Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

July 12, 2013

RECEIVED
JUL 16 2013
Utah Division of Water Quality

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 May 29, 2013, in accordance with the Ground Water Quality Sampling Plan for Ground Water Discharge Permit Number UGW070002.

As a result of the May 29, 2013 testing, selenium concentrations were slightly elevated in MW-1, MW-2 and MW-3.

On June 27, 2013, SCA re-sampled MW-1, MW-2 and MW-3, in accordance with permit condition II.F.1.a, to verify selenium concentrations. The selenium concentrations in MW-1, MW-2 and MW-3 were below the permit protection limit.

SCA believes that the elevated concentrations were 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.

Document Date 7/16/2013
DWQ-2013-004855

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 2013
Table 2:	MW-7 Analysis-1st half of 2013
Table 3:	MW-1, MW-2 and MW-3 Re-sampling Analysis

Cc: Rusty Netz
Plant File

TABLE 1

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
First half 2013
Sampling Date: May 29, 2013

	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	9.9	8.63	1792	0.0012	0.027	ND	ND	ND	0.0031	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	12	7.67	2261	0.0039	0.013	ND	ND	ND	0.0144	ND	ND
Well MW-2	12.1	7.65	2453	0.0015	0.02	ND	ND	ND	0.014	ND	ND
Well MW-3	10.6	7.84	1749	0.0014	0.027	ND	ND	ND	0.0147	ND	ND
Well MW-4	15.2	7.58	2718	0.0025	0.04	ND	ND	0.0015	0.0074	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	1320	8.5	91.9	691	203	4.2	112	43	632	503	3	417
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	2200	7.5	124	1140	429	4.2	201	180	1090	565	ND	463
Well MW-2	1870	7.4	120	851	276	5.9	134	59	890	469	1	386
Well MW-3	1230	7.5	97.9	697	203	5.2	110	42	500	571	ND	468
Well MW-4	2180	7.3	166	1090	328	8.6	164	130	1140	486	ND	398

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

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
MW-7
First half of 2013
Sampling Date: May 29, 2013

	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	11.1	7.47	6462	0.0052	0.014	ND	ND	0.0005	0.0161	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	4870	7.5	125	942	1350	8.1	153	280	3260	716	ND	588

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

Sunnyside Cogeneration Associates Facility

Groundwater Permit # UGW070002 Compliance Sampling
Re-Sampling event
First half of 2013
Re Sampling Date: June 27, 2013

	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	12.1	7.64	2301						0.0069		
MW-2	12	7.61	2506						0.0088		
MW-3	10.4	7.81	1761						0.0111		

	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												
MW-2												
MW-3												

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

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LABORATORIES

Certificate of Analysis

Lab Sample No.: 1304424-06

Name:	**Sunnyside Cogeneration**	***Sample Date:***	5/29/2013 11:30 AM
Sample Site:	WS	***Receipt Date:***	5/30/2013 10:00 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Calculations								
Hardness, Total as CaCO3	691	1	mg/L	6/10/2013 7:55	PNM	SM 2340 B	471-34-1	
Inorganic								
Alkalinity - Bicarbonate (HCO3)	503	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	71-52-3	
Alkalinity - Carbonate (CO3)	3.0	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	3812-32-6	
Alkalinity - CO2	365	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	124-38-9	
Alkalinity - Hydroxide (OH)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	14280-30-9	
Alkalinity - Total (as CaCO3)	417	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	CTF10279	
Chloride	43	5	mg/L	5/30/2013 22:00	TSM	EPA 300.0	16887-00-6	
pH	8.5	0.1	pH Units	5/30/2013 15:30	RMC	SM 4500 H-B	CTF10187	SPH
Sulfate	632	5	mg/L	5/30/2013 22:00	TSM	EPA 300.0	14808-79-8	
Total Dissolved Solids (TDS)	1320	20	mg/L	6/5/2013 16:46	QJP	SM 2540 C	CTF10226	
Metals								
Arsenic, Total	0.0012	0.0005	mg/L	6/3/2013 20:02	KSL	EPA 200.8	7440-38-2	
Barium, Total	0.027	0.005	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7440-39-3	
Calcium, Total	91.9	0.2	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.0002	mg/L	6/3/2013 20:02	KSL	EPA 200.8	7440-43-9	
Copper, Total	ND	0.005	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7440-50-8	
Lead, Total	ND	0.0005	mg/L	6/3/2013 20:02	KSL	EPA 200.8	7439-92-1	
Magnesium, Total	112	0.2	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7439-95-4	
Potassium, Total	4.2	0.5	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7440-09-7	
Selenium, Total	0.0031	0.0005	mg/L	6/3/2013 20:02	KSL	EPA 200.8	7782-49-2	
Silver, Total	ND	0.0005	mg/L	6/3/2013 20:02	KSL	EPA 200.8	7440-22-4	
Sodium, Total	203	0.5	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7440-23-5	
Zinc, Total	ND	0.01	mg/L	6/6/2013 21:38	PNM	EPA 200.7	7440-66-6	

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Certificate of Analysis

Lab Sample No.: 1304424-05

Name:	**Sunnyside Cogeneration**	***Sample Date:***	5/29/2013 9:30 AM
Sample Site:	MW-1	***Receipt Date:***	5/30/2013 10:00 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Calculations								
Hardness, Total as CaCO3	1140	1	mg/L	6/10/2013 7:55	PNM	SM 2340 B	471-34-1	
Inorganic								
Alkalinity - Bicarbonate (HCO3)	565	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	71-52-3	
Alkalinity - Carbonate (CO3)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	3812-32-6	
Alkalinity - CO2	409	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	124-38-9	
Alkalinity - Hydroxide (OH)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	14280-30-9	
Alkalinity - Total (as CaCO3)	463	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	CTF10279	
Chloride	180	10	mg/L	5/30/2013 22:00	TSM	EPA 300.0	16887-00-6	
pH	7.5	0.1	pH Units	5/30/2013 15:30	RMC	SM 4500 H-B	CTF10187	SPH
Sulfate	1090	10	mg/L	5/30/2013 22:00	TSM	EPA 300.0	14808-79-8	
Total Dissolved Solids (TDS)	2200	20	mg/L	6/5/2013 16:46	QJP	SM 2540 C	CTF10226	
Metals								
Arsenic, Total	0.0039	0.0005	mg/L	6/11/2013 15:39	KSL	EPA 200.8	7440-38-2	
Barium, Total	0.013	0.005	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7440-39-3	
Calcium, Total	124	0.2	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.0002	mg/L	6/11/2013 15:39	KSL	EPA 200.8	7440-43-9	
Copper, Total	ND	0.005	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7440-50-8	
Lead, Total	ND	0.0005	mg/L	6/11/2013 15:39	KSL	EPA 200.8	7439-92-1	
Magnesium, Total	201	0.2	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7439-95-4	
Potassium, Total	4.2	0.5	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7440-09-7	
Selenium, Total	0.0144	0.0005	mg/L	6/11/2013 15:39	KSL	EPA 200.8	7782-49-2	
Silver, Total	ND	0.0005	mg/L	6/11/2013 15:39	KSL	EPA 200.8	7440-22-4	
Sodium, Total	429	0.5	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7440-23-5	
Zinc, Total	ND	0.01	mg/L	6/7/2013 2:48	PNM	EPA 200.7	7440-66-6	

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Certificate of Analysis

Lab Sample No.: 1304424-04

Name:	**Sunnyside Cogeneration**	***Sample Date:***	5/29/2013 10:30 AM
Sample Site:	MW-2	***Receipt Date:***	5/30/2013 10:00 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Calculations								
Hardness, Total as CaCO3	851	1	mg/L	6/10/2013 7:55	PNM	SM 2340 B	471-34-1	
Inorganic								
Alkalinity - Bicarbonate (HCO3)	469	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	71-52-3	
Alkalinity - Carbonate (CO3)	1.0	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	3812-32-6	
Alkalinity - CO2	339	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	124-38-9	
Alkalinity - Hydroxide (OH)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	14280-30-9	
Alkalinity - Total (as CaCO3)	386	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	CTF10279	
Chloride	59	1	mg/L	5/30/2013 22:00	TSM	EPA 300.0	16887-00-6	
pH	7.4	0.1	pH Units	5/30/2013 15:30	RMC	SM 4500 H-B	CTF10187	SPH
Sulfate	890	10	mg/L	5/30/2013 22:00	TSM	EPA 300.0	14808-79-8	QM-4X
Total Dissolved Solids (TDS)	1870	20	mg/L	6/5/2013 16:46	QJP	SM 2540 C	CTF10226	
Metals								
Arsenic, Total	0.0015	0.0005	mg/L	6/11/2013 15:36	KSL	EPA 200.8	7440-38-2	
Barium, Total	0.020	0.005	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7440-39-3	
Calcium, Total	120	0.2	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.0002	mg/L	6/11/2013 15:36	KSL	EPA 200.8	7440-43-9	
Copper, Total	ND	0.005	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7440-50-8	
Lead, Total	ND	0.0005	mg/L	6/11/2013 15:36	KSL	EPA 200.8	7439-92-1	
Magnesium, Total	134	0.2	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7439-95-4	
Potassium, Total	5.9	0.5	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7440-09-7	
Selenium, Total	0.0140	0.0005	mg/L	6/11/2013 15:36	KSL	EPA 200.8	7782-49-2	
Silver, Total	ND	0.0005	mg/L	6/11/2013 15:36	KSL	EPA 200.8	7440-22-4	
Sodium, Total	276	0.5	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7440-23-5	
Zinc, Total	ND	0.01	mg/L	6/7/2013 2:44	PNM	EPA 200.7	7440-66-6	

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Certificate of Analysis

Lab Sample No.: 1304424-03

Name:	**Sunnyside Cogeneration**	***Sample Date:***	5/29/2013 11:00 AM
Sample Site:	MW-3	***Receipt Date:***	5/30/2013 10:00 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Water	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Calculations								
Hardness, Total as CaCO3	697	1	mg/L	6/10/2013 7:55	PNM	SM 2340 B	471-34-1	
Inorganic								
Alkalinity - Bicarbonate (HCO3)	571	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	71-52-3	
Alkalinity - Carbonate (CO3)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	3812-32-6	
Alkalinity - CO2	414	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	124-38-9	
Alkalinity - Hydroxide (OH)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	14280-30-9	
Alkalinity - Total (as CaCO3)	468	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	CTF10279	
Chloride	42	1	mg/L	5/30/2013 22:00	TSM	EPA 300.0	16887-00-6	
pH	7.5	0.1	pH Units	5/30/2013 15:30	RMC	SM 4500 H-B	CTF10187	SPH
Sulfate	500	5	mg/L	5/30/2013 22:00	TSM	EPA 300.0	14808-79-8	
Total Dissolved Solids (TDS)	1230	20	mg/L	6/5/2013 16:46	QJP	SM 2540 C	CTF10226	
Metals								
Arsenic, Total	0.0014	0.0005	mg/L	6/11/2013 15:32	KSL	EPA 200.8	7440-38-2	
Barium, Total	0.027	0.005	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7440-39-3	
Calcium, Total	97.9	0.2	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.0002	mg/L	6/11/2013 15:32	KSL	EPA 200.8	7440-43-9	
Copper, Total	ND	0.005	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7440-50-8	
Lead, Total	ND	0.0005	mg/L	6/11/2013 15:32	KSL	EPA 200.8	7439-92-1	
Magnesium, Total	110	0.2	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7439-95-4	
Potassium, Total	5.2	0.5	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7440-09-7	
Selenium, Total	0.0147	0.0005	mg/L	6/11/2013 15:32	KSL	EPA 200.8	7782-49-2	
Silver, Total	ND	0.0005	mg/L	6/11/2013 15:32	KSL	EPA 200.8	7440-22-4	
Sodium, Total	203	0.5	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7440-23-5	
Zinc, Total	ND	0.01	mg/L	6/7/2013 2:39	PNM	EPA 200.7	7440-66-6	

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Certificate of Analysis

Lab Sample No.: 1304424-02

Name:	**Sunnyside Cogeneration**	***Sample Date:***	5/29/2013 10:00 AM
Sample Site:	MW-4	***Receipt Date:***	5/30/2013 10:00 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Water	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Calculations								
Hardness, Total as CaCO3	1090	1	mg/L	6/10/2013 7:55	PNM	SM 2340 B	471-34-1	
Inorganic								
Alkalinity - Bicarbonate (HCO3)	486	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	71-52-3	
Alkalinity - Carbonate (CO3)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	3812-32-6	
Alkalinity - CO2	354	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	124-38-9	
Alkalinity - Hydroxide (OH)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	14280-30-9	
Alkalinity - Total (as CaCO3)	398	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	CTF10279	
Chloride	130	10	mg/L	5/30/2013 22:00	TSM	EPA 300.0	16887-00-6	
pH	7.3	0.1	pH Units	5/30/2013 15:30	RMC	SM 4500 H-B	CTF10187	SPH
Sulfate	1140	10	mg/L	5/30/2013 22:00	TSM	EPA 300.0	14808-79-8	
Total Dissolved Solids (TDS)	2180	20	mg/L	6/5/2013 16:46	QJP	SM 2540 C	CTF10226	
Metals								
Arsenic, Total	0.0025	0.0005	mg/L	6/11/2013 15:29	KSL	EPA 200.8	7440-38-2	
Barium, Total	0.040	0.005	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7440-39-3	
Calcium, Total	166	0.2	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.0002	mg/L	6/11/2013 15:29	KSL	EPA 200.8	7440-43-9	
Copper, Total	ND	0.005	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7440-50-8	
Lead, Total	0.0015	0.0005	mg/L	6/11/2013 15:29	KSL	EPA 200.8	7439-92-1	
Magnesium, Total	164	0.2	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7439-95-4	
Potassium, Total	8.6	0.5	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7440-09-7	
Selenium, Total	0.0074	0.0005	mg/L	6/11/2013 15:29	KSL	EPA 200.8	7782-49-2	
Silver, Total	ND	0.0005	mg/L	6/11/2013 15:29	KSL	EPA 200.8	7440-22-4	
Sodium, Total	328	0.5	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7440-23-5	
Zinc, Total	ND	0.01	mg/L	6/7/2013 2:35	PNM	EPA 200.7	7440-66-6	

9632 South 500 West
Sandy, UT 84070
801-262-7299 Office

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1304424-01

Name:	**Sunnyside Cogeneration**	***Sample Date:***	5/29/2013 9:00 AM
Sample Site:	MW-7	***Receipt Date:***	5/30/2013 10:00 AM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Water	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Calculations								
Hardness, Total as CaCO3	942	1	mg/L	6/10/2013 7:55	PNM	SM 2340 B	471-34-1	
Inorganic								
Alkalinity - Bicarbonate (HCO3)	716	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	71-52-3	
Alkalinity - Carbonate (CO3)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	3812-32-6	
Alkalinity - CO2	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	124-38-9	
Alkalinity - Hydroxide (OH)	ND	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	14280-30-9	
Alkalinity - Total (as CaCO3)	588	1.0	mg/L	6/10/2013 13:30	RMC	SM 2320 B	CTF10279	
Chloride	280	20	mg/L	5/30/2013 22:00	TSM	EPA 300.0	16887-00-6	
pH	7.5	0.1	pH Units	5/30/2013 15:30	RMC	SM 4500 H-B	CTF10187	SPH
Sulfate	3260	20	mg/L	5/30/2013 22:00	TSM	EPA 300.0	14808-79-8	
Total Dissolved Solids (TDS)	4870	20	mg/L	6/5/2013 16:46	QJP	SM 2540 C	CTF10226	
Metals								
Arsenic, Total	0.0052	0.0025	mg/L	6/6/2013 18:05	KSL	EPA 200.8	7440-38-2	
Barium, Total	0.014	0.005	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7440-39-3	
Calcium, Total	125	0.2	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.0010	mg/L	6/6/2013 18:05	KSL	EPA 200.8	7440-43-9	
Copper, Total	ND	0.005	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7440-50-8	
Lead, Total	ND	0.0025	mg/L	6/6/2013 18:05	KSL	EPA 200.8	7439-92-1	
Magnesium, Total	153	0.2	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7439-95-4	
Potassium, Total	8.1	0.5	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7440-09-7	
Selenium, Total	0.0161	0.0025	mg/L	6/6/2013 18:05	KSL	EPA 200.8	7782-49-2	
Silver, Total	ND	0.002	mg/L	6/6/2013 18:05	KSL	EPA 200.8	7440-22-4	
Sodium, Total	1350	0.5	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7440-23-5	
Zinc, Total	ND	0.01	mg/L	6/6/2013 21:33	PNM	EPA 200.7	7440-66-6	

9632 South 500 West
Sandy, UT 84070
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CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY: SCA
ADDRESS:
CITY/STATE/ZIP:
PHONE #: FAX:
CONTACT: Rusty Metz PROJECT: Groundwater
EMAIL:

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

TURNAROUND REQUIRED:*
* Expedited turnaround subject to additional charge

CHEMTECH-FORD LABORATORIES

___ 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	Repeat (Fail #)	SYSTEM #
04424-01	1.	MW-7	5/29/13	900								
-02	2.	MW-4	"	1000								
-03	3.	MW-3	"	1100								
-04	4.	MW-2	"	1030								
-05	5.	MW-1	"	930								
-06	6.	WS	"	1130								
	7.											
	8.											
	9.											
	10.											

See Attached sheet

Sampled by: [print]
Sampled by: [signature]

ON ICE NOT ON ICE

Special Instructions:

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Rusty Metz	1200 / 5/29/13	[signature]	5/30/13 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 an... fees.

FedEx TRK# 0201 7998 6978 9507

CHEMTECH-FORD LABORATORIES

Sample Receipt Checklist

Lab ID #: 04424

Sample(s) sealed: Yes / (No)

Appropriate container/preservative: (Yes) / No

Temperature 10 C°

Delivery Method: (circle one)

UPS (FedEX) USPS

Walk-In Courier Chemtech

Comments:

	Lab ID #	Bottle Type	Lot # (preservative)	No. of Subsample(s)	Preserved by client / third party	Preserved in Receiving/Laboratory	Vials submitted with headspace	Sample submitted past hold time	Filtered by client in field
1	01	A1/2		1					
2		m	937						
3	02	A1/2		1					
4		m	900						
5	03	A1/2		1					
6		m	937						
7	04	A1/2		1					
8		m	932						
9	05	A1/2		1					
10		m	900						
11	06	A1/2		1					
12		m	937						
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									

Bottle Type

Plastic	Glass
A- Plastic Unpreserved	**D-** 625 ($Na_2S_2O_3$)
B- Miscellaneous Plastic	**G-** Glass Unpreserved
C- Cyanide Qt (NaOH)	**H-** HAAs (NH_4Cl)
F- Sulfide Qt (NaOH/Zn Acetate)	**J-** 508/515/525 (Na_2SO_3)
M- Metals Pint (HNO_3)	**O-** Oil & Grease (1:1 HCl)
N- Nutrient Pint (H_2SO_4)	**P-** Phenols (H_2SO_4)
R- Radiological Gallon (HNO_3)	**T-** TOC/TOX (H_3PO_4)
S- Sludge Cups/Tubs	**U-** 531 (MCAA, $Na_2S_2O_3$)
Q- Plastic Bags	**V-** 524/THMs (Ascorbic Acid)
E- Coliform/Ecoli	**W-** 8260 (1:1 HCl)
Additional Volumes	**X-** Vial Unpreserved
Q- quart 1/2pt- half pint	**Y-** 624/504 ($Na_2S_2O_3$)
P- pint 1/2- half gallon	**Z-** Miscellaneous Glass

CHEMTECH-FORD
LABORATORIES

7/9/2013

Work Order: 1305651

Sunnyside Cogeneration

Attn: Rusty Netz

P.O. Box 10

East Carbon, UT 84520

Client Service Contact: Linda Daniels 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.

NELAP ACCREDITED TNI LABORATORY

Approved By: Dave Gayer, Laboratory Director

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1305651-01

Name:	**Sunnyside Cogeneration**	***Sample Date:***	6/27/2013 9:00 AM
Sample Site:	MW-1	***Receipt Date:***	6/28/2013 12:00 PM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Metals								
Selenium, Total	0.0069	0.0005	mg/L	7/8/2013 11:44	KSL	EPA 200.8	7782-49-2	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1305651-02

Name:	**Sunnyside Cogeneration**	***Sample Date:***	6/27/2013 9:30 AM
Sample Site:	MW-2	***Receipt Date:***	6/28/2013 12:00 PM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Metals								
Selenium, Total	0.0088	0.0005	mg/L	7/8/2013 11:47	KSL	EPA 200.8	7782-49-2	

CHEMTECH-FORD
LABORATORIES

Certificate of Analysis

Lab Sample No.: 1305651-03

Name:	**Sunnyside Cogeneration**	***Sample Date:***	6/27/2013 10:00 AM
Sample Site:	MW-3	***Receipt Date:***	6/28/2013 12:00 PM
Comments:		***Sampler:***	Sunnyside Cogen
Sample Matrix:	Wastewater	***Project:***	GW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Metals								
Selenium, Total	0.0111	0.0005	mg/L	7/8/2013 11:50	KSL	EPA 200.8	7782-49-2	

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:*

*Expedited turnaround subject to additional charge

CHEMTECH-FORD LABORATORIES

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ANALYTICAL TESTS REQUESTED

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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	Repeat (Fail #)	SYSTEM #
05651 -01	1.	MW-1	6/27/13	900								
-02	2.	MW-2	"	930								
-03	3.	MW-3	"	1000								
	4.											
	5.											
	6.											
	7.											
	8.											
	9.											
	10.											

Sample for Selenium only

Sampled by: [print] Sampled by: [signature] ON ICE NOT ON ICE 20°

Special Instructions:

Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
Relinquished by: [signature]	Date/Time	Received by: [signature]	Date/Time
	6/27/13 1130		6/28/13 1200

Payment Terms are net 30 days OAC. 1.5% Interest charge per month (18% per annum). Client agress to pay collection costs and attorney's fees.

CHEMTECH-FORD LABORATORIES

CHEMTECH-FORD LABORATORIES

Sample Receipt Checklist

Lab ID #: 05651

Delivery Method: (circle one)

(UPS) FedEX USPS

Walk-In Courier Chemtech

Sample(s) sealed: Yes / (No)

Appropriate container/preserve (Yes) / No

Temperature 10 C°

Comments:

1	01	M	952							
2	02	↓	100							
3	03	↓	963							
4										
5										
6										
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22										
23										
24										
25										

A- Plastic Unpreserved	D- 825 ($Na_2S_2O_3$)
B- Miscellaneous Plastic	G- Glass Unpreserved
C- Cyanide Qt (NaOH)	H- HAAs (NH_4Cl)
F- Sulfide Qt (NaOH/Zn Acetate)	J- 508/515/525 (Na_2SO_3)
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E- Coliform/Ecoli	W- 8260 (1:1 HCl)
	X- Vial Unpreserved
Q- quart 1/2pt- half pint	Y- 624/504 ($Na_2S_2O_3$)
P- pint 1/2- half gallon	Z- Miscellaneous Glass