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SUNNYSIDE COGENERATION ASSOCIATES
POST OFFICE BOX 58087
SALT LAKE CITY, UTAH 84158-0087

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DIV OF OIL, GAS & MINING

November 14, 1994

Mike Herkimer
Division of Water Quality
288 North 1460 West
Salt Lake City, Ut. 84114-4870

Copy Henry #2

RE: **Coarse Refuse Seep Monitoring**
Sunnyside Cogeneration Associates (SCA) Permit No. ACT/007/035
Project Number EC450593

Dear Mike:

Enclosed are the past month's data from the monitoring program for the Coarse Refuse Seep. Weekly field parameters and monthly grab samples were taken at the V-Notch Weirs installed at the Source (CRS), Railroad Culvert (CRC), and Permit Boundary (CRB). Henry Sauer, of DOGM, was on site October 27 when these samples were taken. He took samples at the CRS and CRB and has sent them for analyzation.

SCA has now conducted the first six months of a special study on the Coarse Refuse Seep and has submitted the data to DWQ and DOGM. Three sites have been monitored weekly for the agreed field parameters. Also, monthly samples have been taken at each weir site and analyzed for the agreed laboratory parameters. In addition, Huntingdon continues to collect monthly field data and quarterly samples for laboratory analysis under the baseline monitoring program.

As discussed at the onset of this study, it is time to re-evaluate the effectiveness of this monitoring plan and determine if the parameters and / or frequencies should be adjusted, eliminated or added.

The list of parameters for which SCA tested during the first three monts was quite extensive and costly. A modification was made in August 1994 which allowed for grab samples instead of composite and eliminated monitoring of Biological Oxygen Demand, Cyanide (total), Phenolics (total), and Mercury (total & dissolved).

Results from the fourth through the sixth months of monitoring have continued quite similar to the first three months. After reviewing the analytical data available from monthly seep monitoring by EWP and quarterly Baseline sampling by Huntingdon, SCA asks that the parameters listed below be eliminated from the list of monthly analysis by EWP because these have shown to be at very low or non-detectible levels.

Aluminum (total & dissolved)	Copper (total & dissolved)
Nickel (total & dissolved)	Acidity
Potassium (total)	Sodium (total)
Boron (total)	Calcium (total)
Magnesium (total)	

SCA believes that the quarterly sampling and testing according to the Baseline Monitoring Schedule will provide sufficient information concerning the minor parameters removed from the suggested list. If the quarterly analysis indicates a high occurrence of parameters, they may be analyzed monthly until they are no longer a concern.

I have again attached a copy of a 1993 letter from DOGM concerning water monitoring parameters for Carbon and Emery County Mines which indicates reduced concern about monitoring for total metals (except for iron and manganese). The first six months of this special study seem to support the reductions mentioned in the letter. The total metals which SCA requested to eliminate from the analysis, seem to be detected mostly in the dissolved forms.

SCA will therefore be testing according to the plan below until further evaluation justifies modification. This monitoring plan will be re-evaluated with DWQ in three more months to determine its effectiveness and continuation. Parameters and / or frequencies may be adjusted, eliminated or added depending upon the data generated and its interpretation.

PARAMETER	FREQUENCY	SAMPLE TYPE
FIELD MEASUREMENTS:		
Flow	1 per Week	Instantaneous
pH	1 per Week	Grab
Temperature	1 per Week	Grab
Specific Conductivity	1 per Week	Grab
Dissolved Oxygen	1 per Week	Grab
LAB MEASUREMENTS:		
Alkalinity - Bicarbonate	1 per Month	Grab
Alkalinity - Carbonate	1 per Month	Grab
Hardness CaCO3	1 per Month	Grab
Total Suspended Solids	1 per Month	Grab
Total Dissolved Solids	1 per Month	Grab
Ammonia Nitrogen	1 per Month	Grab
Sulfate	1 per Month	Grab
Potassium, (dissolved)	1 per Month	Grab
Sodium, (dissolved)	1 per Month	Grab
Boron, (dissolved)	1 per Month	Grab
Iron, (total & dissolved)	1 per Month	Grab
Calcium, (dissolved)	1 per Month	Grab
Magnesium, (dissolved)	1 per Month	Grab
Manganese, (total &dissolved)	1 per Month	Grab

Please let me know if you have any questions or problems with this monitoring plan.

Sincerely,

AEB for

David R Pearce
Authorized Member, Management Committee

Alane E. Boyd

Alane E. Boyd, PE
Senior Engineer
Eckhoff, Watson and Preator Engineering

cc: Brian Burnett, CDN
Henry Sauer, DOGM

Attached: October 1994 Seep Monitoring Data
Summary of Seep Monitoring Data by EWP
Summary of Seep Monitoring Data by Huntingdon
June 29, 1993, DOGM Letter concerning Water Monitoring

AEB:ssc
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SUNNYSIDE COGENERATION ASSOCIATES
COARSE REFUSE SEEP MONITORING performed by EWP

PARAMETER	19-May-94			27-May-94			8-Jun-94			16-Jun-94		
	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
Flow gpm	8.5	29	48	12	36	52	8.5	40	48	7.1	29	40
Temperature C	25.50	15.92	15.55	25.80	17.79	16.77	24.40	16.97	15.50	26.97	19.06	19.62
pH	6.8	7.6	8.1	6.6	7.2	7.8	6.6	7.3	7.8	6.6	7.3	7.8
Spec. Cond mS	5.50	5.62	5.18	5.60	5.60	5.07	5.50	5.60	5.30	5.48	5.62	5.28
Disolved Oxygen mg/l	4.20	6.15	7.64	3.60	6.04	6.87	4.00	7.00	8.00	3.80	6.33	7.61

PARAMETER	23-Jun-94			30-Jun-94			8-Jul-94			14-Jul-94		
	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
Flow gpm	7.1	29	36	7.1	32	40	7.1	32	40	7.1	32	32
Temperature C	27.92	20.37	22.75	24.32	18.10	15.90	25.61	18.80	17.60	26.01	20.30	19.75
pH	6.6	7.3	7.8	6.7	7.3	7.9	6.8	7.4	8.06	6.6	7.4	7.98
Spec. Cond mS	5.5	5.60	5.29	5.50	5.66	5.40	5.50	5.67	5.40	5.50	5.68	5.40
Disolved Oxygen mg/l	2.6	5.50	6.40	1.10	5.60	7.30	1.20	5.70	7.40	1.90	5.70	7.02

PARAMETER	21-Jul-94			29-Jul-94			4-Aug-94			11-Aug-94		
	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
Flow gpm	7.1	29	26	7.1	32	48	8.5	32	36	7.1	32	48
Temperature C	26.6	21.2	22.6	25.3	19.8	17.5	25.5	20.6	18.3	25.2	19.7	18.5
pH	6.8	7.5	7.9	6.9	7.5	8.1	6.9	7.5	8.2	6.9	7.6	8.2
Spec. Cond mS	5.5	5.7	5.4	5.6	5.7	5.5	5.5	5.8	5.5	5.5	5.7	5.6
Disolved Oxygen mg/l	1.5	5.0	6.1	1.0	5.3	7.3	1.1	5.2	6.6	1.4	5.1	6.8

PARAMETER	19-Aug-94			26-Aug-94			31-Aug-94			9-Sep-94		
	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
Flow gpm	7.1	32	36	7.1	32	29	5.8	32	26	5.8		48
Temperature C	24.6	19.4	17.2	23.9	19.5	16.1	25.6	20.7	20.3	24.9	20.1	17.6
pH	6.9	7.6	8.2	6.9	7.6	8.2	6.9	7.6	8.2	7.0	7.5	8.3
Spec. Cond mS	5.5	5.7	5.6	5.5	5.7	5.6	5.5	5.8	5.6	5.5	5.2	5.5
Disolved Oxygen mg/l	2.0	5.8	6.9	1.5	5.3	6.9	1.2	5.2	7.4	1.5	4.9	7.2

PARAMETER	16-Sep-94			20-Sep-94			29-Sep-94			6-Oct-94		
	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
Flow gpm	5.8		40	8.5		40	7.1	32	40	8.5	32	40
Temperature C	23.3	18.0	14.2	23.9	19.8	16.0	24.3	18.7	15.0	22.8	16.7	12.7
pH	7.2	7.8	8.4	7.1	8.0	8.3	7.2	7.8	8.4	7.2	7.9	8.5
Spec. Cond mS	5.5	5.6	5.50	5.5	5.5	5.5	5.5	5.7	5.5	5.5	5.7	5.5
Disolved Oxygen mg/l	1.6	6.0	7.80	1.6	6.1	7.6	1.4	5.3	7.5	1.4	5.5	8.5

PARAMETER	13-Oct-94			21-Oct-94			28-Oct-94			4-Nov-94		
	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
Flow gpm	7.1	32	36	7.1	32.0	40	4.7	29.0	40	4.7	29.0	40
Temperature C	22.7	17.8	13.0	23.1	14.9	12.6	22.1	15.2	9.9	22.3	14.7	9.1
pH	7.3	7.9	8.5	7.3	8.3	8.6	7.4	7.9	8.6	7.3	7.9	8.5
Spec. Cond mS	5.5	5.7	5.50	5.5	5.7	5.4	5.0	5.7	5.5	5.4	5.7	5.4
Disolved Oxygen mg/l	1.6	5.4	7.70	1.5	7.0	8.3	1.6	5.8	8.4	1.5	5.9	8.1

PARAMETER	9-Nov-94		
	CRS	CRC	CRB
Flow gpm	4.7	29	40
Temperature C	22.4	14.4	9.0
pH	7.4	7.9	8.7
Spec. Cond mS	5.5	5.7	5.5
Disolved Oxygen mg/l	1.6	5.8	8.6

SUNNYSIDE COGENERATION ASSOCIATES
COARSE REFUSE SEEP MONITORING performed by EWP

PARAMETER	19-May-94			16-Jun-94			21-Jul-94		
mg/l	CRS	CRC	CRB	CRS	CRC	CRB	CRS	CRC	CRB
NON-FILTERED SAMPLES									
Boron	1.01	1.01	0.75	1.14	1.06	0.91	1.05	1.04	0.9
Aluminum	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	482	447	430	525	479	478	492	441	452
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	7.21	2.49	0.12	7.17	2.03	ND	6.73	3.99	ND
Magnesium	312	312	281	347	333	321	315	308	303
Manganese	1.32	0.56	ND	1.57	0.56	ND	1.46	0.68	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	33.1	33.9	25.3	40.3	37.1	30.9	34.8	33.7	28
Sodium	492	503	437	473	498	486	441	428	440
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alkalinity-Bicarbonate	456	382	302	466	390	302	480	394	306
Alkalinity-Carbonate	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alkalinity-Hydroxide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Suspended Solids	24	11	ND	21	8	ND	22	28	ND
Total Dissolved Solids	5170	5110	4360	5580	5500	5170	5280	5550	5190
Hardness CaCO3	2640	2620	2400	2860	2800	2530	2900	2840	2610
Nitrogen-Ammonia	0.9	ND	ND	1.3	ND	ND	1.2	ND	ND
BOD total	<6	<6	<6	ND	ND	ND	<6	<6	<2
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acidity	51	21	7	43	13	3	52	25	8
Sulfate	2960	3080	2800	3130	3160	2790	3210	3430	3140
FILTERED SAMPLES									
Aluminum	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	0.99	1.00	0.74	1.16	1.05	0.91	1.12	1.1	0.86
Calcium	469	451	429	518	465	469	515	466	431
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	ND	0.12	ND	0.15	0.14	ND	0.31	0.23	0.13
Magnesium	301	311	277	344	327	315	334	330	288
Manganese	1.27	0.52	ND	1.52	0.54	ND	1.49	0.62	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	32.6	32.3	24.8	40.4	36.7	30.2	37.4	36.8	26.7
Sodium	469	490	439	475	490	477	477	468	415

PARAMETER	25-Aug-94			20-Sep-94						27-Oct-94		
mg/l	CRS	CRC	CRB	CRS		CRC		CRB		CRS	CRC	CRB
NON-FILTERED SAMPLES												
Boron	1.03	1.10	0.91	1.01	1.03	1.04	1.08	0.82	0.79	1.1	1.08	0.85
Aluminum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	473	485	464	471	476	445	453	441	432	500	493	454
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	7.07	3.47	ND	8.78	8.84	15.6	3.9	ND	ND	8.73	4.48	0.12
Magnesium	301	341	313	297	303	309	320	295	287	316	344	303
Manganese	1.35	0.87	ND	1.43	1.45	1.41	1.13	0.07	0.07	1.45	1.14	0.21
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	33.9	36.7	28.9	35.7	36.3	36.5	38.2	28.2	27	37	36.6	27.8
Sodium	421	474	448	437	440	441	461	426	406	455	486	428
Alkalinity-Bicarbonate	480	388	314	470		386		322		486	424	348
Alkalinity-Carbonate	ND	ND	ND	ND		ND		ND		ND	ND	ND
Alkalinity-Hydroxide	ND	ND	ND	ND		ND		ND		ND	ND	ND
Total Suspended Solids	18	17	ND	67		14		ND		20	29	ND
Total Dissolved Solids	2190	5330	5120	5490		5680		5240		5450	5520	5190
Hardness CaCO3	3000	2850	2730	2650		2950		2550		2850	2860	2740
Nitrogen-Ammonia	1.2	ND	ND	1.7		ND		ND		1.7	ND	ND
Acidity	60.4	36.2	20	72		22		12		59	31	2
Sulfate	3310	3330	3560	3260		3820		3070		4220	2650	2590
FILTERED SAMPLES				13-Oct-94								
Aluminum	ND	ND	ND	ND		ND		ND		ND	ND	ND
Boron	1.06	1.13	0.95	1.13		1.14		0.86		0.96	1.13	0.88
Calcium	474	487	483	503		483		470		432	473	469
Copper	ND	ND	ND	ND		ND		ND		ND	ND	ND
Iron	0.55	0.29	ND	ND		ND		ND		0.18	ND	ND
Magnesium	304	344	327	318		338		313		274	340	316
Manganese	1.33	0.56	ND	1.47		1.3		0.19		1.26	1.32	0.22
Nickel	ND	ND	ND	ND		ND		ND		ND	ND	ND
Potassium	34.5	37.6	30.2	37.5		39.2		29.2		32	38.1	29
Sodium	435	487	465	466		491		453		395	485	448
Iron (total)				8.99		3.5		0.14				
Total Suspended Solids				21		9		ND				

SUNNYSIDE COGENERATION ASSOCIATES
COARSE REFUSE SEEP MONITORING performed by Huntingdon

PARAMETER	30-Jun-93		27-Jul-94		26-Aug-94		2-Sep-93		27-Oct-94	
	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB
Temperature C	32.00	26	28	21.00	25	18.5	28.00	20	23.4	8.30
pH	6.77	7.6	7.25	7.87	6.81	6.5	7.12	7.92	6.98	7.5
Spec. Cond umhos	4600	4300	3200	4600	2800	2450	4600	4150	4700	3400
Disolved Oxygen mg/l	6.20	8.1	2.4	5.00	3.4	5.4	1.90	4.9	3.5	6.00

PARAMETER	16-Nov-94		9-Dec-93		13-Jan-94		28-Feb-94		31-Mar-94	
	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB
Temperature C	23.2	7.9	23.20	5.9	21.20	5.00	36.5	15.6	23.70	14.60
pH	6.86	7.1	6.93	7.94	7.08	8.17	6.74	7.9	6.51	7.61
Spec. Cond umhos	4850	3300	4310	3900	4750	3100	4470	4370	5400	3500
Disolved Oxygen mg/l	2.1	5.5	1.90	8.4	2.40	6.00	0.9	6.8	1.40	6.50

PARAMETER	19-Apr-94		31-May-94		23-Jun-94		21-Jul-94		22-Aug-94	
	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB
Flow gpm	10	38	8.5		8.5	40	8.5	40	7.1	36
Temperature C	26.90	19.30	23.60	14.1	37.20	20.90	26.90	20.40	27.50	24.20
pH	6.83	7.96	6.64	7.73	6.88	7.99	6.96	7.82	7.01	7.5
Spec. Cond umhos	4550	4890	4650	4600	5140	4950	5480	5200	5130	5130
Disolved Oxygen mg/l	3.20	7.40	1.90	9.00	1.50	7.20	1.30	6.80	1.20	7.30

PARAMETER	29-Sep-94		19-Oct-94	
	CRS	CRB	CRS	CRB
Flow gpm	8.5	40	8.5	48
Temperature C	26.20	21.80	21.10	13.00
pH	6.58	7.86	6.86	8.06
Spec. Cond umhos	5450	5180	5565	5320
Disolved Oxygen mg/l	1.20	7.80	2.30	7.80

PARAMETER	30-Jun-93		26-Oct-93		13-Jan-94		19-Apr-94		23-Jun-94	
mg/l	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB	CRS	CRB
Aluminum (dissolved)	0.6	0.6	0.5	0.5	<0.5	<0.5	<1.0	<1.0	0.2	<1.0
Arsenic (dissolved)	<0.002	<0.002	<0.002	<0.002	0.005	<0.002	<0.002	<0.002	0.002	<0.002
Boron (dissolved)	1	0.7	1.1	1	1	0.7	<1	<1	1.6	0.6
Cadmium (dissolved)	<0.003	<0.03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper (dissolved)	<0.02	<0.02	<0.02	<0.02	<0.10	<0.10	<0.2	<0.2	<0.2	<0.02
Iron (dissolved)	<0.12	<0.12	6.3		12	<0.25	4.63	<0.5	9.5	<0.25
Iron (total)	8.9	<0.12	47		21	<0.25	11	0.01	10.4	<0.15
Lead(dissolved)	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Manganese (dissolv)	1.75	<0.02	1.35		0.33	<0.20	1.9	0.2	1.08	<0.10
Manganese (total)	1.5	<0.02	2.2		0.6	<0.10	1.65	<0.10	1.56	<0.06
Molybdenum (dissolv)	<0.10	<0.10	<0.05	<0.05	<0.25	<0.25	<0.5	<0.5	<0.05	0.07
Selenium (dissolved)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Zinc (dissolved)	0.08	0.1	0.33	0.35	<0.10	<0.10	<0.2	<0.2	<0.02	0.03
Electrical Conductivity			5310	4860	4640	4890	5500	4960	5280	5160
Oil & Grease	<1	<1	<1	1	<1	<1	4	<1	<1	<1
Sulfide as S	<1	<1	<1	1	NA	NA	NA	NA	NA	NA
Total Settleable Solids	0.2	<0.1	<0.2	<0.2	0.4	<0.1	<0.1	<0.1	<0.1	<0.1
Total Dissolved Solids	5210	4610	5200	4700	4930	4320	4890	4620	4910	4490
Total Suspended Solids	15	<2	41	<5	16	<5	34	10	14	<5
Alkalinity-Bicarbonate	553	394	548	384	570	369	553	380	559	398
Alkalinity-Carbonate	0	0	0	0	0	0	0	0	0	0
Alkalinity-total	453	323	449	315	467	302	453	311	458	326
Chloride as Cl	97	131	96	116	97	121	101	134	105	166
Sulfate as SO4	3380	3010	2930	2710	3180	2780	2960	2630	3080	2820
Calcium as Ca	570	513	558	550	560	490	558	494	597	480
Hardness CaCO3	2845	2638	2800	2810	2800	2400	2890	2666	2980	2470
Magnesium as Mg	370	330	342	350	340	290	350	309	363	310
Sodium as Na	550	483	543	555	530	450	515	450	501	475
Ammonia as N	1.86	0.11	1.73	<0.05	2.11	<0.05	1.42	<0.05	1.26	<0.05
Nitrite as N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			<0.05	<0.05
Nitrate as N	0.38	1.34	0.68	0.05	0.22	1.33			0.37	0.44
Phosphorous (Total)	0.23	<0.02	0.33	1.07	0.76	<0.02	0.27	0.02	0.17	0.04

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

RECEIVED
JUL - 6 1993
ECKHOFF, WATSON & PREATOR
ENGINEERING

June 29, 1993

Mr. David Pearce
Sunnyside Cogeneration Associates
P.O. Box 58087
Salt Lake City, Utah 84158-0087

Dear Mr. Pearce:

Re: Water Monitoring Parameter Changes, Carbon and Emery County Mines

The Division has reviewed historical water monitoring data from active coal mines located in the Book Cliffs and Wasatch Plateau and has determined that some of the water monitoring parameters can be deleted. These parameters, along with the sampling methodology were discussed at the November 1992 Utah Coal Operator's meeting in Price. **The following parameters were selected for deletion: Acidity, Barium, Chromium, Fluoride, Mercury, Nickel, Silver, and Sulfide. Specific conductivity** was added to the laboratory analysis list for both surface and groundwater sites.

In addition, **the requirement to monitor both total and dissolved forms will be changed by deleting the total metals analysis and requiring only the dissolved forms. Iron and Manganese will still need to be analyzed for both total and dissolved.** The dissolved analysis will require that samples be filtered in the field into acidified bottles. Henceforth, the Division will expect that all future metals baseline samples will be filtered and acidified.

The Division will consider amendments to your water monitoring program for the above-noted water monitoring parameters. Other parameters may be considered for deletion from the water monitoring parameter list on a site specific basis. Justification for deletion must be included with an amendment to your plan and would involve analyzing the mine's historical water monitoring data to demonstrate that certain parameters are not being detected. Please note that UPDES monitoring requirements cannot be deleted or modified without prior approval from the Utah Division of Water Quality.

If you have any questions or comments, please call Ken Wyatt or me.

Sincerely,

Lowell P. Braxton

Lowell P. Braxton
Associate Director

WATMON

SUNNYSIDE COGENERATION ASSOCIATES

Carbon County, UT

EWP ENGINEERING

Salt Lake City, UT

COARSE REFUSE SEEP MONITORING

V-NOTCH WEIR AT SOURCE (CRS)

Date	Time	Personel	Weather	Flow (feet)	Flow (gpm)	Temp C	pH	SC mS ~~(umhos)~~	DO (mg/l)
5/19/94	1600	J.C.	PTLY CLDY 65°	0.14	8.5	25.5	6.8	5.5	4.2
5/27/94	1315	J.C.	PTLY CLDY 70°	0.16	12.0	25.8	6.6	5.6	3.6
6/8/94	1050	J.C.	CLEAR 60°	0.14	8.5	24.4	6.6	5.5	4.0
6/16/94	1338	J.C.	CLEAR 75°	0.13	7.1	26.97	6.6	5.48	3.8
6/23/94	1615	J.C.	CLEAR 80°	0.13	7.1	27.92	6.6	5.5	2.6
6/30/94	0855	J.C.	CLEAR 70°	0.13	7.1	24.32	6.7	5.5	1.1
7/8/94	1115	J.C	CLEAR 78°	0.13	7.1	25.61	6.8	5.5	1.2
7/14/94	1250	J.C	CLEAR 85°	0.13	7.1	26.01	6.6	5.5	1.9
7/21/94	1415	J.C.	CLEAR 90°	0.13	7.1	26.6	6.8	5.5	1.5
7/29/94	0945	J.C.	CLEAR 80°	0.13	7.1	25.27	6.9	5.56	1.0
8/4/94	1005	J.C.	CLEAR 80°	0.14	8.5	25.52	6.9	5.5	1.1
8/11/94	1035	J.C.	CLEAR 80°	0.13	7.1	25.18	6.9	5.5	1.4
8/19/94	1005	J.C.	CLOUDY 70°	0.13	7.1	24.6	6.9	5.5	2.0
8/26/94	0915	J.C	CLEAR 75°	0.13	7.1	23.9	6.9	5.5	1.5
8/31/94	1630	J.C.	CLEAR 80°	0.12	5.8	25.6	6.9	5.5	1.2
9/9/94	1035	J.C.	CLEAR 70°	0.12	5.8	24.9	7.0	5.5	1.5
9/16/94	1030	J.C.	CLEAR 70°	0.12	5.8	23.3	7.2	5.5	1.6
9/20/94	1435	J.Martin	Cloudy/rain 65	0.14	8.5	23.71	7.12	5.48	1.57
9/28/94	1010	J.C.	CLOUDY/RAIN 65°	0.13	7.1	24.3	7.2	5.5	1.4
10/6/94	1240	J.C.	PTLY CLDY 55°	0.14	8.5	22.8	7.2	5.5	1.4
10/13/94	1030	J.C	CLEAR 50°	0.13	7.1	22.7	7.3	5.5	1.6
10/21/94	1300	J.C.	CLEAR 50°	0.13	7.1	23.1	7.3	5.5	1.5
10/28/94	1020	J.C.	CLEAR 50°	0.11	4.7	22.1	7.4	5.0	1.6
11/4/94	1000	J.C	CLDY 45°	0.11	4.7	22.3	7.3	5.4	1.5
11/9/94	1445	J.C	CLEAR 50°	0.11	4.7	22.4	7.4	5.5	1.6

SUNNYSIDE COGENERATION ASSOCIATES

Carbon County, UT

EWP ENGINEERING

Salt Lake City, UT

COARSE REFUSE SEEP MONITORING **V-NOTCH WEIR @ CULVERT (CRC)**

Date	Time	Personel	Weather	Flow (feet)	Flow (gpm)	Temp C	pH	SC mS ~~(umhos)~~	DO (mg/l)
5/19/94	1630	J.C.	PTLY CLDY 65°	.23	29	15.92	7.60	5.62	6.15
5/27/94	1330	J.C.	PTLY CLDY 70°	.25	36	17.79	7.2	5.6	6.04
6/8/94	1100	J.C	CLEAR 60°	.26	40	16.97	7.3	5.6	7.00
6/16/94	1323	J.C	CLEAR 75°	.23	29	19.06	7.3	5.62	6.33
6/23/94	1630	J.C.	CLEAR 80°	.23	29	20.37	7.3	5.6	5.5
6/30/94	0910	J.C	CLEAR 70°	.24	32	18.10	7.3	5.66	5.6
7/8/94	1125	J.C.	CLEAR 78°	.24	32	18.8	7.4	5.67	5.7
7/14/94	1300	J.C	CLEAR 85°	.24	32	20.3	7.4	5.68	5.7
7/21/94	1445	J.C	CLEAR 90°	.23	29	21.2	7.5	5.7	5.0
7/29/94	1000	J.C	CLEAR 80°	.24	32	19.8	7.5	5.7	5.3
8/4/94	1020	J.C.	CLEAR 80°	.24	32	20.6	7.5	5.8	5.2
8/11/94	1050	J.C	CLEAR 80°	.24	32	19.7	7.6	5.7	5.1
8/19/94	1020	J.C.	CLOUDY 70°	.24	32	19.4	7.6	5.7	5.8
8/26/94	0930	J.C.	CLEAR 75°	.24	32	19.5	7.6	5.7	5.3
8/31/94	1645	J.C	CLEAR 80°	.24	32	20.7	7.6	5.8	5.2
* 9/9/94	1050	J.C.	CLEAR 70°	.28	48	20.1	7.5	5.2	4.9
* 9/16/94	1045	J.C.	CLEAR 70°	.28	48	18.0	7.8	5.6	6.0
* 9/29/94	1530	J. Martin	Cloudy/Rain 65°	.27	52	17.80	7.98	5.51	6.10
9/29/94	1030	J.C.	CLOUDY/RAIN 65°	.24	32	18.7	7.8	5.7	5.3
10/6/94	1300	J.C.	PTLY CLDY 55°	.24	32	16.7	7.9	5.7	5.5
10/13/94	1045	J.C.	CLEAR 50°	.24	32	17.8	7.9	5.7	5.4
10/21/94	1320	J.C.	CLEAR 50°	.24	32	14.9	8.3	5.7	7.0
10/28/94	1035	J.C.	CLEAR 50°	.23	29	15.2	7.9	5.7	5.8
11/4/95	1015	J.C.	CLDY 45°	.23	29	14.7	7.9	5.7	5.9
11/9/95	1500	J.C.	CLEAR 50°	.23	29	14.4	7.9	5.7	5.8

* NOTE: AREA IN FRONT OF WEIR HAS BEEN FILLED IN WITH SEDIMENT RESULTING FROM STORM THAT TOOK PLACE ON 9-2-94 1" OF RAIN IN ONE HOUR WAS RECORDED AT SUNNYSIDE WEATHER STA. FLOW IS NOT ACCURATE AT TIME OF MONITORING. POOL NEEDS TO BE CLEANED OUT IN FRONT OF WIER. J.C. 9.9.94

SUNNYSIDE COGENERATION ASSOCIATES

Carbon County, UT

EWP ENGINEERING

Salt Lake City, UT

COARSE REFUSE SEEP MONITORING **V-NOTCH WEIR @ BOUNDARY (CRB)**

Date	Time	Personel	Weather	Flow (feet)	Flow (gpm)	Temp C	pH	SC (~~umhos~~ mS)	DO (mg/l)
5/19/94	1650	J.C	PTLY CLDY 65°	.28	48	15.55	8.1	5.18	7.64
5/27/94	1400	J.C.	PTLY CLDY 70°	.29	52	16.77	7.8	5.07	6.87
6/8/94	1120	J.C.	CLEAR 60°	.28	48	15.50	7.8	5.30	8.0
6/16/94	1307	J.C.	CLEAR 75°	.26	40	19.62	7.8	5.28	7.61
6/23/94	1645	J.C.	CLEAR 80°	.25	36	22.75	7.8	5.29	6.4
6/30/94	0930	J.C.	CLEAR 70°	.26	40	15.90	7.9	5.4	7.3
7/8/94	1140	J.C.	CLEAR 78°	.26	40	17.6	8.06	5.4	7.4
7/14/94	1320	J.C.	CLEAR 85°	.24	32	19.75	7.98	5.4	7.02
7/21/94	1520	J.C.	CLEAR 90°	.22	26	22.6	7.9	5.4	~~7.4~~ 6.4
7/28/94	1020	J.C.	CLEAR 80°	.28	48	17.5	8.1	5.5	7.3
8/4/94	1040	J.C.	CLEAR 80°	.25	36	18.3	8.2	5.5	6.6
8/11/94	1110	J.C.	CLEAR 80°	.28	48	18.5	8.2	5.6	6.8
8/19/94	1035	J.C.	CLOUDY 70°	.25	36	17.2	8.2	5.6	6.9
8/26/94	0945	J.C.	CLEAR 75°	.23	29	16.1	8.2	5.6	6.9
8/31/94	1700	J.C.	CLEAR 80°	.22	26	20.3	8.2	5.6	7.4
9/9/94	1115	J.C	CLEAR 75°	.28	48	17.6	8.3	5.5	7.2
9/16/94	1100	J.C	CLEAR 70°	.26	40	14.2	8.4	5.5	7.8
9/20/94	1630	J.Martin	Pt. Cldy 65°	.26	40	15.95	8.34	5.47	7.60
9/27/94	1045	J.C.	CLOUDY/RAIN 65°	.26	40	15.00	8.4	5.5	7.5
10/6/94	1315	J.C.	PTLY CLDY 55°	.26	40	12.7	8.5	5.5	8.5
10/13/94	1110	J.C.	CLEAR 50°	.25	36	13.0	8.5	5.5	7.7
10/21/94	1340	J.C	CLEAR 50°	.26	40	12.6	8.6	5.4	8.3
10/28/94	0950	J.C.	CLEAR 50°	.26	40	9.9	8.6	5.5	8.4
11/4/94	1030	J.C	CLDY 45°	.26	40	~~9.0~~ 9.1	8.5	5.4	8.1
11/9/94	1515	J.C	CLEAR 50°	.26	40	9.0	8.7	5.5	8.6

Mountain States Analytical

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NOV 14 1994

ECKHOFF, WATSON & PREATOR ENGINEERING

November 9, 1994

Mr. Scott Carlson
Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Reference:
Project: Sunnyside
Project No.: EC450593
MSAI Group: 6408

Dear Mr. Carlson:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

CRS	CRC	CRB
CRS Dissolved	CRC Dissolved	CRB Dissolved

All holding times were met for the tests performed on these samples.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager

Analytical Report

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Attn: Mr. Scott Carlson
Project: Sunnyside

Sample ID: CRS
Matrix: Waste Water

MSAI Sample: 26143
MSAI Group: 6408
Date Reported: 11/09/94

Discard Date: 12/09/94
Date Submitted: 10/28/94
Date Sampled: 10/27/94
Collected by: JC
Purchase Order:
Project No.: EC450593

Test	Analysis	Results as Received	Units	Limit of Quantitation
0248A	Boron by ICP Method: SW-846 6010A	1.10	mg/l	0.10
7243	Aluminum by ICP Method: SW-846 6010A	ND	mg/l	0.20
7250	Calcium by ICP Method: SW-846 6010A	500	mg/l	1.0
7253	Copper by ICP Method: SW-846 6010A	ND	mg/l	0.02
7254	Iron by ICP Method: SW-846 6010A	8.73	mg/l	0.10
7257	Magnesium by ICP Method: SW-846 6010A	316	mg/l	1.0
7258	Manganese by ICP Method: SW-846 6010A	1.45	mg/l	0.02
7261	Nickel by ICP Method: SW-846 6010A	ND	mg/l	0.040
7262	Potassium by ICP Method: SW-846 6010A	37.0	mg/l	1.0
7267	Sodium by ICP Method: SW-846 6010A	455	mg/l	10
0201	Alkalinity as $CaCO_3$ (pH 4.5) Method: EPA 310.1 Bicarbonate	486	mg/l	1

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering

MSAI Sample: 26143
MSAI Group: 6408

Sample ID: CRS

Test	Analysis	Results as Received	Units	Limit of Quantitation
0201	Alkalinity as CaCO3 (pH 4.5) Method: EPA 310.1			
	Carbonate	ND	mg/l	1
	Hydroxide	ND	mg/l	1
0206	Solids, Total Suspended (TSS) Method: EPA 160.2	20	mg/l	4
0212	Solids, Total Dissolved Method: EPA 160.1	5,450	mg/l	10
0216	Hardness as CaCO3 - Titrimetric Method: EPA 130.2	2,850	mg/l	5
0221	Nitrogen, Ammonia by distillation Method: EPA 350.2	1.7	mg/l	0.5
0475	Acidity (to pH 3.7 and 8.3) Method: EPA 305.1	59	mg/l	
1125	Sulfate, Turbidimetric Method: EPA 375.4	4,220	mg/l	2

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119 (801)973-0050 1-800-973-MSAI FAX (801)973-6278

MEMBER ACIL

Analytical Report

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Attn: Mr. Scott Carlson
Project: Sunnyside

Sample ID: CRC
Matrix: Waste Water

MSAI Sample: 26144
MSAI Group: 6408
Date Reported: 11/09/94

Discard Date: 12/09/94
Date Submitted: 10/28/94
Date Sampled: 10/27/94
Collected by: JC
Purchase Order:
Project No.: EC450593

Test	Analysis	Results as Received	Units	Limit of Quantitation
0248A	Boron by ICP Method: SW-846 6010A	1.08	mg/l	0.10
7243	Aluminum by ICP Method: SW-846 6010A	ND	mg/l	0.20
7250	Calcium by ICP Method: SW-846 6010A	493	mg/l	1.0
7253	Copper by ICP Method: SW-846 6010A	ND	mg/l	0.02
7254	Iron by ICP Method: SW-846 6010A	4.48	mg/l	0.10
7257	Magnesium by ICP Method: SW-846 6010A	344	mg/l	1.0
7258	Manganese by ICP Method: SW-846 6010A	1.14	mg/l	0.02
7261	Nickel by ICP Method: SW-846 6010A	ND	mg/l	0.040
7262	Potassium by ICP Method: SW-846 6010A	36.6	mg/l	1.0
7267	Sodium by ICP Method: SW-846 6010A	486	mg/l	10
0201	Alkalinity as $CaCO_3$ (pH 4.5) Method: EPA 310.1 Bicarbonate	424	mg/l	1

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering

MSAI Sample: 26144
MSAI Group: 6408

Sample ID: CRC

Test	Analysis	Results as Received	Units	Limit of Quantitation
0201	Alkalinity as CaCO3 (pH 4.5) Method: EPA 310.1			
	Carbonate	ND	mg/l	1
	Hydroxide	ND	mg/l	1
0206	Solids, Total Suspended (TSS) Method: EPA 160.2	29	mg/l	4
0212	Solids, Total Dissolved Method: EPA 160.1	5,520	mg/l	10
0216	Hardness as CaCO3 - Titrimetric Method: EPA 130.2	2,860	mg/l	5
0221	Nitrogen, Ammonia by distillation Method: EPA 350.2	ND	mg/l	0.5
0475	Acidity (to pH 3.7 and 8.3) Method: EPA 305.1	31	mg/l	
1125	Sulfate, Turbidimetric Method: EPA 375.4	2,650	mg/l	2

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119 (801)973-0050 1-800-973-MSAI FAX (801)973-6278

MEMBER ACIL

Analytical Report

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Attn: Mr. Scott Carlson
Project: Sunnyside

Sample ID: CRB
Matrix: Waste Water

MSAI Sample: 26145
MSAI Group: 6408
Date Reported: 11/09/94

Discard Date: 12/09/94
Date Submitted: 10/28/94
Date Sampled: 10/27/94
Collected by: JC
Purchase Order:
Project No.: EC450593

Test	Analysis	Results as Received	Units	Limit of Quantitation
0248A	Boron by ICP Method: SW-846 6010A	0.85	mg/l	0.10
7243	Aluminum by ICP Method: SW-846 6010A	ND	mg/l	0.20
7250	Calcium by ICP Method: SW-846 6010A	454	mg/l	1.0
7253	Copper by ICP Method: SW-846 6010A	ND	mg/l	0.02
7254	Iron by ICP Method: SW-846 6010A	0.12	mg/l	0.10
7257	Magnesium by ICP Method: SW-846 6010A	303	mg/l	1.0
7258	Manganese by ICP Method: SW-846 6010A	0.21	mg/l	0.02
7261	Nickel by ICP Method: SW-846 6010A	ND	mg/l	0.040
7262	Potassium by ICP Method: SW-846 6010A	27.8	mg/l	1.0
7267	Sodium by ICP Method: SW-846 6010A	428	mg/l	10
0201	Alkalinity as CaCO3 (pH 4.5) Method: EPA 310.1 Bicarbonate	348	mg/l	1

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering

MSAI Sample: 26145
MSAI Group: 6408

Sample ID: CRB

Test	Analysis	Results as Received	Units	Limit of Quantitation
0201	Alkalinity as CaCO3 (pH 4.5) Method: EPA 310.1			
	Carbonate	ND	mg/l	1
	Hydroxide	ND	mg/l	1
0206	Solids, Total Suspended (TSS) Method: EPA 160.2	ND	mg/l	4
0212	Solids, Total Dissolved Method: EPA 160.1	5,190	mg/l	10
0216	Hardness as CaCO3 - Titrimetric Method: EPA 130.2	2,740	mg/l	5
0221	Nitrogen, Ammonia by distillation Method: EPA 350.2	ND	mg/l	0.5
0475	Acidity (to pH 3.7 and 8.3) Method: EPA 305.1	2	mg/l	
1125	Sulfate, Turbidimetric Method: EPA 375.4	2,590	mg/l	2

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119 (801)973-0050 1-800-973-MSAI FAX (801)973-6278

MEMBER ACIL

Analytical Report

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Attn: Mr. Scott Carlson
Project: Sunnyside

Sample ID: CRS Dissolved
Matrix: Waste Water

MSAI Sample: 26146
MSAI Group: 6408
Date Reported: 11/09/94

Discard Date: 12/09/94
Date Submitted: 10/28/94
Date Sampled: 10/27/94
Collected by: JC
Purchase Order:
Project No.: EC450593

Test	Analysis	Results as Received	Units	Limit of Quantitation
0243D	Aluminum by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.2
0248D	Boron by ICP, Dissolved Method: SW-846 6010A	0.96	mg/l	0.10
0250D	Calcium by ICP, Dissolved Method: SW-846 6010A	432	mg/L	1.0
0253F	Copper by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.02
0254F	Iron by ICP, Dissolved Method: SW-846 6010A	0.18	mg/l	0.10
0257D	Magnesium by ICP, Dissolved Method: SW-846 6010A	274	mg/L	1.0
0258F	Manganese by ICP, Dissolved Method: SW-846 6010A	1.26	mg/l	0.02
0261F	Nickel by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.04
0262D	Potassium by ICP, Dissolved Method: SW-846 6010A	32.0	mg/L	1.0
0267F	Sodium by ICP, Dissolved Method: SW-846 6010A	395	mg/l	1

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering

MSAI Sample: 26146
MSAI Group: 6408

Sample ID: CRS Dissolved

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119 (801)973-0050 1-800-973-MSAI FAX (801)973-6278

MEMBER ACIL

Analytical Report

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Attn: Mr. Scott Carlson
Project: Sunnyside

Sample ID: CRC Dissolved
Matrix: Waste Water

MSAI Sample: 26148
MSAI Group: 6408
Date Reported: 11/09/94

Discard Date: 12/09/94
Date Submitted: 10/28/94
Date Sampled: 10/27/94
Collected by: JC
Purchase Order:
Project No.: EC450593

Test	Analysis	Results as Received	Units	Limit of Quantitation
0243D	Aluminum by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.2
0248D	Boron by ICP, Dissolved Method: SW-846 6010A	1.13	mg/l	0.10
0250D	Calcium by ICP, Dissolved Method: SW-846 6010A	473	mg/L	1.0
0253F	Copper by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.02
0254F	Iron by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.10
0257D	Magnesium by ICP, Dissolved Method: SW-846 6010A	340	mg/L	1.0
0258F	Manganese by ICP, Dissolved Method: SW-846 6010A	1.32	mg/l	0.02
0261F	Nickel by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.04
0262D	Potassium by ICP, Dissolved Method: SW-846 6010A	38.1	mg/L	1.0
0267F	Sodium by ICP, Dissolved Method: SW-846 6010A	485	mg/l	1

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering

MSAI Sample: 26148
MSAI Group: 6408

Sample ID: CRC Dissolved

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119 (801)973-0050 1-800-973-MSAI FAX (801)973-6278

MEMBER ACIL

Analytical Report

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering
1121 East 3900 South
Suite C100
Salt Lake City, UT 84124

Attn: Mr. Scott Carlson
Project: Sunnyside

Sample ID: CRB Dissolved
Matrix: Waste Water

MSAI Sample: 26149
MSAI Group: 6408
Date Reported: 11/09/94

Discard Date: 12/09/94
Date Submitted: 10/28/94
Date Sampled: 10/27/94
Collected by: JC
Purchase Order:
Project No.: EC450593

Test	Analysis	Results as Received	Units	Limit of Quantitation
0243D	Aluminum by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.2
0248D	Boron by ICP, Dissolved Method: SW-846 6010A	0.88	mg/l	0.10
0250D	Calcium by ICP, Dissolved Method: SW-846 6010A	469	mg/L	1.0
0253F	Copper by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.02
0254F	Iron by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.10
0257D	Magnesium by ICP, Dissolved Method: SW-846 6010A	316	mg/L	1.0
0258F	Manganese by ICP, Dissolved Method: SW-846 6010A	0.22	mg/l	0.02
0261F	Nickel by ICP, Dissolved Method: SW-846 6010A	ND	mg/l	0.04
0262D	Potassium by ICP, Dissolved Method: SW-846 6010A	29.0	mg/L	1.0
0267F	Sodium by ICP, Dissolved Method: SW-846 6010A	448	mg/l	1

Mountain States Analytical
The Quality Solution

Eckhoff, Watson & Preator Engineering

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Sample ID: CRB Dissolved

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119 (801)973-0050 1-800-973-MSAI FAX (801)973-6278

MEMBER ACIL

Mountain States Analytical

№ 4155

Sample Chain of Custody

Client Name: E.W.P. ENGINEERING P.O. #

Phone #: 261-0090 Fax #:

Project Name/#: SUNNYSIDE EC45 0593

Sampler: J. Comas

CONTACT AT E.W.P. OFFICE - SCOTT CARLSON

Analysis Required: COARSE REFUSE SEEP

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total of Containers									Rush?	Remarks	Temp. of Samples Upon Receipt
CRS	10-27-94	1430	✓			✓		4											
CRC	10-27-94	1445	✓			✓		4											
CRB	10-27-94	1530	✓			✓		4											

Name of Shipper	Airbill No.	Date	Time

Received By (Lab)	Date	Time	Seals Intact?
[illegible]	10/28/94	1535	N/A

Sample relinquished by:	Date	Time	Sample received by:	Date	Time
J. Comas	10.28.94	1535			

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAI approval and surcharge)

Report Results By: (Date)

Rush results requested by (please circle): Phone Fax

Report Results to:

Type of Disposal:

Authorized for Disposal by:

Date/Time of Disposal:

Disposed of by:

1645 West 2200 South, Salt Lake City, Utah 84119 (801) 973-0050 FAX (801) 972-6278

White Copy - Original Retain by Lab Yellow Copy - Return to Customer Pink Copy - Retain by Sampler