0008

Outgoing
C/015/0025
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From: Jim Smith
To: lori.voorhees@hiawathacoal.com; OGMCOAL
CC: Karl Houskeeper
Date: 1/13/2009 1:27 PM
Subject: 2nd Quarter 2008 water monitoring - Bear Canyon Mine - Sorry this is so late. I sent this last week, but to the wrong e-mail address.
Place: OGMCOAL
Attachments: Bear Canyon Mine upload and parameter report.2nd Qtr2008.doc

Lori,

I have uploaded the 2nd quarter 2008 information for the Bear Canyon Mine from the pipeline into the permanent database. An updated Upload and Parameter Report is attached. Based on this report, generated by the APPX database , it appears you have sampled all required sites for the 2nd quarter 2008 for Bear Canyon Mine. This will be verified by the assigned hydrologist, but you may want to verify for yourself first to avoid having delinquent data.

However, as I indicated in previous e-mails, there appear to be baseline parameters missing at two sites, MH-2 and 16-8-8-10.

Please let me know if you have any questions.

Jim Smith
Environmental Scientist - Permit Supervisor
UDOGM
(801) 538-5262

JIM

Oil, Gas and Mining
01/08/2009
OFFICIAL UPLOAD and PARAMETER REPORT
2ND Quarter 2008
BEAR CANYON MINE

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SITE TYPE: Other: in mine, roof drippers

SITE: 16-8-8-10

Laboratory: SGS 5980028901 Period:OPER
Sample Date: 05/22/2008 Time: 11:31 Reported: 06/09/2008 Received: 05/22/2008

1-Field Water Temperature		12.100000 Deg. C	Method:
2-pH (fld)		7.600000 pH units	Method:
4-Sp. Conductivity (fld)		1190.000000 umhos/cm	Method:
11-Flow		250.000000 GPM	Method:
19-Oil/Grease	<	2.000000 mg/l	Method: EPA 413.
36-Dissolved Calcium		156.060000 mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000 mg/l	Method: EPA 200.
42-Dissolved Magnesium		66.820000 mg/l	Method: EPA 200.
43-Dissolved Manganese		.007000 mg/l	Method: EPA 200.
45-Dissolved Potassium		4.310000 mg/l	Method: EPA 200.
48-Dissolved Sodium		7.300000 mg/l	Method: EPA 200.
53-Chloride		5.000000 mg/l	Method: EPA 300.
60-Sulfate		246.000000 mg/l	Method: EPA 300.
62-Total Alkalinity as CaCO3		364.000000 mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		665.000000 mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		1082.000000 umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		752.000000 mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		364.000000 mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000 mg/l	Method: SM2320-B
133-Total Cations		13.700000 meq/l	Method: SM1030
134-Total Anions		12.500000 meq/l	Method: SM1030
135-Cation/Anion Balance		4.500000 PC DIFF	Method: SM1030
145-Total Iron		.080000 mg/l	Method: EPA 200.
149-Total Manganese		.005000 mg/l	Method: EPA 200.

SITE: SBC-9A

Laboratory: SGS 5980027806 Period:OPER
Sample Date: 05/20/2008 Time: 11:31 Reported: 06/03/2008 Received: 05/21/2008

1-Field Water Temperature		14.000000 Deg. C	Method:
2-pH (fld)		7.600000 pH units	Method:
4-Sp. Conductivity (fld)		790.000000 umhos/cm	Method:
11-Flow		330.000000 GPM	Method: ALL OTHE

This Parameter is out by 4.41 Standard Deviations(STD). One STD is 65.29 with a mean of 42.18.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified

19-Oil/Grease	<	2.000000 mg/l	Method: EPA 413.
36-Dissolved Calcium		103.410000 mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000 mg/l	Method: EPA 200.
41-Dissolved Lead	<	.010000 mg/l	Method: EPA 200.
42-Dissolved Magnesium		40.610000 mg/l	Method: EPA 200.
43-Dissolved Manganese	<	.002000 mg/l	Method: EPA 200.
45-Dissolved Potassium		2.570000 mg/l	Method: EPA 200.
48-Dissolved Sodium		6.190000 mg/l	Method: EPA 200.
53-Chloride		4.000000 mg/l	Method: EPA 300.
60-Sulfate		62.000000 mg/l	Method: EPA 300.
62-Total Alkalinity as CaCO3		331.000000 mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		425.000000 mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		718.000000 umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		417.000000 mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		331.000000 mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000 mg/l	Method: SM2320-B
133-Total Cations		8.800000 meq/l	Method: SM1030
134-Total Anions		8.000000 meq/l	Method: SM1030
135-Cation/Anion Balance		4.700000 PC DIFF	Method: SM1030

145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese < .002000 mg/l Method: EPA 200.

SITE TYPE: Spring

SITE: 16-8-18-4

Laboratory: SGS 5980038503 Period:OPER
Sample Date: 06/24/2008 Time: 14:05 Reported: 07/08/2008 Received: 06/25/2008
1-Field Water Temperature 9.800000 Deg. C Method:
2-pH (fld) 7.800000 pH units Method:
4-Sp. Conductivity (fld) 380.000000 umhos/cm Method:
11-Flow 4.000000 GPM Method:
31-Ammonia as N < .100000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron < .010000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 84.870000 mg/l Method: EPA 200.
39-Dissolved Copper < .010000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.
42-Dissolved Magnesium 24.170000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .400000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 2.110000 mg/l Method: EPA 200.
49-Dissolved Zinc < .004000 mg/l Method: EPA 200.
53-Chloride 2.000000 mg/l Method: EPA 300.
56-Nitrate as N < .050000 mg/l Method: EPA 300.
57-Nitrite as N < .050000 mg/l Method: EPA 300.
58-Ortho. Phosphate < .050000 mg/l Method: EPA 300.
60-Sulfate 7.000000 mg/l Method: EPA 300.
61-Total Phosphorus .080000 mg/l Method: SM4500
62-Total Alkalinity as CaCO3 289.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 311.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 542.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 323.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 289.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
113-Dissolved Aluminum < .030000 mg/l Method: EPA 200.
129-Dissolved Molybdenum < .005000 mg/l Method: EPA 200.
133-Total Cations 6.300000 meq/l Method: SM1030
134-Total Anions 6.000000 meq/l Method: SM1030
135-Cation/Anion Balance 2.800000 PC DIFF Method: SM1030
145-Total Iron .420000 mg/l Method: EPA 200.
149-Total Manganese .026000 mg/l Method: EPA 200.

SITE: 16-8-18-5

Laboratory: SGS 5980034203 Period:OPER
Sample Date: 06/11/2008 Time: 12:57 Reported: 06/26/2008 Received: 06/12/2008
1-Field Water Temperature 7.500000 Deg. C Method:
2-pH (fld) 8.200000 pH units Method:
4-Sp. Conductivity (fld) 560.000000 umhos/cm Method:
11-Flow 15.000000 GPM Method:
31-Ammonia as N .300000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron < .010000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 79.110000 mg/l Method: EPA 200.
39-Dissolved Copper < .010000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.
42-Dissolved Magnesium 23.520000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .280000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 2.650000 mg/l Method: EPA 200.

49-Dissolved Zinc	<	.004000	mg/l	Method: EPA 200.
53-Chloride		3.000000	mg/l	Method: EPA 300.
56-Nitrate as N		.220000	mg/l	Method: EPA 300.
57-Nitrite as N	<	.050000	mg/l	Method: EPA 300.
58-Ortho. Phosphate	<	.050000	mg/l	Method: EPA 300.
60-Sulfate		14.000000	mg/l	Method: EPA 300.
61-Total Phosphorus	<	.050000	mg/l	Method: SM4500
62-Total Alkalinity as CaCO3		266.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		294.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		538.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		308.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		266.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000	mg/l	Method: SM2320-B
113-Dissolved Aluminum	<	.030000	mg/l	Method: EPA 200.
129-Dissolved Molybdenum	<	.005000	mg/l	Method: EPA 200.
133-Total Cations		6.000000	meq/l	Method: SM1030
134-Total Anions		5.700000	meq/l	Method: SM1030
135-Cation/Anion Balance		2.700000	PC DIFF	Method: SM1030
145-Total Iron	<	.050000	mg/l	Method: EPA 200.
149-Total Manganese	<	.002000	mg/l	Method: EPA 200.

SITE: FBC-12

NO FLOW Date: 06/03/2008 Time: 12:30
Comments: No Flow

SITE: SBC-12

NO FLOW Date: 06/03/2008 Time: 12:20

SITE: SBC-14

Laboratory: SGS 5980027805 Period:OPER
Sample Date: 05/20/2008 Time: 11:11 Reported: 06/03/2008 Received: 05/21/2008

1-Field Water Temperature		7.300000	Deg. C	Method:
2-pH (fld)		7.400000	pH units	Method:
4-Sp. Conductivity (fld)		2180.000000	umhos/cm	Method:
11-Flow		2.000000	GPM	Method:
36-Dissolved Calcium		144.230000	mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000	mg/l	Method: EPA 200.
42-Dissolved Magnesium		215.010000	mg/l	Method: EPA 200.
43-Dissolved Manganese	<	.002000	mg/l	Method: EPA 200.
45-Dissolved Potassium		16.490000	mg/l	Method: EPA 200.
48-Dissolved Sodium		52.030000	mg/l	Method: EPA 200.
53-Chloride		54.000000	mg/l	Method: EPA 300.
60-Sulfate		742.000000	mg/l	Method: EPA 300.
62-Total Alkalinity as CaCO3		404.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		1246.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		1998.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		1578.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		404.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000	mg/l	Method: SM2320-B
133-Total Cations		27.600000	meq/l	Method: SM1030
134-Total Anions		25.100000	meq/l	Method: SM1030
135-Cation/Anion Balance		4.800000	PC DIFF	Method: SM1030
145-Total Iron	<	.050000	mg/l	Method: EPA 200.
149-Total Manganese	<	.002000	mg/l	Method: EPA 200.

SITE: SBC-15

Laboratory: FLD 20080624-1 Period:OPER
Sample Date: 06/24/2008 Time: 12:00 Reported: Received:

1-Field Water Temperature		7.400000	Deg. C	Method:
2-pH (fld)		7.300000	pH units	Method:
4-Sp. Conductivity (fld)		660.000000	umhos/cm	Method:
11-Flow		.500000	GPM	Method:

SITE: SBC-16

Laboratory: FLD 20080624-2 Period:OPER
Sample Date: 06/24/2008 Time: 12:30 Reported: Received:

1-Field Water Temperature	10.300000	Deg. C	Method:
2-pH (fld)	8.300000	pH units	Method:
4-Sp. Conductivity (fld)	580.000000	umhos/cm	Method:
11-Flow	1.500000	GPM	Method:

SITE: SBC-16A

Laboratory: SGS 5980038501 Period:OPER
Sample Date: 06/24/2008 Time: 12:35 Reported: 07/08/2008 Received: 06/25/2008

1-Field Water Temperature	7.600000	Deg. C	Method:
2-pH (fld)	8.100000	pH units	Method:
4-Sp. Conductivity (fld)	550.000000	umhos/cm	Method:
11-Flow	12.000000	GPM	Method:
31-Ammonia as N	< .100000	mg/l	Method: EPA 350.
32-Dissolved Arsenic	< .010000	mg/l	Method: EPA 200.
34-Dissolved Boron	.020000	mg/l	Method: EPA 200.
35-Dissolved Cadmium	< .001000	mg/l	Method: EPA 200.
36-Dissolved Calcium	68.570000	mg/l	Method: EPA 200.
39-Dissolved Copper	< .010000	mg/l	Method: EPA 200.
40-Dissolved Iron	< .030000	mg/l	Method: EPA 200.
41-Dissolved Lead	< .010000	mg/l	Method: EPA 200.
42-Dissolved Magnesium	30.830000	mg/l	Method: EPA 200.
43-Dissolved Manganese	< .002000	mg/l	Method: EPA 200.
45-Dissolved Potassium	.390000	mg/l	Method: EPA 200.
46-Dissolved Selenium	< .020000	mg/l	Method: EPA 200.
48-Dissolved Sodium	4.400000	mg/l	Method: EPA 200.
49-Dissolved Zinc	.005000	mg/l	Method: EPA 200.
53-Chloride	3.000000	mg/l	Method: EPA 300.
56-Nitrate as N	.100000	mg/l	Method: EPA 300.
57-Nitrite as N	< .050000	mg/l	Method: EPA 300.
58-Ortho. Phosphate	< .050000	mg/l	Method: EPA 300.
60-Sulfate	22.000000	mg/l	Method: EPA 300.
61-Total Phosphorus	< .050000	mg/l	Method: SM4500
62-Total Alkalinity as CaCO3	256.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3	298.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)	526.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C	306.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3	256.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	< 5.000000	mg/l	Method: SM2320-B
113-Dissolved Aluminum	< .030000	mg/l	Method: EPA 200.
129-Dissolved Molybdenum	< .005000	mg/l	Method: EPA 200.
133-Total Cations	6.200000	meq/l	Method: SM1030
134-Total Anions	5.700000	meq/l	Method: SM1030
135-Cation/Anion Balance	4.200000	PC DIFF	Method: SM1030
145-Total Iron	.310000	mg/l	Method: EPA 200.
149-Total Manganese	.004000	mg/l	Method: EPA 200.

SITE: SBC-16B

Laboratory: SGS 5980038502 Period:OPER
Sample Date: 06/24/2008 Time: 12:45 Reported: 07/08/2008 Received: 06/25/2008

1-Field Water Temperature	12.700000	Deg. C	Method:
2-pH (fld)	8.000000	pH units	Method:
4-Sp. Conductivity (fld)	490.000000	umhos/cm	Method:
11-Flow	15.000000	GPM	Method:
31-Ammonia as N	< .100000	mg/l	Method: EPA 350.
32-Dissolved Arsenic	< .010000	mg/l	Method: EPA 200.
34-Dissolved Boron	< .010000	mg/l	Method: EPA 200.
35-Dissolved Cadmium	< .001000	mg/l	Method: EPA 200.
36-Dissolved Calcium	63.810000	mg/l	Method: EPA 200.
39-Dissolved Copper	< .010000	mg/l	Method: EPA 200.
40-Dissolved Iron	< .030000	mg/l	Method: EPA 200.
41-Dissolved Lead	< .010000	mg/l	Method: EPA 200.
42-Dissolved Magnesium	29.770000	mg/l	Method: EPA 200.

43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .320000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 3.500000 mg/l Method: EPA 200.
49-Dissolved Zinc < .004000 mg/l Method: EPA 200.
53-Chloride 3.000000 mg/l Method: EPA 300.
56-Nitrate as N < .050000 mg/l Method: EPA 300.
57-Nitrite as N < .050000 mg/l Method: EPA 300.
58-Ortho. Phosphate < .050000 mg/l Method: EPA 300.
60-Sulfate 13.000000 mg/l Method: EPA 300.
61-Total Phosphorus < .050000 mg/l Method: SM4500
62-Total Alkalinity as CaCO3 253.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 282.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 491.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 284.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 252.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
113-Dissolved Aluminum < .030000 mg/l Method: EPA 200.
129-Dissolved Molybdenum < .005000 mg/l Method: EPA 200.
133-Total Cations 5.800000 meq/l Method: SM1030
134-Total Anions 5.400000 meq/l Method: SM1030
135-Cation/Anion Balance 3.800000 PC DIFF Method: SM1030
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese .004000 mg/l Method: EPA 200.

SITE: SBC-17

Laboratory: SGS 5980027804 Period:OPER
Sample Date: 05/20/2008 Time: 10:30 Reported: 06/03/2008 Received: 05/21/2008
1-Field Water Temperature 10.500000 Deg. C Method:
2-pH (fld) 8.300000 pH units Method:
4-Sp. Conductivity (fld) 1560.000000 umhos/cm Method:
11-Flow 4.000000 GPM Method:
36-Dissolved Calcium 122.940000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 167.950000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 16.980000 mg/l Method: EPA 200.
48-Dissolved Sodium 23.810000 mg/l Method: EPA 200.
53-Chloride 9.000000 mg/l Method: EPA 300.
60-Sulfate 643.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 292.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 999.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 1556.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 1204.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 292.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
133-Total Cations 21.400000 meq/l Method: SM1030
134-Total Anions 19.500000 meq/l Method: SM1030
135-Cation/Anion Balance 4.800000 PC DIFF Method: SM1030
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese < .002000 mg/l Method: EPA 200.

SITE: SBC-18

Laboratory: SGS 5980038504 Period:OPER
Sample Date: 06/24/2008 Time: 14:40 Reported: 07/08/2008 Received: 06/25/2008
1-Field Water Temperature 9.900000 Deg. C Method:
2-pH (fld) 8.100000 pH units Method:
4-Sp. Conductivity (fld) 380.000000 umhos/cm Method: NONE
11-Flow 6.000000 GPM Method:
31-Ammonia as N < .100000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron < .010000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 56.980000 mg/l Method: EPA 200.
This Parameter is out by 2.70 Standard Deviations(STD). One STD is 4.61 with a mean of 44.51.
Warning: 39 - Std. Dev. is greater than 2, verify value.

Comment: value verified

39-Dissolved Copper	<	.010000	mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000	mg/l	Method: EPA 200.
41-Dissolved Lead	<	.010000	mg/l	Method: EPA 200.
42-Dissolved Magnesium		33.270000	mg/l	Method: EPA 200.
43-Dissolved Manganese	<	.002000	mg/l	Method: EPA 200.
45-Dissolved Potassium		.550000	mg/l	Method: EPA 200.
46-Dissolved Selenium	<	.020000	mg/l	Method: EPA 200.
48-Dissolved Sodium		4.060000	mg/l	Method: EPA 200.
49-Dissolved Zinc	<	.004000	mg/l	Method: EPA 200.
53-Chloride		3.000000	mg/l	Method: EPA 300.
56-Nitrate as N		.210000	mg/l	Method: EPA 300.
57-Nitrite as N	<	.050000	mg/l	Method: EPA 300.
58-Ortho. Phosphate	<	.050000	mg/l	Method: EPA 300.
60-Sulfate		18.000000	mg/l	Method: EPA 300.
61-Total Phosphorus	<	.050000	mg/l	Method: SM4500
62-Total Alkalinity as CaCO3		244.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		279.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		486.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		276.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		244.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000	mg/l	Method: SM2320-B
113-Dissolved Aluminum	<	.030000	mg/l	Method: EPA 200.
129-Dissolved Molybdenum	<	.005000	mg/l	Method: EPA 200.
133-Total Cations		5.800000	meq/l	Method: SM1030
134-Total Anions		5.300000	meq/l	Method: SM1030
135-Cation/Anion Balance		3.800000	PC DIFF	Method: SM1030
145-Total Iron	<	.050000	mg/l	Method: EPA 200.
149-Total Manganese	<	.002000	mg/l	Method: EPA 200.

SITE: SBC-21

Laboratory: SGS 5980039302 Period:OPER
Sample Date: 06/25/2008 Time: 11:04 Reported: 07/15/2008 Received: 06/26/2008

1-Field Water Temperature		9.000000	Deg. C	Method:
2-pH (fld)		7.500000	pH units	Method:
4-Sp. Conductivity (fld)		850.000000	umhos/cm	Method:
11-Flow		8.000000	GPM	Method:
31-Ammonia as N	<	.100000	mg/l	Method: EPA 350.
32-Dissolved Arsenic	<	.010000	mg/l	Method: EPA 200.
34-Dissolved Boron	<	.010000	mg/l	Method: EPA 200.
35-Dissolved Cadmium	<	.001000	mg/l	Method: EPA 200.
36-Dissolved Calcium		84.160000	mg/l	Method: EPA 200.
39-Dissolved Copper	<	.010000	mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000	mg/l	Method: EPA 200.
41-Dissolved Lead	<	.010000	mg/l	Method: EPA 200.
42-Dissolved Magnesium		24.070000	mg/l	Method: EPA 200.
43-Dissolved Manganese	<	.002000	mg/l	Method: EPA 200.
45-Dissolved Potassium		.280000	mg/l	Method: EPA 200.
46-Dissolved Selenium	<	.020000	mg/l	Method: EPA 200.
48-Dissolved Sodium		2.530000	mg/l	Method: EPA 200.
49-Dissolved Zinc	<	.004000	mg/l	Method: EPA 200.
53-Chloride		2.000000	mg/l	Method: EPA 300.
56-Nitrate as N		.220000	mg/l	Method: EPA 300.
57-Nitrite as N	<	.050000	mg/l	Method: EPA 300.
58-Ortho. Phosphate	<	.050000	mg/l	Method: EPA 300.
60-Sulfate		9.000000	mg/l	Method: EPA 300.
61-Total Phosphorus	<	.050000	mg/l	Method: SM4500
62-Total Alkalinity as CaCO3		273.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		309.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		545.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		341.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		273.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000	mg/l	Method: SM2320-B
113-Dissolved Aluminum	<	.030000	mg/l	Method: EPA 200.
129-Dissolved Molybdenum	<	.005000	mg/l	Method: EPA 200.
133-Total Cations		6.300000	meq/l	Method: SM1030
134-Total Anions		5.700000	meq/l	Method: SM1030
135-Cation/Anion Balance		5.000000	PC DIFF	Method: SM1030
145-Total Iron	<	.050000	mg/l	Method: EPA 200.

149-Total Manganese < .002000 mg/l Method: EPA 200.

SITE: SBC-22

Laboratory: SGS 5980032501 Period:OPER
Sample Date: 06/03/2008 Time: 11:40 Reported: 06/13/2008 Received: 06/03/2008

1-Field Water Temperature		6.200000 Deg. C	Method:
2-pH (fld)		8.100000 pH units	Method:
4-Sp. Conductivity (fld)		570.000000 umhos/cm	Method:
11-Flow		10.000000 GPM	Method:
31-Ammonia as N		.200000 mg/l	Method: EPA 350.
32-Dissolved Arsenic	<	.010000 mg/l	Method: EPA 200.
34-Dissolved Boron	<	.010000 mg/l	Method: EPA 200.
35-Dissolved Cadmium	<	.001000 mg/l	Method: EPA 200.
36-Dissolved Calcium		82.440000 mg/l	Method: EPA 200.
39-Dissolved Copper	<	.010000 mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000 mg/l	Method: EPA 200.
41-Dissolved Lead	<	.010000 mg/l	Method: EPA 200.
42-Dissolved Magnesium		23.950000 mg/l	Method: EPA 200.
43-Dissolved Manganese	<	.002000 mg/l	Method: EPA 200.
45-Dissolved Potassium		.480000 mg/l	Method: EPA 200.
46-Dissolved Selenium	<	.020000 mg/l	Method: EPA 200.
48-Dissolved Sodium		3.250000 mg/l	Method: EPA 200.
49-Dissolved Zinc	<	.004000 mg/l	Method: EPA 200.
53-Chloride		3.000000 mg/l	Method: EPA 300.
56-Nitrate as N		.140000 mg/l	Method: EPA 300.
57-Nitrite as N	<	.050000 mg/l	Method: EPA 300.
58-Ortho. Phosphate	<	.050000 mg/l	Method: EPA 300.
60-Sulfate		11.000000 mg/l	Method: EPA 300.
61-Total Phosphorus	<	.050000 mg/l	Method: SM4500
62-Total Alkalinity as CaCO3		279.000000 mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		304.000000 mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		544.000000 umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		317.000000 mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		279.000000 mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000 mg/l	Method: SM2320-B
113-Dissolved Aluminum	<	.030000 mg/l	Method: EPA 200.
129-Dissolved Molybdenum	<	.005000 mg/l	Method: EPA 200.
133-Total Cations		6.200000 meq/l	Method: SM1030
134-Total Anions		5.900000 meq/l	Method: SM1030
135-Cation/Anion Balance		2.900000 PC DIFF	Method: SM1030
145-Total Iron	<	.050000 mg/l	Method: EPA 200.
149-Total Manganese	<	.002000 mg/l	Method: EPA 200.

SITE: SBC-3

Laboratory: SGS 5980029901 Period:OPER
Sample Date: 05/23/2008 Time: 13:02 Reported: 06/09/2008 Received: 05/27/2008

1-Field Water Temperature		8.200000 Deg. C	Method:
2-pH (fld)		7.200000 pH units	Method:
4-Sp. Conductivity (fld)		4740.000000 umhos/cm	Method:
8-Depth		24.670000 feet	Method:
11-Flow		24.800000 GPM	Method: ALL OTHE
36-Dissolved Calcium		240.200000 mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000 mg/l	Method: EPA 200.
42-Dissolved Magnesium		340.370000 mg/l	Method: EPA 200.
43-Dissolved Manganese		.004000 mg/l	Method: EPA 200.
45-Dissolved Potassium		19.020000 mg/l	Method: EPA 200.
48-Dissolved Sodium		102.330000 mg/l	Method: EPA 200.
53-Chloride		147.000000 mg/l	Method: EPA 300.
60-Sulfate		1405.000000 mg/l	Method: EPA 300.
62-Total Alkalinity as CaCO3		434.000000 mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		2001.000000 mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		3150.000000 umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C		2835.000000 mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		434.000000 mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000 mg/l	Method: SM2320-B
133-Total Cations		44.900000 meq/l	Method: SM1030
134-Total Anions		42.100000 meq/l	Method: SM1030

135-Cation/Anion Balance 3.300000 PC DIFF Method: SM1030
145-Total Iron 2.070000 mg/l Method: EPA 200.
149-Total Manganese .043000 mg/l Method: EPA 200.

SITE: SBC-4

Laboratory: SGS 5980025902 Period:OPER
Sample Date: 05/14/2008 Time: 14:15 Reported: 05/22/2008 Received: 05/14/2008
1-Field Water Temperature 10.300000 Deg. C Method:
2-pH (fld) 7.300000 pH units Method:
4-Sp. Conductivity (fld) 485.000000 umhos/cm Method:
11-Flow 130.000000 GPM Method: ALL OTHE
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 80.050000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.
42-Dissolved Magnesium 32.690000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 1.360000 mg/l Method: EPA 200.
48-Dissolved Sodium 4.180000 mg/l Method: EPA 200.
53-Chloride 3.000000 mg/l Method: EPA 300.
60-Sulfate 40.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 280.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 335.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 592.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 357.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 280.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
133-Total Cations 6.900000 meq/l Method: SM1030
134-Total Anions 6.500000 meq/l Method: SM1030
135-Cation/Anion Balance 2.900000 PC DIFF Method: SM1030
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese < .002000 mg/l Method: EPA 200.

SITE: SBC-5

Laboratory: SGS 5980025901 Period:OPER
Sample Date: 05/14/2008 Time: 14:05 Reported: 05/22/2008 Received: 05/14/2008
1-Field Water Temperature 10.500000 Deg. C Method:
2-pH (fld) 7.550000 pH units Method:
4-Sp. Conductivity (fld) 590.000000 umhos/cm Method:
11-Flow 20.000000 GPM Method: ALL OTHE
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 93.390000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 45.470000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 2.240000 mg/l Method: EPA 200.
48-Dissolved Sodium 6.150000 mg/l Method: EPA 200.
53-Chloride 6.000000 mg/l Method: EPA 300.
60-Sulfate 84.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 318.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 420.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 739.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 460.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 318.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
133-Total Cations 8.700000 meq/l Method: SM1030
134-Total Anions 8.300000 meq/l Method: SM1030
135-Cation/Anion Balance 2.600000 PC DIFF Method: SM1030
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese < .002000 mg/l Method: EPA 200.

SITE: SCC-1

Laboratory: SGS 5980034202 Period:OPER
Sample Date: 06/11/2008 Time: 11:25 Reported: 06/26/2008 Received: 06/12/2008

1-Field Water Temperature 8.700000 Deg. C Method:
2-pH (fld) 8.200000 pH units Method:
4-Sp. Conductivity (fld) 620.000000 umhos/cm Method:
11-Flow 10.000000 GPM Method: ALL OTHE
This Parameter is out by 2.71 Standard Deviations(STD). One STD is 3.06 with a mean of 1.70.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
31-Ammonia as N .300000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron .020000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 71.240000 mg/l Method: EPA 200.
39-Dissolved Copper < .010000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.
42-Dissolved Magnesium 27.660000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 1.200000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 14.530000 mg/l Method: EPA 200.
49-Dissolved Zinc < .004000 mg/l Method: EPA 200.
53-Chloride 5.000000 mg/l Method: EPA 300.
56-Nitrate as N < .050000 mg/l Method: EPA 300.
57-Nitrite as N < .050000 mg/l Method: EPA 300.
58-Ortho. Phosphate < .050000 mg/l Method: EPA 300.
60-Sulfate 38.000000 mg/l Method: EPA 300.
61-Total Phosphorus < .050000 mg/l Method: SM4500
62-Total Alkalinity as CaCO3 269.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 292.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 587.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 338.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 269.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
113-Dissolved Aluminum < .030000 mg/l Method: EPA 200.
129-Dissolved Molybdenum < .005000 mg/l Method: EPA 200.
133-Total Cations 6.500000 meq/l Method: SM1030
134-Total Anions 6.300000 meq/l Method: SM1030
135-Cation/Anion Balance 1.500000 PC DIFF Method: SM1030
145-Total Iron .110000 mg/l Method: EPA 200.
149-Total Manganese .005000 mg/l Method: EPA 200.

SITE: SCC-5

Laboratory: SGS 5980039303 Period:OPER
Sample Date: 06/25/2008 Time: 11:45 Reported: 07/15/2008 Received: 06/26/2008
1-Field Water Temperature 10.000000 Deg. C Method:
2-pH (fld) 7.500000 pH units Method:
3-Dissolved Oxygen (field) 7.200000 mg/l Method:
4-Sp. Conductivity (fld) 600.000000 umhos/cm Method:
11-Flow 5.000000 GPM Method:
31-Ammonia as N < .100000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron .020000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 82.760000 mg/l Method: EPA 200.
39-Dissolved Copper < .010000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.
42-Dissolved Magnesium 10.880000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .330000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 1.940000 mg/l Method: EPA 200.
49-Dissolved Zinc .006000 mg/l Method: EPA 200.
53-Chloride 2.000000 mg/l Method: EPA 300.
56-Nitrate as N < .050000 mg/l Method: EPA 300.
57-Nitrite as N < .050000 mg/l Method: EPA 300.
58-Ortho. Phosphate < .050000 mg/l Method: EPA 300.
60-Sulfate 7.000000 mg/l Method: EPA 300.

61-Total Phosphorus < .050000 mg/l Method: SM4500
62-Total Alkalinity as CaCO3 232.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 251.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 466.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 297.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 232.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
113-Dissolved Aluminum < .030000 mg/l Method: EPA 200.
129-Dissolved Molybdenum < .005000 mg/l Method: EPA 200.
133-Total Cations 5.100000 meq/l Method: SM1030
134-Total Anions 4.800000 meq/l Method: SM1030
135-Cation/Anion Balance 2.800000 PC DIFF Method: SM1030
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese .003000 mg/l Method: EPA 200.

SITE: SMH-1

Laboratory: FLD 20080626-2 Period:OPER
Sample Date: 06/26/2008 Time: 13:09 Reported: Received:
1-Field Water Temperature 9.500000 Deg. C Method:
2-pH (fld) 7.200000 pH units Method:
4-Sp. Conductivity (fld) 700.000000 umhos/cm Method:
11-Flow 1.000000 GPM Method:

SITE: SMH-2

Laboratory: FLD 20080626-3 Period:OPER
Sample Date: 06/26/2008 Time: 12:49 Reported: Received:
1-Field Water Temperature 15.000000 Deg. C Method:
2-pH (fld) 7.800000 pH units Method:
4-Sp. Conductivity (fld) 690.000000 umhos/cm Method: NONE
This Parameter is out by 2.18 Standard Deviations(STD). One STD is
81.33 with a mean of 513.02.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
11-Flow 2.000000 GPM Method:

SITE: SMH-3

Laboratory: FLD 20080626-4 Period:OPER
Sample Date: 06/26/2008 Time: 14:01 Reported: Received:
1-Field Water Temperature 21.800000 Deg. C Method:
2-pH (fld) 8.200000 pH units Method:
4-Sp. Conductivity (fld) 540.000000 umhos/cm Method:
11-Flow 10.000000 GPM Method:

SITE: SMH-4

NO FLOW Date: 06/25/2008 Time: 13:15

SITE: SMH-5

Laboratory: SGS 5980032502 Period:OPER
Sample Date: 06/03/2008 Time: 13:31 Reported: 06/13/2008 Received: 06/03/2008
1-Field Water Temperature 7.400000 Deg. C Method:
2-pH (fld) 8.100000 pH units Method:
4-Sp. Conductivity (fld) 560.000000 umhos/cm Method:
11-Flow 5.000000 GPM Method:
31-Ammonia as N .400000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron .020000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 65.610000 mg/l Method: EPA 200.
39-Dissolved Copper < .010000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.

42-Dissolved Magnesium 29.610000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .850000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 4.230000 mg/l Method: EPA 200.
49-Dissolved Zinc < .004000 mg/l Method: EPA 200.
53-Chloride 3.000000 mg/l Method: EPA 300.
56-Nitrate as N < .050000 mg/l Method: EPA 300.
57-Nitrite as N < .050000 mg/l Method: EPA 300.
58-Ortho. Phosphate < .050000 mg/l Method: EPA 300.
60-Sulfate 9.000000 mg/l Method: EPA 300.
61-Total Phosphorus < .050000 mg/l Method: SM4500
62-Total Alkalinity as CaCO3 259.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 286.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 518.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 295.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 259.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
113-Dissolved Aluminum < .030000 mg/l Method: EPA 200.
129-Dissolved Molybdenum < .005000 mg/l Method: EPA 200.
133-Total Cations 5.900000 meq/l Method: SM1030
134-Total Anions 5.500000 meq/l Method: SM1030
135-Cation/Anion Balance 4.100000 PC DIFF Method: SM1030
145-Total Iron .220000 mg/l Method: EPA 200.
149-Total Manganese .010000 mg/l Method: EPA 200.

SITE TYPE: Stream

SITE: BC-1

Laboratory: SGS 5980027801 Period:OPER
Sample Date: 05/20/2008 Time: 08:16 Reported: 06/03/2008 Received: 05/21/2008
1-Field Water Temperature 10.500000 Deg. C Method:
2-pH (fld) 8.700000 pH units Method:
3-Dissolved Oxygen (field) 7.800000 mg/l Method:
4-Sp. Conductivity (fld) 810.000000 umhos/cm Method:
11-Flow 30.000000 GPM Method:
16-Total Suspended Solids 2960.000000 mg/l Method: SM2540-D
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 58.570000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 70.130000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 4.180000 mg/l Method: EPA 200.
48-Dissolved Sodium 10.430000 mg/l Method: EPA 200.
53-Chloride 6.000000 mg/l Method: EPA 300.
60-Sulfate 201.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 207.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 435.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 750.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 488.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 207.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids 7.000000 ml/l Method: EPA 160.
133-Total Cations 9.300000 meq/l Method: SM1030
134-Total Anions 8.500000 meq/l Method: SM1030
135-Cation/Anion Balance 4.300000 PC DIFF Method: SM1030
145-Total Iron 27.570000 mg/l Method: EPA 200.
149-Total Manganese .722000 mg/l Method: EPA 200.

Laboratory: FLD 20080605-1 Period:OPER
Sample Date: 06/05/2008 Time: 15:29 Reported: Received:
1-Field Water Temperature 16.900000 Deg. C Method:
2-pH (fld) 8.600000 pH units Method:
3-Dissolved Oxygen (field) 6.900000 mg/l Method:
4-Sp. Conductivity (fld) 780.000000 umhos/cm Method:
11-Flow 20.000000 GPM Method:

SITE: BC-2

Laboratory: SGS 5980027802 Period:OPER
Sample Date: 05/20/2008 Time: 08:48 Reported: 06/03/2008 Received: 05/21/2008
1-Field Water Temperature 9.900000 Deg. C Method:
2-pH (fld) 8.500000 pH units Method:
3-Dissolved Oxygen (field) 7.800000 mg/l Method:
4-Sp. Conductivity (fld) 860.000000 umhos/cm Method:
11-Flow 30.000000 GPM Method:
16-Total Suspended Solids 855.000000 mg/l Method: SM2540-D
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 102.380000 mg/l Method: EPA 200.
40-Dissolved Iron .440000 mg/l Method: EPA 200.
42-Dissolved Magnesium 86.750000 mg/l Method: EPA 200.
43-Dissolved Manganese .053000 mg/l Method: EPA 200.
45-Dissolved Potassium 13.200000 mg/l Method: EPA 200.
This Parameter is out by 3.81 Standard Deviations(STD). One STD is 2.51 with a mean of 3.65.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
48-Dissolved Sodium 68.830000 mg/l Method: EPA 200.
This Parameter is out by 6.61 Standard Deviations(STD). One STD is 8.87 with a mean of 10.17.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
53-Chloride 31.000000 mg/l Method: EPA 300.
This Parameter is out by 2.82 Standard Deviations(STD). One STD is 8.16 with a mean of 7.95.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
60-Sulfate 428.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 243.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 613.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 1275.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 917.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 243.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids 1.100000 ml/l Method: EPA 160.
133-Total Cations 15.600000 meq/l Method: SM1030
134-Total Anions 14.600000 meq/l Method: SM1030
135-Cation/Anion Balance 3.100000 PC DIFF Method: SM1030
145-Total Iron 8.820000 mg/l Method: EPA 200.
149-Total Manganese .257000 mg/l Method: EPA 200.

Laboratory: FLD 20080605-2 Period:OPER
Sample Date: 06/05/2008 Time: 15:37 Reported: Received:
1-Field Water Temperature 16.300000 Deg. C Method:
2-pH (fld) 8.400000 pH units Method:
3-Dissolved Oxygen (field) 6.300000 mg/l Method:
4-Sp. Conductivity (fld) 1320.000000 umhos/cm Method:
11-Flow 30.000000 GPM Method:

SITE: BC-3

Laboratory: SGS 5980027803 Period:OPER
Sample Date: 05/20/2008 Time: 09:15 Reported: 06/03/2008 Received: 05/21/2008
1-Field Water Temperature 11.400000 Deg. C Method:
2-pH (fld) 8.400000 pH units Method:
3-Dissolved Oxygen (field) 7.200000 mg/l Method:
4-Sp. Conductivity (fld) 1440.000000 umhos/cm Method:
11-Flow 30.000000 GPM Method: ALL OTHE
This Parameter is out by 3.58 Standard Deviations(STD). One STD is 7.74 with a mean of 2.25.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
16-Total Suspended Solids 1112.000000 mg/l Method: SM2540-D
This Parameter is out by 2.54 Standard Deviations(STD). One STD is 355.82 with a mean of 207.38.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified

19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 60.300000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 72.610000 mg/l Method: EPA 200.
This Parameter is out by 2.12 Standard Deviations(STD). One STD is 7.12 with a mean of 57.53.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 4.510000 mg/l Method: EPA 200.
48-Dissolved Sodium 11.820000 mg/l Method: EPA 200.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
53-Chloride 7.000000 mg/l Method: EPA 300.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
60-Sulfate 221.000000 mg/l Method: EPA 300.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
62-Total Alkalinity as CaCO3 205.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 450.000000 mg/l Method: SM2340-B
This Parameter is out by 2.02 Standard Deviations(STD). One STD is 50.39 with a mean of 348.25.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
67-Specific Conductivity (Lab) 780.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 518.000000 mg/l Method: SM2540-C
This Parameter is out by 2.02 Standard Deviations(STD). One STD is 52.17 with a mean of 412.63.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
71-Bicarbonate as CaCO3 205.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids 5.500000 ml/l Method: EPA 160.
133-Total Cations 9.600000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
134-Total Anions 8.900000 meq/l Method: SM1030
135-Cation/Anion Balance 3.900000 PC DIFF Method: SM1030
145-Total Iron 26.850000 mg/l Method: EPA 200.
This Parameter is out by 2.48 Standard Deviations(STD). One STD is 9.00 with a mean of 4.56.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
149-Total Manganese .762000 mg/l Method: EPA 200.

NO FLOW Date: 06/05/2008 Time: 15:21
Comments: No Flow

SITE: BC-4

NO FLOW Date: 05/25/2008 Time: 14:45
Comments: No Flow

NO FLOW Date: 06/05/2008 Time: 15:19
Comments: No Flow

SITE: CK-1

Laboratory: SGS 5980028802 Period:OPER
Sample Date: 05/22/2008 Time: 10:15 Reported: 06/11/2008 Received: 05/22/2008
1-Field Water Temperature 4.000000 Deg. C Method:
2-pH (fld) 8.800000 pH units Method:
3-Dissolved Oxygen (field) 9.600000 mg/l Method:
4-Sp. Conductivity (fld) 520.000000 umhos/cm Method:
11-Flow 300.000000 GPM Method:
16-Total Suspended Solids 616.000000 mg/l Method: SM2540-D
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 74.160000 mg/l Method: EPA 200.

40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 26.140000 mg/l Method: EPA 200.
This Parameter is out by 2.20 Standard Deviations(STD). One STD is
13.86 with a mean of 56.56.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .870000 mg/l Method: EPA 200.
48-Dissolved Sodium 4.770000 mg/l Method: EPA 200.
This Parameter is out by 2.51 Standard Deviations(STD). One STD is
1.09 with a mean of 7.51.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
53-Chloride 4.000000 mg/l Method: EPA 300.
60-Sulfate 40.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 264.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 293.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 500.000000 umhos/cm Method: SM2510-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
68-Total Dissolved Solids @ 180 C 306.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 264.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids 1.000000 ml/l Method: EPA 160.
133-Total Cations 6.100000 meq/l Method: SM1030
134-Total Anions 6.200000 meq/l Method: SM1030
135-Cation/Anion Balance 1.200000- PC DIFF Method: PC. DIFF
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
145-Total Iron 6.420000 mg/l Method: EPA 200.
149-Total Manganese .226000 mg/l Method: EPA 200.

Laboratory: SGS 5980034201 Period:OPER
Sample Date: 06/11/2008 Time: 10:25 Reported: 06/26/2008 Received: 06/12/2008
1-Field Water Temperature 5.700000 Deg. C Method:
2-pH (fld) 8.300000 pH units Method:
3-Dissolved Oxygen (field) 9.100000 mg/l Method:
4-Sp. Conductivity (fld) 610.000000 umhos/cm Method:
11-Flow 60.000000 GPM Method:
16-Total Suspended Solids 2876.000000 mg/l Method: SM2540-D
This Parameter is out by 2.19 Standard Deviations(STD). One STD is
1046.59 with a mean of 588.67.
19-Oil/Grease 10.000000 mg/l Method: EPA 1664
36-Dissolved Calcium 66.470000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 48.720000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .870000 mg/l Method: EPA 200.
48-Dissolved Sodium 6.530000 mg/l Method: EPA 200.
53-Chloride 5.000000 mg/l Method: EPA 300.
60-Sulfate 54.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 262.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 305.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 571.000000 umhos/cm Method: SM2510-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
68-Total Dissolved Solids @ 180 C 354.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 262.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids 1.500000 ml/l Method: EPA 160.
133-Total Cations 6.400000 meq/l Method: SM1030
134-Total Anions 6.500000 meq/l Method: SM1030
135-Cation/Anion Balance .900000 PC DIFF Method: PC. DIFF
145-Total Iron 29.600000 mg/l Method: EPA 200.
149-Total Manganese .688000 mg/l Method: EPA 200.

SITE: CK-2

Laboratory: SGS 5980028803 Period:OPER

Sample Date: 05/22/2008 Time: 12:00 Reported: 06/11/2008 Received: 05/22/2008

1-Field Water Temperature		5.100000 Deg. C	Method:
2-pH (fld)		8.800000 pH units	Method:
3-Dissolved Oxygen (field)		8.200000 mg/l	Method:
4-Sp. Conductivity (fld)		750.000000 umhos/cm	Method:
11-Flow		550.000000 GPM	Method:
16-Total Suspended Solids		892.000000 mg/l	Method: SM2540-D
19-Oil/Grease	<	2.000000 mg/l	Method: EPA 413.
36-Dissolved Calcium		92.350000 mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000 mg/l	Method: EPA 200.
42-Dissolved Magnesium		42.750000 mg/l	Method: EPA 200.
43-Dissolved Manganese		.004000 mg/l	Method: EPA 200.
45-Dissolved Potassium		2.190000 mg/l	Method: EPA 200.
48-Dissolved Sodium		6.670000 mg/l	Method: EPA 200.
53-Chloride		5.000000 mg/l	Method: EPA 300.
60-Sulfate		125.000000 mg/l	Method: EPA 300.
62-Total Alkalinity as CaCO3		255.000000 mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		407.000000 mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		477.000000 umhos/cm	Method: SM2510-B

This Parameter is out by 2.31 Standard Deviations(STD). One STD is 170.86 with a mean of 871.33.

Warning: 39 - Std. Dev. is greater than 2, verify value.

Comment: value verified

68-Total Dissolved Solids @ 180 C		463.000000 mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		255.000000 mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000 mg/l	Method: SM2320-B
99-Settleable Solids		1.300000 ml/l	Method: EPA 160.
133-Total Cations		8.500000 meq/l	Method: SM1030
134-Total Anions		7.800000 meq/l	Method: SM1030
135-Cation/Anion Balance		3.900000 PC DIFF	Method: SM1030
145-Total Iron		8.000000 mg/l	Method: EPA 200.
149-Total Manganese		.278000 mg/l	Method: EPA 200.

Laboratory: SGS 5980034205 Period:OPER

Sample Date: 06/11/2008 Time: 14:55 Reported: 06/26/2008 Received: 06/12/2008

1-Field Water Temperature		14.800000 Deg. C	Method:
2-pH (fld)		8.400000 pH units	Method:
3-Dissolved Oxygen (field)		7.400000 mg/l	Method:
4-Sp. Conductivity (fld)		810.000000 umhos/cm	Method:
11-Flow		120.000000 GPM	Method:
16-Total Suspended Solids		780.000000 mg/l	Method: SM2540-D
19-Oil/Grease	<	5.000000 mg/l	Method: EPA 1664
36-Dissolved Calcium		80.730000 mg/l	Method: EPA 200.
40-Dissolved Iron	<	.030000 mg/l	Method: EPA 200.
42-Dissolved Magnesium		48.720000 mg/l	Method: EPA 200.
43-Dissolved Manganese		.007000 mg/l	Method: EPA 200.
45-Dissolved Potassium		2.260000 mg/l	Method: EPA 200.
48-Dissolved Sodium		8.090000 mg/l	Method: EPA 200.
53-Chloride		5.000000 mg/l	Method: EPA 300.
60-Sulfate		151.000000 mg/l	Method: EPA 300.
62-Total Alkalinity as CaCO3		250.000000 mg/l	Method: SM2320-B
63-Total Hardness as CaCO3		402.000000 mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)		737.000000 umhos/cm	Method: SM2510-B

Warning: 39 - Std. Dev. is greater than 2, verify value.

Comment: value verified

68-Total Dissolved Solids @ 180 C		477.000000 mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3		250.000000 mg/l	Method: SM2320-B
72-Carbonate as CaCO3	<	5.000000 mg/l	Method: SM2320-B
99-Settleable Solids		1.500000 ml/l	Method: EPA 160.
133-Total Cations		8.400000 meq/l	Method: SM1030
134-Total Anions		8.300000 meq/l	Method: SM1030
135-Cation/Anion Balance		.900000 PC DIFF	Method: SM1030
145-Total Iron		9.260000 mg/l	Method: EPA 200.
149-Total Manganese		.203000 mg/l	Method: EPA 200.

SITE: FC-1

Laboratory: FLD 20080520-1 Period:OPER

Sample Date: 05/20/2008 Time: 16:00 Reported: Received:

1-Field Water Temperature		16.500000 Deg. C	Method:

2-pH (fld) 8.500000 pH units Method:
3-Dissolved Oxygen (field) 6.800000 mg/l Method: NONE
4-Sp. Conductivity (fld) 910.000000 umhos/cm Method:
11-Flow 40.000000 GPM Method:

SITE: FC-2

Laboratory: SGS 5980027901 Period:OPER
Sample Date: 05/20/2008 Time: 16:50 Reported: 06/03/2008 Received: 05/21/2008
1-Field Water Temperature 16.100000 Deg. C Method: NONE
2-pH (fld) 8.600000 pH units Method:
3-Dissolved Oxygen (field) 6.800000 mg/l Method:
4-Sp. Conductivity (fld) 760.000000 umhos/cm Method:
11-Flow 40.000000 GPM Method:
16-Total Suspended Solids 60.000000 mg/l Method: SM2540-D
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 65.080000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 57.300000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 1.600000 mg/l Method: EPA 200.
48-Dissolved Sodium 12.450000 mg/l Method: EPA 200.
53-Chloride 7.000000 mg/l Method: EPA 300.
60-Sulfate 130.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 237.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 398.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 675.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 425.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 226.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 11.000000 mg/l Method: SM2320-B
99-Settleable Solids .200000 ml/l Method: EPA 160.
133-Total Cations 8.500000 meq/l Method: SM1030
134-Total Anions 7.700000 meq/l Method: SM1030
135-Cation/Anion Balance 5.500000 PC DIFF Method: PC. DIFF
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
145-Total Iron .930000 mg/l Method: EPA 200.
149-Total Manganese .015000 mg/l Method: EPA 200.

SITE: FC-3

Laboratory: SGS 5980034204 Period:OPER
Sample Date: 06/11/2008 Time: 13:38 Reported: 06/26/2008 Received: 06/12/2008
1-Field Water Temperature 8.900000 Deg. C Method:
2-pH (fld) 8.200000 pH units Method:
3-Dissolved Oxygen (field) 6.800000 mg/l Method:
4-Sp. Conductivity (fld) 490.000000 umhos/cm Method:
11-Flow 60.000000 GPM Method:
16-Total Suspended Solids < 5.000000 mg/l Method: SM2540-D
19-Oil/Grease < 5.000000 mg/l Method: EPA 1664
31-Ammonia as N < .100000 mg/l Method: EPA 350.
32-Dissolved Arsenic < .010000 mg/l Method: EPA 200.
34-Dissolved Boron < .010000 mg/l Method: EPA 200.
35-Dissolved Cadmium < .001000 mg/l Method: EPA 200.
36-Dissolved Calcium 66.480000 mg/l Method: EPA 200.
39-Dissolved Copper < .010000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
41-Dissolved Lead < .010000 mg/l Method: EPA 200.
42-Dissolved Magnesium 20.830000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .400000 mg/l Method: EPA 200.
46-Dissolved Selenium < .020000 mg/l Method: EPA 200.
48-Dissolved Sodium 2.490000 mg/l Method: EPA 200.
49-Dissolved Zinc < .004000 mg/l Method: EPA 200.
53-Chloride 3.000000 mg/l Method: EPA 300.
56-Nitrate as N .190000 mg/l Method: EPA 300.
57-Nitrite as N < .050000 mg/l Method: EPA 300.
58-Ortho. Phosphate < .050000 mg/l Method: EPA 300.

60-Sulfate	12.000000	mg/l	Method: EPA 300.
61-Total Phosphorus	< .050000	mg/l	Method: SM4500
62-Total Alkalinity as CaCO3	228.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3	252.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)	465.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C	259.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3	221.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	7.000000	mg/l	Method: SM2320-B
99-Settleable Solids	< .100000	ml/l	Method: EPA 160.
113-Dissolved Aluminum	< .030000	mg/l	Method: EPA 200.
129-Dissolved Molybdenum	< .005000	mg/l	Method: EPA 200.
133-Total Cations	5.100000	meq/l	Method: SM1030
134-Total Anions	4.900000	meq/l	Method: SM1030
135-Cation/Anion Balance	2.800000	PC DIFF	Method: SM1030
145-Total Iron	< .050000	mg/l	Method: EPA 200.
149-Total Manganese	< .002000	mg/l	Method: EPA 200.

SITE: FC-4

Laboratory: SGS 5980034206 Period:OPER
Sample Date: 06/11/2008 Time: 12:37 Reported: 06/26/2008 Received: 06/12/2008

1-Field Water Temperature	7.700000	Deg. C	Method:
2-pH (fld)	8.100000	pH units	Method:
3-Dissolved Oxygen (field)	6.800000	mg/l	Method:
4-Sp. Conductivity (fld)	520.000000	umhos/cm	Method:
11-Flow	60.000000	GPM	Method:
16-Total Suspended Solids	10.000000	mg/l	Method: SM2540-D
19-Oil/Grease	< 5.000000	mg/l	Method: EPA 1664
31-Ammonia as N	< .100000	mg/l	Method: EPA 350.
32-Dissolved Arsenic	< .010000	mg/l	Method: EPA 200.
34-Dissolved Boron	< .010000	mg/l	Method: EPA 200.
35-Dissolved Cadmium	< .001000	mg/l	Method: EPA 200.
36-Dissolved Calcium	70.570000	mg/l	Method: EPA 200.
39-Dissolved Copper	< .010000	mg/l	Method: EPA 200.
40-Dissolved Iron	< .030000	mg/l	Method: EPA 200.
41-Dissolved Lead	< .010000	mg/l	Method: EPA 200.
42-Dissolved Magnesium	21.960000	mg/l	Method: EPA 200.
43-Dissolved Manganese	< .002000	mg/l	Method: EPA 200.
45-Dissolved Potassium	.310000	mg/l	Method: EPA 200.
46-Dissolved Selenium	< .020000	mg/l	Method: EPA 200.
48-Dissolved Sodium	2.520000	mg/l	Method: EPA 200.
49-Dissolved Zinc	.007000	mg/l	Method: EPA 200.
53-Chloride	3.000000	mg/l	Method: EPA 300.
56-Nitrate as N	.290000	mg/l	Method: EPA 300.
57-Nitrite as N	< .050000	mg/l	Method: EPA 300.
58-Ortho. Phosphate	< .050000	mg/l	Method: EPA 300.
60-Sulfate	12.000000	mg/l	Method: EPA 300.
61-Total Phosphorus	< .050000	mg/l	Method: SM4500
62-Total Alkalinity as CaCO3	240.000000	mg/l	Method: SM2320-B
63-Total Hardness as CaCO3	267.000000	mg/l	Method: SM2340-B
67-Specific Conductivity (Lab)	478.000000	umhos/cm	Method: SM2510-B
68-Total Dissolved Solids @ 180 C	271.000000	mg/l	Method: SM2540-C
71-Bicarbonate as CaCO3	240.000000	mg/l	Method: SM2320-B
72-Carbonate as CaCO3	< 5.000000	mg/l	Method: SM2320-B
99-Settleable Solids	< .100000	ml/l	Method: EPA 160.
113-Dissolved Aluminum	< .030000	mg/l	Method: EPA 200.
129-Dissolved Molybdenum	< .005000	mg/l	Method: EPA 200.
133-Total Cations	5.400000	meq/l	Method: SM1030
134-Total Anions	5.100000	meq/l	Method: SM1030
135-Cation/Anion Balance	3.100000	PC DIFF	Method: SM1030
145-Total Iron	< .050000	mg/l	Method: EPA 200.
149-Total Manganese	< .002000	mg/l	Method: EPA 200.

SITE: FC-5

NO FLOW Date: 06/11/2008 Time: 14:13
Comments: No Flow

SITE: FC-6

NO FLOW Date: 06/03/2008 Time: 10:55
Comments: No flow

SITE: FC-7

NO FLOW Date: 06/03/2008 Time: 10:55
Comments: NO Flow

SITE: FC-8

NO FLOW Date: 06/03/2008 Time: 10:55

SITE: MH-1

Laboratory: FLD 20080626-1 Period:OPER
Sample Date: 06/26/2008 Time: 13:30 Reported: Received:
1-Field Water Temperature 21.100000 Deg. C Method: NONE
2-pH (fld) 8.300000 pH units Method: NONE
3-Dissolved Oxygen (field) .000000 mg/l Method: NONE
This Parameter is out by 2.42 Standard Deviations(STD). One STD is 2.96 with a mean of 7.16.
Comments: not required
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: not required
4-Sp. Conductivity (fld) 460.000000 umhos/cm Method: NONE
11-Flow .500000 GPM Method: ALL OTHE

SITE: MH-2

Laboratory: SGS 5980039301 Period:OPER
Sample Date: 06/25/2008 Time: 13:00 Reported: 07/15/2008 Received: 06/26/2008
1-Field Water Temperature 19.100000 Deg. C Method: NONE
2-pH (fld) 8.100000 pH units Method: NONE
3-Dissolved Oxygen (field) 7.000000 mg/l Method: NONE
4-Sp. Conductivity (fld) 450.000000 umhos/cm Method: NONE
11-Flow 15.000000 GPM Method: ALL OTHE
16-Total Suspended Solids < 5.000000 mg/l Method: SM2540-D
19-Oil/Grease 2.000000 mg/l Method: EPA 1664
Comments: Value Verified
36-Dissolved Calcium 72.350000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 14.210000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium .330000 mg/l Method: EPA 200.
48-Dissolved Sodium 2.590000 mg/l Method: EPA 200.
53-Chloride 2.000000 mg/l Method: EPA 300.
60-Sulfate 5.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 217.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 239.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 429.000000 umhos/cm Method: SM2510-B
68-Total Dissolved Solids @ 180 C 260.000000 mg/l Method: SM2540-C
71-Bicarbonate as CaCO3 217.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids < .100000 ml/l Method: EPA 160.
133-Total Cations 4.900000 meq/l Method: SM1030
134-Total Anions 4.500000 meq/l Method: SM1030
135-Cation/Anion Balance 4.100000 PC DIFF Method: PC. DIFF
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese .004000 mg/l Method: EPA 200.

SITE TYPE: UPDES Permit discharge point

SITE: UTG040006-002

NO FLOW Date: 01/15/2008 Time: 09:25

NO FLOW Date: 02/29/2008 Time: 16:03

NO FLOW Date: 03/31/2008 Time: 13:41

NO FLOW Date: 04/29/2008 Time: 14:03

NO FLOW Date: 05/22/2008 Time: 15:00

NO FLOW Date: 06/11/2008 Time: 16:26

SITE: UTG040006-003

NO FLOW Date: 01/15/2008 Time: 09:30

NO FLOW Date: 02/29/2008 Time: 16:20

NO FLOW Date: 03/31/2008 Time: 13:50

NO FLOW Date: 04/29/2008 Time: 14:03

NO FLOW Date: 05/22/2008 Time: 15:00

NO FLOW Date: 06/11/2008 Time: 16:33

SITE: UTG040006-004

NO FLOW Date: 01/15/2008 Time: 09:06

NO FLOW Date: 01/26/2008 Time: 09:06

NO FLOW Date: 02/22/2008 Time: 15:00

Laboratory: CTE 59-30907 Period:UPDS
Sample Date: 02/22/2008 Time: 15:52 Reported: 03/07/2008 Received: 02/25/2008
1-Field Water Temperature 8.700000 Deg. C Method:
2-pH (fld) 8.000000 pH units Method:
4-Sp. Conductivity (fld) 1300.000000 umhos/cm Method: NONE
This Parameter is out by 2.95 Standard Deviations(STD). One STD is
203.97 with a mean of 697.44.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
11-Flow 80.000000 GPM Method:
36-Dissolved Calcium 128.470000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 95.730000 mg/l Method: EPA 200.
43-Dissolved Manganese .028000 mg/l Method: EPA 200.
45-Dissolved Potassium 17.490000 mg/l Method: EPA 200.
48-Dissolved Sodium 69.740000 mg/l Method: EPA 200.
53-Chloride 58.000000 mg/l Method: EPA 300.
This Parameter is out by 2.11 Standard Deviations(STD). One STD is
20.41 with a mean of 14.96.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
60-Sulfate 538.000000 mg/l Method: EPA 300.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
62-Total Alkalinity as CaCO3 225.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 715.000000 mg/l Method: SM2340-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
67-Specific Conductivity (Lab) 1688.000000 umhos/cm Method: SM2510-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
68-Total Dissolved Solids @ 180 C 1131.000000 mg/l Method: EPA 160.
This Parameter is out by 3.98 Standard Deviations(STD). One STD is
177.81 with a mean of 422.75.

Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
71-Bicarbonate as CaCO3 225.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
133-Total Cations 17.800000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
134-Total Anions 17.300000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
135-Cation/Anion Balance 1.200000 PC DIFF Method:
145-Total Iron .460000 mg/l Method: EPA 200.
149-Total Manganese .036000 mg/l Method: EPA 200.

NO FLOW Date: 03/17/2008 Time: 15:47

Laboratory: CTE 59-31029 Period:UPDS
Sample Date: 03/31/2008 Time: 13:36 Reported: 04/09/2008 Received: 04/01/2008
1-Field Water Temperature 9.900000 Deg. C Method:
2-pH (fld) 8.700000 pH units Method: NONE
This Parameter is out by 2.47 Standard Deviations(STD). One STD is 0.42 with a mean of 7.67.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
4-Sp. Conductivity (fld) 60.000000 umhos/cm Method: NONE
This Parameter is out by 3.13 Standard Deviations(STD). One STD is 203.97 with a mean of 697.44.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
11-Flow 70.000000 GPM Method:
16-Total Suspended Solids < 5.000000 mg/l Method: EPA 160.
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 102.030000 mg/l Method: EPA 200.
40-Dissolved Iron < .030000 mg/l Method: EPA 200.
42-Dissolved Magnesium 38.980000 mg/l Method: EPA 200.
43-Dissolved Manganese < .002000 mg/l Method: EPA 200.
45-Dissolved Potassium 2.600000 mg/l Method: EPA 200.
48-Dissolved Sodium 6.150000 mg/l Method: EPA 200.
53-Chloride 4.000000 mg/l Method: EPA 300.
60-Sulfate 63.000000 mg/l Method: EPA 300.
62-Total Alkalinity as CaCO3 334.000000 mg/l Method: SM2320-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
63-Total Hardness as CaCO3 415.000000 mg/l Method: SM2340-B
67-Specific Conductivity (Lab) 813.000000 umhos/cm Method: SM2510-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verifed
68-Total Dissolved Solids @ 180 C 420.000000 mg/l Method: EPA 160.
71-Bicarbonate as CaCO3 334.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids < .100000 ml/l Method: EPA 160.
133-Total Cations 8.600000 meq/l Method:
134-Total Anions 8.100000 meq/l Method:
135-Cation/Anion Balance 3.200000 PC DIFF Method:
145-Total Iron < .050000 mg/l Method: EPA 200.
149-Total Manganese < .002000 mg/l Method: EPA 200.

NO FLOW Date: 04/17/2008 Time: 09:06

Laboratory: SGS 5980019001 Period:UPDS
Sample Date: 04/29/2008 Time: 13:15 Reported: 05/09/2008 Received: 04/29/2008
1-Field Water Temperature 10.600000 Deg. C Method:
2-pH (fld) 8.100000 pH units Method:
4-Sp. Conductivity (fld) 1826.000000 umhos/cm Method: NONE
This Parameter is out by 5.53 Standard Deviations(STD). One STD is 203.97 with a mean of 697.44.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
11-Flow 50.000000 GPM Method:
16-Total Suspended Solids 12.000000 mg/l Method: SM2540-D
36-Dissolved Calcium 132.160000 mg/l Method: EPA 200.

40-Dissolved Iron .670000 mg/l Method: EPA 200.
42-Dissolved Magnesium 94.400000 mg/l Method: EPA 200.
43-Dissolved Manganese .083000 mg/l Method: EPA 200.
45-Dissolved Potassium 17.990000 mg/l Method: EPA 200.
48-Dissolved Sodium 99.900000 mg/l Method: EPA 200.
53-Chloride 44.000000 mg/l Method: EPA 300.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
60-Sulfate 629.000000 mg/l Method: EPA 300.
This Parameter is out by 2.16 Standard Deviations(STD). One STD is
207.40 with a mean of 180.91.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
62-Total Alkalinity as CaCO3 244.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 719.000000 mg/l Method: SM2340-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
67-Specific Conductivity (Lab) 1687.000000 umhos/cm Method: SM2510-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
68-Total Dissolved Solids @ 180 C 1257.000000 mg/l Method: SM2540-C
This Parameter is out by 4.69 Standard Deviations(STD). One STD is
177.81 with a mean of 422.75.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
71-Bicarbonate as CaCO3 244.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids < .100000 ml/l Method: EPA 160.
133-Total Cations 19.200000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
134-Total Anions 19.200000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: Value Verified
135-Cation/Anion Balance < .010000 PC DIFF Method: SM1030
145-Total Iron .910000 mg/l Method: EPA 200.
149-Total Manganese .083000 mg/l Method: EPA 200.

Laboratory: SGS 5980028801 Period:UPDS
Sample Date: 05/22/2008 Time: 14:30 Reported: 06/11/2008 Received: 05/22/2008
1-Field Water Temperature 10.700000 Deg. C Method:
2-pH (fld) 8.100000 pH units Method:
4-Sp. Conductivity (fld) 1780.000000 umhos/cm Method: NONE
This Parameter is out by 5.31 Standard Deviations(STD). One STD is
203.97 with a mean of 697.44.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
11-Flow 50.000000 GPM Method:
16-Total Suspended Solids 42.000000 mg/l Method: SM2540-D
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
19-Oil/Grease < 2.000000 mg/l Method: EPA 413.
36-Dissolved Calcium 132.870000 mg/l Method: EPA 200.
40-Dissolved Iron .860000 mg/l Method: EPA 200.
42-Dissolved Magnesium 104.050000 mg/l Method: EPA 200.
43-Dissolved Manganese .106000 mg/l Method: EPA 200.
45-Dissolved Potassium 17.420000 mg/l Method: EPA 200.
48-Dissolved Sodium 110.800000 mg/l Method: EPA 200.
53-Chloride 63.000000 mg/l Method: EPA 300.
This Parameter is out by 2.35 Standard Deviations(STD). One STD is
20.41 with a mean of 14.96.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
60-Sulfate 576.000000 mg/l Method: EPA 300.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
62-Total Alkalinity as CaCO3 273.000000 mg/l Method: SM2320-B
63-Total Hardness as CaCO3 760.000000 mg/l Method: SM2340-B
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
67-Specific Conductivity (Lab) 1706.000000 umhos/cm Method: SM2510-B

Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
68-Total Dissolved Solids @ 180 C 1288.000000 mg/l Method: SM2540-C
This Parameter is out by 4.87 Standard Deviations(STD). One STD is
177.81 with a mean of 422.75.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
71-Bicarbonate as CaCO3 273.000000 mg/l Method: SM2320-B
72-Carbonate as CaCO3 < 5.000000 mg/l Method: SM2320-B
99-Settleable Solids < .100000 ml/l Method: EPA 160.
133-Total Cations 20.500000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
134-Total Anions 19.200000 meq/l Method: SM1030
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
135-Cation/Anion Balance 3.100000 PC DIFF Method: SM1030
145-Total Iron 1.340000 mg/l Method: EPA 200.
149-Total Manganese .107000 mg/l Method: EPA 200.

Laboratory: FLD 20080531-1 Period:UPDS
Sample Date: 05/31/2008 Time: 13:30 Reported: Received:
1-Field Water Temperature 10.700000 Deg. C Method:
2-pH (fld) 8.100000 pH units Method:
4-Sp. Conductivity (fld) 1720.000000 umhos/cm Method: NONE
This Parameter is out by 5.01 Standard Deviations(STD). One STD is
203.97 with a mean of 697.44.
Warning: 39 - Std. Dev. is greater than 2, verify value.
Comment: value verified
11-Flow 50.000000 GPM Method:

NO FLOW Date: 06/11/2008 Time: 16:15

NO FLOW Date: 06/28/2008 Time: 09:00

SITE: UTG040006-006

NO FLOW Date: 01/15/2008 Time: 09:36

NO FLOW Date: 02/29/2008 Time: 16:26

NO FLOW Date: 03/31/2008 Time: 13:53

NO FLOW Date: 04/29/2008 Time: 14:30

NO FLOW Date: 05/22/2008 Time: 15:16

NO FLOW Date: 06/11/2008 Time: 16:41

SITE: UTG040006-007

NO FLOW Date: 01/15/2008 Time: 09:39

NO FLOW Date: 02/29/2008 Time: 16:31

NO FLOW Date: 03/31/2008 Time: 13:58

NO FLOW Date: 04/29/2008 Time: 14:48

NO FLOW Date: 05/22/2008 Time: 15:23

NO FLOW Date: 06/11/2008 Time: 16:52

SITE TYPE: Well

SITE: MW-114

Laboratory: FLD 20080603-1 Period:OPER
Sample Date: 06/03/2008 Time: 11:00 Reported: Received:
1-Field Water Temperature 9.000000 Deg. C Method:
8-Depth 1677.690000 feet Method:
11-Flow 167.300000 GPM Method:

SITE: MW-117

Laboratory: FLD 20080603-2 Period:OPER
Sample Date: 06/03/2008 Time: 13:02 Reported: Received:
8-Depth 1781.100000 feet Method:
11-Flow 1781.100000 GPM Method:

SITE: SBC-2

Laboratory: SGS 5980035401 Period:OPER
Sample Date: 06/16/2008 Time: 15:05 Reported: 06/26/2008 Received: 06/16/2008
19-Oil/Grease < 5.000000 mg/l Method: EPA 1664

SITE: SDH-2

Laboratory: FLD 20080630-1 Period:OPER
Sample Date: 06/30/2008 Time: 11:02 Reported: Received:
8-Depth 1538.300000 feet Method:
11-Flow 70.000000 GPM Method:

SITE: SDH-3

Laboratory: FLD 20080630-2 Period:OPER
Sample Date: 06/30/2008 Time: 11:34 Reported: Received:
8-Depth 1504.680000 feet Method:
11-Flow 72.000000 GPM Method:

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