

Sunnyside Cogeneration Associates

P.O. Box 159 • Sunnyside, Utah 84539 • (435) 888-4476 • Fax (435) 888-2538

January 15, 2024

Brian Speer
Solid Waste Program Manager
195 North 1950 West
Salt Lake City, Utah 84116

RE: Sunnyside Cogeneration Associates (SCA)
SCA #2 Ash Landfill
CCR Annual Ground Water Report

Dear Mr. Speer:

Please find attached SCA's CCR Annual Ground Water Report. Monitoring wells MW-8, MW-9, MW-10 and MW-11, were sampled on May 10, 2023 and November 21, 2023, in accordance with Federal regulations under 40CFR 257 and State regulations under R315-319.

Water samples were collected at MW-8 only, since MW-9, MW-10 and MW-11 were dry wells. MW-8 sampling results were well within permit protection limits for both sampling events.

SCA will post this annual report on its CCR web site.

Enclosures:

Table 1:

CCR Ground Water Analysis for year 2023

Table 2:

CCR Monitoring Well Parameters for year 2023

SCA #2 Ash Landfill
CCR Annual Ground Water Report
Page 2:

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

Thank You,

A handwritten signature in black ink that reads "Edward McCourt". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Edward McCourt
Agent for
Sunnyside Cogeneration Associates

Cc: Rusty Netz
Plant File

ing Wells

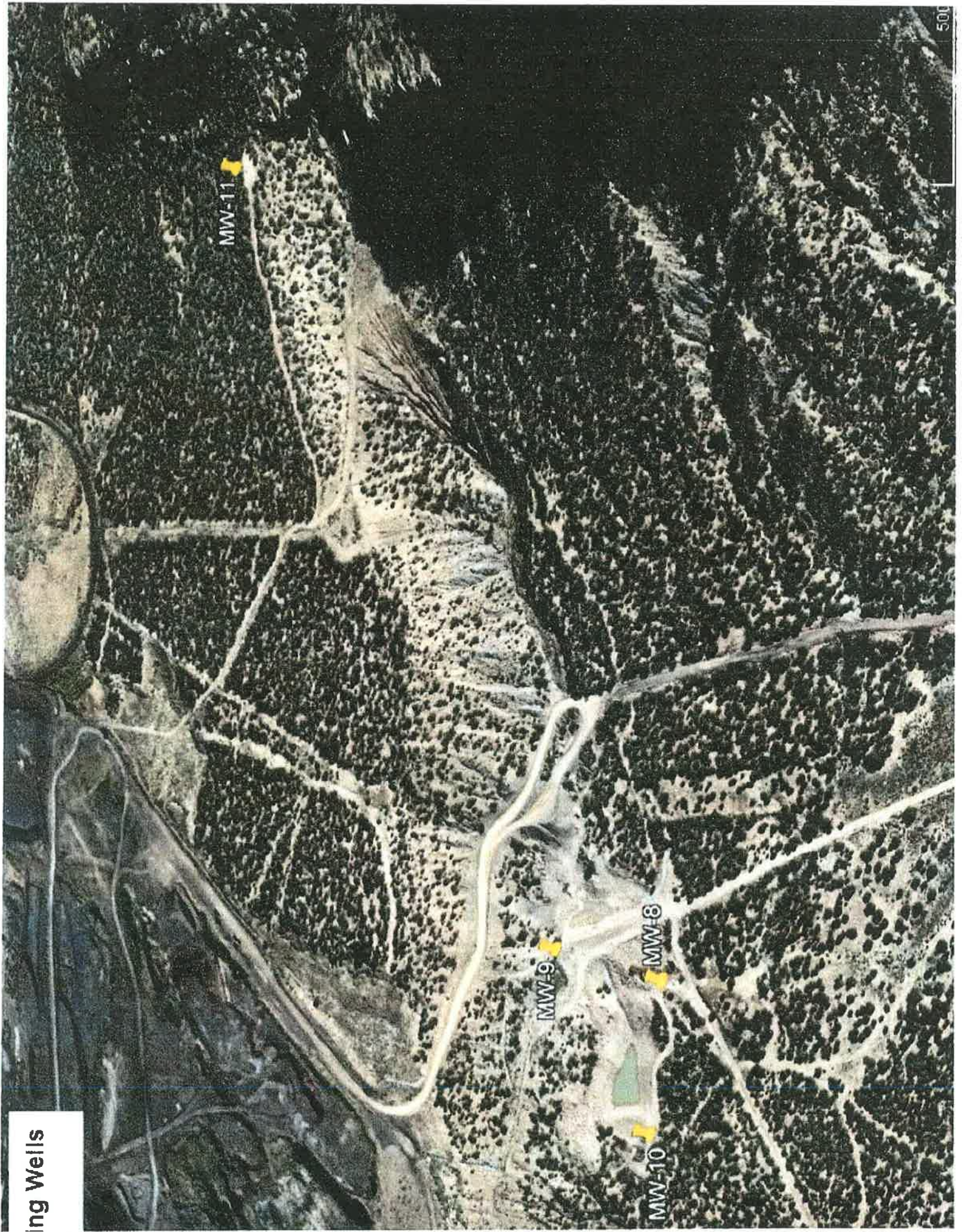


TABLE 1

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling

First half of 2023
Sampling Date: 5/10/23

Sample Location	Field Parameters				Metals(mg/l)						
	Temp. (C)	pH (S.U.)	SC (umhos)		Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
Permit Background Values	N.A.	N.A.	N.A.		0.35	422	261	0.6	7.2	6743	11013
Permit Protection Levels	N.A.	N.A.	N.A.		0.46	510.70	394.2	1.42	7.96	7988	12659
MW-8	12.9	7.06	8454		0.29	328	218	0.194	7.2	6000	10600
MW-9	NW	NW	NW		NW	NW	NW	NW	NW	NW	NW
MW-10	NW	NW	NW		NW	NW	NW	NW	NW	NW	NW
MW-11	NW	NW	NW		NW	NW	NW	NW	NW	NW	NW

NW= No water present in well
NA= Non-Applicable
ND=NoN-Detect

TABLE 2

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling First Half 2023

Date: May 10, 2023
 GROUND WATER WELLS:
 Casing Diameter (Inches) 2
 Casing Type: PVC

LOCATION	Monitoring Well	Personnel	Weather	Static Water Level (ft.)	Total Well Depth (ft.)	Calculated Purge Volume (gals.)	Purge Method	Purge Volume (gals.)	Field Parameters		
									Temp. (C)	pH (su)	SC (um)
SCA #2 Ash Landfill	MW-8	R. Netz	Clear	17.9	50.0	15.6	PUMP	15.0	12.9	7.06	8464
SCA #2 Ash Landfill	MW-9	R. Netz	Clear	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-10	R. Netz	Clear	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-11	R. Netz	Clear	NW	65.0	NW	NW	NW	NW	NW	NW

Purge volume (gallons) = ((well depth-static water level)/25) x (casing dia.)² x 3

NW- NO Water Present in well

NS=No Sample Taken



Certificate of Analysis

Sunnyside Cogeneration
Rusty Netz
PO Box 10
East Carbon, UT 84520

PO#:
Receipt: 5/12/23 10:30 @ 18.6 °C
Date Reported: 5/31/2023
Project Name: CCR Sampling

Sample ID: MW-8
Matrix: Water
Date Sampled: 5/10/23 10:30

Sampled By: Client

Lab ID: 23E1121-01

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Chloride	218	mg/L	50.0	EPA 300.0	5/16/23	5/16/23	
Fluoride	0.194	mg/L	0.100	EPA 300.0	5/16/23	5/16/23	
pH	7.2	pH Units	0.1	SM 4500 H-B	5/12/23 10:53	5/12/23 11:53	SPH
Sulfate	6000	mg/L	100	EPA 300.0	5/17/23	5/17/23	
Total Dissolved Solids (TDS)	10800	mg/L	50	SM 2540 C	5/23/23	5/23/23	
Metals							
Boron, Total	0.29	mg/L	0.05	EPA 200.7	5/19/23	5/19/23	
Calcium, Total	328	mg/L	0.2	EPA 200.7	5/19/23	5/19/23	



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Certificate of Analysis

Sunnyside Cogeneration
Rusty Netz
PO Box 10
East Carbon, UT 84520

PO#:
Receipt: 5/12/23 10:30 @ 18.6 °C
Date Reported: 5/31/2023
Project Name: **CCR Sampling**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).
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.
On calculated parameters, there may be a slight difference between summing the rounded values shown on the report vs the unrounded values used in the calculation.

File Descriptions

SPH - Sample submitted past method specified holding time.

TABLE 1

Sunnyside Cogeneration Associates Facility SCA #2 CCR Ash Landfill Groundwater Compliance Sampling

Second half of 2023
Sampling Date: 11/21/23

Sample Location	Field Parameters				Metals(mg/l)					
	Temp. (C)	pH (S.U.)	SC (umhos)	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	TDS
Permit Background Values	N.A.	N.A.	N.A.	0.35	422	251	0.6	7.2	6743	11013
Permit Protection Levels	N.A.	N.A.	N.A.	0.46	510.70	394.2	1.42	7.98	7988	12659
MW-8	12.7	7.25	8369	0.28	292	254	0.277	7.1	6380	12100
MW-9	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
MW-10	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
MW-11	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW

NW= No water present in well
NA= Non-Applicable
ND=NoN-Detect

TABLE 2
Sunnyside Cogeneration Associates Facility
SCA #2 CCR Ash Landfill Groundwater Compliance Sampling
Second Half 2023

Date: November 21, 2023

GROUND WATER WELLS:

Casing Diameter (inches) 2

Casing Type: PVC

LOCATION	Monitoring Well	Personnel	Weather	Static Water Level (ft.)	Total Well Depth (ft.)	Calculated Purge Volume (gals.)	Purge Method	Purge Volume (gals.)	Field Parameters		
									Temp. (C)	pH (su)	SC (um)
SCA #2 Ash Landfill	MW-8	R. Netz	cold	18.3	50.0	15.2	PUMP	15.2	12.7	7.25	8359
SCA #2 Ash Landfill	MW-9	R. Netz	cold	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-10	R. Netz	cold	NW	50.0	NW	NW	NW	NW	NW	NW
SCA #2 Ash Landfill	MW-11	R. Netz	cold	NW	65.0	NW	NW	NW	NW	NW	NW

Purge volume (gallons) = ((well depth-static water level)/2.8) x (casing dia.)² x 3
 NW- NO Water Present in well
 NS=No Sample Taken



Certificate of Analysis

Sunnyside Cogeneration
Rusty Netz
PO Box 10
East Carbon, UT 84520

PO#: _____
Receipt: 11/22/23 9:46 @ 5.9 °C
Date Reported: 12/1/2023
Project Name: CCR for #2 Landfill

Sample ID: MW-8

Matrix: Water

Lab ID: 23K1864-01

Date Sampled: 11/21/23 10:45

Sampled By: Client

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Chloride	254	mg/L	10.0	EPA 300.0	11/27/23	11/27/23	
Fluoride	0.277	mg/L	0.100	EPA 300.0	11/27/23	11/27/23	
pH	7.1	pH Units	0.1	SM 4500 H-B	11/22/23 15:25	11/22/23 15:50	SPH
Sulfate	6380	mg/L	100	EPA 300.0	11/28/23	11/28/23	
Total Dissolved Solids (TDS)	12100	mg/L	500	SM 2540 C	11/22/23	11/22/23	
Metals							
Boron, Total	0.28	mg/L	0.05	EPA 200.7/200.2	11/29/23	11/29/23	
Calcium, Total	292	mg/L	0.2	EPA 200.7/200.2	11/29/23	11/29/23	



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Rusty Netz
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East Carbon, UT 84520

PO#:
Receipt: 11/22/23 9:46 @ 5.9 °C
Date Reported: 12/1/2023
Project Name: CCR for #2 Landfill

Report Footnotes

Abbreviations

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1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

On calculated parameters, there may be a slight difference between summing the rounded values shown on the report vs the unrounded values used in the calculation.

Flag Descriptions

SPH = Sample submitted past method specified holding time.

CHEMTECH - FORD ANALYTICAL LABORATORY

CHAIN OF CUSTODY

COMPANY:

SCA *Southside Wagon*

ADDRESS:

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

PHONE #:

435/636/6806

CONTACT:

Rusty Nitz

EMAIL:

FAX:

PROJECT: CCR for #2
handfill



CHEMTECH-FORD

TURNAROUND REQUIRED:*

* Expedient turnaround subject to additional charge

TESTS REQUESTED	TESTS PERFORMED
CCR for #2 Landfill	Hot Columns - Cont. Present/Absent Hot Columns - Leach (Numerical) Hot Columns - Vol. (Numerical)

Lab Use Only	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX	LAB USE ONLY
01	MW-8	11/21/23	1045		

CLIENT SAMPLE INFORMATION
AS 1248 M 13.3

Sample Receipt Conditions:

- Custody Seals Present
- Containers Intact
- VOC and Labels Match
- Received on Ice
- Correct Containers
- DOC Included
- DOC Complete
- Sufficient Sample Volume
- Checked by *A*

Requested by (Print)

Specimen Instructions

Received by (Signature): *Rusty Nitz*

Date/Time: 11/21/23 1200

Temp (C): *15.9*

Temp (F): *60.8*

ON ICE NOT ON ICE

Received by (Signature): *[Signature]*

Date/Time: 11/21/23 940

Requested by (Signature)

Date/Time

Received by (Signature)

Date/Time

801.262.7259 PHONE

866.792.0693 FAX

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9832 Soeth 500 West

Sandy, UT 84070

Client agrees to pay collection costs and attorney's fees - 221133-37007