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C/007/0035
Received 3/27/15
Task ID #4855

Annual Report

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAL INFORMATION

Company Name	Sunnyside Cogeneration Associates	Mine Name	Sunnyside Refuse and Slurry
Permit Number	C/007/0035	Permit expiration Date	2018-02-04
Operator Name	Plant Manager - Gerald Hascall	Phone Number	+1 (435) 888-4476
Mailing Address	PO Box 159	Email	
City	Sunnyside		
State	UT	Zip Code	84539

DOGM File Location or Annual Report Location

Excess Spoil Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Submitted quarterly to DOGM
Refuse Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Submitted quarterly to DOGM
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	Submitted quarterly to DOGM
Other:		

OPERATOR COMMENTS

Quarterly inspections of the impoundments, refuse pile and excess spoil piles were completed during 2014 and submitted to DOGM. All impoundments performed as designed with no discharges during 2014. The refuse Pile is being excavated as intended and the Disposal Areas are being constructed in conformance with the approved plan SCA received renewal of its Title V air permit in 2013 UPDES permit was renewed in 2013

REVIEWER COMMENTS

Met Requirements Did Not meet Requirements

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: ANNUAL RECLAMATION

Objective: To reclaim areas no longer needed for mining activities and to reduce the acreage under the currency reclamation cost estimate.

Frequency: Annually

Status: Ongoing, excess spoil pile #2 may have reached designed capacity in 2010.

Reports: Annual- Summary of Reclamation work and include vegetation monitoring reports (if any).

Citation: MRP, Book 6, Chapter 9, page 900-25, section 9.12, paragraph 2.

Operator Comments

The Phase 1 portion of the Excess Spoil Disposal Area #2 (which reached designed capacity) was reclaimed in 2011. Due to low precipitation in 2012, SCA seeded again in Fall 2012. Vegetation cover appears to be improving. SCA may request Phase 1 bond release for this area.

No other areas within the permit boundary are ready for reclamation.

Reviewer Comments Met Requirements Did Not Meet Requirements

Title: EXCESS SPOIL (REFUSE) SAMPLING

Objective: To evaluate the chemistry of the waste rock for the purpose of determining final cover depth requirement per R-645-301-553.252.

Frequency: After completion of each 2-4 ft. lift.

Status: Ongoing.

Reports: Annual report

Citation: MRP, Chapter 9, page 900-12 and Appendices 9.5 and 9-7.

Operator Comments

SCA completed sampling of material placed in the Excess Spoil Disposal Area #1 in 2014. Samples were composited and tested at BYU soils lab for parameters and methods as directed by the Division. Test results are included with this Annual Report and also submitted to the Division with the 1st Quarter 2015 Inspection Reports.

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Reviewer Comments Met Requirements Did Not Meet Requirements

Empty main content box



FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: REFUSE SAMPLING PRIOR TO FINAL RECLAMATION

Objective: To sample the remainder of the refuse and slurry areas for acid/toxic parameters prior to final reclamation.

Frequency: Final Reclamation

Status: Ongoing

Reports: Annual

Citation: MRP, Chapter 7, Section 731.300 thru 731.320, page 700-15.

OPERATOR COMMENTS (OPTIONAL)

Surface sampling of refuse material remaining in the coarse refuse pile is scheduled to occur prior to final reclamation. No reclamation has occurred on the pile, hence the sampling program is deferred.

SCA has sampled other areas prior to final reclamation in past years. No acid/toxic concerns were noted.

REVIEWER COMMENTS

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

Sunnyside City climate data (temperature and precipitation) for 2014 is not available. (The city has discontinued data collection and no other local source is in operation)
No subsidence monitoring is required
No raptor surveys are required
Quarterly water monitoring reports are submitted to the Division throughout the year
No Geological monitoring is required.
SCA burned approximately 117,027 tons of material excavated from the Sunnyside site, in addition to material transported in from other locations.
Approximately 59,710 tons of material was placed in the Excess Spoil Disposal Area 2, Phase 2 area during the year.

Reviewer Comments

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
Mine Map	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mine sequencing plan is current in Permit document	9-4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Reviewer Comments Met Requirements Did Not Meet Requirements

BRIGHAM YOUNG UNIVERSITY

Environmental Analytical Laboratory

244 WIDB
Provo, UT 84602
801-422-2147

Plant and Wildlife Sciences
Department

Name Sunnyside Cogeneration Associates
Street #1 Power Plant Road
City Sunnyside State Utah Zip 84526

**SAMPLE TEST REPORT
AND
RECOMMENDATIONS**

Date: 12-Mar-14
Telephone: 435-888-4476
Fax: _____

Sample Identification	Crop to be grown	pH	% Sand	% Silt	% Clay	Soil Texture	% Moisture Saturation	% Organic Carbon
#2 Spoils Pile Composite	Turf	7.0	69.2	19.7	11.1	Sandy Loam	38.3	5.7

Test	Results	Very Low	Low	Medium	High	Very High	Recommendations
Nitrate-Nitrogen ppm N	25	X					
Phosphorus ppm P	2.1	X					
Potassium ppm K	148				X		
Salinity-ECE dS/m	6.4				X		salinity a problem for sensitive crops
Boron ppm B	3.1						
Selenium ppm Se	0.99						
SAR-Sodium Absorption Ratio	1.6	X					no sodlum hazard
Calcium-SAR ppm Ca	502						
Potassium SAR ppm K	125						
Magnesium SAR ppm Mg	792						
Sodium SAR ppm Na	249						
Sulfur % pyritic S	0.85						
Acid Potential tons CaCO3/1000 tons	26.4						
Ca Carbonate %CaCO3	5.21						
Neutralization Pot. tons CaCO3/1000 tons	52.1						
Acid Base Potential tons CaCO3/1000 tons	25.7				X		good

Notes:

BRIGHAM YOUNG UNIVERSITY

Environmental Analytical Laboratory

1026 LSB

Provo, UT 84602

801-422-2147

Plant and Wildlife Sciences

Department

Name Sunnyside Cogeneration

Street One Power Plant Road

Sunnyside Utah 84539
City State Zip

SAMPLE TEST REPORT AND RECOMMENDATIONS

Date: 28-Jan-15

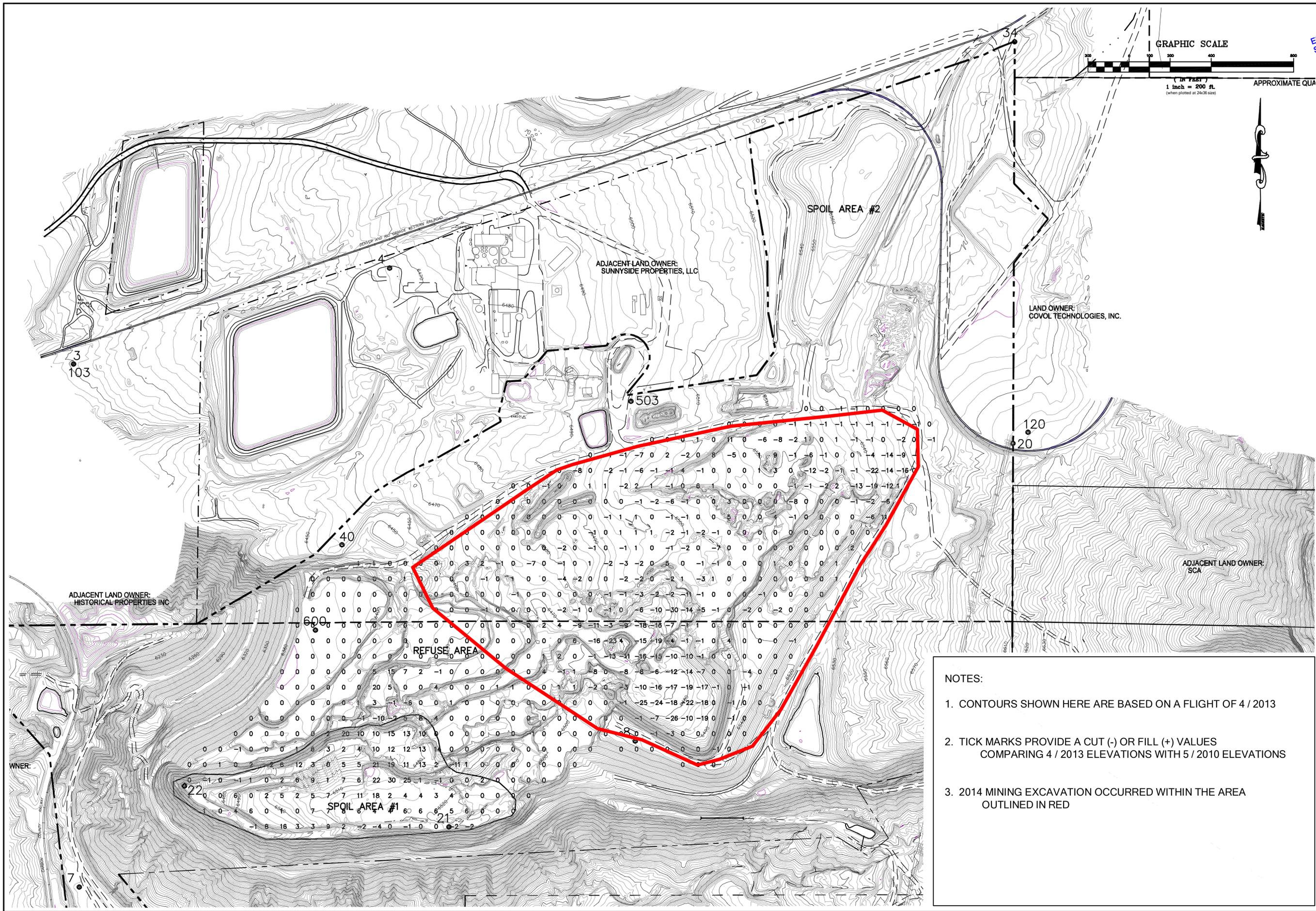
Telephone: 435-888-4476

Fax: _____

Sample Identification	Crop to be grown	pH	% Sand	% Silt	% Clay	Soil Texture	% Organic Matter	% Organic Carbon
Spoil Composite	Turf	7.5	61.6	20.0	18.4	Sandy Loam	13.5	7.8

Test	Results	Very Low	Low	Medium	High	Very High	Recommendations
Nitrate-Nitrogen ppm N	2.4	X					apply 2.8 lbs of N/1000 sq ft
Phosphorus ppm P	5.6	X					apply 2.1 lbs of P2O5/1000 sq ft
Potassium ppm K	108			X			no fertilizer needed
Salinity-ECe dS/m	6.9				X		salinity a problem for sensitive crops
Boron mg/kg B	4.0				X		no fertilizer needed
Selenium mg/kg Se	<MDL						
SAR-Sodium Adsorption Ratio	8.7			X			no sodium hazard
Calcium-SAR ppm Ca	596						
Potassium SAR ppm K	53						
Magnesium SAR ppm Mg	884						
Sodium SAR ppm Na	1438						
Sulfur % pyritic S	0.62	X					
Acid Potential tons CaCO3/1000 tons	19.4						
Ca Carbonate %CaCO3	6.2						
Neutralization Pot. tons CaCO3/1000 tons	61.6						
Acid Base Potential tons CaCO3/1000 tons	42.2						good

Notes:



SUNNYSIDE COGEN. ASSOCIATES
SUNNYSIDE REFUSE/SLURRY MINE MAP
 Carbon County, Utah

TWIN PEAKS
 Engineering & Land Surveying
 2264 NORTH 1450 EAST LEHI, UTAH 84043
 (801) 450-3511, (801) 439-0700 FAX

DATE: March 2015
 PLOT DATE: 25 March 2015

SHEET
 1
 OF
 1

- NOTES:
1. CONTOURS SHOWN HERE ARE BASED ON A FLIGHT OF 4 / 2013
 2. TICK MARKS PROVIDE A CUT (-) OR FILL (+) VALUES COMPARING 4 / 2013 ELEVATIONS WITH 5 / 2010 ELEVATIONS
 3. 2014 MINING EXCAVATION OCCURRED WITHIN THE AREA OUTLINED IN RED