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Sunnyside Operations Associates L.P.

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November 13, 1995

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
Mr. Bill Malencik
Mined Land Reclamation Program
Box 169
451 East 400 North
Price, Utah 84501-2699

Attention: Mr. Bill Malencik

Subject: Quarterly Sampling Report
Monitoring Period: June, July and August 1995
DOGM Permit Boundary Water Quality Monitoring Plan
Sunnyside Cogeneration Associates Power Plant

This letter report summarizes the analytical results and field activities concerning the DOGM Permit Water Quality Monitoring Plan at the Sunnyside Cogeneration Facility. This report is the first operational quarterly monitoring period following the end of the baseline monitoring period. Sunnyside personnel collected the quarterly water-samples, monthly field parameters and performed visual inspections of the DOGM permit monitoring locations listed in Table 1.

Sunnyside personnel reviewing the files found that the third quarter sampling and field parameters had not been performed and followed up as to the reason why. There was mis-communications between the engineering firm who has been performing these functions and plant personnel. On October 19, 1995 Russ Miller the Environmental Technician for Sunnyside Cogeneration Facility immediately called and informed Bill Malencik of the Division of Oil, Gas and Mining of this deficiency. The following day October 20, 1995 Mr. Miller collected samples and field parameters and made arrangements for express delivery and processing.

The required field parameters for each monitoring location for the UPDES permit were measured and is presented in Table 2. None of the UPDES permit outfalls, covered under the Sunnyside Cogeneration Facilities DOGM permit, discharged effluent during the monitoring period. The field data sheets, documenting the required DOGM field parameters, are included in Attachment A.

The analytical results for the October 20, 1995 sampling event are summarized in Table 3 and previous baseline sampling results are compiled in Table 4. The results for this sampling event were similar to the previous baseline sampling events, with the exception that the Coarse Refuse Seep-Source (CRS) was not discharging. A copy of the laboratory report is included in Attachment B.

If you have any questions or comments, please contact Russ Miller at (801) 888-4476.

Sincerely,

Russ Miller

Russ Miller
Environmental Technician

Reviewed by

Danny Mattingly

Danny Mattingly
Plant Manager

Enclosures

Table 1:	Compliance Monitoring Locations
Table 2:	Field Parameter Data
Table 3:	Quarterly Compliance Sampling Results, October 20, 1995
Table 4:	Quarterly Compliance Sampling Results, June 1993 to March 1995
Attachment A:	Field Data Sheets
Attachment B:	Analytical Laboratory Report

cc Mr. Danny Mattingly, Facility Manager, Sunnyside Cogeneration Facility
Mr. Robert S. Evans II, NRG Energy, Inc.
Mr. Douglas E. Burnham, Babcock & Wilcox
Mr. Ken Wyatt, Division of Oil, Gas & Mining
Mr. Ron Will, NRG Managing Partner
Mr. Walt Strotz, Babcock & Wilcox Managing Partner
Mr. Jim Comas, Eckhoff, Watson and Preator Engineering

TABLE 1

Sunnyside Cogeneration Facility

Sunnyside, Utah

Compliance Monitoring Locations

DOGM Permit Boundary Water Quality Monitoring Plan

DOGM UPDES Monitoring Locations
Outfall 004, Clear Water Pond Outfall 007, Rail Cut Pond Outfall 008, Old Coarse Refuse Pond Outfall 009, Pasture Pond Outfall 012, Coarse Refuse Pond Outfall 013, Facility Sediment Pond Outfall 014, Coal Pile Runoff Pond Outfall 015, Landfill Sediment Pond Outfall 016, Borrow Area Pond

DOGM Operational Water Quality Monitoring Locations
ICE - 1, Icelander Creek F - 2, Columbia Dugway Spring CRS, Coarse Refuse Seep-Source CRB, Coarse Refuse Seep-Boundary Well-1, Draegerton Well

TABLE 2

Sunnyside Cogeneration Facility

Sunnyside, Utah

Field Parameter Data

DOGM Permit Boundry Water Quality Monitoring Plan
Monitoring Period: June, July, August, 1995
Sample taken October 20, 1995

Monitoring Location	Location I.D.	Temp. (C)	pH (su)	SC (umhos)	Dissolved Oxygen (mg/l)	Flow Rate (gpm)	Flow method
Icelander Creek	ICE-1	10.2	8.61	2356	6.8	50	3
Columbia Dugway Spring	F-2	12.9	8.41	2298	6.8	15	3
Coarse Refuse Seep Source	CRS	nd	nd	nd	nd	nd	nd
Coarse Refuse Seep Boundary	CRB	8.2	8.15	5280	3.6	30	1
Draegerton Well	Well-1	11.4	7.77	722	8	600	4
Coal Runoff Basin	Outfall 004	nd	nd	nd	nd	nd	nd
Rail Cut Pond	Outfall 007	nd	nd	nd	nd	nd	nd
Old Coarse Refuse Pond	Outfall 008	nd	nd	nd	nd	nd	nd
Pasture Sediment Pond	Outfall 009	nd	nd	nd	nd	nd	nd
Coarse Refuse Toe Pond	Outfall 012	nd	nd	nd	nd	nd	nd
Borrow Area Pond	Outfall 016	nd	nd	nd	nd	nd	nd

Notes:
na - not applicable
nd - data is not available due to lack of discharge
1- Flow rates were measured using a weir.
2 - Flow rates were measured using a calibrated container and stopwatch method.
3 - Flow rates were measured using the floating debris method.
4 - Flow rates were measured using a meter

TABLE 3

Sunnyside Cogeneration Facility

Sunnyside, Utah

Quarterly Compliance Sampling Results

DOGM Permit Boundary Water Quality Monitoring Plan
Sampling Date: October 10, 1995

	Analytical Parameters									
	Metals (mg/l)				Inorganics (mg/l)					Ions
Sample Location	Iron Total	Iron Dissolved	Manganese Total	Manganese Dissolved	Electrical Conductivity	Oil & Grease	Settleable Solids	Dissolved Solids	Suspended Solids	C - A Balance
ICE-1	0.16	<0.04	<0.01	<0.01	2356	<5	<0.2	1,160	3	18.29/20.94
F - 2	0.17	<0.04	0.04	<0.01	2298	<5	<0.2	1,160	<2.5	18.04/20.45
CRS	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CRB	0.14	0.05	0.18	0.1	5280	<5	<0.2	5,170	<2.5	73.87/77.18
WELL	0.96	<0.04	<0.01	<0.01	722	<5	na	1,050	na	16.04/18.38

	Analytical Parameters									
	Anions (mg/l)					Cations (mg/l)				
Sample Location	Bicarbonate Alkalinity	Carbonate Alkalinity	Total Alkalinity	Chloride as Cl	Sulfate as SO4	Calcium as Ca	Hardness as CaCO3	Magnesium as Mg	Potassium as K	Sodium as Na
ICE-1	599	3	496	40	475	57	500	76.7	3.3	208
F - 2	630	<1	517	37	436	77.6	520	69.8	2.9	192
CRS	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CRB	417	<1	342	250	3,040	547	2,570	314	24.7	462
WELL	584	<1	479	25	389	70.3	450	59	2.7	175

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 were not quantifiable.

* - Higher detection limit reported due to interferences present in the sample.

na - not applicable

nd - data is not available due to lack of discharge

TABLE 4

PREVIOUS BASELINE SAMPLING RESULTS

TABLE 4 (ıtinued)

Sample Location		Analytical Parameters: Inorganics (mg/l)			Anions (mg/l)					Cations (mg/l)				Nutrients (mg/l)			
		Settleable Solids	Dissolved Solids	Suspended Solids	Bicarbonate Alkalinity	Carbonate Alkalinity	Total Alkalinity	Chloride as Cl	Sulfate as SO4	Calcium as Ca	Hardness as CaCO3	Magnesium as Mg	Sodium as Na	Ammonia as N	Nitrite as N	Nitrate as N	Phosphorous Total
ICE-1	06/93	<0.1	1920	8	505	0	414	66	1060	126	944	153	318	0.31	<0.05	1.72	0.02
	10/93	<0.2	1600	<2	593	0	486	65	777	90	660	105	340	<0.05	<0.05	0.77	0.05
	01/94	<0.1	1780	11	519	0	425	59	943	110	850	140	298	0.13	<0.05	0.69	0.05
	04/94	<0.1	1860	71	443	11	382	60	985	108	854	142	294	0.08	na	0.32	0.02
	07/94	<0.1	1590	<4	541	11	463	62	782	96	759	126	288	<0.05	<0.05	0.48	0.03
	09/94	<0.1	1580	7	509	17	446	67	742	60	618	114	320	0.11	<0.05	0.05	0.02
	12/94	<0.1	1780	9	593	14	510	74	770	104	787	128	312	<0.05	<0.05	0.50	0.02
	03/95	<0.1	1670	<5	524	11	448	72	830	98	772	128	300	0.09	<0.05	0.20	0.029
F-2	06/93	<0.1	1910	10	569	0	466	64	985	144	965	147	306	<0.05	0.06	1.54	0.02
	10/93	<0.2	1500	9	622	0	510	59	700	102	650	96	300	0.11	<0.05	0.88	0.06
	01/94	<0.1	1390	<5	605	0	496	44	632	94	690	110	260	<0.05	<0.05	0.97	<0.02
	04/94	<0.1	1430	7	553	11	472	56	644	97	712	114	274	<0.05	na	0.75	0.02
	07/94	<0.1	1500	<5	593	11	505	56	700	108	738	114	273	<0.05	<0.05	0.94	0.02
	09/94	<0.1	1540	8	601	6	502	60	690	96	697	111	256	<0.05	<0.05	0.48	<0.02
	12/94	<0.1	894	3	492	0	403	23	290	72	452	66	141	<0.05	<0.05	0.66	<0.[illegible]
	03/95	<0.1	1600	<5	610	0	500	72	760	108	751	117	306	<0.05	<0.05	0.51	<0.02
CRS	06/93	0.2	5210	15	553	0	453	97	3380	570	2945	370	550	1.86	<0.05	0.38	0.23
	10/93	<0.2	5200	41	548	0	449	96	2930	558	2800	342	543	1.73	<0.05	0.33	0.68
	01/94	0.4	4930	16	570	0	467	97	3180	560	2800	340	530	2.11	<0.05	0.22	0.76
	04/94	<0.1	4890	34	553	0	453	101	2960	558	2890	350	515	1.42	na	<0.05	0.27
	07/94	<0.1	4910	14	559	0	458	105	3080	597	2980	363	501	1.26	<0.05	0.37	0.17
	09/94	<0.1	5410	25	608	0	498	106	2930	546	2630	309	471	1.33	<0.05	0.22	0.15
	12/94	<0.1	5300	19	608	0	498	101	2930	561	2710	318	525	1.58	<0.05	<0.05	0.14
	03/95	<0.1	5090	24.0	605	0	496	104	3400	560	2750	328	580	1.78	<0.05	<0.05	0.17
CRB	06/93	<0.1	4610	<2	394	0	323	131	3010	513	2638	330	483	0.11	<0.05	1.34	<0.02
	10/93	<0.2	4700	<5	384	0	315	116	2710	550	2810	350	555	<0.05	<0.05	1.07	0.05
	01/94	<0.1	4320	<5	369	0	302	121	2780	490	2400	290	450	<0.05	<0.05	1.33	<0.02
	04/94	<0.1	4620	10	380	0	311	134	2630	494	2666	309	450	<0.05	na	0.73	0.02
	07/94	<0.1	4490	<5	398	0	326	166	2820	480	2470	310	475	<0.05	<0.05	0.44	0.04
	09/94	<0.1	5230	<5	405	0	332	213	2780	486	2460	303	450	<0.05	<0.05	0.39	0.02
	12/94	<0.1	5070	<1	440	0	361	197	2800	570	2780	330	507	0.07	<0.05	0.70	<0.02
	03/95	<0.1	4880	<5	398	0	326	217	3000	480	2401	292	564	<0.05	<0.05	0.61	0.050
WELL	06/93	<0.1	1250	<2	599	0	491	34	510	93	578	84	231	<0.05	<0.05	0.90	<0.02
	10/93	<0.2	1400	<2	599	0	491	47	604	99	590	84	276	<0.05	<0.05	1.21	0.05
	01/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	04/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	07/94	<0.1	1180	<5	593	0	486	33	479	78	515	78	7	<0.05	<0.05	0.85	<0.02
	09/94	<0.1	981	<5	463	0	379	30	412	81	511	75	144	<0.05	<0.05	0.8	<0.02
	12/94	<0.1	1690	<2	650	14	557	70	740	117	823	129	291	<0.05	<0.05	0.44	<0.02
	03/95	<0.1	512	<5	362	0	297	4	150	50	318	47	70	<0.05	<0.05	0.54	0.028
004	06/93	nd	1180	61.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	10/93	na	1200	66	580	10	493	86	436	24	134	18	432	na	na	na	na
	01/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	04/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	07/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	09/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	12/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	03/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

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TABLE 4 (.ntinued)

Sample Location		Analytical Parameters															
		Inorganics (mg/l)			Anions (mg/l)					Cations (mg/l)				Nutrients (mg/l)			
		Settleable Solids	Dissolved Solids	Suspended Solids	Bicarbonate Alkalinity	Carbonate Alkalinity	Total Alkalinity	Chloride as Cl	Sulfate as SO4	Calcium as Ca	Hardness as CaCO3	Magnesium as Mg	Sodium as Na	Ammonia as N	Nitrite as N	Nitrate as N	Phosphorous Total
ICE-1	06/93	<0.1	1920	8	505	0	414	66	1060	126	944	153	318	0.31	<0.05	1.72	0.02
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	01/94	<0.1	1780	11	519	0	425	59	943	110	850	140	298	0.13	<0.05	0.69	0.05
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	12/94	<0.1	1780	9	593	14	510	74	770	104	787	128	312	<0.05	<0.05	0.50	0.02
	03/95	<0.1	1670	<5	524	11	448	72	830	98	772	128	300	0.09	<0.05	0.20	0.029
F-2	06/93	<0.1	1910	10	569	0	466	64	985	144	965	147	306	<0.05	0.06	1.54	0.02
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	07/94	<0.1	1500	<5	593	11	505	56	700	108	738	114	273	<0.05	<0.05	0.94	0.02
	09/94	<0.1	1540	8	601	6	502	60	690	96	697	111	256	<0.05	<0.05	0.48	<0.02
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	03/95	<0.1	1600	<5	610	0	500	72	760	108	751	117	306	<0.05	<0.05	0.51	<0.02
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	10/93	<0.2	5200	41	548	0	449	96	2930	558	2800	342	543	1.73	<0.05	0.33	0.68
	01/94	0.4	4930	16	570	0	467	97	3180	560	2800	340	530	2.11	<0.05	0.22	0.76
	04/94	<0.1	4890	34	553	0	453	101	2960	558	2890	350	515	1.42	na	<0.05	0.37
	07/94	<0.1	4910	14	559	0	458	105	3080	597	2980	363	501	1.26	<0.05	0.37	0.17
	09/94	<0.1	5410	25	608	0	498	106	2930	546	2630	309	471	1.33	<0.05	0.22	0.15
	12/94	<0.1	5300	19	608	0	498	101	2930	561	2710	318	525	1.58	<0.05	<0.05	0.14
	03/95	<0.1	5090	24.0	605	0	496	104	3400	560	2750	328	580	1.78	<0.05	<0.05	0.17
CRB	06/93	<0.1	4610	<2	394	0	323	131	3010	513	2638	330	483	0.11	<0.05	1.34	<0.02
	10/93	<0.2	4700	<5	384	0	315	116	2710	550	2810	350	555	<0.05	<0.05	1.07	0.05
	01/94	<0.1	4320	<5	369	0	302	121	2780	490	2400	290	450	<0.05	<0.05	1.33	<0.02
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	07/94	<0.1	4490	<5	398	0	326	166	2820	480	2470	310	475	<0.05	<0.05	0.44	0.04
	09/94	<0.1	5230	<5	405	0	332	213	2780	486	2460	303	450	<0.05	<0.05	0.39	0.02
	12/94	<0.1	5070	<1	440	0	361	197	2800	570	2780	330	507	0.07	<0.05	0.70	<0.02
	03/95	<0.1	4880	<5	398	0	326	217	3000	480	2401	292	564	<0.05	<0.05	0.61	0.050
WELL	06/93	<0.1	1250	<2	599	0	491	34	510	93	578	84	231	<0.05	<0.05	0.90	<0.02
	10/93	<0.2	1400	<2	599	0	491	47	604	99	590	84	276	<0.05	<0.05	1.21	0.05
	01/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	04/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	[illegible]
	07/94	<0.1	1180	<5	593	0	486	33	479	78	515	78	7	<0.05	<0.05	0.85	<0.02
	09/94	<0.1	981	<5	463	0	379	30	412	81	511	75	144	<0.05	<0.05	0.8	<0.02
	12/94	<0.1	1690	<2	650	14	557	70	740	117	823	129	291	<0.05	<0.05	0.44	<0.02
	03/95	<0.1	512	<5	362	0	297	4	150	50	318	47	70	<0.05	<0.05	0.54	0.028
004	06/93	nd	1180	61.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	10/93	na	1200	66	580	10	493	86	436	24	134	18	432	na	na	na	na
	01/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	04/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	07/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	09/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	12/94	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	03/95	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

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na – not applicable

ATTACHMENT A

FIELD DATA SHEETS

Carbon County, Utah
UPDES Permit Number UT0024759

OUTFALL NUMBER: ICE - 1

Date	Time	Personnel	Weather	Discharge Present	Flow (gpm)	Field Parameters					Sample Taken	Observations (color,sheen,ordor,etc.)
						Water Level (feet)	Temp (F)	pH	SC (umhos)	DO mg/L		
10-20-95	1159	R. MILLER	CLEAR	YES	50		10.2C	8.6	2356	6.8	YES	NO NEW DO METER CALED OK

Carbon County, Utah
UPDES Permit Number UT0024759

OUTFALL NUMBER: F - 2

Date	Time	Personnel	Weather	Discharge Present	Flow (gpm)	Field Parameters					Sample Taken	Observations (color,sheen,ordor,etc.)
						Water Level (feet)	Temp (F)	pH	SC (umhos)	DO mg/L		
10-20-95	1218	R. MILLER	CLEAR	YES	15		12.9°C	8.41	2298	6.8	YES	NO

Carbon County, Utah
UPDES Permit Number UT0024759

OUTFALL NUMBER: CRS

Date	Time	Personnel	Weather	Discharge Present	Flow (gpm)	Field Parameters					Sample Taken	Observations (color,sheen,ordor,etc.)
						Water Level (feet)	Temp (F)	pH	SC (umhos)	DO mg/L		
10-20-95	10:45	R. MILLER	CLEAR	NO							NO	

Carbon County, Utah
UPDES Permit Number UT0024759

OUTFALL NUMBER: CRB

Date	Time	Personnel	Weather	Discharge Present	Flow (gpm)	Field Parameters					Sample Taken	Observations (color,sheen,ordor,etc.)
						Water Level (feet)	Temp (F)	pH	SC (umhos)	DO mg/L		
10-20-95	11:18	R. MILLER	Cool/clear	YES	30	1.2	8.2	8.15	5280	3.6	YES	

Carbon County, Utah
UPDES Permit Number UT0024759

OUTFALL NUMBER: WELL

Date	Time	Personnel	Weather	Discharge Present	Flow (gpm)	Field Parameters					Sample Taken	Observations (color,sheen,ordor,etc.)
						Water Level (feet)	Temp (F)	pH	SC (umhos)	DO mg/L		
10-20-95	1238	R. MILLER	CLEAR	YES	600		11.4°	7.77	722	8.0	YES	

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

CHEMTECH ANALYTICAL LABORATORY

ANALYSIS REQUEST FORM

COMPANY: SUNNYSIDE COGENERATION FACILITY
ADDRESS: P.O. BOX 10
CITY/STATE/ZIP: EAST CARBON UT 84520
PHONE #: 801-888-4476 FAX #: 801-888-2538

COMPANY CONTACT: RUSS MILLER
PROJECT ID:
P.O. #:
TURNAROUND REQUIRED* RUSH (EXPEDITE)
*expedited turnaround subject to additional charge

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	Number of Containers	MATRIX: Drinking Water	Water	Soil / Solid (circle)	Sludge	Oil	Other (specify)	ANALYTES REQUESTED
1. CRS	10-20-95	10:45	4		✓					35582
2. CRB	" " "	11:18	4		✓					35583
3. ICE-1	" " "	11:59	4		✓					35584
4. F-2	" " "	12:18	4		✓					35585
5. DRAG WELL	" " "	12:38	4		✓					35586
6.										
7.										
8.										
9.										
10.										

Sampled by: (print) RUSS MILLER
Sampled by: (signature) Russ Miller
Comments: TIME SENSITIVE MATERIALS

Special Instructions: ANALYZE ALL SAMPLES ~~FOR~~ ACCORDING TO THE ENCLOSED PARAMETERS

Relinquished by: (signature)	Received by: (signature)	Date/Time	Comments
Russ Miller	[signature]	10-20-95 14:05	
Relinquished by: (signature)	Received by: (signature)	Date/Time	Comments
	[signature] 10/21/95	1230	
Relinquished by: (signature)	Received by: (signature)	Date/Time	Comments

NET 30 DAYS: 1½% REQ MONTH INTEREST CHARGE

11/07/95 13:48 CHEMTECH → 1 801 888 2538 NO.109 P11

CHEMTECH ANALYTICAL LABORATORIES

Date: 11/ 7/95

To: Sunnyside Cogeneration
P.O. Box 10
East Carbon, UT 84520

Group #: 4845
Lab #: 95-U035584
Sample Desc: ICE-1
Date Sampled: 10/20/95
Date Submitted: 10/21/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO3, mg/L	599	1	10/30/95 12:00	SM 2320B	TM
Carbonate as CO3, mg/L	3	1	10/30/95 12:00	SM 2320B	TM
Alkalinity, Total, mg/L	496	1	10/30/95 12:00	SM 2320B	TM
Chloride, mg/L	40	3	10/26/95 13:20	EPA 325.3	TM
Hardness, EDTA Titration, mg/L	500	25	10/24/95 13:30	EPA 130.2	TM
Settleable Solids, mL/L/hr	< 0.2	0.2	10/21/95 12:00	EPA 160.5	MA
Sulfate, mg/L	475	10	10/26/95 12:30	EPA 375.4	TM
Total Dissolved Solids, mg/L	1,160	10	10/25/95 12:00	EPA 160.1	MA
Total Suspended Solids, mg/L	3.0	2.5	10/25/95 17:00	EPA 160.2	MA
Calcium (T), as Ca, mg/L	57.0	0.2	10/30/95 10:03	EPA 200.7	LH
Iron (T), as Fe, mg/L	0.16	0.04	10/30/95 10:03	EPA 200.7	LH
Iron (D), as Fe, mg/L	< 0.04	0.04	11/ 1/95 16:31	EPA 200.7	LH
Magnesium (D), as Mg, mg/L	76.7	0.1	11/ 1/95 16:31	EPA 200.7	LH
Manganese (T), as Mn, mg/L	< 0.01	0.01	10/30/95 10:03	EPA 200.7	LH
Manganese (D), as Mn, mg/L	< 0.01	0.01	11/ 1/95 16:31	EPA 200.7	LH
Potassium (D), as K, mg/L	3.3	0.1	11/ 1/95 16:31	EPA 200.7	LH
Sodium (D), as Na, mg/L	208	0.2	11/ 1/95 16:31	EPA 200.7	LH
Oil & Grease, mg/L	< 5	5	10/31/95 11:55	EPA 413.1	RH
Cation, meq/L	18.29				
Anion, meq/L	20.94				
% Difference, %	6.70				

Approved By: R Dunn

(generic.rpt)

801 262 7299 PHONE
801 262 7378 FAX
6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905

CHEMTECH ANALYTICAL LABORATORIES

Date: 11/ 7/95

To: Sunnyside Cogeneration
P.O. Box 10
East Carbon, UT 84520

Group #: 4845
Lab #: 95-U035585
Sample Desc: F-2
Date Sampled: 10/20/95
Date Submitted: 10/21/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO3, mg/L	630	1	10/30/95 12:00	SM 2320B	TM
Carbonate as CO3, mg/L	< 1	1	10/30/95 12:00	SM 2320B	TM
Alkalinity, Total, mg/L	517	1	10/30/95 12:00	SM 2320B	TM
Chloride, mg/L	37	3	10/26/95 13:20	EPA 325.3	TM
Hardness, EDTA Titration, mg/L	520	25	10/24/95 13:30	EPA 130.2	TM
Settleable Solids, mL/L/hr	< 0.2	0.2	10/21/95 12:00	EPA 160.5	MA
Sulfate, mg/L	436	10	10/26/95 12:30	EPA 375.4	TM
Total Dissolved Solids, mg/L	1,160	10	10/25/95 12:00	EPA 160.1	MA
Total Suspended Solids, mg/L	< 2.5	2.5	10/25/95 17:00	EPA 160.2	MA
Calcium (T), as Ca, mg/L	77.6	0.2	10/30/95 10:05	EPA 200.7	LH
Iron (T), as Fe, mg/L	0.17	0.04	10/30/95 10:05	EPA 200.7	LH
Iron (D), as Fe, mg/L	< 0.04	0.04	11/ 1/95 16:33	EPA 200.7	LH
Magnesium (D), as Mg, mg/L	69.8	0.1	11/ 1/95 16:33	EPA 200.7	LH
Manganese (T), as Mn, mg/L	0.04	0.01	10/30/95 10:05	EPA 200.7	LH
Manganese (D), as Mn, mg/L	< 0.01	0.01	11/ 1/95 16:33	EPA 200.7	LH
Potassium (D), as K, mg/L	2.9	0.1	11/ 1/95 16:33	EPA 200.7	LH
Sodium (D), as Na, mg/L	192	0.2	11/ 1/95 16:33	EPA 200.7	LH
Oil & Grease, mg/L	< 5	5	10/31/95 11:55	EPA 413.1	RH
Cation, meq/L	18.04				
Anion, meq/L	20.45				
% Difference, %	6.20				

Approved By: _____

{generic.rpt}

801 262 7299 PHONE
801 262 7378 FAX
6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905

CHEMTECH ANALYTICAL LABORATORIES

Date: 11/ 7/95

To: Sunnyside Cogeneration
P.O. Box 10
East Carbon, UT 84520

Group #: 4845
Lab #: 95-U035583
Sample Desc: CRB
Date Sampled: 10/20/95
Date Submitted: 10/21/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO3, mg/L	417	1	10/30/95 12:00	SM 2320B	TM
Carbonate as CO3, mg/L	< 1	1	10/30/95 12:00	SM 2320B	TM
Alkalinity, Total, mg/L	342	1	10/30/95 12:00	SM 2320B	TM
Chloride, mg/L	250	6	10/26/95 13:20	EPA 325.3	TM
Hardness, EDTA Titration, mg/L	2,570	100	10/24/95 13:30	EPA 130.2	TM
Settleable Solids, mL/L/hr	< 0.2	0.2	10/21/95 12:00	EPA 160.5	MA
Sulfate, mg/L	3,040	15	10/26/95 12:30	EPA 375.4	TM
Total Dissolved Solids, mg/L	5,170	10	10/25/95 12:00	EPA 160.1	MA
Total Suspended Solids, mg/L	< 2.5	2.5	10/25/95 17:00	EPA 160.2	MA
Calcium (T), as Ca, mg/L	547	0.2	10/30/95 10:01	EPA 200.7	LH
Iron (T), as Fe, mg/L	0.14	0.04	10/30/95 10:01	EPA 200.7	LH
Iron (D), as Fe, mg/L	0.05	0.04	11/ 1/95 16:29	EPA 200.7	LH
Magnesium (D), as Mg, mg/L	314	0.1	11/ 1/95 16:29	EPA 200.7	LH
Manganese (T), as Mn, mg/L	0.18	0.01	10/30/95 10:01	EPA 200.7	LH
Manganese (D), as Mn, mg/L	0.10	0.01	11/ 1/95 16:29	EPA 200.7	LH
Potassium (D), as K, mg/L	24.7	0.1	11/ 1/95 16:29	EPA 200.7	LH
Sodium (D), as Na, mg/L	462	0.2	11/ 1/95 16:29	EPA 200.7	LH
Oil & Grease, mg/L	< 5	5	10/31/95 11:55	EPA 413.1	RH
Cation, meq/L	73.87				
Anion, meq/L	77.18				
% Difference, %	2.20				

Approved By: R Fuller

(generic.rpt)

801 262 7299 PHONE
801 262 7378 FAX
6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905

CHEMTECH ANALYTICAL LABORATORIES

To: Sunnyside Cogeneration
P.O. Box 10
East Carbon, UT 84520

Date: 11/ 7/95

Group #: 4845
Lab #: 95-U035586
Sample Desc: Drag Well
Date Sampled: 10/20/95
Date Submitted: 10/21/95

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO3, mg/L	584	1	10/30/95 12:00	SM 2320B	TM
Carbonate as CO3, mg/L	< 1	1	10/30/95 12:00	SM 2320B	TM
Alkalinity, Total, mg/L	479	1	10/30/95 12:00	SM 2320B	TM
Chloride, mg/L	25	1	10/26/95 13:20	EPA 325.3	TM
Hardness, EDTA Titration, mg/L	450	25	10/24/95 13:30	EPA 130.2	TM
Sulfate, mg/L	389	10	10/26/95 12:30	EPA 375.4	TM
Total Dissolved Solids, mg/L	1,050	10	10/25/95 12:00	EPA 160.1	MA
Calcium (T), as Ca, mg/L	70.3	0.2	10/30/95 10:07	EPA 200.7	LH
Iron (T), as Fe, mg/L	0.96	0.04	10/30/95 10:07	EPA 200.7	LH
Iron (D), as Fe, mg/L	< 0.04	0.04	11/ 1/95 16:35	EPA 200.7	LH
Magnesium (D), as Mg, mg/L	59.0	0.1	11/ 1/95 16:35	EPA 200.7	LH
Manganese (T), as Mn, mg/L	< 0.01	0.01	10/30/95 10:07	EPA 200.7	LH
Manganese (D), as Mn, mg/L	< 0.01	0.01	11/ 1/95 16:35	EPA 200.7	LH
Potassium (D), as K, mg/L	2.7	0.1	11/ 1/95 16:35	EPA 200.7	LH
Sodium (D), as Na, mg/L	175	0.2	11/ 1/95 16:35	EPA 200.7	LH
Oil & Grease, mg/L	< 5	5	10/31/95 11:55	EPA 413.1	RH
Cation, meq/L	16.04				
Anion, meq/L	18.38				
% Difference, %	6.80				

NOTE: Oil and Grease was collected in Root Beer botles.
There is a rootbeer odor present.

Approved By: [signature]

{generic.rpt}

801 262 7299 PHONE
801 262 7378 FAX
6100 SOUTH STRATLER
SALT LAKE CITY UTAH 84107 6905

ATTACHMENT C

UPDES QUARTERLY REPORT