvironmental.com  
 City, State, Zip: PO. #  
 Email Address: Phone #  
 Job #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by Lab ID Number (Use Only)	Office (Use Only)	Report Attention Sample Description	TAT	Field Filtered	Total and type of containers ** See below	Analyses Required	Global ID #	REMARKS
1600	7/29/10	SO	RES/CK	02	NGEM-TRON-FL-RSAM-6	5 days		1-S*	6030 (metals: AS, B, Cr, Co, Fe, Pb, Mg, Mn, Ni)		Metals: AS, B, Cr, Co, Fe, Pb, Mg, Mn, Ni
	7/29/10			03	-RSAM-5			1-S*	3503 (armon)		
	7/29/10			04	-SA-179			1-S*			
	7/29/10			05	-SA-189			1-S*			
1000	7/30/10	AQ		01	NGEM-TRON-FL-GW			1-P(Soil)			Conductivity = 885 uS
								1-P(Soil)			* 1 soil jar for both analysis
								1-P(Soil)			* Sub to BSL

**ADDITIONAL INSTRUCTIONS:**

Signature	Print Name	Company	Date	Time
<i>[Signature]</i>	Catherine Ligori	PRIMA	7-29-10	12:40
<i>[Signature]</i>	Lisa de Silva	ALPHA	7-29-10	12:40
<i>[Signature]</i>	Lisa de Silva	ALPHA	7-29-10	15:00
<i>[Signature]</i>	K Murray	AA	7/30/10	1000

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Lier V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis:



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 07/30/10

Job: NGEM-TRON-FL

### Perchlorate by Ion Chromatography EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-6</b> Lab ID: PES10073020-01A Perchlorate Date Sampled 07/28/10 16:00	145,000	8,000 µg/Kg	07/30/10 10:04	07/30/10
Client ID: <b>NGEM-TRON-FL-RSAM-5</b> Lab ID: PES10073020-02A Perchlorate Date Sampled 07/28/10 16:00	3,130,000	200,000 µg/Kg	07/30/10 10:04	07/30/10
Client ID: <b>NGEM-TRON-FL-SA-179</b> Lab ID: PES10073020-03A Perchlorate Date Sampled 07/28/10 16:00	258,000	8,000 µg/Kg	07/30/10 10:04	07/30/10
Client ID: <b>NGEM-TRON-FL-SA-189</b> Lab ID: PES10073020-04A Perchlorate Date Sampled 07/28/10 16:00	6,180	400 µg/Kg	07/30/10 10:04	07/30/10

Sample results were calculated on a wet weight basis.

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

7/30/10

Report Date





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 07/30/10

Job: NGEM-TRON-FL

Perchlorate by Ion Chromatography  
EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-GW				
Lab ID: PES10073020-05A Perchlorate	2.19	2.00 µg/L	07/30/10 11:46	07/30/10
Date Sampled 07/29/10 10:00				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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7/30/10

**Report Date**



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## QC Summary Report

Date:  
03-Aug-10

Work Order:  
10073020

### Method Blank

File ID: 14	Type MBLK	Test Code: EPA Method 314.0									
Sample ID: MB-24736	Units : µg/Kg	Batch ID: 24736					Analysis Date: 07/30/2010 11:01				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	ND	20									

### Laboratory Control Spike

File ID: 15	Type LCS	Test Code: EPA Method 314.0									
Sample ID: LCS-24736	Units : µg/Kg	Batch ID: 24736					Analysis Date: 07/30/2010 11:19				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	255	200	250		102	85	115				

### Sample Matrix Spike

File ID: 30	Type MS	Test Code: EPA Method 314.0									
Sample ID: 10073020-04AMS	Units : µg/Kg	Batch ID: 24736					Analysis Date: 07/30/2010 15:56				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	11900	4000	5000	6182	114	80	120				

### Sample Matrix Spike Duplicate

File ID: 31	Type MSD	Test Code: EPA Method 314.0									
Sample ID: 10073020-04AMSD	Units : µg/Kg	Batch ID: 24736					Analysis Date: 07/30/2010 16:15				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	12400	4000	5000	6182	124	80	120	11890	4.0(15)	M1	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.



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Date:  
03-Aug-10

## QC Summary Report

Work Order:  
10073020

### Method Blank

File ID: 18	Type MBLK	Test Code: EPA Method 314.0									
Sample ID: MB-24743	Units : µg/L	Batch ID: 24743					Analysis Date: 07/30/2010 12:14				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	ND	2									

### Laboratory Fortified Blank

File ID: 19	Type LFB	Test Code: EPA Method 314.0									
Sample ID: LFB-24743	Units : µg/L	Batch ID: 24743					Analysis Date: 07/30/2010 12:33				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	26.7	2	25		107	85	115				

### Sample Matrix Spike

File ID: 36	Type LFM	Test Code: EPA Method 314.0									
Sample ID: 10073003-05ALFM	Units : µg/L	Batch ID: 24743					Analysis Date: 07/30/2010 17:47				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	24.6	2	25	0	98	80	120				

### Sample Matrix Spike Duplicate

File ID: 37	Type LFMD	Test Code: EPA Method 314.0									
Sample ID: 10073003-05ALFMD	Units : µg/L	Batch ID: 24743					Analysis Date: 07/30/2010 18:05				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Perchlorate	25.5	2	25	0	102	80	120	24.61	3.5(15)		

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**CA FLOW**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10073020

Report Due By : 5:00 PM On : 30-Jul-10

Client: Prina Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
 Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : RG/CL

Cooler Temp Samples Received Date Printed  
 4 °C 30-Jul-10 30-Jul-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates  
 Client's COC # : 21963, 21962 Job : NGENM-TRON-FL

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles			Requested Tests		Sample Remarks
			Alpha	Sub	TAT	314_S	314_W	
PES10073020-01A	NGEM-TRON-FL-RSAM-6	07/28/10 16:00	1	0	1	Perchlorate		
PES10073020-02A	NGEM-TRON-FL-RSAM-5	07/28/10 16:00	1	0	1	Perchlorate		
PES10073020-03A	NGEM-TRON-FL-SA-179	07/28/10 16:00	1	0	1	Perchlorate		
PES10073020-04A	NGEM-TRON-FL-SA-189	07/28/10 16:00	1	0	1	Perchlorate		
PES10073020-05A	NGEM-TRON-FL-GW	07/29/10 10:00	3	0	1	Perchlorate	Perchlorate	

Comments: ASAP TAT. Chain split into two separate workorders due to different TATs (PES10072921). Security seals intact. Frozen ice.:

Logged in by: K Murray Signature K Murray Print Name Alpha Analytical, Inc. Company 7/30/10 0950 Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing to PRIMA ENVIRONMENTAL, Inc.**

Name 5070 Robert J. Mathews Parkway, Suite 300  
 Address El Dorado Hills, CA 95762  
 City, State, PH: 916-939-7300  
 Phone Nur FAX: 916-939-7398



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

Samples Collected From Which State? **21963**  
 AZ  CA  NV  WA   
 ID  OR  OTHER   
 Page # 1 of 2

Client Name \_\_\_\_\_ Job # NGEM-TRON-EL  
 Address \_\_\_\_\_ Email Address data@primaenvironmental.com  
 City, State, Zip \_\_\_\_\_ Phone # \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Office	Report Attention	TAT	Field Filtered	Total and type of containers ** See below	Analyses Required	Required QC Level?	REMARKS
1100	7/29/10	SO	ES/CL	PS10073020-01		NGEM-TRON-EL-PSAW-10	24hr		1-S *	314 Perchlorate	I	Alkalinity!
						-PSAW-5			*	300 Alkalinity	II	TOTAL, HCO3,
						-SA-179			*	300 Anions	III	hydroxide-PH SID
						-SA-189			*	Chlorate	IV	
						05 NGEM-TRON-EL-6W			3-V	160.1 TDS		** Anions?
						NGEM-TRON-EL-6W	5d		1-L, 1-3P, 1-07	9060 TOC		Bromide, Chloride
										160.2 TSS		fluoride, nitrate,
												ortho-phosphate
												Sulfate
												* 1 Soil jar for both analysis
												* Submit to CES

**ADDITIONAL INSTRUCTIONS:**

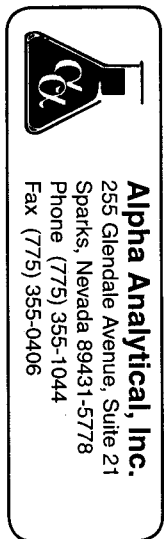
Signature	Print Name	Company	Date	Time
<i>Catherine Hager</i>	Catherine Hager	PRIMA	7-29-10	1240
<i>Lisa de Silva</i>	Lisa de Silva	ALDRA	7-29-10	1240
<i>Lisa de Silva</i>	Lisa de Silva	ALDRA	7-29-10	1506
<i>K Murray</i>	K Murray	AAI	7/30/10	0950

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orho T-Tedlar B-Brass P-Plastic OT-Other

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing In PRIMA ENVIRONMENTAL, Inc.**

Name 5070 Robert J. Matthews Parkway, Suite 300  
 Address EI Dorado Hills, CA 95762  
 City, State, : PH: 916-939-7300  
 Phone Num FAX: 916-939-7398



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?**

AZ  CA  NV  WA   
 ID  OR  OTHER

21962

Page # 2 of 2

Analyses Required

Required QC Level?  
 I II III IV

EDD / EDF? YES \_\_\_ NO \_\_\_

Global ID # \_\_\_\_\_

REMARKS

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by Lab ID Number (Use Only)	Report Attention Sample Description	TAT	Field Filtered	Total and type of containers ** See below	6020 (metals: As, Cd, Cr, Cu, Fe, Pb, Mn, Ni, P, Zn)	3503 (ammonia)	EDD / EDF? YES ___ NO ___	Global ID # _____	REMARKS
1600	7/27/10	SO	gsk/cck	NGEM-TRON-FI-RSAM-6	5 days		1-S*	X				Metals: As, Bi, Cr, Co, Fe, Pb, Mg, Mn, U
	7/27/10			-RSAM-5			1-S*	X				Conductivity = 885 uS
	7/27/10			-SA-179			1-S*	X				* 1 soil jar for both analysis
	7/27/10			-SA-189			1-S*	X				* sub to BSL
1000	7/27/10	AQ		NGEM-TRON-FI-GW		N	1-P(500ml)	X				

**ADDITIONAL INSTRUCTIONS:**

Signature	Print Name	Company	Date	Time
<i>Catherine Liguori</i>	Catherine Liguori	PRIMA	7-29-10	12:40
<i>Lisa de Silve</i>	Lisa de Silve	ALPHA	7-29-10	12:40
<i>Lisa de Silve</i>	Lisa de Silve	ALPHA	7-29-10	15:00
<i>E. Murray</i>	E. Murray	AAI	7/30/10	09:50

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-01A  
Client I.D. Number: NGEM-TRON-FL-GW

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 08/31/10 14:38  
Analyzed: 09/01/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	0.050 µg/L
2 gamma-BHC (Lindane)	ND	0.050 µg/L
3 beta-BHC	ND	0.050 µg/L
4 delta-BHC	ND	0.050 µg/L
5 Heptachlor	ND	0.050 µg/L
6 Aldrin	ND	0.050 µg/L
7 Heptachlor epoxide	ND	0.050 µg/L
8 Endosulfan I	ND	0.050 µg/L
9 4,4'-DDE	ND	0.10 µg/L
10 Dieldrin	ND	0.10 µg/L
11 Endrin	ND	0.10 µg/L
12 4,4'-DDD	ND	0.10 µg/L
13 Endosulfan II	ND	0.10 µg/L
14 Endrin aldehyde	ND	0.10 µg/L
15 4,4'-DDT	ND	0.10 µg/L
16 Endosulfan sulfate	ND	0.10 µg/L
17 Methoxychlor	ND	0.50 µg/L
18 Endrin ketone	ND	0.10 µg/L
19 Toxaphene	ND	5.0 µg/L
20 Chlordane (Technical)	ND	1.0 µg/L
21 Hexachlorobenzene	ND	0.050 µg/L

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

9/1/10

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-02A  
Client I.D. Number: NGEM-TRON-FL-RSAM-5(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 08/31/10 14:59  
Analyzed: 09/01/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	1.7 µg/Kg
2 gamma-BHC (Lindane)	ND	1.7 µg/Kg
3 beta-BHC	6.8	1.7 µg/Kg
4 delta-BHC	ND	1.7 µg/Kg
5 Heptachlor	ND	1.7 µg/Kg
6 Aldrin	ND	1.7 µg/Kg
7 Heptachlor epoxide	ND	1.7 µg/Kg
8 Endosulfan I	ND	1.7 µg/Kg
9 4,4'-DDE	ND	3.3 µg/Kg
10 Dieldrin	ND	3.3 µg/Kg
11 Endrin	ND	3.3 µg/Kg
12 4,4'-DDD	ND	3.3 µg/Kg
13 Endosulfan II	ND	3.3 µg/Kg
14 Endrin aldehyde	ND	3.3 µg/Kg
15 4,4'-DDT	ND	3.3 µg/Kg
16 Endosulfan sulfate	ND	3.3 µg/Kg
17 Methoxychlor	ND	17 µg/Kg
18 Endrin ketone	ND	3.3 µg/Kg
19 Toxaphene	ND	170 µg/Kg
20 Chlordane (Technical)	ND	33 µg/Kg
21 Hexachlorobenzene	5.6	1.7 µg/Kg

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

Note: The RPD for beta-BHC exceeded 40%. Since there was not interference, the higher value was reported.

Sample results were calculated on a wet weight basis.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/1/10

**Report Date**





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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-03A  
Client I.D. Number: NGEM-TRON-FL-RSAM-6(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 08/31/10 14:59  
Analyzed: 09/01/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	1.7 µg/Kg
2 gamma-BHC (Lindane)	ND	1.7 µg/Kg
3 beta-BHC	17	1.7 µg/Kg
4 delta-BHC	ND	1.7 µg/Kg
5 Heptachlor	ND	1.7 µg/Kg
6 Aldrin	ND	1.7 µg/Kg
7 Heptachlor epoxide	ND	1.7 µg/Kg
8 Endosulfan I	ND	1.7 µg/Kg
9 4,4'-DDE	ND	3.3 µg/Kg
10 Dieldrin	ND	3.3 µg/Kg
11 Endrin	ND	3.3 µg/Kg
12 4,4'-DDD	ND	3.3 µg/Kg
13 Endosulfan II	ND	3.3 µg/Kg
14 Endrin aldehyde	ND	3.3 µg/Kg
15 4,4'-DDT	ND	3.3 µg/Kg
16 Endosulfan sulfate	ND	3.3 µg/Kg
17 Methoxychlor	ND	17 µg/Kg
18 Endrin ketone	ND	3.3 µg/Kg
19 Toxaphene	ND	170 µg/Kg
20 Chlordane (Technical)	ND	33 µg/Kg
21 Hexachlorobenzene	8.5	1.7 µg/Kg

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

Sample results were calculated on a wet weight basis.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/1/10

Report Date

Page 1 of 1



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-04A  
Client I.D. Number: NGEM-TRON-FL-SA-179(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 08/31/10 14:59  
Analyzed: 09/01/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	1.7 µg/Kg
2 gamma-BHC (Lindane)	ND	1.7 µg/Kg
3 beta-BHC	4.0	1.7 µg/Kg
4 delta-BHC	2.0	1.7 µg/Kg
5 Heptachlor	ND	1.7 µg/Kg
6 Aldrin	ND	1.7 µg/Kg
7 Heptachlor epoxide	ND	1.7 µg/Kg
8 Endosulfan I	ND	1.7 µg/Kg
9 4,4'-DDE	ND	3.3 µg/Kg
10 Dieldrin	ND	3.3 µg/Kg
11 Endrin	ND	3.3 µg/Kg
12 4,4'-DDD	ND	3.3 µg/Kg
13 Endosulfan II	ND	3.3 µg/Kg
14 Endrin aldehyde	ND	3.3 µg/Kg
15 4,4'-DDT	ND	3.3 µg/Kg
16 Endosulfan sulfate	ND	3.3 µg/Kg
17 Methoxychlor	ND	17 µg/Kg
18 Endrin ketone	ND	3.3 µg/Kg
19 Toxaphene	ND	170 µg/Kg
20 Chlordane (Technical)	ND	33 µg/Kg
21 Hexachlorobenzene	12	1.7 µg/Kg

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

Sample results were calculated on a wet weight basis.  
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/1/10

Report Date



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## ANALYTICAL REPORT

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El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-05A  
Client I.D. Number: NGEM-TRON-FL-SA-189(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 08/31/10 14:59  
Analyzed: 09/01/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	1.7 µg/Kg
2 gamma-BHC (Lindane)	ND	1.7 µg/Kg
3 beta-BHC	23	1.7 µg/Kg
4 delta-BHC	ND	1.7 µg/Kg
5 Heptachlor	ND	1.7 µg/Kg
6 Aldrin	ND	1.7 µg/Kg
7 Heptachlor epoxide	ND	1.7 µg/Kg
8 Endosulfan I	ND	1.7 µg/Kg
9 4,4'-DDE	4.1	3.3 µg/Kg
10 Dieldrin	ND	3.3 µg/Kg
11 Endrin	ND	3.3 µg/Kg
12 4,4'-DDD	ND	3.3 µg/Kg
13 Endosulfan II	ND	3.3 µg/Kg
14 Endrin aldehyde	ND	3.3 µg/Kg
15 4,4'-DDT	ND	3.3 µg/Kg
16 Endosulfan sulfate	ND	3.3 µg/Kg
17 Methoxychlor	ND	17 µg/Kg
18 Endrin ketone	ND	3.3 µg/Kg
19 Toxaphene	ND	170 µg/Kg
20 Chlordane (Technical)	ND	33 µg/Kg
21 Hexachlorobenzene	16	1.7 µg/Kg

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

Sample results were calculated on a wet weight basis.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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9/1/10

**Report Date**

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-01A  
Client I.D. Number: NGEM-TRON-FL-GW

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 08/31/10  
Analyzed: 08/31/10

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	2.0 µg/L	26 Tetrachloroethene	ND	1.0 µg/L
2 Vinyl chloride	ND	1.0 µg/L	27 Chlorobenzene	ND	1.0 µg/L
3 Chloroethane	ND	1.0 µg/L	28 Ethylbenzene	ND	0.50 µg/L
4 Bromomethane	ND	2.0 µg/L	29 m,p-Xylene	ND	0.50 µg/L
5 Trichlorofluoromethane	ND	1.0 µg/L	30 Bromoform	ND	1.0 µg/L
6 Acetone	ND	10 µg/L	31 o-Xylene	ND	0.50 µg/L
7 1,1-Dichloroethene	ND	1.0 µg/L	32 1,1,2,2-Tetrachloroethane	ND	1.0 µg/L
8 Dichloromethane	ND	2.0 µg/L	33 1,3-Dichlorobenzene	ND	1.0 µg/L
9 trans-1,2-Dichloroethene	ND	1.0 µg/L	34 1,4-Dichlorobenzene	ND	1.0 µg/L
10 Methyl tert-butyl ether (MTBE)	ND	0.50 µg/L	35 1,2-Dichlorobenzene	ND	1.0 µg/L
11 1,1-Dichloroethane	ND	1.0 µg/L			
12 cis-1,2-Dichloroethene	ND	1.0 µg/L			
13 Chloroform	1.3	1.0 µg/L			
14 1,2-Dichloroethane	ND	1.0 µg/L			
15 1,1,1-Trichloroethane	ND	1.0 µg/L			
16 Carbon tetrachloride	ND	1.0 µg/L			
17 Benzene	ND	0.50 µg/L			
18 1,2-Dichloropropane	ND	1.0 µg/L			
19 Trichloroethene	ND	1.0 µg/L			
20 Bromodichloromethane	ND	1.0 µg/L			
21 cis-1,3-Dichloropropene	ND	1.0 µg/L			
22 trans-1,3-Dichloropropene	ND	1.0 µg/L			
23 1,1,2-Trichloroethane	ND	1.0 µg/L			
24 Toluene	ND	0.50 µg/L			
25 Dibromochloromethane	ND	1.0 µg/L			

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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*[Signature]*  
9/1/10

Report Date

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# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-02A  
Client I.D. Number: NGEM-TRON-FL-RSAM-5(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 09/01/10  
Analyzed: 09/01/10

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/Kg	26 Tetrachloroethene	ND	20 µg/Kg
2 Vinyl chloride	ND	20 µg/Kg	27 Chlorobenzene	ND	20 µg/Kg
3 Chloroethane	ND	20 µg/Kg	28 Ethylbenzene	ND	5.0 µg/Kg
4 Bromomethane	ND	40 µg/Kg	29 m,p-Xylene	ND	5.0 µg/Kg
5 Trichlorofluoromethane	ND	20 µg/Kg	30 Bromoform	ND	20 µg/Kg
6 Acetone	ND	200 µg/Kg	31 o-Xylene	ND	5.0 µg/Kg
7 1,1-Dichloroethene	ND	20 µg/Kg	32 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
8 Dichloromethane	ND	40 µg/Kg	33 1,3-Dichlorobenzene	ND	20 µg/Kg
9 trans-1,2-Dichloroethene	ND	20 µg/Kg	34 1,4-Dichlorobenzene	ND	20 µg/Kg
10 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	35 1,2-Dichlorobenzene	ND	20 µg/Kg
11 1,1-Dichloroethane	ND	20 µg/Kg			
12 cis-1,2-Dichloroethene	ND	20 µg/Kg			
13 Chloroform	ND	20 µg/Kg			
14 1,2-Dichloroethane	ND	20 µg/Kg			
15 1,1,1-Trichloroethane	ND	20 µg/Kg			
16 Carbon tetrachloride	ND	20 µg/Kg			
17 Benzene	ND	5.0 µg/Kg			
18 1,2-Dichloropropane	ND	20 µg/Kg			
19 Trichloroethene	ND	20 µg/Kg			
20 Bromodichloromethane	ND	20 µg/Kg			
21 cis-1,3-Dichloropropene	ND	20 µg/Kg			
22 trans-1,3-Dichloropropene	ND	20 µg/Kg			
23 1,1,2-Trichloroethane	ND	20 µg/Kg			
24 Toluene	ND	5.0 µg/Kg			
25 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-03A  
Client I.D. Number: NGEM-TRON-FL-RSAM-6(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 09/01/10  
Analyzed: 09/01/10

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/Kg	26 Tetrachloroethene	ND	20 µg/Kg
2 Vinyl chloride	ND	20 µg/Kg	27 Chlorobenzene	ND	20 µg/Kg
3 Chloroethane	ND	20 µg/Kg	28 Ethylbenzene	ND	5.0 µg/Kg
4 Bromomethane	ND	40 µg/Kg	29 m,p-Xylene	ND	5.0 µg/Kg
5 Trichlorofluoromethane	ND	20 µg/Kg	30 Bromoform	ND	20 µg/Kg
6 Acetone	ND	200 µg/Kg	31 o-Xylene	ND	5.0 µg/Kg
7 1,1-Dichloroethene	ND	20 µg/Kg	32 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
8 Dichloromethane	ND	40 µg/Kg	33 1,3-Dichlorobenzene	ND	20 µg/Kg
9 trans-1,2-Dichloroethene	ND	20 µg/Kg	34 1,4-Dichlorobenzene	ND	20 µg/Kg
10 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	35 1,2-Dichlorobenzene	ND	20 µg/Kg
11 1,1-Dichloroethane	ND	20 µg/Kg			
12 cis-1,2-Dichloroethene	ND	20 µg/Kg			
13 Chloroform	ND	20 µg/Kg			
14 1,2-Dichloroethane	ND	20 µg/Kg			
15 1,1,1-Trichloroethane	ND	20 µg/Kg			
16 Carbon tetrachloride	ND	20 µg/Kg			
17 Benzene	ND	5.0 µg/Kg			
18 1,2-Dichloropropane	ND	20 µg/Kg			
19 Trichloroethene	ND	20 µg/Kg			
20 Bromodichloromethane	ND	20 µg/Kg			
21 cis-1,3-Dichloropropene	ND	20 µg/Kg			
22 trans-1,3-Dichloropropene	ND	20 µg/Kg			
23 1,1,2-Trichloroethane	ND	20 µg/Kg			
24 Toluene	ND	5.0 µg/Kg			
25 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-04A  
Client I.D. Number: NGEM-TRON-FL-SA-179(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 09/01/10  
Analyzed: 09/01/10

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/Kg	26 Tetrachloroethene	ND	20 µg/Kg
2 Vinyl chloride	ND	20 µg/Kg	27 Chlorobenzene	ND	20 µg/Kg
3 Chloroethane	ND	20 µg/Kg	28 Ethylbenzene	ND	5.0 µg/Kg
4 Bromomethane	ND	40 µg/Kg	29 m,p-Xylene	ND	5.0 µg/Kg
5 Trichlorofluoromethane	ND	20 µg/Kg	30 Bromoform	ND	20 µg/Kg
6 Acetone	ND	200 µg/Kg	31 o-Xylene	ND	5.0 µg/Kg
7 1,1-Dichloroethene	ND	20 µg/Kg	32 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
8 Dichloromethane	ND	40 µg/Kg	33 1,3-Dichlorobenzene	ND	20 µg/Kg
9 trans-1,2-Dichloroethene	ND	20 µg/Kg	34 1,4-Dichlorobenzene	ND	20 µg/Kg
10 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	35 1,2-Dichlorobenzene	ND	20 µg/Kg
11 1,1-Dichloroethane	ND	20 µg/Kg			
12 cis-1,2-Dichloroethene	ND	20 µg/Kg			
13 Chloroform	ND	20 µg/Kg			
14 1,2-Dichloroethane	ND	20 µg/Kg			
15 1,1,1-Trichloroethane	ND	20 µg/Kg			
16 Carbon tetrachloride	ND	20 µg/Kg			
17 Benzene	ND	5.0 µg/Kg			
18 1,2-Dichloropropane	ND	20 µg/Kg			
19 Trichloroethene	ND	20 µg/Kg			
20 Bromodichloromethane	ND	20 µg/Kg			
21 cis-1,3-Dichloropropene	ND	20 µg/Kg			
22 trans-1,3-Dichloropropene	ND	20 µg/Kg			
23 1,1,2-Trichloroethane	ND	20 µg/Kg			
24 Toluene	ND	5.0 µg/Kg			
25 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

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# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083122-05A  
Client I.D. Number: NGEM-TRON-FL-SA-189(SO)

Sampled: 08/30/10 17:00  
Received: 08/31/10  
Extracted: 09/01/10  
Analyzed: 09/01/10

### Volatile Organics by GC/MS EPA Method SW8260B

Compound	Concentration	Reporting Limit	Compound	Concentration	Reporting Limit
1 Chloromethane	ND	40 µg/Kg	26 Tetrachloroethene	ND	20 µg/Kg
2 Vinyl chloride	ND	20 µg/Kg	27 Chlorobenzene	ND	20 µg/Kg
3 Chloroethane	ND	20 µg/Kg	28 Ethylbenzene	ND	5.0 µg/Kg
4 Bromomethane	ND	40 µg/Kg	29 m,p-Xylene	ND	5.0 µg/Kg
5 Trichlorofluoromethane	ND	20 µg/Kg	30 Bromoform	ND	20 µg/Kg
6 Acetone	ND	200 µg/Kg	31 o-Xylene	ND	5.0 µg/Kg
7 1,1-Dichloroethene	ND	20 µg/Kg	32 1,1,2,2-Tetrachloroethane	ND	20 µg/Kg
8 Dichloromethane	ND	40 µg/Kg	33 1,3-Dichlorobenzene	ND	20 µg/Kg
9 trans-1,2-Dichloroethene	ND	20 µg/Kg	34 1,4-Dichlorobenzene	ND	20 µg/Kg
10 Methyl tert-butyl ether (MTBE)	ND	5.0 µg/Kg	35 1,2-Dichlorobenzene	ND	20 µg/Kg
11 1,1-Dichloroethane	ND	20 µg/Kg			
12 cis-1,2-Dichloroethene	ND	20 µg/Kg			
13 Chloroform	ND	20 µg/Kg			
14 1,2-Dichloroethane	ND	20 µg/Kg			
15 1,1,1-Trichloroethane	ND	20 µg/Kg			
16 Carbon tetrachloride	ND	20 µg/Kg			
17 Benzene	ND	5.0 µg/Kg			
18 1,2-Dichloropropane	ND	20 µg/Kg			
19 Trichloroethene	ND	20 µg/Kg			
20 Bromodichloromethane	ND	20 µg/Kg			
21 cis-1,3-Dichloropropene	ND	20 µg/Kg			
22 trans-1,3-Dichloropropene	ND	20 µg/Kg			
23 1,1,2-Trichloroethane	ND	20 µg/Kg			
24 Toluene	ND	5.0 µg/Kg			
25 Dibromochloromethane	ND	20 µg/Kg			

Sample results were calculated on a wet weight basis.  
ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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# Alpha Analytical, Inc.

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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8081A**

File ID: **10090111.D**

Batch ID: **24976**

Analysis Date: **09/01/2010 11:42**

Sample ID: **MBLK-24976**

Units: **µg/Kg**

Run ID: **ECD\_1\_100831B**

Prep Date: **08/31/2010 14:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	ND	1.7								
gamma-BHC (Lindane)	ND	1.7								
beta-BHC	ND	1.7								
delta-BHC	ND	1.7								
Heptachlor	ND	1.7								
Aldrin	ND	1.7								
Heptachlor epoxide	ND	1.7								
Endosulfan I	ND	1.7								
4,4'-DDE	ND	3.3								
Dieldrin	ND	3.3								
Endrin	ND	3.3								
4,4'-DDD	ND	3.3								
Endosulfan II	ND	3.3								
Endrin aldehyde	ND	3.3								
4,4'-DDT	ND	3.3								
Endosulfan sulfate	ND	3.3								
Methoxychlor	ND	17								
Endrin ketone	ND	3.3								
Toxaphene	ND	170								
Chlordane (Technical)	ND	33								
Surr: Tetrachloro-m-xylene	19.1		20		96	30	130			
Surr: Decachlorobiphenyl	35		20		175	34	142			S55

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8081A**

File ID: **10090112.D**

Batch ID: **24976**

Analysis Date: **09/01/2010 11:53**

Sample ID: **LCS-24976**

Units: **µg/Kg**

Run ID: **ECD\_1\_100831B**

Prep Date: **08/31/2010 14:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	19.3	1.7	20		97	62	130			
gamma-BHC (Lindane)	20.9	1.7	20		105	61	130			
beta-BHC	21.2	1.7	20		106	52	130			
delta-BHC	20.5	1.7	20		102	59	130			
Heptachlor	20.7	1.7	20		104	64	130			
Aldrin	21.3	1.7	20		107	58	130			
Heptachlor epoxide	21.2	1.7	20		106	59	130			
Endosulfan I	13.3	1.7	20		66	38	130			
4,4'-DDE	20.8	3.3	20		104	70	130			
Dieldrin	21	3.3	20		105	68	130			
Endrin	23	3.3	20		115	41	130			
4,4'-DDD	21.9	3.3	20		110	62	130			
Endosulfan II	15.9	3.3	20		79	51	130			
4,4'-DDT	19.9	3.3	20		99.6	66	130			
Endosulfan sulfate	20.8	3.3	20		104	70	130			
Methoxychlor	21.6	17	20		108	68	130			
Endrin ketone	21.7	3.3	20		109	62	130			
Surr: Tetrachloro-m-xylene	19.1		20		96	30	130			
Surr: Decachlorobiphenyl	35.6		20		178	34	142			S55



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8081A**

File ID: **10090115.D**

Batch ID: **24976**

Analysis Date: **09/01/2010 12:28**

Sample ID: **10083122-02AMS**

Units : **µg/Kg**

Run ID: **ECD\_1\_100831B**

Prep Date: **08/31/2010 14:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	20.6	1.7	20	0	103	22	130			
gamma-BHC (Lindane)	22.6	1.7	20	0	113	23	130			
beta-BHC	22.7	1.7	20	0	114	20	130			
delta-BHC	22	1.7	20	0	110	28	130			
Heptachlor	21.8	1.7	20	0	109	25	130			
Aldrin	22.5	1.7	20	0	112	24	130			
Heptachlor epoxide	22.5	1.7	20	0	113	21	130			
Endosulfan I	13.2	1.7	20	0	66	20	130			
4,4'-DDE	22.2	3.3	20	0	111	20	130			
Dieldrin	21.6	3.3	20	0	108	20	130			
Endrin	24.4	3.3	20	0	122	20	133			
4,4'-DDD	22.9	3.3	20	0	114	20	130			
Endosulfan II	17.6	3.3	20	0	88	20	130			
4,4'-DDT	21.6	3.3	20	0	108	20	150			
Endosulfan sulfate	23.8	3.3	20	0	119	20	130			
Methoxychlor	22.5	17	20	0	112	20	141			
Endrin ketone	22.7	3.3	20	0	114	20	130			
Surr: Tetrachloro-m-xylene	19.5		20		97	30	130			
Surr: Decachlorobiphenyl	37.3		20		187	34	142			S55

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8081A**

File ID: **10090116.D**

Batch ID: **24976**

Analysis Date: **09/01/2010 12:40**

Sample ID: **10083122-02AMSD**

Units : **µg/Kg**

Run ID: **ECD\_1\_100831B**

Prep Date: **08/31/2010 14:59**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	20	1.7	20	0	100	22	130	20.57	2.8(20)	
gamma-BHC (Lindane)	21.8	1.7	20	0	109	23	130	22.56	3.4(20)	
beta-BHC	24.5	1.7	20	0	123	20	130	22.74	7.6(20)	
delta-BHC	21.6	1.7	20	0	108	28	130	22.02	1.9(20)	
Heptachlor	21.4	1.7	20	0	107	25	130	21.78	1.6(20)	
Aldrin	21.2	1.7	20	0	106	24	130	22.49	5.7(20)	
Heptachlor epoxide	21.9	1.7	20	0	110	21	130	22.51	2.7(20)	
Endosulfan I	14.2	1.7	20	0	71	20	130	13.16	7.4(20)	
4,4'-DDE	23	3.3	20	0	115	20	130	22.17	3.5(20)	
Dieldrin	23.2	3.3	20	0	116	20	130	21.56	7.3(20)	
Endrin	26.5	3.3	20	0	133	20	133	24.42	8.2(20)	
4,4'-DDD	23.6	3.3	20	0	118	20	130	22.88	3.3(20)	
Endosulfan II	18.3	3.3	20	0	92	20	130	17.57	4.2(20)	
4,4'-DDT	21.2	3.3	20	0	106	20	150	21.57	1.6(20)	
Endosulfan sulfate	24.7	3.3	20	0	124	20	130	23.79	3.9(20)	
Methoxychlor	22.3	17	20	0	111	20	141	22.45	0.9(20)	
Endrin ketone	21.6	3.3	20	0	108	20	130	18.67	14.5(20)	
Surr: Tetrachloro-m-xylene	19.7		20		99	30	130			
Surr: Decachlorobiphenyl	38.5		20		192	34	142			S55

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.

Sample data was verified by second column confirmation.



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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Method Blank

File ID: 10083129.D

Type **MBLK** Test Code: **EPA Method SW8081A**

Batch ID: 24975

Analysis Date: 08/31/2010 23:00

Sample ID: **MBLK-24975**

Units : **µg/L**

Run ID: **ECD\_1\_100831A**

Prep Date: 08/31/2010 14:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	ND	0.05								
gamma-BHC (Lindane)	ND	0.05								
beta-BHC	ND	0.05								
delta-BHC	ND	0.05								
Heptachlor	ND	0.05								
Aldrin	ND	0.05								
Heptachlor epoxide	ND	0.05								
Endosulfan I	ND	0.05								
4,4'-DDE	ND	0.1								
Dieldrin	ND	0.1								
Endrin	ND	0.1								
4,4'-DDD	ND	0.1								
Endosulfan II	ND	0.1								
Endrin aldehyde	ND	0.1								
4,4'-DDT	ND	0.1								
Endosulfan sulfate	ND	0.1								
Methoxychlor	ND	0.5								
Endrin ketone	ND	0.1								
Toxaphene	ND	5								
Chlordane (Technical)	ND	1								
Surr: Tetrachloro-m-xylene	0.44		0.5		88	26	130			
Surr: Decachlorobiphenyl	0.52		0.5		104	31	141			

### Laboratory Control Spike

File ID: 10083130.D

Type **LCS** Test Code: **EPA Method SW8081A**

Batch ID: 24975

Analysis Date: 08/31/2010 23:12

Sample ID: **LCS-24975**

Units : **µg/L**

Run ID: **ECD\_1\_100831A**

Prep Date: 08/31/2010 14:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.48	0.05	0.5		96	63	130			
gamma-BHC (Lindane)	0.52	0.05	0.5		104	67	130			
beta-BHC	0.52	0.05	0.5		104	69	130			
delta-BHC	0.51	0.05	0.5		102	70	130			
Heptachlor	0.48	0.05	0.5		96	50	130			
Aldrin	0.49	0.05	0.5		98	37	130			
Heptachlor epoxide	0.53	0.05	0.5		106	70	130			
Endosulfan I	0.33	0.05	0.5		66	44	130			
4,4'-DDE	0.48	0.1	0.5		96	64	130			
Dieldrin	0.51	0.1	0.5		102	70	130			
Endrin	0.49	0.1	0.5		98	70	136			
4,4'-DDD	0.54	0.1	0.5		108	70	130			
Endosulfan II	0.41	0.1	0.5		82	60	130			
4,4'-DDT	0.48	0.1	0.5		96	69	131			
Endosulfan sulfate	0.51	0.1	0.5		102	68	133			
Methoxychlor	0.55	0.5	0.5		110	68	135			
Endrin ketone	0.53	0.1	0.5		106	66	130			
Surr: Tetrachloro-m-xylene	0.45		0.5		90	26	130			
Surr: Decachlorobiphenyl	0.52		0.5		104	31	141			



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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Sample Matrix Spike

File ID: 10083133.D

Type MS

Test Code: EPA Method SW8081A

Sample ID: 10083123-01AMS

Units : µg/L

Run ID: ECD\_1\_100831A

Batch ID: 24975

Analysis Date: 08/31/2010 23:47

Prep Date: 08/31/2010 14:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	1.07	0.05	1	0	107	45	130			
gamma-BHC (Lindane)	0.98	0.05	1	0	98	56	130			
beta-BHC	1.02	0.05	1	0	102	20	152			
delta-BHC	0.86	0.05	1	0	86	39	130			
Heptachlor	1.08	0.05	1	0	108	40	130			
Aldrin	0.95	0.05	1	0	95	20	133			
Heptachlor epoxide	0.95	0.05	1	0	95	62	130			
Endosulfan I	0.63	0.05	1	0	63	32	130			
4,4'-DDE	1.22	0.1	1	0	122	59	130			
Dieldrin	1.15	0.1	1	0	115	66	130			
Endrin	1.08	0.1	1	0	108	58	142			
4,4'-DDD	1.08	0.1	1	0	108	60	130			
Endosulfan II	1.01	0.1	1	0.31	70	41	130			
4,4'-DDT	1.06	0.1	1	0	106	57	134			
Endosulfan sulfate	1.2	0.1	1	0	120	60	134			
Methoxychlor	1.08	0.5	1	0	108	42	160			
Endrin ketone	1.04	0.1	1	0	104	57	133			
Surr: Tetrachloro-m-xylene	0.85		1		85	26	130			
Surr: Decachlorobiphenyl	1.75		1		175	31	141			S55

### Sample Matrix Spike Duplicate

File ID: 10083134.D

Type MSD

Test Code: EPA Method SW8081A

Sample ID: 10083123-01AMSD

Units : µg/L

Run ID: ECD\_1\_100831A

Batch ID: 24975

Analysis Date: 08/31/2010 23:59

Prep Date: 08/31/2010 14:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	1.09	0.05	1	0	109	45	130	1.07	1.9(20)	
gamma-BHC (Lindane)	1.02	0.05	1	0	102	56	130	0.98	4.0(20)	
beta-BHC	1.05	0.05	1	0	105	20	152	1.02	2.9(20)	
delta-BHC	1.07	0.05	1	0	107	39	130	0.86	21.8(20)	R5
Heptachlor	1.15	0.05	1	0	115	40	130	1.08	6.3(20)	
Aldrin	1.01	0.05	1	0	101	20	133	0.95	6.1(20)	
Heptachlor epoxide	0.98	0.05	1	0	98	62	130	0.95	3.1(20)	
Endosulfan I	0.65	0.05	1	0	65	32	130	0.63	3.1(20)	
4,4'-DDE	1.28	0.1	1	0	128	59	130	1.22	4.8(20)	
Dieldrin	1.18	0.1	1	0	118	66	130	1.15	2.6(20)	
Endrin	1.66	0.1	1	0	166	58	142	1.08	42.3(20)	M1 R58
4,4'-DDD	1.07	0.1	1	0	107	60	130	1.08	0.9(20)	
Endosulfan II	1.04	0.1	1	0.31	73	41	130	1.01	2.9(20)	
4,4'-DDT	1.14	0.1	1	0	114	57	134	1.06	7.3(20)	
Endosulfan sulfate	1.25	0.1	1	0	125	60	134	1.2	4.1(20)	
Methoxychlor	1.16	0.5	1	0	116	42	160	1.08	7.1(20)	
Endrin ketone	1.06	0.1	1	0	106	57	133	1.04	1.9(20)	
Surr: Tetrachloro-m-xylene	0.91		1		91	26	130			
Surr: Decachlorobiphenyl	1.92		1		192	31	141			S55

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

R58 = MS/MSD RPD exceeded the laboratory control limit.

Sample data was verified by second column confirmation.



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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **10090107.D**

Batch ID: **MS15S4973A**

Analysis Date: **09/01/2010 09:39**

Sample ID: **MBLK MS15S4973A**

Units : **µg/Kg**

Run ID: **MSD\_15\_100901B**

Prep Date: **09/01/2010 09:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	40								
Vinyl chloride	ND	20								
Chloroethane	ND	20								
Bromomethane	ND	40								
Trichlorofluoromethane	ND	20								
Acetone	ND	200								
1,1-Dichloroethene	ND	20								
Dichloromethane	ND	40								
trans-1,2-Dichloroethene	ND	20								
Methyl tert-butyl ether (MTBE)	ND	5								
1,1-Dichloroethane	ND	20								
cis-1,2-Dichloroethene	ND	20								
Chloroform	ND	20								
1,2-Dichloroethane	ND	20								
1,1,1-Trichloroethane	ND	20								
Carbon tetrachloride	ND	20								
Benzene	ND	5								
1,2-Dichloropropane	ND	20								
Trichloroethene	ND	20								
Bromodichloromethane	ND	20								
cis-1,3-Dichloropropene	ND	20								
trans-1,3-Dichloropropene	ND	20								
1,1,2-Trichloroethane	ND	20								
Toluene	ND	5								
Dibromochloromethane	ND	20								
Tetrachloroethene	ND	20								
Chlorobenzene	ND	20								
Ethylbenzene	ND	5								
m,p-Xylene	ND	5								
Bromoform	ND	20								
o-Xylene	ND	5								
1,1,2,2-Tetrachloroethane	ND	20								
1,3-Dichlorobenzene	ND	20								
1,4-Dichlorobenzene	ND	20								
1,2-Dichlorobenzene	ND	20								
Surr: 1,2-Dichloroethane-d4	187		200		94	70	130			
Surr: Toluene-d8	212		200		106	70	130			
Surr: 4-Bromofluorobenzene	179		200		90	70	130			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **10090112.D**

Batch ID: **MS15S4973A**

Analysis Date: **09/01/2010 11:28**

Sample ID: **LCS MS15S4973A**

Units : **µg/Kg**

Run ID: **MSD\_15\_100901B**

Prep Date: **09/01/2010 11:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	173	20	400		43	10	143			
Methyl tert-butyl ether (MTBE)	460	10	400		115	65	144			
Benzene	472	10	400		118	70	136			
Trichloroethene	493	20	400		123	70	138			
Toluene	461	10	400		115	70	135			
Chlorobenzene	443	20	400		111	70	135			
Ethylbenzene	462	10	400		115	70	137			
m,p-Xylene	511	10	400		128	70	143			
o-Xylene	511	10	400		128	70	143			
Surr: 1,2-Dichloroethane-d4	362		400		90	70	130			
Surr: Toluene-d8	398		400		100	70	130			
Surr: 4-Bromofluorobenzene	375		400		94	70	130			



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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Sample Matrix Spike

Type MS

Test Code: EPA Method SW8260B

File ID: 10090114.D

Batch ID: MS15S4973A

Analysis Date: 09/01/2010 12:11

Sample ID: 10083143-04AMS

Units: µg/Kg

Run ID: MSD\_15\_100901B

Prep Date: 09/01/2010 12:11

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	184	20	400	0	46	10	143			
Methyl tert-butyl ether (MTBE)	431	10	400	0	108	42	156			
Benzene	452	10	400	0	113	57	143			
Trichloroethene	468	20	400	0	117	52	154			
Toluene	455	10	400	0	114	53	142			
Chlorobenzene	431	20	400	0	108	55	142			
Ethylbenzene	567	10	400	183.4	96	56	145			
m,p-Xylene	543	10	400	76.29	117	53	154			
o-Xylene	499	10	400	0	125	60	148			
Surr: 1,2-Dichloroethane-d4	357		400		89	70	130			
Surr: Toluene-d8	397		400		99	70	130			
Surr: 4-Bromofluorobenzene	373		400		93	70	130			

### Sample Matrix Spike Duplicate

Type MSD

Test Code: EPA Method SW8260B

File ID: 10090115.D

Batch ID: MS15S4973A

Analysis Date: 09/01/2010 12:33

Sample ID: 10083143-04AMSD

Units: µg/Kg

Run ID: MSD\_15\_100901B

Prep Date: 09/01/2010 12:33

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	192	20	400	0	48	10	143	184.4	3.9(20)	
Methyl tert-butyl ether (MTBE)	442	10	400	0	110	42	156	431.2	2.4(20)	
Benzene	463	10	400	0	116	57	143	452.3	2.4(20)	
Trichloroethene	483	20	400	0	121	52	154	468.1	3.2(20)	
Toluene	467	10	400	0	117	53	142	455.5	2.4(20)	
Chlorobenzene	450	20	400	0	113	55	142	430.9	4.4(20)	
Ethylbenzene	638	10	400	183.4	114	56	145	566.7	11.9(20)	
m,p-Xylene	578	10	400	76.29	125	53	154	543	6.3(20)	
o-Xylene	517	10	400	0	129	60	148	498.7	3.6(20)	
Surr: 1,2-Dichloroethane-d4	354		400		88	70	130			
Surr: Toluene-d8	402		400		101	70	130			
Surr: 4-Bromofluorobenzene	376		400		94	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: **10083104.D**

Batch ID: **MS12W0831A**

Analysis Date: **08/31/2010 10:02**

Sample ID: **MBLK MS12W0831A**

Units: **µg/L**

Run ID: **MSD\_12\_100831B**

Prep Date: **08/31/2010 10:02**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloromethane	ND	2								
Vinyl chloride	ND	1								
Chloroethane	ND	1								
Bromomethane	ND	2								
Trichlorofluoromethane	ND	1								
Acetone	ND	10								
1,1-Dichloroethene	ND	1								
Dichloromethane	ND	2								
trans-1,2-Dichloroethene	ND	1								
Methyl tert-butyl ether (MTBE)	ND	0.5								
1,1-Dichloroethane	ND	1								
cis-1,2-Dichloroethene	ND	1								
Chloroform	ND	1								
1,2-Dichloroethane	ND	1								
1,1,1-Trichloroethane	ND	1								
Carbon tetrachloride	ND	1								
Benzene	ND	0.5								
1,2-Dichloropropane	ND	1								
Trichloroethene	ND	1								
Bromodichloromethane	ND	1								
cis-1,3-Dichloropropene	ND	1								
trans-1,3-Dichloropropene	ND	1								
1,1,2-Trichloroethane	ND	1								
Toluene	ND	0.5								
Dibromochloromethane	ND	1								
Tetrachloroethene	ND	1								
Chlorobenzene	ND	1								
Ethylbenzene	ND	0.5								
m,p-Xylene	ND	0.5								
Bromoform	ND	1								
o-Xylene	ND	0.5								
1,1,1,2-Tetrachloroethane	ND	1								
1,3-Dichlorobenzene	ND	1								
1,4-Dichlorobenzene	ND	1								
1,2-Dichlorobenzene	ND	1								
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.81		10		98	70	130			
Surr: 4-Bromofluorobenzene	9.03		10		90	70	130			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: **10083103.D**

Batch ID: **MS12W0831A**

Analysis Date: **08/31/2010 09:39**

Sample ID: **LCS MS12W0831A**

Units: **µg/L**

Run ID: **MSD\_12\_100831B**

Prep Date: **08/31/2010 09:39**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	9.48	1	10		95	80	120			
Methyl tert-butyl ether (MTBE)	9.28	0.5	10		93	62	136			
Benzene	9.44	0.5	10		94	70	130			
Trichloroethene	9.44	1	10		94	70	130			
Toluene	8.83	0.5	10		88	80	120			
Chlorobenzene	8.98	1	10		90	70	130			
Ethylbenzene	8.67	0.5	10		87	80	120			
m,p-Xylene	9.55	0.5	10		96	70	130			
o-Xylene	8.51	0.5	10		85	70	130			
Surr: 1,2-Dichloroethane-d4	11.2		10		112	70	130			
Surr: Toluene-d8	9.63		10		96	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			



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Date:  
02-Sep-10

## QC Summary Report

Work Order:  
10083122

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: **10083119.D**

Batch ID: **MS12W0831A**

Analysis Date: **08/31/2010 16:06**

Sample ID: **10082644-03AMS**

Units : **µg/L**

Run ID: **MSD\_12\_100831B**

Prep Date: **08/31/2010 16:06**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	46.5	2.5	50	0	93	60	130			
Methyl tert-butyl ether (MTBE)	43.3	1.3	50	0	87	56	141			
Benzene	47.4	1.3	50	0	95	67	130			
Trichloroethene	49	2.5	50	0	98	69	130			
Toluene	43.8	1.3	50	0	88	66	130			
Chlorobenzene	45.8	2.5	50	0	92	70	130			
Ethylbenzene	43.4	1.3	50	0	87	68	130			
m,p-Xylene	47.1	1.3	50	0	94	64	130			
o-Xylene	42	1.3	50	0	84	70	130			
Surr: 1,2-Dichloroethane-d4	56		50		112	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	50.6		50		101	70	130			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: **10083120.D**

Batch ID: **MS12W0831A**

Analysis Date: **08/31/2010 16:29**

Sample ID: **10082644-03AMSD**

Units : **µg/L**

Run ID: **MSD\_12\_100831B**

Prep Date: **08/31/2010 16:29**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	48.7	2.5	50	0	97	60	130	46.49	4.7(20)	
Methyl tert-butyl ether (MTBE)	45.8	1.3	50	0	92	56	141	43.27	5.7(20)	
Benzene	48.7	1.3	50	0	97	67	130	47.36	2.8(20)	
Trichloroethene	49.7	2.5	50	0	99	69	130	48.96	1.6(20)	
Toluene	45.6	1.3	50	0	91	66	130	43.81	3.9(20)	
Chlorobenzene	47.8	2.5	50	0	96	70	130	45.75	4.5(20)	
Ethylbenzene	45.4	1.3	50	0	91	68	130	43.37	4.6(20)	
m,p-Xylene	49.8	1.3	50	0	99.6	64	130	47.12	5.5(20)	
o-Xylene	44.1	1.3	50	0	88	70	130	42.04	4.8(20)	
Surr: 1,2-Dichloroethane-d4	55.8		50		112	70	130			
Surr: Toluene-d8	47.9		50		96	70	130			
Surr: 4-Bromofluorobenzene	49.9		50		99.9	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**CA RUCOM!**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10083122

Report Due By : 5:00 PM On : 01-Sep-10

Client:

Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
 Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Cooler Temp 12 °C Samples Received 31-Aug-10 Date Printed 31-Aug-10

PO :

Job : NGENM-TRON-FL

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles		Matrix	Date	Alpha	Sub	TAT	Requested Tests				Sample Remarks
			8081_S	8081_W						VOC_S	VOC_W			
PES10083122-01A	NGEM-TRON-FL-GW	08/30/10 17:00	4	0	1	08/30/10 17:00	1	0	1	8081, Hexachlorobenzene	8081, Hexachlorobenzene	8260/MTBE/Acetone_Cs	8260/MTBE/Acetone_Cs	
PES10083122-02A	NGEM-TRON-FL-RSAM-5(SO)	08/30/10 17:00	1	0	1	08/30/10 17:00	1	0	1	8081, Hexachlorobenzene	8081, Hexachlorobenzene	8260/MTBE/Acetone_Cs	8260/MTBE/Acetone_Cs	
PES10083122-03A	NGEM-TRON-FL-RSAM-6(SO)	08/30/10 17:00	1	0	1	08/30/10 17:00	1	0	1	8081, Hexachlorobenzene	8081, Hexachlorobenzene	8260/MTBE/Acetone_Cs	8260/MTBE/Acetone_Cs	
PES10083122-04A	NGEM-TRON-FL-SA-179(SO)	08/30/10 17:00	1	0	1	08/30/10 17:00	1	0	1	8081, Hexachlorobenzene	8081, Hexachlorobenzene	8260/MTBE/Acetone_Cs	8260/MTBE/Acetone_Cs	
PES10083122-05A	NGEM-TRON-FL-SA-189(SO)	08/30/10 17:00	1	0	1	08/30/10 17:00	1	0	1	8081, Hexachlorobenzene	8081, Hexachlorobenzene	8260/MTBE/Acetone_Cs	8260/MTBE/Acetone_Cs	

Comments: 24 HR TAT. No security seals. Blue ice.

Logged in by: K Murray Signature: [Signature] Print Name: K Murray Company: Alpha Analytical, Inc. Date/Time: 8/31/10 10:50

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Ir**

Name **PRIMA ENVIRONMENTAL, Inc.**  
 Address **5070 Robert J. Mathews Parkway, Suite 300**  
 City, State **El Dorado Hills, CA 95762**  
 Phone Num **PH: 916-939-7300**  
 FAX: **916-939-7398**



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

Samples Collected From Which State? **28732**

AZ  CA  NV  WA   
 ID  OR  OTHER

Page # **1** of **1**

Analyses Required

Client Name **PRIMA ENVIRONMENTAL, Inc.** P.O. # **026EM-TR0N-FL**  
 Address **5070 Robert J. Mathews Parkway, Suite 300** Email Address **data@primaenvironmental.com**  
 City, State, Zip **El Dorado Hills, CA 95762** Phone #  Fax #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Report Attention	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	8081a	8260 (VOCs)	Required QC Level? I II III IV	Global ID #	REMARKS
1700	8/30/10	AR	CR	RES10D8312Z-01	N6EM-TR0N-FL	GVW	24hr		3V6LOT	X	X	I		8081a = Organochlorine pesticides + hexachloro benzene
						02			1-50	X	X	II		
						03				X	X	III		
						64				X	X	IV		
						05				X	X			

**ADDITIONAL INSTRUCTIONS:**

Signature	Print Name	Company	Date	Time
<i>Catherine Lyvon</i>	Catherine Lyvon	PRIMA	8/30/10	Pod 5x
<i>K. Murray</i>	K. Murray	AAI	8/31/10	1040
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by				

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S1</b>				
Lab ID : PES10083123-01A	Fluoride	ND X	130 mg/L	08/31/10 10:50 08/31/10 15:54
Date Sampled 08/30/10 14:30	Chloride	32,000	500 mg/L	08/31/10 10:50 08/31/10 15:54
	Bromide	ND X	130 mg/L	08/31/10 10:50 08/31/10 15:54
	Nitrate (NO3) - N	480	130 mg/L	08/31/10 10:50 08/31/10 15:54
	Phosphate, ortho - P	ND X	500 mg/L	08/31/10 10:50 08/31/10 15:54
	Sulfate (SO4)	3,500	500 mg/L	08/31/10 10:50 08/31/10 15:54

X = Reporting Limits were increased due to sample matrix interferences.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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<sup>A</sup>  
9/8/10

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

Perchlorate by Ion Chromatography  
EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S1 Lab ID: PES10083123-01A Perchlorate Date Sampled 08/30/10 14:30	46,900,000	4,000,000 µg/L	08/31/10 11:31	08/31/10

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/1/10  
**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10083123-01A  
Client I.D. Number: NGEM-TRON-FL-RSAM-5-S1

Sampled: 08/30/10 14:30  
Received: 08/31/10  
Extracted: 08/31/10 14:38  
Analyzed: 08/31/10

### Organochlorine Pesticides EPA Method SW8081A

Compound	Concentration	Reporting Limit
1 alpha-BHC	ND	0.050 µg/L
2 gamma-BHC (Lindane)	ND	0.050 µg/L
3 beta-BHC	ND	0.050 µg/L
4 delta-BHC	ND	0.050 µg/L
5 Heptachlor	ND	0.050 µg/L
6 Aldrin	ND	0.050 µg/L
7 Heptachlor epoxide	ND	0.050 µg/L
8 Endosulfan I	ND	0.050 µg/L
9 4,4'-DDE	ND	0.10 µg/L
10 Dieldrin	ND	0.10 µg/L
11 Endrin	ND *	0.10 µg/L
12 4,4'-DDD	ND	0.10 µg/L
13 Endosulfan II	0.31 **	0.10 µg/L
14 Endrin aldehyde	ND	0.10 µg/L
15 4,4'-DDT	ND	0.10 µg/L
16 Endosulfan sulfate	ND	0.10 µg/L
17 Methoxychlor	ND	0.50 µg/L
18 Endrin ketone	ND	0.10 µg/L
19 Toxaphene	ND	5.0 µg/L
20 Chlordane (Technical)	ND	1.0 µg/L
21 Hexachlorobenzene	ND	0.050 µg/L

Sample data was verified by second column confirmation.

\*Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

\*\*Note: The RPD for Endosulfan II exceeded 40%. Since there was not interference, the higher value was reported.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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9/8/10

Report Date

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## ANALYTICAL REPORT

Prima Environmental  
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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S1</b>				
Lab ID : PES10083123-01A Alkalinity, Bicarbonate (As CaCO3)	160	20 mg/L	09/08/10	09/08/10
Date Sampled 08/30/10 14:30 Alkalinity, Hydroxide (As CaCO3)	ND	20 mg/L	09/08/10	09/08/10
Alkalinity, Total (As CaCO3 at pH 4.5)	160	20 mg/L	09/08/10	09/08/10

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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*9/8/10*

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

Ammonia as Nitrogen  
SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S1</b>				
Lab ID: PES10083123-01A Nitrogen, Ammonia (As N)	4,400	100 mg/L	09/03/10	09/03/10
Date Sampled 08/30/10 14:30				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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*e*  
9/8/10

**Report Date**



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

### Dissolved Metals by ICPMS EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed	
Client ID: NGEM-TRON-FL-RSAM-5-S1					
Lab ID : PES10083123-01A	Boron (B), Dissolved	0.30	0.10 mg/L	09/01/10 17:34	09/02/10
Date Sampled 08/30/10 14:30	Sodium (Na), Dissolved	18,000	50 mg/L	09/01/10 17:34	09/02/10
	Magnesium (Mg), Dissolved	1,400	0.50 mg/L	09/01/10 17:34	09/02/10
	Potassium (K), Dissolved	720	0.50 mg/L	09/01/10 17:34	09/02/10
	Calcium (Ca), Dissolved	3,400	50 mg/L	09/01/10 17:34	09/02/10
	Chromium (Cr), Dissolved	0.0079	0.0050 mg/L	09/01/10 17:34	09/02/10
	Manganese (Mn), Dissolved	1.3	0.0050 mg/L	09/01/10 17:34	09/02/10
	Iron (Fe), Dissolved	21	0.10 mg/L	09/01/10 17:34	09/02/10
	Cobalt (Co), Dissolved	0.062	0.0050 mg/L	09/01/10 17:34	09/02/10
	Arsenic (As), Dissolved	0.014	0.0020 mg/L	09/01/10 17:34	09/02/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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9/8/10

Report Date





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## ANALYTICAL REPORT

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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

### Total Dissolved Solids (TDS) SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S1				
Lab ID: PES10083123-01A Solids, Total Dissolved (TDS)	110,000	500 mg/L	09/08/10	09/08/10
Date Sampled 08/30/10 14:30				

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9/8/10

**Report Date**



# Alpha Analytical, Inc.

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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

Total Organic Carbon as NonPurgeable Organic Carbon  
EPA Method SW9060 / SM5310C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S1				
Lab ID: PES10083123-01A Total Organic Carbon	41	10 mg/L	08/31/10 10:25	08/31/10
Date Sampled 08/30/10 14:30				

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/8/10  
**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 08/31/10

Job: NGEM-TRON-FL

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : NGEM-TRON-FL-RSAM-5-S1				
Lab ID : PES10083123-01A	Chloroform	5.0 µg/L	09/01/10	09/01/10
Date Sampled 08/30/10 14:30	ND O			

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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*JS*  
9/8/10

**Report Date**



# Alpha Analytical, Inc.

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Date:  
07-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

Type: MBLK Test Code: EPA Method 300.0

File ID: 20

Batch ID: 24971

Analysis Date: 08/31/2010 12:14

Sample ID: MB-24971

Units : mg/L

Run ID: IC\_1\_100831A

Prep Date: 08/31/2010 10:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	ND	0.25								
Chloride	ND	0.5								
Bromide	ND	0.25								
Nitrate (NO3) - N	ND	0.25								
Phosphate, ortho - P	ND	0.5								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Type: LFB Test Code: EPA Method 300.0

File ID: 23

Batch ID: 24971

Analysis Date: 09/01/2010 13:07

Sample ID: LFB-24971

Units : mg/L

Run ID: IC\_1\_100831A

Prep Date: 08/31/2010 10:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.45	0.25	5		109	90	110			
Chloride	48.9	0.5	50		98	90	110			
Bromide	5.18	0.25	5		104	90	110			
Nitrate (NO3) - N	5.28	0.25	5		106	90	110			
Phosphate, ortho - P	5.24	0.5	5		105	90	110			
Sulfate (SO4)	97.4	0.5	100		97	90	110			

### Sample Matrix Spike

Type: LFM Test Code: EPA Method 300.0

File ID: 26

Batch ID: 24971

Analysis Date: 08/31/2010 14:33

Sample ID: 10083101-05ALFM

Units : mg/L

Run ID: IC\_1\_100831A

Prep Date: 08/31/2010 10:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.2	0.25	5	0.5657	93	80	120			
Chloride	101	0.5	50	63.88	74	80	120			M2
Bromide	5.17	0.25	5	0	103	80	120			
Nitrate (NO3) - N	5.21	0.25	5	0	104	80	120			
Phosphate, ortho - P	5.55	0.5	5	0	111	80	120			
Sulfate (SO4)	138	0.5	100	53.19	84	80	120			

### Sample Matrix Spike Duplicate

Type: LFMD Test Code: EPA Method 300.0

File ID: 27

Batch ID: 24971

Analysis Date: 08/31/2010 14:52

Sample ID: 10083101-05ALFMD

Units : mg/L

Run ID: IC\_1\_100831A

Prep Date: 08/31/2010 10:50

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.52	0.25	5	0.5657	99	80	120	5.198	6.0(15)	
Chloride	103	0.5	50	63.88	78	80	120	100.8	2.1(15)	M2
Bromide	5.42	0.25	5	0	108	80	120	5.17	4.7(15)	
Nitrate (NO3) - N	5.4	0.25	5	0	108	80	120	5.212	3.5(15)	
Phosphate, ortho - P	5.6	0.5	5	0	112	80	120	5.549	1.0(15)	
Sulfate (SO4)	139	0.5	100	53.19	86	80	120	137.5	1.4(15)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

File ID: 14	Type	MBLK	Test Code: EPA Method 314.0	Batch ID: 24972	Analysis Date: 08/31/2010 12:27
Sample ID: MB-24972	Units :	µg/L	Run ID: IC_3_100831A	Prep Date: 08/31/2010 11:31	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Perchlorate	ND		2		

### Laboratory Fortified Blank

File ID: 15	Type	LFB	Test Code: EPA Method 314.0	Batch ID: 24972	Analysis Date: 08/31/2010 12:46
Sample ID: LFB-24972	Units :	µg/L	Run ID: IC_3_100831A	Prep Date: 08/31/2010 11:31	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Perchlorate	25.9	2	25	103	85 115

### Sample Matrix Spike

File ID: 21	Type	LFM	Test Code: EPA Method 314.0	Batch ID: 24972	Analysis Date: 08/31/2010 14:41
Sample ID: 10083101-05ALFM	Units :	µg/L	Run ID: IC_3_100831A	Prep Date: 08/31/2010 11:31	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Perchlorate	25.2	2	25	0 101	80 120

### Sample Matrix Spike Duplicate

File ID: 22	Type	LFMD	Test Code: EPA Method 314.0	Batch ID: 24972	Analysis Date: 08/31/2010 14:59
Sample ID: 10083101-05ALFMD	Units :	µg/L	Run ID: IC_3_100831A	Prep Date: 08/31/2010 11:31	
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual
Perchlorate	25.8	2	25	0 103	80 120 25.2 2.2(15)

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
07-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8081A**

File ID: **10083129.D**

Batch ID: **24975**

Analysis Date: **08/31/2010 23:00**

Sample ID: **MBLK-24975**

Units: **µg/L**

Run ID: **ECD\_1\_100831A**

Prep Date: **08/31/2010 14:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	ND	0.05								
gamma-BHC (Lindane)	ND	0.05								
beta-BHC	ND	0.05								
delta-BHC	ND	0.05								
Heptachlor	ND	0.05								
Aldrin	ND	0.05								
Heptachlor epoxide	ND	0.05								
Endosulfan I	ND	0.05								
4,4'-DDE	ND	0.1								
Dieldrin	ND	0.1								
Endrin	ND	0.1								
4,4'-DDD	ND	0.1								
Endosulfan II	ND	0.1								
Endrin aldehyde	ND	0.1								
4,4'-DDT	ND	0.1								
Endosulfan sulfate	ND	0.1								
Methoxychlor	ND	0.5								
Endrin ketone	ND	0.1								
Toxaphene	ND	5								
Chlordane (Technical)	ND	1								
Surr: Tetrachloro-m-xylene	0.44		0.5		88	26	130			
Surr: Decachlorobiphenyl	0.52		0.5		104	31	141			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8081A**

File ID: **10083130.D**

Batch ID: **24975**

Analysis Date: **08/31/2010 23:12**

Sample ID: **LCS-24975**

Units: **µg/L**

Run ID: **ECD\_1\_100831A**

Prep Date: **08/31/2010 14:38**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.48	0.05	0.5		96	63	130			
gamma-BHC (Lindane)	0.52	0.05	0.5		104	67	130			
beta-BHC	0.52	0.05	0.5		104	69	130			
delta-BHC	0.51	0.05	0.5		102	70	130			
Heptachlor	0.48	0.05	0.5		96	50	130			
Aldrin	0.49	0.05	0.5		98	37	130			
Heptachlor epoxide	0.53	0.05	0.5		106	70	130			
Endosulfan I	0.33	0.05	0.5		66	44	130			
4,4'-DDE	0.48	0.1	0.5		96	64	130			
Dieldrin	0.51	0.1	0.5		102	70	130			
Endrin	0.49	0.1	0.5		98	70	136			
4,4'-DDD	0.54	0.1	0.5		108	70	130			
Endosulfan II	0.41	0.1	0.5		82	60	130			
4,4'-DDT	0.48	0.1	0.5		96	69	131			
Endosulfan sulfate	0.51	0.1	0.5		102	68	133			
Methoxychlor	0.55	0.5	0.5		110	68	135			
Endrin ketone	0.53	0.1	0.5		106	66	130			
Surr: Tetrachloro-m-xylene	0.45		0.5		90	26	130			
Surr: Decachlorobiphenyl	0.52		0.5		104	31	141			



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Date:  
07-Sep-10

## QC Summary Report

Work Order:  
10083123

### Sample Matrix Spike

File ID: 10083133.D

Type: MS

Test Code: EPA Method SW8081A

Batch ID: 24975

Analysis Date: 08/31/2010 23:47

Sample ID: 10083123-01AMS

Units : µg/L

Run ID: ECD\_1\_100831A

Prep Date: 08/31/2010 14:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	1.07	0.05	1	0	107	45	130			
gamma-BHC (Lindane)	0.98	0.05	1	0	98	56	130			
beta-BHC	1.02	0.05	1	0	102	20	152			
delta-BHC	0.86	0.05	1	0	86	39	130			
Heptachlor	1.08	0.05	1	0	108	40	130			
Aldrin	0.95	0.05	1	0	95	20	133			
Heptachlor epoxide	0.95	0.05	1	0	95	62	130			
Endosulfan I	0.63	0.05	1	0	63	32	130			
4,4'-DDE	1.22	0.1	1	0	122	59	130			
Dieldrin	1.15	0.1	1	0	115	66	130			
Endrin	1.08	0.1	1	0	108	58	142			
4,4'-DDD	1.08	0.1	1	0	108	60	130			
Endosulfan II	1.01	0.1	1	0.31	70	41	130			
4,4'-DDT	1.06	0.1	1	0	106	57	134			
Endosulfan sulfate	1.2	0.1	1	0	120	60	134			
Methoxychlor	1.08	0.5	1	0	108	42	160			
Endrin ketone	1.04	0.1	1	0	104	57	133			
Surr: Tetrachloro-m-xylene	0.85		1		85	26	130			
Surr: Decachlorobiphenyl	1.75		1		175	31	141			S55

### Sample Matrix Spike Duplicate

File ID: 10083134.D

Type: MSD

Test Code: EPA Method SW8081A

Batch ID: 24975

Analysis Date: 08/31/2010 23:59

Sample ID: 10083123-01AMSD

Units : µg/L

Run ID: ECD\_1\_100831A

Prep Date: 08/31/2010 14:38

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	1.09	0.05	1	0	109	45	130	1.07	1.9(20)	
gamma-BHC (Lindane)	1.02	0.05	1	0	102	56	130	0.98	4.0(20)	
beta-BHC	1.05	0.05	1	0	105	20	152	1.02	2.9(20)	
delta-BHC	1.07	0.05	1	0	107	39	130	0.86	21.8(20)	R5
Heptachlor	1.15	0.05	1	0	115	40	130	1.08	6.3(20)	
Aldrin	1.01	0.05	1	0	101	20	133	0.95	6.1(20)	
Heptachlor epoxide	0.98	0.05	1	0	98	62	130	0.95	3.1(20)	
Endosulfan I	0.65	0.05	1	0	65	32	130	0.63	3.1(20)	
4,4'-DDE	1.28	0.1	1	0	128	59	130	1.22	4.8(20)	
Dieldrin	1.18	0.1	1	0	118	66	130	1.15	2.6(20)	
Endrin	1.66	0.1	1	0	166	58	142	1.08	42.3(20)	M1 R58
4,4'-DDD	1.07	0.1	1	0	107	60	130	1.08	0.9(20)	
Endosulfan II	1.04	0.1	1	0.31	73	41	130	1.01	2.9(20)	
4,4'-DDT	1.14	0.1	1	0	114	57	134	1.06	7.3(20)	
Endosulfan sulfate	1.25	0.1	1	0	125	60	134	1.2	4.1(20)	
Methoxychlor	1.16	0.5	1	0	116	42	160	1.08	7.1(20)	
Endrin ketone	1.06	0.1	1	0	106	57	133	1.04	1.9(20)	
Surr: Tetrachloro-m-xylene	0.91		1		91	26	130			
Surr: Decachlorobiphenyl	1.92		1		192	31	141			S55

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

R58 = MS/MSD RPD exceeded the laboratory control limit.

Sample data was verified by second column confirmation.



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Date:  
20-Sep-10

## QC Summary Report

Work Order:  
10083123

### Laboratory Control Spike

Type **LCS** Test Code: **SM2320B**

File ID:

Batch ID: **W0908AL**

Analysis Date: **09/08/2010 12:26**

Sample ID: **LCS-W0908AL**

Units : **mg/L**

Run ID: **WETLAB\_100908A**

Prep Date: **09/08/2010 12:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	259.6	10	250		104	80	120			
Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	259.6	10	250		104	80	120			
Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	260	10	250		104	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.





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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

Type **MBLK** Test Code: **SM4500-NH3D**

File ID: Batch ID: **W0830AM** Analysis Date: **08/30/2010 10:39**

Sample ID: **MBLK-W0830AM** Units : mg/L Run ID: **WETLAB\_100830A** Prep Date: **08/30/2010 10:39**

Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual

Nitrogen, Ammonia (As N) ND 0.1

### Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NH3D**

File ID: Batch ID: **W0830AM** Analysis Date: **08/30/2010 10:33**

Sample ID: **LCS-W0830AM** Units : mg/L Run ID: **WETLAB\_100830A** Prep Date: **08/30/2010 10:33**

Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual

Nitrogen, Ammonia (As N) 4.92 0.1 5 98 70 130

### Sample Matrix Spike

Type **MS** Test Code: **SM4500-NH3D**

File ID: Batch ID: **W0830AM** Analysis Date: **08/30/2010 10:47**

Sample ID: **10081848-01AMS** Units : mg/L Run ID: **WETLAB\_100830A** Prep Date: **08/30/2010 10:47**

Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual

Nitrogen, Ammonia (As N) 6.7 0.1 5 1.51 104 65 138

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NH3D**

File ID: Batch ID: **W0830AM** Analysis Date: **08/30/2010 10:53**

Sample ID: **10081848-01AMSD** Units : mg/L Run ID: **WETLAB\_100830A** Prep Date: **08/30/2010 10:53**

Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual

Nitrogen, Ammonia (As N) 5.85 0.1 5 1.51 87 65 138 6.7 13.5(20)

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
03-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

Type **MBLK** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\123\_M.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:06**

Sample ID: **MB-24986**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	ND	0.1								
Sodium (Na), Dissolved	ND	0.5								
Magnesium (Mg), Dissolved	ND	0.5								
Potassium (K), Dissolved	ND	0.5								
Calcium (Ca), Dissolved	ND	0.5								
Chromium (Cr), Dissolved	ND	0.005								
Manganese (Mn), Dissolved	ND	0.005								
Iron (Fe), Dissolved	ND	0.1								
Cobalt (Co), Dissolved	ND	0.005								
Arsenic (As), Dissolved	ND	0.002								
Lead (Pb), Dissolved	ND	0.005								

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\124\_M.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:12**

Sample ID: **LCS-24986**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.0435	0.1	0.058		75	80	120			L2
Sodium (Na), Dissolved	4.71	0.5	5		94	80	120			
Magnesium (Mg), Dissolved	4.7	0.5	5		94	80	120			
Potassium (K), Dissolved	4.93	0.5	5		99	80	120			
Calcium (Ca), Dissolved	4.95	0.5	5		99	80	120			
Chromium (Cr), Dissolved	0.0505	0.005	0.05		101	80	120			
Manganese (Mn), Dissolved	0.051	0.005	0.05		102	80	120			
Iron (Fe), Dissolved	5.05	0.1	5		101	80	120			
Cobalt (Co), Dissolved	0.0506	0.005	0.05		101	80	120			
Arsenic (As), Dissolved	0.0502	0.002	0.05		100	80	120			
Lead (Pb), Dissolved	0.0459	0.005	0.05		92	80	120			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\129\_SM.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:40**

Sample ID: **10083123-01AMS**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.305	0.1	0.058	0.3003	8.3	75	125			M3
Sodium (Na), Dissolved	2080	0.5	5	18230	-3E+05	75	125			M3
Magnesium (Mg), Dissolved	1330	0.5	5	1439	-2300	75	125			M3
Potassium (K), Dissolved	698	0.5	5	721.1	-470	75	125			M3
Calcium (Ca), Dissolved	3420	0.5	5	3408	300	75	125			M3
Chromium (Cr), Dissolved	0.0585	0.005	0.05	0.007854	101	75	125			
Manganese (Mn), Dissolved	1.3	0.005	0.05	1.286	34	75	125			M3
Iron (Fe), Dissolved	22.4	0.2	5	21.18	25	75	125			M3
Cobalt (Co), Dissolved	0.107	0.005	0.05	0.06205	89	75	125			
Arsenic (As), Dissolved	0.0665	0.002	0.05	0	108	75	125			
Lead (Pb), Dissolved	0.053	0.005	0.05	0	106	75	125			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW6020 / SW6020A**

File ID: **090110.B\130\_SM.D\**

Batch ID: **24986**

Analysis Date: **09/02/2010 09:46**

Sample ID: **10083123-01AMSD**

Units : **mg/L**

Run ID: **ICP/MS\_100902C**

Prep Date: **09/01/2010 17:34**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.308	0.1	0.058	0.3003	13	75	125	0.3051	0.8(20)	M3
Sodium (Na), Dissolved	18000	0.5	5	18230	-3700	75	125	2080	159.0(20)	M3 R58
Magnesium (Mg), Dissolved	1440	0.5	5	1439	60	75	125	1325	8.5(20)	M3
Potassium (K), Dissolved	775	0.5	5	721.1	1080	75	125	697.8	10.5(20)	M3
Calcium (Ca), Dissolved	3930	0.5	5	3408	10400	75	125	3423	13.8(20)	M3
Chromium (Cr), Dissolved	0.0655	0.005	0.05	0.007854	115	75	125	0.05852	11.2(20)	
Manganese (Mn), Dissolved	1.46	0.005	0.05	1.286	342	75	125	1.303	11.2(20)	M3
Iron (Fe), Dissolved	23.8	0.2	5	21.18	53	75	125	22.44	6.0(20)	M3
Cobalt (Co), Dissolved	0.119	0.005	0.05	0.06205	115	75	125	0.1067	11.2(20)	
Arsenic (As), Dissolved	0.0772	0.002	0.05	0	129	75	125	0.06647	14.9(20)	M1
Lead (Pb), Dissolved	0.0566	0.005	0.05	0	113	75	125	0.05298	6.6(20)	



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**Date:**  
03-Sep-10

## QC Summary Report

**Work Order:**  
10083123

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L2 = The associated blank spike recovery was below laboratory acceptance limits.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

R58 = MS/MSD RPD exceeded the laboratory control limit.



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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

Type **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0827DS** Analysis Date: **08/30/2010 00:00**  
Sample ID: **MBLK-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/30/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) ND 10

### Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0827DS** Analysis Date: **08/31/2010 00:00**  
Sample ID: **LCS-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/31/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) 95 10 100 95 80 120

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
01-Sep-10

## QC Summary Report

Work Order:  
10083123

<b>Method Blank</b>		Type	Test Code: <b>EPA Method SW9060 / SM5310C</b>							
File ID:			Batch ID: <b>24969</b>			Analysis Date: <b>08/31/2010 12:15</b>				
Sample ID:	<b>MBLK-24969</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100831A</b>			Prep Date: <b>08/31/2010 10:25</b>				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	ND		1							

<b>Laboratory Control Spike</b>		Type	Test Code: <b>EPA Method SW9060 / SM5310C</b>							
File ID:			Batch ID: <b>24969</b>			Analysis Date: <b>08/31/2010 12:43</b>				
Sample ID:	<b>LCS-24969</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100831A</b>			Prep Date: <b>08/31/2010 10:25</b>				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	5.11		1	5	102	74	126			

<b>Sample Matrix Spike</b>		Type	Test Code: <b>EPA Method SW9060 / SM5310C</b>							
File ID:			Batch ID: <b>24969</b>			Analysis Date: <b>08/31/2010 18:06</b>				
Sample ID:	<b>10082447-01AMS</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100831A</b>			Prep Date: <b>08/31/2010 10:25</b>				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	13.3		1	5	8.227	102	56	137		

<b>Sample Matrix Spike Duplicate</b>		Type	Test Code: <b>EPA Method SW9060 / SM5310C</b>							
File ID:			Batch ID: <b>24969</b>			Analysis Date: <b>08/31/2010 18:32</b>				
Sample ID:	<b>10082447-01AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100831A</b>			Prep Date: <b>08/31/2010 10:25</b>				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Total Organic Carbon	12.8		1	5	8.227	92	56	137	13.33	3.9(20)

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
03-Sep-10

## QC Summary Report

Work Order:  
10083123

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\100901\10090105.D**

Batch ID: **MS10W0901A**

Analysis Date: **09/01/2010 11:50**

Sample ID: **MBLK MS10W0901A**

Units: **µg/L**

Run ID: **MSD\_10\_100901A**

Prep Date: **09/01/2010 11:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	10.8		10		108	70	130			
Surr: Toluene-d8	8.73		10		87	70	130			
Surr: 4-Bromofluorobenzene	9.89		10		99	70	130			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\100901\10090108.D**

Batch ID: **MS10W0901A**

Analysis Date: **09/01/2010 12:56**

Sample ID: **LCS MS10W0901A**

Units: **µg/L**

Run ID: **MSD\_10\_100901A**

Prep Date: **09/01/2010 12:56**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	10.5	1	10		105	80	120			
Surr: 1,2-Dichloroethane-d4	11.4		10		114	70	130			
Surr: Toluene-d8	9.23		10		92	70	130			
Surr: 4-Bromofluorobenzene	10.1		10		101	70	130			

### Sample Matrix Spike

Type: **MS** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\100901\10090114.D**

Batch ID: **MS10W0901A**

Analysis Date: **09/01/2010 15:28**

Sample ID: **10083103-01AMS**

Units: **µg/L**

Run ID: **MSD\_10\_100901A**

Prep Date: **09/01/2010 15:28**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	57.6	2.5	50	0	115	67	130			
Surr: 1,2-Dichloroethane-d4	48.8		50		98	70	130			
Surr: Toluene-d8	48.5		50		97	70	130			
Surr: 4-Bromofluorobenzene	50.2		50		100	70	130			

### Sample Matrix Spike Duplicate

Type: **MSD** Test Code: **EPA Method SW8260B**

File ID: **C:\HPCHEM\MS10\DATA\100901\10090115.D**

Batch ID: **MS10W0901A**

Analysis Date: **09/01/2010 15:50**

Sample ID: **10083103-01AMSD**

Units: **µg/L**

Run ID: **MSD\_10\_100901A**

Prep Date: **09/01/2010 15:50**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	59.1	2.5	50	0	118	67	130	57.6	2.6(20)	
Surr: 1,2-Dichloroethane-d4	48.5		50		97	70	130			
Surr: Toluene-d8	48.3		50		97	70	130			
Surr: 4-Bromofluorobenzene	49.3		50		99	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



**MWH**

**LABORATORIES**

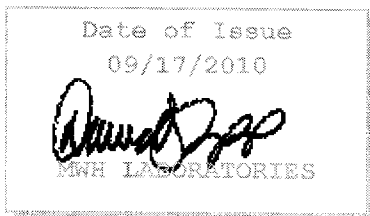
*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

Alpha Analytical, Inc.  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attention: Reyna Vallejo  
Fax: 775-355-0406



Report#: 342392  
Project: SUBCONTRACT  
Group: Chlorate

DST: David S Tripp  
Project Manager

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.



750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016  
Phone 626-386-1100/Fax: 626-386-1101

### Acknowledgement of Samples Received

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attn: Reyna Vallejo  
Phone: 775-355-1044

Customer Code: ALPHA-NV

Group #: 342392

Project #: SUBCONTRACT

Sample Group: Chlorate

Project Manager: David S Tripp

Phone: (626) 386-1158

The following samples were received from you on **August 31, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201009010286	NGEM-TRON-FL-RSAM-5-S1	30-Aug-2010 1430
	Chlorate by IC	

#### Test Description





**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory  
Hits Report: 342392**

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

Samples Received on:  
08/31/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
09/09/2010	22:42 Chlorate by IC	<u>201009010286</u> <u>NGEM-TRON-FL-RSAM-5-S1</u>	75000		ug/L	1000



**MWH**

**LABORATORIES**

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750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory Data**  
**Report: 342392**

Samples Received on:  
08/31/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>NGEM-TRON-FL-RSAM-5-S1 (201009010286)</u></b>						<b>Sampled on 08/30/2010 1430</b>		
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/09/2010	22:42	568713	(EPA 300.0)	Chlorate by IC	75000	ug/L	1000	100



**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Alpha Analytical, Inc.  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

---

**Laboratory Comments**  
**Report: #342392**



**MWH**

**LABORATORIES**

*A Division of MWH Americas, Inc.*

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

**Laboratory**  
**QC Summary: 342392**

Alpha Analytical, Inc.

---

**QC Ref # 568713 - Disinfection ByProducts by 300.0**

**Analysis Date: 09/09/2010**

201009010286

NGEM-TRON-FL-RSAM-5-S1

Analyzed by: LUPE



MWH

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A Division of MWH Americas, Inc.

750 Royal Oak Dr., Suite 100  
Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Report: 342392

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 568713 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/09/2010</b>				
LCS1	Bromide		100	103	ug/L	103	(90-110)		
LCS2	Bromide		100	102	ug/L	102	(90-110)	20	0.98
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	4.76	ug/L	95	(50-150)		
MS_201008260437	Bromide	130	50	175	ug/L	99	(80-120)		
MS_201008310177	Bromide	120	50	166	ug/L	97	(80-120)		
MSD_201008260437	Bromide	130	50	174	ug/L	96	(80-120)	15	3.0
MSD_201008310177	Bromide	120	50	165	ug/L	96	(80-120)	15	0.83
LCS1	Chlorate by IC		200	205	ug/L	103	(90-110)		
LCS2	Chlorate by IC		200	203	ug/L	102	(90-110)	20	0.98
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	10.1	ug/L	101	(75-125)		
MS_201008260437	Chlorate by IC	20	100	118	ug/L	98	(80-120)		
MS_201008310177	Chlorate by IC	ND	100	95.6	ug/L	96	(80-120)		
MSD_201008260437	Chlorate by IC	20	100	115	ug/L	96	(80-120)	15	2.6
MSD_201008310177	Chlorate by IC	ND	100	94.8	ug/L	95	(80-120)	15	0.84

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



# Laboratory Report

## Report ID: 107896

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/7/2010  
**Client:** ALP-855  
**Taken by:** Client  
**PO #:**

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

**Approved By:**

A handwritten signature in black ink, appearing to read "John Kobza", is written over a horizontal line.

Sierra Environmental Monitoring, Inc.

**Date:**

9/7/2010

**This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.**



**Laboratory Report**  
**Report ID: 107896**

**Sierra  
 Environmental  
 Monitoring, Inc.**

Alpha Analytical  
 Attn: Reyna Vallejo  
 255 Glendale Avenue Suite 21  
 Sparks, NV 89431

**Date:** 9/7/2010  
**Client:** ALP-855  
**Taken by:** Client  
**PO #:**

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received			
S201008-1775	PES10083123-01 - NGEM-TRON-FL-RSAM-5-S1	8/30/2010	2:30 PM	8/31/2010			
Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	8/31/2010	
Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/2/2010	

*Data Flag Legend:*



**Laboratory Report**  
**Report ID: 107896**

**Sierra  
 Environmental  
 Monitoring, Inc.**

Alpha Analytical  
 Attn: Reyna Vallejo  
 255 Glendale Avenue Suite 21  
 Sparks, NV 89431

**Date:** 9/7/2010  
**Client:** ALP-855  
**Taken by:** Client  
**PO #:**

***Quality Control Report***

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Uranium - ICP-MS					<0.002 mg/L

<b>Legend:</b>	<b><i>LCS- Laboratory Control Standard</i></b>	<b><i>MS- Matrix Spike</i></b>	<b><i>MSD- Matrix Spike Duplicate</i></b>
	<b><i>RPD- Relative Percent Difference</i></b>		



Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**CA**

Workorder : PES10083123

Report Due By : 5:00 PM On : 08-Sep-10

*Perchlorate due 9-1-10*

Client: Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention Cindy Schreier  
 Phone Number (916) 939-7300 x  
 Email Address data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Cooler Temp 12 °C Samples Received 31-Aug-10 Date Printed 31-Aug-10

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Job : NGEM-TRON-FL

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub TAT	Requested Tests	Sample Remarks
PES10083123-01A	NGEM-TRON-FL-RSAM-5-S1	AQ 08/30/10 14:30	12	2	5	
					300_g(D)_w Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> , Chlorate	
					300_0_w Br, Cl, F, SO <sub>4</sub> , NO <sub>3</sub> , PO <sub>4</sub> , Chlorate	
					314_w Perchlorate	
					8081_w 8081, Hexachloroethene	
					ALKALINITY_w Total, HCO <sub>3</sub> , Hydroxide	
					AMMONIA_w NH <sub>3</sub>	
					METALS_A METALS_D DD_DS Uranium, Dissolved	
					Special List	
					Conductivity = 260mS	

Comments: No security seals. Blue ice. Perchlorate on 24 HR TAT, due 9/1/10. Chlorate subbed to Montgomery Watson directly by client. Uranium subbed to SEM on 48 HR TAT, per Edana. TOC pH=L. Amended 8/31/10 15:20 to change Uranium TAT to 5 day due to login error KM.

Logged in by: K Murray K Murray Alpha Analytical, Inc. 8/31/10 1520

Signature \_\_\_\_\_ Print Name \_\_\_\_\_ Company \_\_\_\_\_ Date/Time \_\_\_\_\_

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

AMENDED  
CA F 17

WorkOrder : PES10083123

Report Due By : 5:00 PM On : 08-Sep-10

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Client's COC # : 28733, 28730

Job : NGENM-TRON-FL

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Cooler Temp Samples Received Date Printed  
12 °C 31-Aug-10 31-Aug-10

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles Alpha	Sub TAT	Requested Tests				Sample Remarks
					TDS_w	TOC_w	VOC_w	Chloroform_c	
PES10083123-01A	NGEM-TRON-FL-RSAM-5-S1	AQ 08/30/10 14:30	12	2	5	TDS	TOC	Chloroform_c	Conductivity=260mS

Comments: No security seals. Blue ice. Perchlorate on 24 HR TAT, due 9/1/10. Chlorate subbed to Montgomery Watson directly by client. Uranium subbed to SEM on 48 HR TAT, per Edana. TOC pH=1.1. Amended 8/31/10 15:20 to change Uranium TAT to 5 day due to login error. KM :

Logged in by: K Murray K Murray Alpha Analytical, Inc. 8/31/10 1520

Signature \_\_\_\_\_ Print Name \_\_\_\_\_ Company \_\_\_\_\_ Date/Time \_\_\_\_\_

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

CA FLOWM! Page: 1 of 2

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10083123  
Report Due By : 5:00 PM On : 08-Sep-10  
*Perchlorate due 9-1-10*

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primacvironmental.com

EDD Required : No

Sampled by : CL

Cooler Temp 12 °C Samples Received 31-Aug-10 Date Printed 31-Aug-10

Client's COC # : 28733, 28730 Job : NGENM-TRON-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests					Sample Remarks			
				Alpha	Sub	TAT	300_0(D)_W	300_0_W	314_W	8081_W	ALKALINITY_W		AMMONIA_W	METALS_A	METALS_D
PES10083123-01A	NGEM-TRON-FL-RSAM-5-S1	AQ	08/30/10 14:30	12	2	5	Br. Cl. F. SO4. NO3. PO4. Chlorate	Br. Cl. F. SO4. NO3. PO4. Chlorate	Perchlorate	8081. Hexachlorobenzene	Total HCO3. Hydroxide	NH3	Uranium, Dissolved	Special List	Conductivity =260mS

Comments: No security seals. Blue ice. Perchlorate on 24 HR TAT, due 9/1/10. Chlorate subbed to Montgomery Watson directly by client. Uranium subbed to SEM on 48 HR TAT, per Edana. TOC pH=1.1.

Signature	Print Name	Company	Date/Time
<i>K Murray</i>	<i>K Murray</i>	Alpha Analytical, Inc.	8/31/10 11:15

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : PES10083123**  
**Report Due By : 5:00 PM On : 08-Sep-10**

Client: Prima Environmental  
 5070 Robert J. Mathews Parkway  
 Suite 300  
 El Dorado Hills, CA 95762

Report Attention: Cindy Schreier  
 Phone Number: (916) 939-7300 x  
 Email Address: data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Client's COC # : 28733, 28730 Job : NGEEM-TRON-FL  
 QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates  
 Collection Date: 08/30/10 14:30  
 Matrix: AQ  
 Sample ID: PES10083123-01A  
 Client Sample ID: NGEEM-TRON-FL-RSAM-5-S1  
 Matrix: AQ  
 TDS: 12  
 Alpha: 2  
 Sub: 5  
 TAT: 5  
 Requested Tests: TDS\_w, TOC\_w, VOC\_w, Chloroform\_C  
 Sample Remarks: Conductivity=260mS  
 Cooler Temp: 12 °C  
 Samples Received: 31-Aug-10  
 Date Printed: 31-Aug-10

Comments: No security seals. Blue ice. Perchlorate on 24 HR TAT, due 9/1/10. Chlorate subbed to Montgomery Watson directly by client. Uranium subbed to SEM on 48 HR TAT, per Edana. TOC pH=1.1.

Logged in by: K Murray Signature K Murray Print Name  
 Alpha Analytical, Inc. Company Alpha Analytical, Inc.  
 Date/Time 8/31/10 11:15

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.  
 The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
 Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information:**

Name: **PRIMA ENVIRONMENTAL, Inc.**  
 Address: **5070 Robert J. Mathews Parkway, Suite 300**  
 City, State: **El Dorado Hills, CA 95762**  
 Phone Nl: **PH: 916-939-7300**  
 FAX: **916-939-7398**



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which States?** 28733  
 AZ  CA  NV  WA   
 ID  OR  OTHER   
 Page # 1 of 2

Client Nat: \_\_\_\_\_ P.O. # \_\_\_\_\_ Job # **NGEM-TRON-FL**  
 Address \_\_\_\_\_ EMail Address **data@primaenvironmental.com**  
 City, State, Zip \_\_\_\_\_ Phone # \_\_\_\_\_ Fax # \_\_\_\_\_

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Report Attention	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	Analyses Required	Global ID #	REMARKS
8/30/10	↓	↓	AR	PE510083123-01	Andy Schriener	NGEM-TRON-FL-RSAM-5-S1	24h		3-V	<input checked="" type="checkbox"/> Parachrate (314) <input checked="" type="checkbox"/> Alkalinity (30.1) <input checked="" type="checkbox"/> Anions (300) <input checked="" type="checkbox"/> TDS (160.1) <input checked="" type="checkbox"/> Ammonia (300) <input checked="" type="checkbox"/> Chlorate (300) <input checked="" type="checkbox"/> Metals (6000)		Alkalinity = (total), HCO <sub>3</sub> , Hydroxide)
						NGEM-TRON-FL-RSAM-5-S1	5d		4-P	<input checked="" type="checkbox"/> Parachrate (314) <input checked="" type="checkbox"/> Alkalinity (30.1) <input checked="" type="checkbox"/> Anions (300) <input checked="" type="checkbox"/> TDS (160.1) <input checked="" type="checkbox"/> Ammonia (300) <input checked="" type="checkbox"/> Chlorate (300) <input checked="" type="checkbox"/> Metals (6000)		Anions = unpermeated: (Br, Cl, F, SO <sub>4</sub> ) Preserved: (NO <sub>2</sub> , O-P)
										<input checked="" type="checkbox"/> Parachrate (314) <input checked="" type="checkbox"/> Alkalinity (30.1) <input checked="" type="checkbox"/> Anions (300) <input checked="" type="checkbox"/> TDS (160.1) <input checked="" type="checkbox"/> Ammonia (300) <input checked="" type="checkbox"/> Chlorate (300) <input checked="" type="checkbox"/> Metals (6000)		Metals = (As, B, Ca, Cr, Co, Fe, K, Pb, Mg, Mn, Na) & (U)
										<input checked="" type="checkbox"/> Parachrate (314) <input checked="" type="checkbox"/> Alkalinity (30.1) <input checked="" type="checkbox"/> Anions (300) <input checked="" type="checkbox"/> TDS (160.1) <input checked="" type="checkbox"/> Ammonia (300) <input checked="" type="checkbox"/> Chlorate (300) <input checked="" type="checkbox"/> Metals (6000)		Chlorate sent to MWHT

**ADDITIONAL INSTRUCTIONS:** The SX bottle for ammonia & (NO<sub>3</sub>, O-P) is not vol. Not enough SX collected. 1st priority is ammonia, if enough SX remaining then run NO<sub>3</sub>, O-P.

Signature \_\_\_\_\_ Print Name **Catherine Ligouri**  
 Relinquished by **Catherine Ligouri**  
 Received by **K. Murray**  
 Relinquished by \_\_\_\_\_  
 Received by \_\_\_\_\_  
 Relinquished by \_\_\_\_\_  
 Received by \_\_\_\_\_

Company: **PRIMA** Date: **8/30/10** Time: **0950**

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

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Address **5070 Robert J. Mathews Parkway, Suite 300**  
City, State **El Dorado Hills, CA 95762**  
Phone Nu **PH: 916-939-7300**  
FAX: **916-939-7398**



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Samples Collected From Which State? **28730**  
AZ  CA  NV  WA   
ID  OR  OTHER   
Page # **2** of **2**

Client Name: **PRIMA ENVIRONMENTAL, Inc.**  
Address: **5070 Robert J. Mathews Parkway, Suite 300**  
City, State, Zip: **El Dorado Hills, CA 95762**  
Job #: **N6EM-TRON-FL**  
Email Address: **data@primaenvironmental.com**  
Phone #: **916-939-7300**  
Fax #: **916-939-7398**

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Report Attention	Field Filtered	TAT	Total and type of containers ** See below	Analyses Required	Required QC Level? I II III IV	EDD / EDF? YES NO	REMARKS
1450	8/10	AQ	CD	Cindy Schriber		5d	30, 20T	TOC (9060) TSS (100.2) organochlorine Pesticides + hexachlorobenzene Chloroform (8260)			3081a = organochlorine pesticides + hexachlorobenzene

**ADDITIONAL INSTRUCTIONS:**

Relinquished by	Signature	Print Name	Company	Date	Time
Received by	<i>Catherine Liguori</i>	Catherine Liguori	PRIMA	8/30/10	Pod EX
Relinquished by	<i>K. Murray</i>	K. Murray	AA1	8/31/10	0950
Received by					
Relinquished by					
Received by					

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Va S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.



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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

Anions by IC  
EPA Method 300.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S2				
Lab ID : PES10090120-01A	Fluoride	ND	25 mg/L	09/01/10 11:03 09/07/10 13:43
Date Sampled 08/31/10 14:00	Chloride	55,000	8,000 mg/L	09/01/10 11:03 09/07/10 13:43
	Bromide	ND	25 mg/L	09/01/10 11:03 09/07/10 13:43
	Nitrate (NO3) - N	470 **	25 mg/L	09/01/10 11:03 09/08/10 22:25
	Phosphate, ortho - P	ND *	100 mg/L	09/01/10 11:03 09/07/10 13:43
	Sulfate (SO4)	11,000	100 mg/L	09/01/10 11:03 09/07/10 13:43

\*\*Nitrate was analyzed on a preserved sample. The accuracy of Nitrate may be biased high due to the possible oxidation of Nitrite to Nitrate.

\*Analyte was analyzed outside the 48 hour hold time due to lab error.

ND = Not Detected

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

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9/9/10

Report Date



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## ANALYTICAL REPORT

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5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

### Perchlorate by Ion Chromatography EPA Method 314.0

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S2 Lab ID: PES10090120-01A Perchlorate Date Sampled 08/31/10 14:00	38,500,000	2,000,000 µg/L	08/31/10 11:31	09/01/10
Client ID: NGEM-TRON-FL-RSAM-6-S1 Lab ID: PES10090120-02A Perchlorate Date Sampled 08/31/10 14:00	3,780,000	200,000 µg/L	08/31/10 11:31	09/01/10
Client ID: NGEM-TRON-FL-SA-189-S1 Lab ID: PES10090120-03A Perchlorate Date Sampled 08/31/10 14:00	117,000	20,000 µg/L	08/31/10 11:31	09/01/10

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

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**Report Date**





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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10090120-01A  
Client I.D. Number: NGEM-TRON-FL-RSAM-5-S2

Sampled: 08/31/10 14:00  
Received: 09/01/10  
Extracted: 09/03/10 10:08  
Analyzed: 09/03/10

### Organochlorine Pesticides EPA Method SW8081A

	Compound	Concentration	Reporting Limit
1	alpha-BHC	ND	0.050 µg/L
2	gamma-BHC (Lindane)	ND	0.050 µg/L
3	beta-BHC	ND	0.050 µg/L
4	delta-BHC	ND	0.050 µg/L
5	Heptachlor	ND	0.050 µg/L
6	Aldrin	ND	0.050 µg/L
7	Heptachlor epoxide	ND	0.050 µg/L
8	Endosulfan I	ND	0.050 µg/L
9	4,4'-DDE	ND	0.10 µg/L
10	Dieldrin	ND	0.10 µg/L
11	Endrin	ND	0.10 µg/L
12	4,4'-DDD	ND	0.10 µg/L
13	Endosulfan II	ND	0.10 µg/L
14	Endrin aldehyde	ND	0.10 µg/L
15	4,4'-DDT	ND	0.10 µg/L
16	Endosulfan sulfate	ND	0.10 µg/L
17	Methoxychlor	ND	0.50 µg/L
18	Endrin ketone	ND	0.10 µg/L
19	Toxaphene	ND	5.0 µg/L
20	Chlordane (Technical)	ND	1.0 µg/L
21	Hexachlorobenzene	ND	0.050 µg/L

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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9/8/10

**Report Date**

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## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762  
Job: NGEM-TRON-FL

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398

Alpha Analytical Number: PES10090120-02A  
Client I.D. Number: NGEM-TRON-FL-RSAM-6-S1

Sampled: 08/31/10 14:00  
Received: 09/01/10  
Extracted: 09/03/10 10:08  
Analyzed: 09/03/10

### Organochlorine Pesticides EPA Method SW8081A

	Compound	Concentration	Reporting Limit
1	alpha-BHC	ND	0.050 µg/L
2	gamma-BHC (Lindane)	ND	0.050 µg/L
3	beta-BHC	1.1	0.050 µg/L
4	delta-BHC	ND	0.050 µg/L
5	Heptachlor	ND	0.050 µg/L
6	Aldrin	ND	0.050 µg/L
7	Heptachlor epoxide	ND	0.050 µg/L
8	Endosulfan I	ND	0.050 µg/L
9	4,4'-DDE	ND	0.10 µg/L
10	Dieldrin	ND	0.10 µg/L
11	Endrin	ND	0.10 µg/L
12	4,4'-DDD	ND	0.10 µg/L
13	Endosulfan II	ND	0.10 µg/L
14	Endrin aldehyde	ND	0.10 µg/L
15	4,4'-DDT	ND	0.10 µg/L
16	Endosulfan sulfate	ND	0.10 µg/L
17	Methoxychlor	ND	0.50 µg/L
18	Endrin ketone	ND	0.10 µg/L
19	Toxaphene	ND	5.0 µg/L
20	Chlordane (Technical)	ND	1.0 µg/L
21	Hexachlorobenzene	ND	0.050 µg/L

Sample data was verified by second column confirmation.

Note: Endrin breakdown was 20% with a method criteria of ≤ 15%.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

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9/8/10

**Report Date**

Page 1 of 1



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## ANALYTICAL REPORT

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

Alkalinity  
SM2320B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S2				
Lab ID : PES10090120-01A	Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	180	20 mg/L	09/08/10
Date Sampled 08/31/10 14:00	Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	ND	20 mg/L	09/08/10
	Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	180	20 mg/L	09/08/10

ND = Not Detected

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9/9/10

Report Date



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## ANALYTICAL REPORT

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

### Ammonia as Nitrogen SM4500-NH3D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S2				
Lab ID : PES10090120-01A Nitrogen, Ammonia (As N)	3,700	100 mg/L	09/03/10	09/03/10
Date Sampled 08/31/10 14:00				

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9/9/10

**Report Date**



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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

### Dissolved Metals by ICPMS EPA Method SW6020 / SW6020A

	Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
<b>Client ID: NGEM-TRON-FL-RSAM-5-S2</b>					
Lab ID: PES10090120-01A	Boron (B), Dissolved	0.32	0.10 mg/L	09/01/10 17:34	09/02/10
Date Sampled 08/31/10 14:00	Sodium (Na), Dissolved	15,000	5.0 mg/L	09/01/10 17:34	09/02/10
	Magnesium (Mg), Dissolved	1,200	0.50 mg/L	09/01/10 17:34	09/02/10
	Potassium (K), Dissolved	620	0.50 mg/L	09/01/10 17:34	09/02/10
	Calcium (Ca), Dissolved	2,800	5.0 mg/L	09/01/10 17:34	09/02/10
	Chromium (Cr), Dissolved	0.020	0.0050 mg/L	09/01/10 17:34	09/02/10
	Manganese (Mn), Dissolved	0.91	0.0050 mg/L	09/01/10 17:34	09/02/10
	Iron (Fe), Dissolved	12	0.10 mg/L	09/01/10 17:34	09/02/10
	Cobalt (Co), Dissolved	0.068	0.0050 mg/L	09/01/10 17:34	09/02/10
	Arsenic (As), Dissolved	0.017	0.0020 mg/L	09/01/10 17:34	09/02/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10
<b>Client ID: NGEM-TRON-FL-RSAM-6-S1</b>					
Lab ID: PES10090120-02A	Boron (B), Dissolved	1.2	0.10 mg/L	09/01/10 17:34	09/02/10
Date Sampled 08/31/10 14:00	Sodium (Na), Dissolved	970	0.50 mg/L	09/01/10 17:34	09/02/10
	Magnesium (Mg), Dissolved	610	0.50 mg/L	09/01/10 17:34	09/02/10
	Potassium (K), Dissolved	89	0.50 mg/L	09/01/10 17:34	09/02/10
	Calcium (Ca), Dissolved	2,000	0.50 mg/L	09/01/10 17:34	09/02/10
	Chromium (Cr), Dissolved	0.0050	0.0050 mg/L	09/01/10 17:34	09/02/10
	Manganese (Mn), Dissolved	0.25	0.0050 mg/L	09/01/10 17:34	09/02/10
	Iron (Fe), Dissolved	11	0.10 mg/L	09/01/10 17:34	09/02/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10
	Arsenic (As), Dissolved	0.0067	0.0020 mg/L	09/01/10 17:34	09/02/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10
<b>Client ID: NGEM-TRON-FL-SA-189-S1</b>					
Lab ID: PES10090120-03A	Boron (B), Dissolved	2.9	0.10 mg/L	09/01/10 17:34	09/02/10
Date Sampled 08/31/10 14:00	Sodium (Na), Dissolved	2,100	5.0 mg/L	09/01/10 17:34	09/02/10
	Magnesium (Mg), Dissolved	560	0.50 mg/L	09/01/10 17:34	09/02/10
	Potassium (K), Dissolved	27	0.50 mg/L	09/01/10 17:34	09/02/10
	Calcium (Ca), Dissolved	1,800	0.50 mg/L	09/01/10 17:34	09/02/10
	Chromium (Cr), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10
	Manganese (Mn), Dissolved	0.19	0.0050 mg/L	09/01/10 17:34	09/02/10
	Iron (Fe), Dissolved	9.3	0.10 mg/L	09/01/10 17:34	09/02/10
	Cobalt (Co), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10
	Arsenic (As), Dissolved	0.015	0.0020 mg/L	09/01/10 17:34	09/02/10
	Lead (Pb), Dissolved	ND	0.0050 mg/L	09/01/10 17:34	09/02/10



# Alpha Analytical, Inc.

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---

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*PS*  
9/9/10

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

Prima Environmental  
5070 Robert J. Mathews Parkway  
El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

### Total Dissolved Solids (TDS) SM2540C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: <b>NGEM-TRON-FL-RSAM-5-S2</b>				
Lab ID : PES10090120-01A Date Sampled 08/31/10 14:00	Solids, Total Dissolved (TDS) 85,000	500 mg/L	09/07/10	09/07/10

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / Carson, CA • (714) 386-2901 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available California (#2019) and NELAC (01154CA) certifications for the data reported. Test results relate only to reported samples.

9/9/10

**Report Date**



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Date Received : 09/01/10

Job: NGEM-TRON-FL

Total Organic Carbon as NonPurgeable Organic Carbon  
EPA Method SW9060 / SM5310C

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S2				
Lab ID: PES10090120-01A Date Sampled 08/31/10 14:00	Total Organic Carbon 26	4.0 mg/L	09/08/10 08:58	09/08/10

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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9/9/10

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Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

### Total Suspended Solids SM2540D

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID: NGEM-TRON-FL-RSAM-5-S2				
Lab ID: PES10090120-01A Solids, Total Suspended (TSS)	47	2.5 mg/L	09/07/10	09/07/10
Date Sampled 08/31/10 14:00				

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
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*[Signature]*

9/9/10

**Report Date**



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## ANALYTICAL REPORT

Prima Environmental  
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El Dorado Hills, CA 95762

Attn: Cindy Schreier  
Phone: (916) 939-7300  
Fax: (916) 393-7398  
Date Received : 09/01/10

Job: NGEM-TRON-FL

### Volatile Organic Compounds (VOCs) EPA Method SW8260B

Parameter	Concentration	Reporting Limit	Date Extracted	Date Analyzed
Client ID : NGEM-TRON-FL-RSAM-5-S2				
Lab ID : PES10090120-01A	Chloroform	10 µg/L	09/02/10	09/02/10
Date Sampled 08/31/10 14:00	ND O			

O = Reporting Limits were increased due to sample foaming.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • • Randy Gardner, Laboratory Manager • • Walter Hinchman, Quality Assurance Officer  
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9/9/10

**Report Date**



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---

## VOC Sample Preservation Report

**Work Order:** PES10090120

**Job:** NGEM-TRON-FL

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Alpha's Sample ID	Client's Sample ID	Matrix	pH
10090120-01A	NGEM-TRON-FL-RSAM-5-S2	Aqueous	2

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9/9/10  

---

Report Date



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type **MBLK** Test Code: **EPA Method 300.0**

File ID: **20**

Batch ID: **24978**

Analysis Date: **09/01/2010 12:11**

Sample ID: **MB-24978**

Units : **mg/L**

Run ID: **IC\_1\_100901B**

Prep Date: **09/01/2010 11:03**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	ND	0.25								
Chloride	ND	0.5								
Bromide	ND	0.25								
Nitrate (NO3) - N	ND	0.25								
Phosphate, ortho - P	ND	0.5								
Sulfate (SO4)	ND	0.5								

### Laboratory Fortified Blank

Type **LFB** Test Code: **EPA Method 300.0**

File ID: **21**

Batch ID: **24978**

Analysis Date: **09/01/2010 12:30**

Sample ID: **LFB-24978**

Units : **mg/L**

Run ID: **IC\_1\_100901B**

Prep Date: **09/01/2010 11:03**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5.52	0.25	5		110	90	110			
Chloride	49	0.5	50		98	90	110			
Bromide	5.17	0.25	5		103	90	110			
Nitrate (NO3) - N	5.28	0.25	5		106	90	110			
Phosphate, ortho - P	5.34	0.5	5		107	90	110			
Sulfate (SO4)	98.1	0.5	100		98	90	110			

### Sample Matrix Spike

Type **LFM** Test Code: **EPA Method 300.0**

File ID: **27**

Batch ID: **24978**

Analysis Date: **09/09/2010 14:25**

Sample ID: **10090120-01ALFM**

Units : **mg/L**

Run ID: **IC\_1\_100901B**

Prep Date: **09/01/2010 11:03**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5480	130	5000		0	110	80	120		
Chloride	66900	250	50000	55040	24	80	120			M2
Bromide	5080	130	5000		0	102	80	120		
Nitrate (NO3) - N	5470	130	5000	473.2	100	80	120			
Phosphate, ortho - P	5980	250	5000		0	120	80	120		
Sulfate (SO4)	103000	250	100000	10980	92	80	120			

### Sample Matrix Spike Duplicate

Type **LFMD** Test Code: **EPA Method 300.0**

File ID: **28**

Batch ID: **24978**

Analysis Date: **09/09/2010 14:44**

Sample ID: **10090120-01ALFMD**

Units : **mg/L**

Run ID: **IC\_1\_100901B**

Prep Date: **09/01/2010 11:03**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Fluoride	5650	130	5000		0	113	80	120	5483	2.9(15)
Chloride	68400	250	50000	55040	27	80	120	66920	2.2(15)	M2
Bromide	5180	130	5000		0	104	80	120	5079	2.0(15)
Nitrate (NO3) - N	5500	130	5000	473.2	101	80	120	5472	0.6(15)	
Phosphate, ortho - P	6180	250	5000		0	124	80	120	5982	3.3(15)
Sulfate (SO4)	105000	250	100000	10980	94	80	120	103400	1.8(15)	M1

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M2 = Matrix spike recovery was low, the method control sample recovery was acceptable.



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

File ID: 14

Sample ID: MB-24972

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	ND		2							

Type **MBLK** Test Code: **EPA Method 314.0**

Batch ID: 24972

Analysis Date: 08/31/2010 12:27

Run ID: IC\_3\_100831A

Prep Date: 08/31/2010 11:31

### Laboratory Fortified Blank

File ID: 15

Sample ID: LFB-24972

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	25.9		2	25	103	85	115			

Type **LFB** Test Code: **EPA Method 314.0**

Batch ID: 24972

Analysis Date: 08/31/2010 12:46

Run ID: IC\_3\_100831A

Prep Date: 08/31/2010 11:31

### Sample Matrix Spike

File ID: 21

Sample ID: 10083101-05ALFM

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	25.2		2	25	0	101	80	120		

Type **LFM** Test Code: **EPA Method 314.0**

Batch ID: 24972

Analysis Date: 08/31/2010 14:41

Run ID: IC\_3\_100831A

Prep Date: 08/31/2010 11:31

### Sample Matrix Spike Duplicate

File ID: 22

Sample ID: 10083101-05ALFMD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Perchlorate	25.8		2	25	0	103	80	120	25.2	2.2(15)

Type **LFMD** Test Code: **EPA Method 314.0**

Batch ID: 24972

Analysis Date: 08/31/2010 14:59

Run ID: IC\_3\_100831A

Prep Date: 08/31/2010 11:31

### Comments:

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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type: **MBLK** Test Code: **EPA Method SW8081A**

File ID: **10090310.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 04:49**

Sample ID: **MBLK-24992**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	ND	0.05								
gamma-BHC (Lindane)	ND	0.05								
beta-BHC	ND	0.05								
delta-BHC	ND	0.05								
Heptachlor	ND	0.05								
Aldrin	ND	0.05								
Heptachlor epoxide	ND	0.05								
Endosulfan I	ND	0.05								
4,4'-DDE	ND	0.1								
Dieldrin	ND	0.1								
Endrin	ND	0.1								
4,4'-DDD	ND	0.1								
Endosulfan II	ND	0.1								
Endrin aldehyde	ND	0.1								
4,4'-DDT	ND	0.1								
Endosulfan sulfate	ND	0.1								
Methoxychlor	ND	0.5								
Endrin ketone	ND	0.1								
Toxaphene	ND	5								
Chlordane (Technical)	ND	1								
Hexachlorobenzene	ND	0.05								
Surr: Tetrachloro-m-xylene	0.36		0.5		72	26	130			
Surr: Decachlorobiphenyl	0.54		0.5		108	31	141			

### Laboratory Control Spike

Type: **LCS** Test Code: **EPA Method SW8081A**

File ID: **10090311.D**

Batch ID: **24992**

Analysis Date: **09/03/2010 05:01**

Sample ID: **LCS-24992**

Units : **µg/L**

Run ID: **ECD\_1\_100903A**

Prep Date: **09/03/2010 10:08**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.45	0.05	0.5		90	63	130			
gamma-BHC (Lindane)	0.48	0.05	0.5		96	67	130			
beta-BHC	0.49	0.05	0.5		98	69	130			
delta-BHC	0.46	0.05	0.5		92	70	130			
Heptachlor	0.47	0.05	0.5		94	50	130			
Aldrin	0.48	0.05	0.5		96	37	130			
Heptachlor epoxide	0.5	0.05	0.5		100	70	130			
Endosulfan I	0.29	0.05	0.5		58	44	130			
4,4'-DDE	0.46	0.1	0.5		92	64	130			
Dieldrin	0.51	0.1	0.5		102	70	130			
Endrin	0.55	0.1	0.5		110	70	136			
4,4'-DDD	0.51	0.1	0.5		102	70	130			
Endosulfan II	0.4	0.1	0.5		80	60	130			
4,4'-DDT	0.48	0.1	0.5		96	69	131			
Endosulfan sulfate	0.51	0.1	0.5		102	68	133			
Methoxychlor	0.51	0.5	0.5		102	68	135			
Endrin ketone	0.5	0.1	0.5		100	66	130			
Surr: Tetrachloro-m-xylene	0.38		0.5		76	26	130			
Surr: Decachlorobiphenyl	0.46		0.5		92	31	141			



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090120

### Sample Matrix Spike

Type: MS

Test Code: EPA Method SW8081A

File ID: 10090314.D

Batch ID: 24992

Analysis Date: 09/03/2010 05:36

Sample ID: 10090220-01AMS

Units: µg/L

Run ID: ECD\_1\_100903A

Prep Date: 09/03/2010 10:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.9	0.05	1	0	90	45	130			
gamma-BHC (Lindane)	0.94	0.05	1	0	94	56	130			
beta-BHC	0.95	0.05	1	0	95	20	152			
delta-BHC	0.78	0.05	1	0	78	39	130			
Heptachlor	1.03	0.05	1	0	103	40	130			
Aldrin	0.84	0.05	1	0	84	20	133			
Heptachlor epoxide	0.9	0.05	1	0	90	62	130			
Endosulfan I	0.72	0.05	1	0	72	32	130			
4,4'-DDE	1.27	0.1	1	0	127	59	130			
Dieldrin	1.18	0.1	1	0	118	66	130			
Endrin	1.01	0.1	1	0	101	58	142			
4,4'-DDD	0.97	0.1	1	0	97	60	130			
Endosulfan II	1.22	0.1	1	0	122	41	130			
4,4'-DDT	0.96	0.1	1	0	96	57	134			
Endosulfan sulfate	0.96	0.1	1	0	96	60	134			
Methoxychlor	1.06	0.5	1	0	106	42	160			
Endrin ketone	0.97	0.1	1	0	97	57	133			
Surr: Tetrachloro-m-xylene	0.71		1		71	26	130			
Surr: Decachlorobiphenyl	1.38		1		138	31	141			

### Sample Matrix Spike Duplicate

Type: MSD

Test Code: EPA Method SW8081A

File ID: 10090315.D

Batch ID: 24992

Analysis Date: 09/03/2010 05:47

Sample ID: 10090220-01AMSD

Units: µg/L

Run ID: ECD\_1\_100903A

Prep Date: 09/03/2010 10:08

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
alpha-BHC	0.94	0.05	1	0	94	45	130	0.9	4.4(20)	
gamma-BHC (Lindane)	1.07	0.05	1	0	107	56	130	0.94	12.9(20)	
beta-BHC	1.06	0.05	1	0	106	20	152	0.95	10.9(20)	
delta-BHC	0.8	0.05	1	0	80	39	130	0.78	2.5(20)	
Heptachlor	1.07	0.05	1	0	107	40	130	1.03	3.8(20)	
Aldrin	0.82	0.05	1	0	82	20	133	0.84	2.4(20)	
Heptachlor epoxide	0.89	0.05	1	0	89	62	130	0.9	1.1(20)	
Endosulfan I	0.52	0.05	1	0	52	32	130	0.72	32.3(20)	R5
4,4'-DDE	1.15	0.1	1	0	115	59	130	1.27	9.9(20)	
Dieldrin	1.16	0.1	1	0	116	66	130	1.18	1.7(20)	
Endrin	1.01	0.1	1	0	101	58	142	1.01	0.0(20)	
4,4'-DDD	0.93	0.1	1	0	93	60	130	0.97	4.2(20)	
Endosulfan II	1.21	0.1	1	0	121	41	130	1.22	0.8(20)	
4,4'-DDT	0.98	0.1	1	0	98	57	134	0.96	2.1(20)	
Endosulfan sulfate	0.95	0.1	1	0	95	60	134	0.96	1.1(20)	
Methoxychlor	1.01	0.5	1	0	101	42	160	1.06	4.8(20)	
Endrin ketone	0.95	0.1	1	0	95	57	133	0.97	2.1(20)	
Surr: Tetrachloro-m-xylene	0.68		1		68	26	130			
Surr: Decachlorobiphenyl	1.44		1		144	31	141			S55

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S55 = Surrogate recovery was above laboratory acceptance limits.

R5 = MS/MSD RPD exceeded the laboratory control limit. Recovery met acceptance criteria.

Sample data was verified by second column confirmation.



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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090120

### Laboratory Control Spike

Type **LCS**

Test Code: **SM2320B**

File ID:

Batch ID: **W0908AL**

Analysis Date: **09/08/2010 12:26**

Sample ID: **LCS-W0908AL**

Units : **mg/L**

Run ID: **WETLAB\_100908A**

Prep Date: **09/08/2010 12:26**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Alkalinity, Bicarbonate (As CaCO <sub>3</sub> )	259.6	10	250		104	80	120			
Alkalinity, Hydroxide (As CaCO <sub>3</sub> )	259.6	10	250		104	80	120			
Alkalinity, Total (As CaCO <sub>3</sub> at pH 4.5)	260	10	250		104	80	120			

### Comments:

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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type **MBLK** Test Code: **SM4500-NH3D**

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:39</b>					
Sample ID: <b>MBLK-W0830AM</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:39</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrogen, Ammonia (As N)	ND		0.1								

### Laboratory Control Spike

Type **LCS** Test Code: **SM4500-NH3D**

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:33</b>					
Sample ID: <b>LCS-W0830AM</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:33</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrogen, Ammonia (As N)	4.92	0.1	5		98	70	130				

### Sample Matrix Spike

Type **MS** Test Code: **SM4500-NH3D**

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:47</b>					
Sample ID: <b>10081848-01AMS</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:47</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrogen, Ammonia (As N)	6.7	0.1	5	1.51	104	65	138				

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **SM4500-NH3D**

File ID:				Batch ID: <b>W0830AM</b>		Analysis Date: <b>08/30/2010 10:53</b>					
Sample ID: <b>10081848-01AMSD</b>	Units : <b>mg/L</b>		Run ID: <b>WETLAB_100830A</b>		Prep Date: <b>08/30/2010 10:53</b>						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Nitrogen, Ammonia (As N)	5.85	0.1	5	1.51	87	65	138	6.7	13.5(20)		

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
09-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

File ID: 090110.B\123\_M.D\

Sample ID: MB-24986

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	ND	0.1								
Sodium (Na), Dissolved	ND	0.5								
Magnesium (Mg), Dissolved	ND	0.5								
Potassium (K), Dissolved	ND	0.5								
Calcium (Ca), Dissolved	ND	0.5								
Chromium (Cr), Dissolved	ND	0.005								
Manganese (Mn), Dissolved	ND	0.005								
Iron (Fe), Dissolved	ND	0.1								
Cobalt (Co), Dissolved	ND	0.005								
Arsenic (As), Dissolved	ND	0.002								
Lead (Pb), Dissolved	ND	0.005								

### Laboratory Control Spike

File ID: 090110.B\124\_M.D\

Sample ID: LCS-24986

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.0435	0.1	0.058		75	80	120			L2
Sodium (Na), Dissolved	4.71	0.5	5		94	80	120			
Magnesium (Mg), Dissolved	4.7	0.5	5		94	80	120			
Potassium (K), Dissolved	4.93	0.5	5		99	80	120			
Calcium (Ca), Dissolved	4.95	0.5	5		99	80	120			
Chromium (Cr), Dissolved	0.0505	0.005	0.05		101	80	120			
Manganese (Mn), Dissolved	0.051	0.005	0.05		102	80	120			
Iron (Fe), Dissolved	5.05	0.1	5		101	80	120			
Cobalt (Co), Dissolved	0.0506	0.005	0.05		101	80	120			
Arsenic (As), Dissolved	0.0502	0.002	0.05		100	80	120			
Lead (Pb), Dissolved	0.0459	0.005	0.05		92	80	120			

### Sample Matrix Spike

File ID: 090110.B\129\_SM.D\

Sample ID: 10083123-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.305	0.1	0.058	0.3003	8.3	75	125			M3
Sodium (Na), Dissolved	2080	0.5	5	18230	-3E+05	75	125			M3
Magnesium (Mg), Dissolved	1330	0.5	5	1439	-2300	75	125			M3
Potassium (K), Dissolved	698	0.5	5	721.1	-470	75	125			M3
Calcium (Ca), Dissolved	3420	0.5	5	3408	300	75	125			M3
Chromium (Cr), Dissolved	0.0585	0.005	0.05	0.007854	101	75	125			
Manganese (Mn), Dissolved	1.3	0.005	0.05	1.286	34	75	125			M3
Iron (Fe), Dissolved	22.4	0.2	5	21.18	25	75	125			M3
Cobalt (Co), Dissolved	0.107	0.005	0.05	0.06205	89	75	125			
Arsenic (As), Dissolved	0.0665	0.002	0.05	0	108	75	125			
Lead (Pb), Dissolved	0.053	0.005	0.05	0	106	75	125			

### Sample Matrix Spike Duplicate

File ID: 090110.B\130\_SM.D\

Sample ID: 10083123-01AMS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Boron (B), Dissolved	0.308	0.1	0.058	0.3003	13	75	125	0.3051	0.8(20)	M3
Sodium (Na), Dissolved	18000	0.5	5	18230	-3700	75	125	2080	159.0(20)	M3 R58
Magnesium (Mg), Dissolved	1440	0.5	5	1439	60	75	125	1325	8.5(20)	M3
Potassium (K), Dissolved	775	0.5	5	721.1	1080	75	125	697.8	10.5(20)	M3
Calcium (Ca), Dissolved	3930	0.5	5	3408	10400	75	125	3423	13.8(20)	M3
Chromium (Cr), Dissolved	0.0655	0.005	0.05	0.007854	115	75	125	0.05852	11.2(20)	
Manganese (Mn), Dissolved	1.46	0.005	0.05	1.286	342	75	125	1.303	11.2(20)	M3
Iron (Fe), Dissolved	23.8	0.2	5	21.18	53	75	125	22.44	6.0(20)	M3
Cobalt (Co), Dissolved	0.119	0.005	0.05	0.06205	115	75	125	0.1067	11.2(20)	
Arsenic (As), Dissolved	0.0772	0.002	0.05	0	129	75	125	0.06647	14.9(20)	M1
Lead (Pb), Dissolved	0.0566	0.005	0.05	0	113	75	125	0.05298	6.6(20)	



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**Date:**  
09-Sep-10

## QC Summary Report

**Work Order:**  
10090120

**Comments:**

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

L2 = The associated blank spike recovery was below laboratory acceptance limits.

M1 = Matrix spike recovery was high, the method control sample recovery was acceptable.

M3 = The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to the spike level. The method control sample recovery was acceptable.

R58 = MS/MSD RPD exceeded the laboratory control limit.



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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type **MBLK** Test Code: **SM2540C**

File ID: Batch ID: **W0827DS** Analysis Date: **08/30/2010 00:00**  
Sample ID: **MBLK-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/30/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) ND 10

### Laboratory Control Spike

Type **LCS** Test Code: **SM2540C**

File ID: Batch ID: **W0827DS** Analysis Date: **08/31/2010 00:00**  
Sample ID: **LCS-W0827DS** Units : **mg/L** Run ID: **WETLAB\_100827C** Prep Date: **08/31/2010 00:00**  
Analyte Result PQL SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDRefVal %RPD(Limit) Qual  
Solids, Total Dissolved (TDS) 95 10 100 95 80 120

### Comments:

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Date:  
14-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type **MBLK** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/08/2010 11:20</b>
Sample ID: <b>MBLK-25005</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Total Organic Carbon	ND	1	

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/08/2010 11:45</b>
Sample ID: <b>LCS-25005</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Total Organic Carbon	4.52	1	5 90 74 126

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/10/2010 11:31</b>
Sample ID: <b>10090720-02AMS</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Total Organic Carbon	10.1	1	5 4.713 109 56 137

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW9060 / SM5310C**

File ID:		Batch ID: <b>25005</b>	Analysis Date: <b>09/10/2010 12:00</b>
Sample ID: <b>10090720-02AMSD</b>	Units : <b>mg/L</b>	Run ID: <b>TOC_100908A</b>	Prep Date: <b>09/08/2010 08:58</b>
Analyte	Result	PQL	SpkVal SpkRefVal %REC LCL(ME) UCL(ME) RPDPRefVal %RPD(Limit) Qual
Total Organic Carbon	10.5	1	5 4.713 115 56 137 10.14 3.4(20)

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



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Date:  
08-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type **MBLK** Test Code: **SM2540D**

File ID: Batch ID: **W0827SS** Analysis Date: **08/27/2010 00:00**

Sample ID: **MBLK-W0827SS** Units : mg/L Run ID: **WETLAB\_100827A** Prep Date: **08/27/2010 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
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Solids, Total Suspended (TSS)	ND	2.5								
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### Laboratory Control Spike

Type **LCS** Test Code: **SM2540D**

File ID: Batch ID: **W0827SS** Analysis Date: **08/27/2010 00:00**

Sample ID: **LCS-W0827SS** Units : mg/L Run ID: **WETLAB\_100827A** Prep Date: **08/27/2010 00:00**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
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Solids, Total Suspended (TSS)	75	2.5	100	75	50	140				
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### Comments:

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Date:  
09-Sep-10

## QC Summary Report

Work Order:  
10090120

### Method Blank

Type **MBLK** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\100902\10090205.D

Batch ID: **MS07W0902A**

Analysis Date: **09/02/2010 17:11**

Sample ID: **MBLK MS07W0902A**

Units: **µg/L**

Run ID: **MSD\_07\_100902A**

Prep Date: **09/02/2010 17:11**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	ND	1								
Surr: 1,2-Dichloroethane-d4	10.2		10		102	70	130			
Surr: Toluene-d8	9.95		10		100	70	130			
Surr: 4-Bromofluorobenzene	9.67		10		97	70	130			

### Laboratory Control Spike

Type **LCS** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\100902\10090204.D

Batch ID: **MS07W0902A**

Analysis Date: **09/02/2010 16:48**

Sample ID: **LCS MS07W0902A**

Units: **µg/L**

Run ID: **MSD\_07\_100902A**

Prep Date: **09/02/2010 16:48**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	10.4	1	10		104	80	120			
Surr: 1,2-Dichloroethane-d4	10		10		100	70	130			
Surr: Toluene-d8	9.97		10		99.7	70	130			
Surr: 4-Bromofluorobenzene	9.65		10		97	70	130			

### Sample Matrix Spike

Type **MS** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\100902\10090215.D

Batch ID: **MS07W0902A**

Analysis Date: **09/02/2010 21:07**

Sample ID: **10083101-02AMS**

Units: **µg/L**

Run ID: **MSD\_07\_100902A**

Prep Date: **09/02/2010 21:07**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	51.5	2.5	50	4.38	94	67	130			
Surr: 1,2-Dichloroethane-d4	52		50		104	70	130			
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	47		50		94	70	130			

### Sample Matrix Spike Duplicate

Type **MSD** Test Code: **EPA Method SW8260B**

File ID: C:\HPCHEM\MS07\DATA\100902\10090216.D

Batch ID: **MS07W0902A**

Analysis Date: **09/02/2010 21:31**

Sample ID: **10083101-02AMSD**

Units: **µg/L**

Run ID: **MSD\_07\_100902A**

Prep Date: **09/02/2010 21:31**

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chloroform	53.7	2.5	50	4.38	99	67	130	51.49	4.1(20)	
Surr: 1,2-Dichloroethane-d4	51		50		102	70	130			
Surr: Toluene-d8	48.7		50		97	70	130			
Surr: 4-Bromofluorobenzene	47.6		50		95	70	130			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



**MWH**

**LABORATORIES**

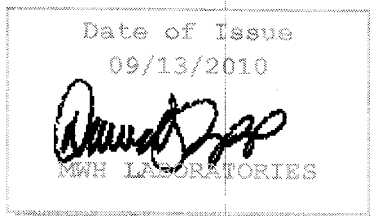
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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

## Laboratory Report

for

Alpha Analytical, Inc.  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attention: Reyna Vallejo  
Fax: 775-355-0406



DST: David S Tripp  
Project Manager



Report#: 342469  
Project: SUBCONTRACT  
Group: Chlorate

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.





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1 800 566 LABS (1 800 566 5227)

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory**  
**Hits Report: 342469**

Samples Received on:  
09/01/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
09/09/2010	00:56 Chlorate by IC	<u>201009010625</u> <u>NGEM-TRON-FL-RSAM-5-S2</u>	57000		ug/L	1000
09/09/2010	01:21 Chlorate by IC	<u>201009010629</u> <u>NGEM-TRON-FL-RSAM-6-S1</u>	39000		ug/L	500
09/09/2010	01:46 Chlorate by IC	<u>201009010630</u> <u>NGEM-TRON-FL-RSAM-189-S1</u>	22000		ug/L	500



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1 800 566 LABS (1 800 566 5227)

**Alpha Analytical, Inc.**  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

**Laboratory Data**  
**Report: 342469**

Samples Received on:  
09/01/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<b><u>NGEM-TRON-FL-RSAM-5-S2 (201009010625)</u></b>						<b>Sampled on 08/31/2010 1400</b>		
Variable ID: PES10090120-01A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/09/2010	00:56	568468	(EPA 300.0)	Chlorate by IC	57000	ug/L	1000	100
<b><u>NGEM-TRON-FL-RSAM-6-S1 (201009010629)</u></b>						<b>Sampled on 08/31/2010 1400</b>		
Variable ID: PES10090120-02A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/09/2010	01:21	568468	(EPA 300.0)	Chlorate by IC	39000	ug/L	500	50
<b><u>NGEM-TRON-FL-RSAM-189-S1 (201009010630)</u></b>						<b>Sampled on 08/31/2010 1400</b>		
Variable ID: PES10090120-03A								
<b>EPA 300.0 - Disinfection ByProducts by 300.0</b>								
09/09/2010	01:46	568468	(EPA 300.0)	Chlorate by IC	22000	ug/L	500	50



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Alpha Analytical, Inc.  
Reyna Vallejo  
255 Glendale Avenue, Suite 21  
Sparks, NV 89431

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**Laboratory Comments**  
**Report: #342469**



**MWH**

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1 800 566 LABS (1 800 566 5227)

**Laboratory**  
**QC Summary: 342469**

Alpha Analytical, Inc.

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**QC Ref # 568468 - Disinfection ByProducts by 300.0**

**Analysis Date: 09/09/2010**

201009010625	NGEM-TRON-FL-RSAM-5-S2
201009010629	NGEM-TRON-FL-RSAM-6-S1
201009010630	NGEM-TRON-FL-RSAM-189-S1

Analyzed by: LUPE
Analyzed by: LUPE
Analyzed by: LUPE



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LABORATORIES

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Monrovia, California, 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Report: 342469

Alpha Analytical, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 568468 - Disinfection ByProducts by 300.0 by EPA 300.0</b>					<b>Analysis Date: 09/08/2010</b>				
LCS1	Bromide		100	101	ug/L	101	(90-110)		
LCS2	Bromide		100	103	ug/L	103	(90-110)	20	2.0
MBLK	Bromide			<5.0	ug/L				
MRL_CHK	Bromide		5.0	5.27	ug/L	105	(50-150)		
MS_201008250300	Bromide	96	50	144	ug/L	96	(80-120)		
MS_201009090140	Bromide	610	50	652	ug/L	88	(80-120)		
MSD_201008250300	Bromide	96	50	144	ug/L	96	(80-120)	15	0.0
MSD_201009090140	Bromide	610	50	653	ug/L	91	(80-120)	15	3.2
LCS1	Chlorate by IC		200	204	ug/L	102	(90-110)		
LCS2	Chlorate by IC		200	208	ug/L	104	(90-110)	20	1.9
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	9.36	ug/L	94	(75-125)		
MS_201008250300	Chlorate by IC	170	100	268	ug/L	96	(80-120)		
MS_201009090140	Chlorate by IC	ND	100	97.2	ug/L	97	(80-120)		
MSD_201008250300	Chlorate by IC	170	100	267	ug/L	96	(80-120)	15	0.31
MSD_201009090140	Chlorate by IC	ND	100	96.2	ug/L	96	(80-120)	15	1.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS or CCC. Criteria for duplicates are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

9/9

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



750 Royal Oaks Drive Suite 100, Monrovia, Ca 91016  
Phone 626-386-1100/Fax: 626-386-1101

### Acknowledgement of Samples Received

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21  
Sparks, NV 89431  
Attn: Reyna Vallejo  
Phone: 775-355-1044

Customer Code: ALPHA-NV

Group #: 342469

Project #: SUBCONTRACT

Sample Group: Chlorate

Project Manager: David S Tripp

Phone: (626) 386-1158

PO# PES10090120

The following samples were received from you on **September 01, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
<u>201009010625</u>	NGEM-TRON-FL-RSAM-5-S2 Variable ID: PES10090120-01A Chlorate by IC	31-Aug-2010 1400
<u>201009010629</u>	NGEM-TRON-FL-RSAM-6-S1 Variable ID: PES10090120-02A Chlorate by IC	31-Aug-2010 1400
<u>201009010630</u>	NGEM-TRON-FL-RSAM-189-S1 Variable ID: PES10090120-03A Chlorate by IC	31-Aug-2010 1400

### Test Description



# Laboratory Report

## Report ID: 107937

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/9/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

Dear Reyna Vallejo,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

**Approved By:**

**Date:**

A handwritten signature in black ink, appearing to be a stylized name, is written over a horizontal line. Below the line, the text "Sierra Environmental Monitoring, Inc." is printed.

Sierra Environmental Monitoring, Inc.

9/9/2010

**This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.**



**Laboratory Report**  
**Report ID: 107937**

**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/9/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Analysis Report***

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0029	PES10090120-01 - NGEM-TRON-FL-RSAM-5-S2	8/31/2010	2:00 PM	9/1/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/2/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0030	PES10090120-02 - NGEM-TRON-FL-RSAM-6-S1	8/31/2010	2:00 PM	9/1/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/2/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received								
S201009-0031	PES10090120-03 - NGEM-TRON-FL-SA-189-S1	8/31/2010	2:00 PM	9/1/2010	Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
					Total Recoverable Metals - Acid Dig	EPA 200.2	Completed			Kleinworth	9/2/2010	
					Uranium - ICP-MS	EPA 200.8	<0.02	mg/L	0.02	Li	9/7/2010	

**Data Flag Legend:**



**Laboratory Report**  
**Report ID: 107937**



**Sierra  
Environmental  
Monitoring, Inc.**

Alpha Analytical  
Attn: Reyna Vallejo  
255 Glendale Avenue Suite 21  
Sparks, NV 89431

**Date:** 9/9/2010  
**Client:** ALP-855  
**Taken by:** CL  
**PO #:**

***Quality Control Report***

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Uranium - ICP-MS	98.0	92.0	90.0	1.64	<0.02 mg/L

**Legend:** *LCS- Laboratory Control Standard*  
*RPD- Relative Percent Difference*

*MS- Matrix Spike*

*MSD- Matrix Spike Duplicate*

Billing Information :

# CHAIN-OF-CUSTODY RECORD

# CA RETURN!

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090120

Report Due By : 5:00 PM On : 09-Sep-10

*Perchlorate due 9-2-10*

EDD Required : No

Sampled by : CL

Cooler Temp 3 °C Samples Received 01-Sep-10 Date Printed 01-Sep-10

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

Client's COC # : 28731,27847 Job : NGENM-TRON-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
			Alpha	Sub	TAT	300_0(D)_W	300_0_W	314_W	8081_W	ALKALINITY_W	AMMONIA_W		METALS_A
PES10090120-01A	NGEM-TRON-FL-RSAM-5-S2	08/31/10 14:00	12	2	5	Br, Cl, F, SO4, NO3, PO4, Chlorate	Br, Cl, F, SO4, NO3, PO4, Chlorate	Perchlorate	8081, Hexachlorobenzene	Total HCO3, Hydroxide	NH3	Uranium, Dissolved	Special List
PES10090120-02A	NGEM-TRON-FL-RSAM-6-S1	08/31/10 14:00	5	2	5	Chlorate	Chlorate	Perchlorate	8081, Hexachlorobenzene			Uranium, Dissolved	Special List
PES10090120-03A	NGEM-TRON-FL-SA-189-S1	08/31/10 14:00	4	2	5	Chlorate	Chlorate	Perchlorate				Uranium, Dissolved	Special List

Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/2/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. Conductivity= 200mS. 10C pH=1.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9-1-10 1050

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :

**CHAIN-OF-CUSTODY RECORD**

**RECEIVED**  
**CA**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : PES10090120

Report Due By : 5:00 PM On : 09-Sep-10

Client: Prima Environmental  
5070 Robert J. Mathews Parkway  
Suite 300  
El Dorado Hills, CA 95762

Report Attention Phone Number Email Address  
Cindy Schreier (916) 939-7300 x data@primaenvironmental.com

EDD Required : No

Sampled by : CL

Client's COC # : 28731,27847 Job : NGENM-TRON-FL  
QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD with Surrogates

Cooler Temp Samples Received Date Printed  
3 °C 01-Sep-10 01-Sep-10

Alpha Sample ID	Client Sample ID	Collection Date	No. of Bottles		Requested Tests					Sample Remarks
			Alpha	Sub	TAT	TDS_w	TOC_w	TSS_w	VOC_w	
PES10090120-01A	NGEM-TRON-FL-RSAM-5-S2	08/31/10 14:00	12	2	5	TDS/TSS	TOC	TDS/TSS	Chloroform_C	
PES10090120-02A	NGEM-TRON-FL-RSAM-6-S1	08/31/10 14:00	5	2	5					
PES10090120-03A	NGEM-TRON-FL-SA-189-S1	08/31/10 14:00	4	2	5					

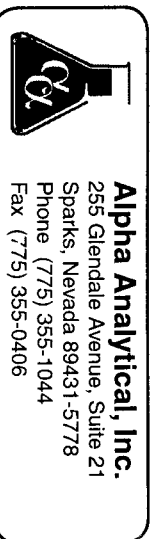
Comments: Security seals intact. Frozen ice. Perchlorate on 24 HR TAT, due 9/2/10. Chlorate subbed to Montgomery Watson by Sac office. Uranium subbed to SEM. Metals are filtered. Conductivity=200mS. TOC pH=1.

Logged in by: K Murray Signature K Murray Print Name K Murray Company Alpha Analytical, Inc. Date/Time 9-1-10 1000

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**Billing Information**

Name: **PRIMA ENVIRONMENTAL, Inc.**  
 Address: **5070 Robert J. Mathews Parkway, Suite 300**  
 City, State, Z: **El Dorado Hills, CA 95762**  
 Phone Num: **916-939-7300**  
 FAX: **916-939-7398**



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

**Samples Collected From Which State?** 28731  
 AZ CA OR NV WA  
 ID OR NV WA  
 Page # 1 of 2

Client Name: **NEM-TRON-FL** Job # **NEM-TRON-FL**  
 Address: **El Dorado Hills, CA 95762** Email Address: **data@primaenvironmental.com**  
 City, State, Zip: **El Dorado Hills, CA 95762** Phone #

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Office (Use Only)	Report Attention	Sample Description	TAT	Field Filtered	Total and type of containers ** See below	Analyses Required	Required QC Level?	EDD / EDF? YES NO	REMARKS
1400	9/8/10	AR	CD	FE510090120-01		Cindy Schriber	NEM-TRON-FL-BSAM-5-S2	24		3-V	Perchlorate (314)	I		Alkalinity = total (Br, Cl, F, SO <sub>4</sub> )
							NEM-TRON-FL-BSAM-10-81			3-V	Alkalinity (301)	II		HCO <sub>3</sub> , Hydroxide)
							NEM-TRON-FL-BSAM-10-81			3-V	Anions (300)	III		Anions = unpreserved
							NEM-TRON-FL-BSAM-5-S2	5d		4-P	TDS (160.1)	IV		(Br, Cl, F, SO <sub>4</sub> )
							NEM-TRON-FL-BSAM-6-S1			2-P	Ammonia (30.3)			Preserved: (NO <sub>3</sub> , O <sub>2</sub> , O <sub>2</sub> )
							NEM-TRON-FL-BSAM-187-S1			2-P	Chlorate (300)			Metals = (As, B, Ca, Cr, Co, Fe, K, Pb, Mg, Mn, Ni) & (U)
											Metals (1620)			Metals are filtered
											Chlorate sand to			perchlorate sand to
											perchlorate sand to			perchlorate sand to

**ADDITIONAL INSTRUCTIONS:**

Signature	Print Name	Company	Date	Time
<i>Catherine Ligneri</i>	Catherine Ligneri	PRIMA	8/31/10	1430
<i>Lisa de Silva</i>	Lisa de Silva	ALPHA	8-31-10	1430
<i>Lisa de Silva</i>	Lisa de Silva	ALPHA	8-24-10	1500
<i>K Murray</i>	K Murray	AA1	9/1/10	0940

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.

**Billing Information:**

Name  
**PRIMA ENVIRONMENTAL, Inc.**  
 5070 Robert J. Matthews Parkway, Suite 300  
 El Dorado Hills, CA 95762  
 PH: 916-939-7300  
 FAX: 916-939-7398



**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406

Samples Collected From Which State? **27847**

AZ  CA  NV  WA   
 ID  OR  OTHER

Analyses Required

Job # **NEEM-TRDN-FL**  
 P.O. #  
 data@primaenvironmental.com

City, State, Zip

Job #  
 TAT

Time Sampled  
 Date Sampled  
 Matrix\* See Key Below  
 Sampled by  
 Lab ID Number (Use Only)  
 Office (Use Only)

Report Attention  
 Sample Description  
 TAT  
 Field Filled  
 Total and type of containers \*\* See below

Time Sampled	Date Sampled	Matrix* See Key Below	Sampled by	Lab ID Number (Use Only)	Office (Use Only)	Report Attention	Sample Description	TAT	Field Filled	Total and type of containers ** See below	TOC (9060)	TSS (160.2)	8081a 8081a Chlorobenzene (8260)	REMARKS
1400	8/31/02	AR	PE5/0090120-01		02	NEEM-TRDN-FL	-R5AM-5-S2 -R5AM-6-S1 -R5AM-189-S1	5d		3V-20T 1-OT	X	X	X	8081a = organochlorine pesticides hexa-chlorobenzene TSS bottle only 3/4 full for R5AM-189-S1 Conductivity IS ≥ 200 mS 8081a bottle only 1/3 full for R5AM-189-S1

**ADDITIONAL INSTRUCTIONS:**

Received by	Signature	Print Name	Company	Date	Time
Relinquished by	<i>Catherine Lerner</i>	Catherine Lerner	PRIMA	8/31/02	14:30
Received by	<i>Lisa DesSilva</i>	Lisa DesSilva	APPA	8-31-10	1430
Relinquished by	<i>Lisa DesSilva</i>	Lisa DesSilva	APPA	8-31-10	1500
Received by	<i>K Murray</i>	K Murray	AAI	9/1/10	0940
Relinquished by					
Received by					

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\* L-Liter V-Vol S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.