Keith Eagan

Sunnyside Cogeneration Associates

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RECEIVED
JUL 18 2011
DW
Utah Division of Water Quality

July 12, 2011

Keith Eagan
Division of Water Quality
195 North 1950 West
Salt Lake City, Utah 84116

RE: Sunnyside Cogeneration Associates
Semi-Annual Monitoring Reports
Ground Water Permit No. UGW070002

Dear Mr. Eagan:

Please find attached the sampling report for the January, February, March, April, May and June semi-annual monitoring period. The monitoring of Ground Water discharge Permit sampling locations was performed on June 7, 2011, in accordance with the Ground Water Quality Sampling Plan for Ground Water Discharge Permit Number UGW070002.

As a result of the June 7, 2011 testing, TDS concentrations were elevated in MW-1 and MW-7 and selenium concentrations were slightly elevated in MW-1 and MW-2.

On June 21, 2011, SCA re-sampled MW-1, MW-2 and MW-7, in accordance with permit condition II.F.1.a, to verify TDS and selenium concentrations. The selenium concentrations in MW-1 and MW-2 were still slightly elevated and the TDS concentrations in MW-1 and MW-7 were still elevated, but appear to be trending downward.

SCA believes that the elevated concentrations are attributed to naturally occurring background conditions and are not attributed to SCA's Ash Landfill. SCA addressed this issue in a report submitted to the UDWQ on January 25, 2005. The UDWQ concurred with the findings in the January report and agreed with SCA's future sampling approach.

DWQ-2011-008046
DW
Document Date 7/12/2011

If you have any questions regarding the sampling activities or this report, please contact Rusty Netz or myself at (435) 888-4476.

Thank You,

Richard Carter
Agent for
Sunnyside Cogeneration Associates

Enclosures:

Table 1:	Ground Water Analysis for the 1st half of 2011
Table 2:	MW-7 Analysis-1st half of 2011
Table 3:	MW-1, MW-2 and MW-7 Re-sampling Analysis
Attachment A:	Analytical Reports

Cc: Steve Gross
William Rossiter
Maggie Estrada
Paul Shepard
Rusty Netz
Plant File

TABLE 1

TABLE 1

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
First half 2011
Sampling Date: June 6, 2011

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.0036	0.0767	0.0031	0.012	0.007	0.0063	0.008	0.0624
Permit Protection Levels	N.A.	N.A.	N.A.	0.0125	0.50	0.0039	0.325	0.0088	0.0125	0.025	1.25
Whitmore Springs	14	8.44	2220	0.0011	0.039	ND	ND	ND	0.0098	ND	ND
Freshwater Reservoir	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Coal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Ash Disposal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Well MW-1	13.1	7.28	8130	0.0045	0.016	ND	ND	ND	0.0608	ND	ND
Well MW-2	12.5	7.4	2010	0.0007	0.022	ND	ND	ND	0.0187	ND	ND
Well MW-3	10.9	7.38	1917	0.0014	0.031	ND	ND	ND	0.0109	ND	ND
Well MW-4	15.8	7.2	2160	ND	0.031	ND	ND	0.0009	0.0027	ND	ND

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	1677	8.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	3018	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Whitmore Springs	1880	8.4	155	426	266	5.6	150	60	920	512	4	375
Freshwater Reservoir	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Coal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Ash Disposal Runoff Basin	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
Well MW-1	8590	7.3	337	372	1390	6.6	553	410	4900	454	ND	333
Well MW-2	1530	7.4	114	580	231	5.2	130	54	640	707	ND	519
Well MW-3	1450	7.4	130	549	215	5.4	128	62	590	670	ND	490
Well MW-4	1700	7.4	129	429	278	7	115	76	760	523	ND	381

A "<" sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this limit. were not quantifiable. These results should be considered non-detect.
NW= No water present in basin.
NA= Non-Applicable
BA=BI-Annually
NS=No Sample Taken
ND-Non Detect

TABLE 2

TABLE 2

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
MW-7
First half of 2011
Sampling Date: June 7, 2011

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.006	0.19	0.003	0.018	0.01	0.0167	0.0011	0.037
Permit Protection Levels	N.A.	N.A.	N.A.	0.025	1.00	0.0025	0.65	0.0075	0.025	0.05	2.5
MW-7	11.9	7.16	7427	0.0038	0.015	ND	ND	ND	0.0128	ND	ND

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	4289.8	7.979	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	5363	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MW-7	6660	7.4	165	617	ND	8.1	185	290	3850	752	ND	554

A "<" sign indicates the value reported was the practical quantitation limit for this sample using the method described. Concentrations of analyte, if present, below this limit. were not quantifiable. These results should be considered non-detect.
NW= No water present in basin.
NA= Non-Applicable
BA=BI-Annually
ND=NoN-Detect

TABLE 3

TABLE 3

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
Re-Sampling event
First half of 2011
Re Sampling Date: June 21, 2011

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.0036	0.0767	0.0031	0.012	0.007	0.0063	0.008	0.0624
Permit Protection Levels	N.A.	N.A.	N.A.	0.0125	0.50	0.0039	0.325	0.0088	0.0125	0.025	1.25
MW-1	12.5	7.27	8130	**	**	**	**	**	0.0529	**	**
MW-2	11.9	7.36	2020	**	**	**	**	**	0.0174	**	**

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	1677	8.25	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	3018	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MW-1	8280	**	**	**	**	**	**	**	**	**	**	**
MW-2	**	**	**	**	**	**	**	**	**	**	**	**

** Only sampled for parameters that were above the permit protection levels.

TABLE 3

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
Re-Sampling event MW-7
First half of 2011
Re Sampling Date: June 21, 2011

	Field Parameters			Metals(mg/l)							
Sample Location	Temp. (C)	pH (S.U.)	SC (umhos)	Arsenic	Barium	Cadmium	Copper	Lead	Selenium	Silver	Zinc
Permit Background Values	N.A.	N.A.	N.A.	0.006	0.19	0.003	0.018	0.01	0.0167	0.0011	0.037
Permit Protection Levels	N.A.	N.A.	N.A.	0.025	1.00	0.0025	0.65	0.0075	0.025	0.05	2.5
MW-7	10.7	7.29	7210	**	**	**	**	**	**	**	**

	Inorganics		Cations(mg/l)					Anions(mg/l)				
Sample Locations	TDS (mg/l)	pH (S.U.)	Calcium	Hardness CaCO3	Sodium	Potassium	Magnesium	Chloride	Sulfate	Bicarbonate HCO3	Carbonate CO3	Alkalinity Total
Permit Background Values	4289.8	7.979	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Permit Protection Levels	5363	6.5-8.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MW-7	6370	**	**	**	**	**	**	**	**	**	**	**

** Only sampled for parameters that were above the permit protection levels.

ATTACHMENT

A

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104228-06

Name: **Sunnyside Cogeneration**
Sample Site: WS
Comments:
Sample Matrix: Wastewater

Sample Date: 6/7/2011 12:45 PM
Receipt Date: 6/8/2011 10:00 AM
Sampler: Sunnyside Cogen

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	1000	1	mg/L	6/17/2011 13:40	DBH	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate (CaCO3)	512	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate (CaCO3)	4.0	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - CO2 (CaCO3)	375	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	426	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Chloride	60	1	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
pH	8.4	0.1	pH Units	6/8/2011 17:00	JSH	SM 4500 H-B	SPH
Sulfate	920	10	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1880	10	mg/L	6/9/2011 13:39	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0011	0.0005	mg/L	6/17/2011 16:01	PNM	EPA 200.8	
Barium, Total	0.039	0.005	mg/L	6/14/2011 16:39	MJB	EPA 200.7	
Calcium, Total	155	0.2	mg/L	6/14/2011 16:39	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	6/17/2011 16:01	PNM	EPA 200.8	
Copper, Total	ND	0.005	mg/L	6/14/2011 16:39	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	6/17/2011 16:01	PNM	EPA 200.8	
Magnesium, Total	150	0.2	mg/L	6/14/2011 16:39	MJB	EPA 200.7	
Potassium, Total	5.6	0.5	mg/L	6/14/2011 16:39	MJB	EPA 200.7	
Selenium, Total	0.0098	0.0005	mg/L	6/17/2011 16:01	PNM	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	6/17/2011 16:01	PNM	EPA 200.8	
Sodium, Total	266	0.5	mg/L	6/14/2011 16:39	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	6/14/2011 16:39	MJB	EPA 200.7	

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.
1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.
1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.
1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.
MCL = Maximum Contaminant Level as defined by USEPA

Flag Descriptions

SPH = Sample submitted past method specified holding time.

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LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104228-02

Name: **Sunnyside Cogeneration**
Sample Site: MW-1
Comments:
Sample Matrix: Wastewater

Sample Date: 6/7/2011 11:35 AM
Receipt Date: 6/8/2011 10:00 AM
Sampler: Sunnyside Cogen

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	3120	1	mg/L	6/17/2011 13:40	DBH	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate (CaCO3)	454	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - CO2 (CaCO3)	333	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	372	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Chloride	410	10	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
pH	7.3	0.1	pH Units	6/8/2011 17:00	JSH	SM 4500 H-B	SPH
Sulfate	4900	100	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	8590	10	mg/L	6/9/2011 13:31	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0045	0.0005	mg/L	6/17/2011 15:51	PNM	EPA 200.8	
Barium, Total	0.016	0.005	mg/L	6/14/2011 16:23	MJB	EPA 200.7	
Calcium, Total	337	0.2	mg/L	6/14/2011 16:23	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	6/17/2011 15:51	PNM	EPA 200.8	
Copper, Total	ND	0.005	mg/L	6/14/2011 16:23	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	6/17/2011 15:51	PNM	EPA 200.8	
Magnesium, Total	553	0.2	mg/L	6/14/2011 16:23	MJB	EPA 200.7	
Potassium, Total	6.6	0.5	mg/L	6/14/2011 16:23	MJB	EPA 200.7	
Selenium, Total	0.0608	0.0005	mg/L	6/17/2011 15:51	PNM	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	6/17/2011 15:51	PNM	EPA 200.8	
Sodium, Total	1390	0.5	mg/L	6/14/2011 16:23	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	6/14/2011 16:23	MJB	EPA 200.7	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104228-04

Name: **Sunnyside Cogeneration**
Sample Site: MW-2
Comments:
Sample Matrix: Wastewater

Sample Date: 6/7/2011 12:10 PM
Receipt Date: 6/8/2011 10:00 AM
Sampler: Sunnyside Cogen

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	820	1	mg/L	6/17/2011 13:40	DBH	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate (CaCO3)	707	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - CO2 (CaCO3)	519	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	580	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Chloride	54	1	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
pH	7.4	0.1	pH Units	6/8/2011 17:00	JSH	SM 4500 H-B	SPH
Sulfate	640	10	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1530	10	mg/L	6/9/2011 13:35	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0007	0.0005	mg/L	6/17/2011 15:58	PNM	EPA 200.8	
Barium, Total	0.022	0.005	mg/L	6/14/2011 16:35	MJB	EPA 200.7	
Calcium, Total	114	0.2	mg/L	6/14/2011 16:35	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	6/17/2011 15:58	PNM	EPA 200.8	
Copper, Total	ND	0.005	mg/L	6/14/2011 16:35	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	6/17/2011 15:58	PNM	EPA 200.8	
Magnesium, Total	130	0.2	mg/L	6/14/2011 16:35	MJB	EPA 200.7	
Potassium, Total	5.2	0.5	mg/L	6/14/2011 16:35	MJB	EPA 200.7	
Selenium, Total	0.0187	0.0005	mg/L	6/17/2011 15:58	PNM	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	6/17/2011 15:58	PNM	EPA 200.8	
Sodium, Total	231	0.5	mg/L	6/14/2011 16:35	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	6/14/2011 16:35	MJB	EPA 200.7	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104228-05

Name: **Sunnyside Cogeneration**
Sample Site: MW-3
Comments:
Sample Matrix: Wastewater

Sample Date: 6/7/2011 12:20 PM
Receipt Date: 6/8/2011 10:00 AM
Sampler: Sunnyside Cogen

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	852	1	mg/L	6/17/2011 13:40	DBH	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate (CaCO3)	670	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - CO2 (CaCO3)	490	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	549	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Chloride	62	1	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
pH	7.4	0.1	pH Units	6/8/2011 17:00	JSH	SM 4500 H-B	SPH
Sulfate	590	10	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1450	10	mg/L	6/9/2011 13:37	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0014	0.0005	mg/L	6/16/2011 23:50	PNM	EPA 200.8	
Barium, Total	0.031	0.005	mg/L	6/16/2011 10:47	MJB	EPA 200.7	
Calcium, Total	130	0.2	mg/L	6/16/2011 10:47	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	6/16/2011 23:50	PNM	EPA 200.8	
Copper, Total	ND	0.005	mg/L	6/16/2011 10:47	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	6/16/2011 23:50	PNM	EPA 200.8	
Magnesium, Total	128	0.2	mg/L	6/16/2011 10:47	MJB	EPA 200.7	
Potassium, Total	5.4	0.5	mg/L	6/16/2011 10:47	MJB	EPA 200.7	
Selenium, Total	0.0109	0.0005	mg/L	6/16/2011 23:50	PNM	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	6/16/2011 23:50	PNM	EPA 200.8	
Sodium, Total	215	0.5	mg/L	6/16/2011 10:47	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	6/16/2011 10:47	MJB	EPA 200.7	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104228-03

Name: **Sunnyside Cogeneration**
Sample Site: MW-4
Comments:
Sample Matrix: Wastewater

Sample Date: 6/7/2011 11:48 AM
Receipt Date: 6/8/2011 10:00 AM
Sampler: Sunnyside Cogen

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	796	1	mg/L	6/17/2011 13:40	DBH	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate (CaCO3)	523	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - CO2 (CaCO3)	381	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	429	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Chloride	76	1	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
pH	7.4	0.1	pH Units	6/8/2011 17:00	JSH	SM 4500 H-B	SPH
Sulfate	760	10	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	1700	10	mg/L	6/9/2011 13:33	JSH	SM 2540 C	
Metals							
Arsenic, Total	ND	0.0005	mg/L	6/17/2011 15:54	PNM	EPA 200.8	
Barium, Total	0.031	0.005	mg/L	6/14/2011 16:31	MJB	EPA 200.7	
Calcium, Total	129	0.2	mg/L	6/14/2011 16:31	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	6/17/2011 15:54	PNM	EPA 200.8	
Copper, Total	ND	0.005	mg/L	6/14/2011 16:31	MJB	EPA 200.7	
Lead, Total	0.0009	0.0005	mg/L	6/17/2011 15:54	PNM	EPA 200.8	
Magnesium, Total	115	0.2	mg/L	6/14/2011 16:31	MJB	EPA 200.7	
Potassium, Total	7.0	0.5	mg/L	6/14/2011 16:31	MJB	EPA 200.7	
Selenium, Total	0.0027	0.0005	mg/L	6/17/2011 15:54	PNM	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	6/17/2011 15:54	PNM	EPA 200.8	
Sodium, Total	278	0.5	mg/L	6/14/2011 16:31	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	6/14/2011 16:31	MJB	EPA 200.7	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104228-01

Name: **Sunnyside Cogeneration**
Sample Site: MW-7
Comments:
Sample Matrix: Wastewater

Sample Date: 6/7/2011 11:19 AM
Receipt Date: 6/8/2011 10:00 AM
Sampler: Sunnyside Cogen

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	Flag
Calculations							
Hardness, Total as CaCO3	1170	1	mg/L	6/17/2011 13:40	DBH	SM 2340 B	
Inorganic							
Alkalinity - Bicarbonate (CaCO3)	752	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Carbonate (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - CO2 (CaCO3)	554	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Hydroxide (CaCO3)	ND	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Alkalinity - Total (as CaCO3)	617	1.0	mg/L	6/11/2011 8:00	TSM	SM 2320 B	
Chloride	290	20	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
pH	7.4	0.1	pH Units	6/8/2011 17:00	JSH	SM 4500 H-B	SPH
Sulfate	3850	20	mg/L	6/8/2011 21:00	TSM	EPA 300.0	
Total Dissolved Solids (TDS)	6660	10	mg/L	6/9/2011 13:29	JSH	SM 2540 C	
Metals							
Arsenic, Total	0.0038	0.0005	mg/L	6/17/2011 15:48	PNM	EPA 200.8	
Barium, Total	0.015	0.005	mg/L	6/14/2011 16:19	MJB	EPA 200.7	
Calcium, Total	165	0.2	mg/L	6/14/2011 16:19	MJB	EPA 200.7	
Cadmium, Total	ND	0.0005	mg/L	6/17/2011 15:48	PNM	EPA 200.8	
Copper, Total	ND	0.005	mg/L	6/14/2011 16:19	MJB	EPA 200.7	
Lead, Total	ND	0.0005	mg/L	6/17/2011 15:48	PNM	EPA 200.8	
Magnesium, Total	185	0.2	mg/L	6/14/2011 16:19	MJB	EPA 200.7	
Potassium, Total	8.1	0.5	mg/L	6/14/2011 16:19	MJB	EPA 200.7	
Selenium, Total	0.0128	0.0005	mg/L	6/17/2011 15:48	PNM	EPA 200.8	
Silver, Total	ND	0.0005	mg/L	6/17/2011 15:48	PNM	EPA 200.8	
Sodium, Total	ND	0.5	mg/L	6/14/2011 16:19	MJB	EPA 200.7	
Zinc, Total	ND	0.01	mg/L	6/14/2011 16:19	MJB	EPA 200.7	

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: SCA

ADDRESS:

CITY/STATE/ZIP:

PHONE #: FAX:

CONTACT: Rusty Netz PROJECT: Ground wtr

EMAIL:

BILLING ADDRESS:

BILLING CITY/STATE/ZIP:

PURCHASE ORDER #:

TURNAROUND REQUIRED:* Before End of June

*Expedited turnaround subject to additional charge

CHEMTECH-FORD Laboratories

www.chemtechford.com

___ Mark 'X' here if you want a copy sent to DEQ Division of Drinking Water.

MATRIX
DW = Drinking Water
WW = Wastewater
W = Water
S = Soil
SO = Solid
SL = Sludge
O = Other

ANALYTICAL TESTS REQUESTED

Bacteriological
R = Routine
I = Investigative
TG = Trigger Source
CO = Confirmation

REPEAT
OR = Original Location
UP = Upstream
DN = Downstream

Lab ID #		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	Drinking Water FACILITY ID	FIELD: Residual Chlorine	Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (Plate Count)	E. coli only	WW: Total Coliform + Fecal Coliform	Repeat (Fail #)	SYSTEM #
4228													
-01	1.	MW-7	6/07/11	1119									
-02	2.	MW-1	6/7/11	1135									
-03	3.	MW-4	"	1148									
-04	4.	MW-2	"	1216									
-05	5.	MW-3	"	1220									
-06	6.	WS	"	1245									
	7.												
	8.												
	9.												
	10.												

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Special Instructions:

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
[signature]	6/7/11 1300	[signature]	6/8/11 10:00
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

CHEMTECH-FORD 6100 South Stratler Street (380 West) Murray, UT 84107 Phone: 801-262-7299 FAX: 801-262-7378 www.chemtechford.com

Payment Terms are net 30 days OAC. 1.5% interest charge per month (18% per annum). Client agress to pay collection costs and attorne

TRK# 0201 7948 3790 6440

ATTACHMENT

A

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104739-02

Name:	**Sunnyside Cogeneration**	***Sample Date:***	6/21/2011 9:00 AM
Sample Site:	MW-1	***Receipt Date:***	6/22/2011 10:20 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Inorganic								
Total Dissolved Solids (TDS)	8280	50	mg/L	6/27/2011 10:06	JSH	SM 2540 C	TDS_LAB	
Metals								
Selenium, Total	0.0529	0.0005	mg/L	6/28/2011 13:50	PNM	EPA 200.8	7782-49-2	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104739-03

Name:	**Sunnyside Cogeneration**	***Sample Date:***	6/21/2011 9:30 AM
Sample Site:	MW-2	***Receipt Date:***	6/22/2011 10:20 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Metals								
Selenium, Total	0.0174	0.0005	mg/L	6/28/2011 13:54	PNM	EPA 200.8	7782-49-2	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1104739-01

Name:	**Sunnyside Cogeneration**	***Sample Date:***	6/21/2011 8:30 AM
Sample Site:	MW-7	***Receipt Date:***	6/22/2011 10:20 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Inorganic								
Total Dissolved Solids (TDS)	6370	50	mg/L	6/27/2011 10:04	JSH	SM 2540 C	TDS_LAB	

CHEMTECH - FORD ANALYTICAL LABORATORY

RUSH

S-8194, ULINE, 800-295-5510

CHAIN OF CUSTODY

COMPANY: SCA
ADDRESS:
CITY/STATE/ZIP:
PHONE #: FAX:
CONTACT: Rusty Nett PROJECT: Ground WTR
EMAIL:

BILLING ADDRESS:
BILLING CITY/STATE/ZIP:
PURCHASE ORDER #:

TURNAROUND REQUIRED:* By 7/14/11
* Expedited turnaround subject to additional charge

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SO = Solid
SL = Sludge
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ANALYTICAL TESTS REQUESTED

Bacteriological
R = Routine
I = Investigative
TG = Trigger Source
CO = Confirmation

REPEAT
OR = Original Location
UP = Upstream
DN = Downstream

Lab ID #		SAMPLE LOCATION	SAMPLE DATE	SAMPLE TIME	Drinking Water Only: SAMPLE SOURCE CODE	Drinking Water Only: SAMPLE POINT CODE	FIELD: Residual Chlorine	Total Coliform + E. coli (Present/Absent)	Total Coliform + E. coli (Enumerated)	HPC (Plate Count)	E. coli only	WW: Total Coliform + Fecal Coliform	Repeat (Fall #)	SYSTEM #
4739	1.	MW-7	6/21/11	830										
-01	2.	MW-1	6/21/11	900										
-02	3.	MW-2	6/21/11	930										
-03	4.													
	5.													
	6.													
	7.													
	8.													
	9.													
	10.													

See Attachment

Sampled by: [print] | Sampled by: [signature] | ON ICE | NOT ON ICE (circled)

Special Instructions:

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
[signature]	6/21/11 1030	[signature]	6/22/11 10:20
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time

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