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R645-301-100 (GENERAL CONTENTS)

APPENDICIES

LIST OF EXHIBITS

112.220. Information Regarding the Resident Agent.

Sunnyside Cogeneration Associates
Attn: Randy J. Scott, Plant Manager
P.O. Box 159, Sunnyside, UT 84539 (mailing address)
One Power Plant Road, Sunnyside, UT 84539 (street address)
Phone: (435) 888-4476
EIN: 52-2318424

112.230. Information Regarding Abandoned Mine Land Reclamation Fee.

A letter was sent to the Office of Surface Mining on June 6, 2003 requesting a no value/fee determination for the Starpoint Mine Coal Refuse Pile. A copy of this letter is included in Exhibit 112.230a.

Any required Abandoned Mine Land Reclamation Fees will be paid by:

Sunnyside Cogeneration Associates
Attn: Plant Manager
P.O. Box 159
Sunnyside, Utah 84539
EIN: 52-2318424
Phone: (435) 888-4476

On July 27, 1994, the Office of Surface Mining found that the material being burned in the waste coal fired small power production facility operated by Sunnyside Cogeneration Associates was not subject to reclamation fees. The material being excavated at the Star Point Waste Fuel facilities is similar in nature and is being burned at the same power facility. It is likely that the same exemption regarding payment of AML fees will be granted. A copy of the 1994 letter is included in Exhibit 112.230a.

112.300-330. Information Regarding "Owners" and "Controllers".

The Applicant, SCA, is a Utah joint venture. SCA holds the contracts, property, and permits for the project in its name. Because the joint venture is essentially a partnership between Sunnyside Holdings I, Inc. and Sunnyside II, L.P., SCA has no corporate information of its own. Therefore, the information required under regulation 112.300- 330 is provided for the joint venture partners, Sunnyside Holdings I, Inc. and Sunnyside II, L.P., and their parent or controlling corporations.

The information relevant to Sunnyside II, L.P. traces to the parentage of CP Sunnyside I, Inc, and the information relevant to Sunnyside Holdings I, Inc. traces to the parentage of Colmac Sunnyside, Inc., as follows:

In the event of bond forfeiture, reclamation of the refuse pile is discussed in the Bond Scenario reclamation plan in Section 540 and 550. The implementation of the reclamation plan should be sufficient to return the refuse pile to the intended postmining land use.

412.120. Range or Grazing Land Use.

Postmining land uses are to be achieved by effectively reclaiming disturbed areas including the establishment of a diverse vegetative cover compatible with wildlife and livestock grazing. No alternative postmining land uses are proposed.

412.140. Surface Owner Plans and Applicable Utah and Local Land Use Plans.

The reclamation plan is consistent with all state, federal, and local land use plans and programs, including surface water plans.

412.200. Land Owner or Surface Manager Comments.

The surface owners of record agree with the post mining land uses. These owners include BLM, PMC, and SCA. PMC has sent a letter of concurrence with both the Bond Scenario and Final Reclamation Plan as it refers to the subsoil area where they are the surface owner. SCA has proposed the same post mining land uses as proposed by PMC in previous permit applications. On December 23, 1980, PMC sent a letter to BLM to notify of the proposed post mining land uses as identified by the U.S. Forest Service.

In connection with the SCA permit processing, BLM reconfirmed their continued concurrence with the identified post-mine land uses in a letter dated June 3, 2003. ~~A copy of the letter sent to BLM by PMC and the letter from PMC dated March 2003~~Copies of the above noted correspondence are presented in Exhibit 412.200a, Land Owner Letters. No comments objecting to the proposed post mining land use have been received.

412.300. Suitability and Compatibility.

Following the removal of the refuse pile, the affected areas will be restored to a condition capable of supporting the premining land uses. This will be achieved by implementing the final reclamation plan described in response to R645-301-542. Specifically, the affected area will be regraded to the approved contour, drainage patterns will be established, soil material will be applied, and the seed mixtures will be planted.

All reclaimed areas will be capable of supporting the postmining land uses. Based on the results of interim vegetation, vegetation test plots, ongoing vegetation monitoring, and data gathered over two permit terms, the soils in the disturbed areas are capable of supporting a variety of vegetation compatible with current and postmining land uses.

CPMC, the previous owner of the pile, had an approved reclamation plan which placed a 18-inch soil cover on 3:1 slopes ~~with 15-foot wide terraces located every 30 vertical feet~~. The flat top of the pile ~~and the terraces~~ would have four feet of cover and would be deeply gouged, ripped and scarified to prevent heavy runoff down the slope. This soil cover reclamation recommendation is discussed in Exhibit 542.700a. In the event that the Bonding Scenario reclamation occurs, the SCA Reclamation Plans call for utilizing the same depth of soil cover over the pile.

~~It is anticipated that In the event~~At the time of the final reclamation the entire subsoil pile will be used for reclamation of the SCA Permit Area in accordance with R645~~-~~301.212. The subsoil is designated for reclamation regardless of the minimum soil cover requirements. The minimum soil cover requirements are ~~that significantly less soil cover is required than the bonding scenario. The actual amount needed is~~ dependant on the ~~ability to clean~~ quality of the soil materials beneath the pile which will be determined by soil testing as described in Section 242.~~—~~ The subsoil previously salvaged from the SCA Permit Area and stored in the subsoil stockpile will be returned to the site.

Coal Refuse that is unusable (rejects) will be placed in the spoils areas and covered with a minimum of four feet of soil from the Subsoil Area during final backfilling and grading. Prior to reclamation of the coal refuse pile areas under the Bonding Scenario, soil samples will be collected from the surface at a frequency of approximately one per acre across the refuse pile areas. The samples will be analyzed in accordance with current Division guidelines to determine presence of potential acid or toxic forming materials. If acid or toxic forming materials are found, four feet of soil cover will be placed over them, or the materials will be moved to the ~~excess spoil~~ disposal area and covered.

Disposal of Non-Coal Mine Wastes. All non-coal (non-waste rock) waste generated from mining and reclamation operations will be salvaged or disposed of in a permitted landfill. Non-coal waste that is generated during the course of reclamation that cannot be salvaged will be disposed of at an off-site permitted facility.

542.800. Reclamation Cost Estimate.

The estimated cost to reclaim the site is provided in Section 800, Bonding. (Refer to Exhibits 830.100a and 830.100b)

550. RECLAMATION DESIGN CRITERIA.

551. CASING AND SEALING OF UNDERGROUND OPENINGS.

Since there are no underground mining operations in the SCA - Star Point Permit Area, there are no underground openings on the site, which require casing or sealing.

"Bonding Scenario Reclamation" while the actual anticipated reclamation is called "Final Reclamation".

This permit application is divided into eight sections per major code divisions covering: general conditions, soils, biology, land use and air quality, engineering, geology, hydrology, and bonding. The focus of this section of the permit application is bonding, which is provided to meet the requirement of Section 800 of UAC R-645-301.

820. REQUIREMENT TO FILE A BOND.

The disturbed area is shown on Map 222.100b. Exhibit 111.100a shows the entire SCA - Star Point Permit Area. The current bond is filed on the form provided by the Division and for an amount equal to or exceeding the bond amount previously determined by the Division under R645-301-830. The current bond form is attached as Exhibit 820.100a, Reclamation Bond.

830. DETERMINATION OF BOND AMOUNT.

To determine the bond amount, a cost estimate has been prepared for the bonding scenario reclamation. The details of this estimate are shown in Exhibit 830.100a. This estimate assumes that reclamation would begin under an assumed bond forfeiture condition under assumed conditions that could exist atsome time during the current permit term. The estimated costs for this reclamation are ~~$969,000~~**1,254,000**. This value represents SCA's reclamation liability for bonding. These costs include the regrading of the refuse pile to enhance reclamation, mulching and seeding, the cost of monitoring activities, and appropriate contingencies.

After the Division has had an opportunity to review this permit application and determine the bond amount based on the calculation of the revised reclamation liability, a new Reclamation Agreement and bond for the amount determined by the Division will be provided by SCA. A copy of the current bonding form is presented as Exhibit 820.100a. The bond will be posted after the Division approves the application and before the permit is issued.

The reclamation liability amount reflects all required reclamation work to be performed for the SCA - Star Point Permit Area.

SCA agrees to re-evaluate the performance bond from time to time when the permit acreage is revised, standards of reclamation change, or when the cost of future reclamation work changes.

SCA will, from time to time, request reduction of the performance bond amount when circumstances warrant a reduction.

Exhibit 112.230a, Abandoned Mine Reclamation Fees - Correspondence

CALLISTER NEBEKER
& MCCULLOUGH
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
GATEWAY TOWER EAST SUITE 900
10 EAST SOUTH TEMPLE
SALT LAKE CITY, UTAH 84133
TELEPHONE 801-530-7300
FAX 801-364-9127

June 6, 2003

TO CALL WRITER DIRECT
(801) 530-7428
brianburnett@cnmlaw.com

VIA FEDERAL EXPRESS

James Krawchyk
Chief of Division of Compliance Management
3 Parkway Center
Pittsburgh, PA 15220

Re: Sunnyside Cogeneration Associates – Request for No Value/Fee Determination – Starpoint Mine Coal Refuse Pile – Permit No. C/007/042 – Carbon County, Utah

Dear Mr. Krawchyk:

This firm represents Sunnyside Cogeneration Associates ("SCA") which is a small power production facility located in Carbon County, Utah. The purpose of this letter is to request that the U.S. Department of Interior, Office of Surface Mining ("OSM"), determine that Abandoned Mine Land ("AML") Reclamation Fees under the Surface Mining Control and Reclamation Act, 30 U.S.C. § 1232 ("SMCRA"), are not required relating to the Starpoint Mine Coal Refuse Pile which SCA has obtained to utilize in its facility. Pursuant to SMCRA, SCA has applied with the Utah Division of Oil, Gas & Mining ("DOGM") for a Reclamation Permit No. C/007/042 for the Starpoint Mine Coal Refuse Pile. The information provided herein is intended to meet the OSM criteria for a no value/fee determination relating to the Starpoint Mine Coal Refuse Pile.

1. Starpoint Mine Coal Refuse Pile – By-product of the Coal Preparation Process

The Starpoint Mine Coal Refuse Pile was produced during the period 1970 through 1997 from processing Run of Mine ("ROM") materials produced from the Starpoint underground coal mines. The ROM coal was processed through a coal preparation plant which removed "out of seam dilutants" such as sand stones, carbonaceous mud stones and bone coal. The non-sellable dilutants produced from the coal preparation process make up the Starpoint Mine Coal Refuse Pile.

Roughly 40 million tons of ROM coal were produced during the approximately 27-year life of the Starpoint Mine operation. From this raw material, about 34 million tons of sellable coal was produced. In addition, approximately 6 million tons of waste was placed at the location of the Starpoint Mine Coal Refuse Pile. The Starpoint Mine is closed and is being reclaimed.

The Starpoint Mine Coal Refuse Pile has little or no value in the coal market because its carbon content is too low for use at any kind of facility except a circulating fluidized bed combustor such as the SCA facility which is the only such facility in the State of Utah. The Starpoint Mine Coal Refuse Pile averages about 6,000 btu/lb. and has an average ash content in excess of 52%. Attached hereto as Exhibit 1, please find a letter from Miltech Energy Services Inc. ("Miltech") dated January 29, 2002 verifying the above information. Also attached hereto as Exhibit 2, please find the Starpoint Coal Refuse Site Reserve Assessment dated July 9, 2001 by Miltech for SCA containing the results of a study of the Starpoint Mine Coal Refuse Pile.

2. SCA - Certified Qualifying Facility - Federal Energy Regulatory Commission

The material from the Starpoint Mine Coal Refuse Pile will be used in SCA's facility which was certified by the Federal Energy Regulatory Commission ("FERC") as a qualifying cogeneration facility burning waste pursuant to the Public Utilities Regulatory Policies Act ("PURPA"). For material to be classified as waste by FERC, the refuse must be both a by-product and currently have little or no value. The primary energy source for the SCA facility is bituminous coal refuse. For normal operations, the SCA facility utilizes no natural gas, oil or coal. FERC has previously analyzed the average quality characteristics of bituminous coal refuse sources that provide the primary energy source for SCA and ruled that the bituminous coal refuse met its test for a "waste" material. See Sunnyside Cogeneration Associates, 39 FERC ¶ 62,091 at 63,259 (1987). SCA was recertified by FERC as a small power production facility utilizing a waste product, as set forth in Docket No. QF86-556-003 issued February 11, 1992. SCA continues to be a qualifying facility pursuant to FERC regulations.

3. Starpoint Mine Coal Refuse Pile - Will Not Be Processed to Remove Residual Coal

The refuse from the Starpoint Mine Coal Refuse Pile will be removed on a routine, scheduled basis by loading refuse directly into trucks and hauling the material to SCA. SCA will feed the coal refuse waste to a crusher for grinding to a 1/4" X 0" size. After being crushed, the waste product will be mixed or blended with waste product from the Starpoint Mine Coal Refuse Pile that does not require crushing. This blending of the waste is done to achieve a more uniform fuel for SCA's facility and to avoid the costs of unnecessary crushing. The waste material will then be combined with limestone and burned in a circulating fluidized bed boiler. The limestone is added to reduce the sulfur dioxide emissions of the facility. The entire Starpoint Mine Coal Refuse Pile will be removed and used as fuel for the SCA facility to create electricity.

SCA will not process the refuse material or use gravity separation to remove residual coal from the refuse. There will be no attempts to extract carbonaceous material from the refuse pile or to separate the carbonaceous material from the ash and sulfur. Additionally, no physical or chemical process will be used to clean, wash or enrich the refuse pile before it is burned in the SCA facility.

The United States District Court for the Northern District of West Virginia has interpreted 30 C.F.R. § 870.12(b) to require that "coal from the gob piles would not be assessed a reclamation fee until it had been cleaned, processed, and sold." U.S. v. Spring Ridge Coal Co., 793 F.Supp. 124, 127 (N.D.W.Va. 1992). Coal is not being cleaned, processed or sold, but rather the entire content of the Starpoint Mine Coal Refuse Pile is being sent to SCA. 30 C.F.R. § 870.12(b)(1) states that the "... use shall be determined by the first transaction or use of the coal by the operator immediately after it is severed, or removed from a reclaimed coal refuse." (emphasis added) No coal will be severed or removed from the Starpoint Mine Coal Refuse Pile, but rather the entire refuse pile will be sent to SCA.

4. Starpoint Mine Coal Refuse Pile Has No Market Value

Except for use in a waste coal fired small power production facility, there exists no relevant market for the material from the Starpoint Mine Coal Refuse Pile. In a letter dated January 29, 2002, Miltech stated that "...the waste material of the Starpoint Coal Refuse Pile has no value at the current coal market because its carbon content is too low for use at any facility except a circulating fluidized bed combuster, such as the Sunnyside Cogeneration facility." See Exhibit 1 attached hereto. The SCA facility would not exist but for the fact that the refuse material is waste material and governmental incentives have been created to utilize this type of disposal.

SCA's project was financed with the use of Solid Waste Disposal Refunding Revenue Bonds issued by Carbon County, Utah. Bonds of this type can only be utilized for projects which qualify for tax-exempt status because they dispose of waste. SCA meets that qualification.

SCA will sell its power to PacifiCorp., a local utility company, pursuant to PURPA which facilitates waste disposal operations that create energy. The SCA project has received PURPA approval for the energy that will be generated through the burning of refuse piles, which have been found to qualify as waste for PURPA purposes. The SCA facility would not exist and be able to reclaim the refuse pile, but for PURPA approval and the tax-exempt bond financing available for this type of operation.

On January 31, 2002, SCA entered into an Asset Purchase Agreement with Plateau Mining Corporation to purchase approximately 147 acres of real property which contained buildings and a maintenance facility for large vehicles along with various easements, rights of way, and soil piles. In addition, SCA obtained the Starpoint Mine Coal Refuse Pile. Attached hereto as Exhibit 3, please find a copy of the Asset Purchase Agreement.

Also please find attached as Exhibit 4, a letter from OSM dated July 27, 1994 and a letter from OSM dated November 28, 2000 finding that two refuse piles located in Carbon County, Utah that SCA has utilized have no value and are therefore not subject to AML reclamation fees.

5. Conclusion

For the reasons set forth above, SCA respectfully requests that OSM issue a no value/fee determination relating to the Starpoint Mine Coal Refuse Pile thereby exempting SCA from paying AML reclamation fees when utilizing material for the pile.

Thank you for your cooperation in this regard. If you have any questions, please feel free to contact me.

Sincerely,

CALLISTER NEBEKER & MCCULLOUGH

Brian W. Burnett

BWB:ias
Enclosures
cc: Pam Grubaugh-Littig (w/o Enclosures)
Jim Willey (w/o Enclosures)
Karen Dolezal (w/o Enclosures)
Steve Miller (w/o Enclosures)
Rob McLeese (w/o Enclosures)
Greg Lawyer (w/o Enclosures)
Kendall Reed (w/o Enclosures)
Randy Scott (w/o Enclosures)
Rusty Netz (w/o Enclosures)
Scott Carlson (w/o Enclosures)

Exhibit 412.200a, Land Owner Letters

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Price Field Office
125 South 600 West
Price, Utah 84501

3482
(UT-070)

CERTIFIED MAIL--Return Receipt Requested
Certification No. 7001 0360 0002 1571 4157

JUN - 9 2003

Mr. Scott Carlson
Senior Project Manager
PSOMAS
2825 E. Cottonwood Parkway
Salt Lake City, Utah 84121

Re: Post-Mining Land Use for the Star Point Waste Fuel Site (DOGM Permit #C/007/042)

Dear Mr. Carlson:

On May 8, 2003, the Bureau of Land Management (BLM) received a written request from PSOMAS concerning the proposed post-mine land use at the Star Point Mine Waste Fuel site. Sunnyside Cogeneration Associates (SCA) has acquired the Wattis coal refuse pile in Sage Brush Canyon. The refuse pile has accumulated from the disposal of coalmine waste from the Star Point Coal Mine.

On November 23, 1978, Plateau Mining Company sent a letter to the BLM identifying the following post-mine land uses for the area encompassing the Star Point Mine:

1. Wildlife Habitat
2. Grazing
3. Recreation
4. Timber
5. Watershed
6. Minerals

BLM has analyzed the situation and reviewed all supporting documentation. The BLM has determined that the identified post mine land uses for the area encompassing the Star Point Mine have not changed. Therefore, we concur with SCA's proposal that the stated post-mine land use at the Star Point Mine Waste Fuel site remains as identified.

For further information, contact Mr. George Tetreault at (435) 636-3604.

Sincerely,

for Patrick J. Gubbins
Field Manager

cc: DOGM
PO Box145801
Salt Lake City, UT 84114-5340
Sunnyside Cogeneration Assoc.
1 Power Plant Road
Sunnyside, UT 84539

Exhibit 830.100a, Bonding Scenario Reclamation Cost Estimate

Bonding Calculations
Sunnyside Waste Fuel

Direct Costs

Subtotal Demolition and Removal	$80,841.00	
Subtotal Backfilling and Grading	$486,060.00	
Subtotal Revegetation	$353,769.00	
Direct Costs	$920,670.00	
Indirect Costs		
Mob/Demob	$92,067.00	10.0%
Contingency	$46,034.00	5.0%
Engineering Redesign	$23,017.00	2.5%
Main Office Expense	$62,606.00	6.8%
Project Mainagement Fee	$23,017.00	2.5%
Subtotal Indirect Costs	$246,741.00	26.8%
Total Cost	$1,167,411.00	
Escalation factor		0.0289
Number of years		2.5
Escalation	$86,182.00	
Reclamation Cost	$1,253,593.00	
Bond Amount (rounded to nearest $1,000)	$1,254,000.00	
2006 Dollars		

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Grading															
D10R Semi EROPS (9-43) (3Q02)	22155	83.45	0.1	49.35	279.61	1	279.61	$/HR	275000	CY	700	CY/HR	392.9	HR	109859
															109859

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Topsoil Distribution															
Scrapper															
651E EROPS (9-40) (3Q02)	23395	101	0.1	49.35	306.67	4	1226.68	$/HR	235700	CY	1600	CY/HR	147.3	HR	180690
D10R Semi EROPS (9-43) (3Q02)	22155	83.45	0.1	49.35	279.61	1	279.61	$/HR					147.3	HR	41187
Spread Topsoil															
D10R Semi EROPS (9-43) (3Q02)	22155	83.45	0.1	49.35	279.61	1	279.61	$/HR	117850	CY	700	CY/HR	168.4	HR	47086
															268963

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Gouging															
CAT 325BL (10-8)(3Q02)	9205	31.55	0.1	49.35	141.59	1	141.59	$/HR	52369	CY	240	CY/HR	218.2	HR	30895
															30895

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Scarify															
D10R Semi EROPS (9-43) (3Q02)	22155	83.45	0.1	49.35	279.61	1	279.61	$/HR	70180	CY	3000	CY/HR	23.4	HR	6543
Multi-Shank Ripper 520-699 P (9-49) (3Q02)	3780	10.15	0.1		34.79	1	34.79	$/HR					23.4	HR	814
															7357

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
Support															
Pickup Truck Crew 4x4 1 ton (20-7) (2Q02)	880	3.85	0.1	0	9.74	1	9.74	$/HR					609	HR	5932
5,000 gal H2O truck Diesel (20-6) (2Q02)	4895	27.15	0.1	39.15	99.61	1	99.61	$/HR					305	HR	30381
Foreman Average, Outside					53.65	1	53.65	$/HR					609	HR	32673
Total															68986

	Equipment Cost	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis.	Units	Cost
White Oak Mine Earthwork															
Grading															109859
Topsoil Distribution															268963
Gouging															30895
Scarify															7357
Support															68986
Total															486060

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Sunnyside Waste Fuel																			
	Mulch																			
	Assume 2 tons/acre	Place Hay Bales	M023705501200	405	/TON					86.6						AC		173.2	Ton	70146
	Erosion Control																			
	Silt Fence	Silt fence	02370 550 1100	0.97	LF	2500										LF		2500	LF	2425
	Seeding																			
	Labor and Equipment	Hydro Spreader (equip. & labor) B-81 80MS	Reveg002	19.01	/MSF					86.6						AC		3772.3	MSF	71711
	Materials	Sunnyside Waste Fuel	SWF07421	1602	$/AC					86.6						AC		86.6	AC	138733
	Assume tackifer and hydroimulch included in mulch costs																			
	Subtotal																			283015
	Reseeding Rate 25%																			70754
																				70754
	Total																			353769

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
17	Building 17																			
	Structure's Demolition Cost	Masonary Bld. Large	02220 100 0080	0.26	/CF	41	76	15								FT		46740	CF	12152
	Structure's Vol. Demolished																0.35	606	CY	
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	City Services	City Services Price	4	/CY															
	Steel's Weight																	606	CY	2424
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			14576
	Structure's Demolition Cost	Steel Bld. Large	02220 100 0012	0.25	/CF	14	60	10								FT		8400	CF	2100
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			2100
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	41	76	0.5								FT		58	CY	583
	Concrete's Vol. Demolished																1.3	75	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													75	CY	101
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02320 200 0320	3.23	/CY													75	CY	242
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													75	CY	540
	Subtotal																			466
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	14	60	0.5								FT		16	CY	161
	Concrete's Vol. Demolished																1.3	21	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													21	CY	28
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02320 200 0320	3.23	/CY													21	CY	68
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													21	CY	151
	Subtotal																			408
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY						2292					FT		85	CY	855
	Concrete's Vol. Demolished																1.3	111	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													111	CY	150
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. trip	02320 200 0320	3.23	/CY													111	CY	359
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													111	CY	799
	Subtotal																			2163
	Total																			20713

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
18	Building 18																			
	Structure's Demolition Cost	Masonary Bld. Large	02220 100 0080	0.26	/CF	40	67	15								FT		40200	CF	10452
	Structure's Vol. Demolished																0.35	521	CY	
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	City Services	City Services Price	4	/CY													521	CY	2084
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			12536
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	40	67	0.5								FT		50	CY	503
	Concrete's Vol. Demolished																1.3	65	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													65	CY	88
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													65	CY	210
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													65	CY	468
	Subtotal																			1269
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY						1284					FT		48	CY	483
	Concrete's Vol. Demolished																1.3	62	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													62	CY	84
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													62	CY	200
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													62	CY	446
	Subtotal																			1213
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			15018

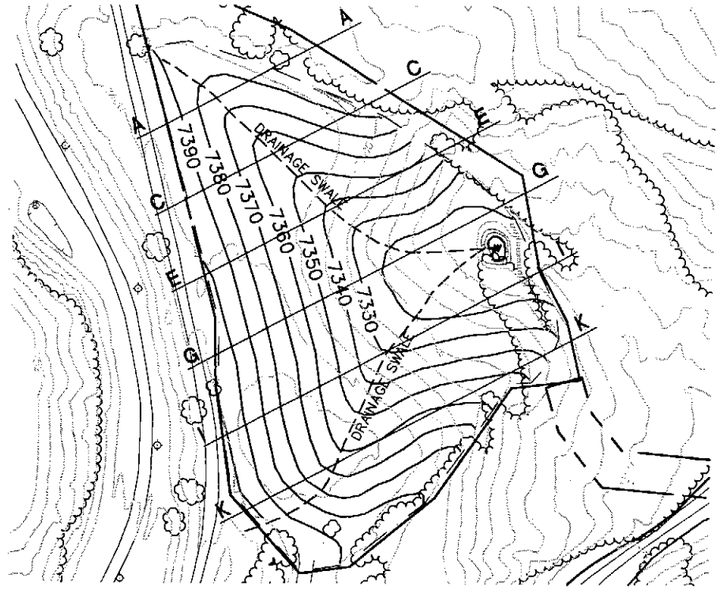
Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
19	Building 19																			
	Structure's Demolition Cost	Masonary Bld. Large	02220 100 0080	0.26	/CF	20	93	15								FT		27900	CF	7254
	Structure's Vol. Demolished																0.35	362	CY	
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel	City Services	City Services Price	4	/CY													362	CY	1448
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			8702
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	20	93	0.5								FT		34	CY	342
	Concrete's Vol. Demolished																1.3	44	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													44	CY	59
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													44	CY	142
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													44	CY	317
	Subtotal																			860
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY						1356					FT		50	CY	503
	Concrete's Vol. Demolished																1.3	65	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													65	CY	88
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													65	CY	210
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													65	CY	466
	Subtotal																			1269
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			10831

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
35a	Building 35a																			
	Structure's Demolition Cost																			
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	38	25	0.5								FT		18	CY	181
	Concrete's Vol. Demolished																1.3	23	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													23	CY	31
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													23	CY	74
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													23	CY	166
	Subtotal																			452
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	126	1	4								FT		19	CY	191
	Concrete's Vol. Demolished																1.3	25	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													25	CY	34
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													25	CY	81
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													25	CY	180
	Subtotal																			486
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			938

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
75	Building 75																			
	Structure's Demolition Cost	Steel Bld. Large	02220 100 0012	0.25	/CF	50	80	30								FT		120000	CF	30000
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			30000
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY	50	80	0.5								FT		74	CY	744
	Concrete's Vol. Demolished																1.3	96	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													96	CY	130
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													96	CY	310
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													96	CY	691
	Subtotal																			1875
	Concrete Demolition																			
	Demolition Cost	Concrete demolition	ConcreteDemo1	10.06	/CY						1560					FT		58	CY	583
	Concrete's Vol. Demolished																1.3	75	CY	
	Loading Cost	Front end loader 3 CY	02315 400 1300	1.35	/CY													75	CY	101
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rnd. tri	02320 200 0320	3.23	/CY													75	CY	242
	Disposal Costs	On site disposal	02220 875 5550	7.2	/CY													75	CY	540
	Subtotal																			1466
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			33341

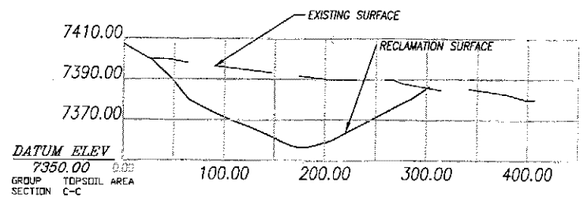
Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
001	Culverts 001																			
	Structure's Demolition Cost	Excavation Bulk Bank 2 CY (322BL)	02315 400 0260	1.73	/CY						867					CY		867	CY	1500
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel	Nielson Construction	Neilson Con.	7	/TON							1100				TON		1100	TON	7700
	Subtotal																			9200
	Equipment 's Disposal Cost																			
	Dismantling Cost																			
	Equipment 's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			9200

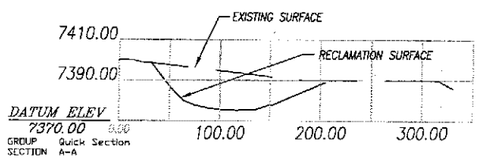
Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Building 17																			20713
	Building 18																			15018
	Building 19																			10831
	Building 35a																			938
	Building 75																			33341
	Subtotal																			
	Total																			80841.00

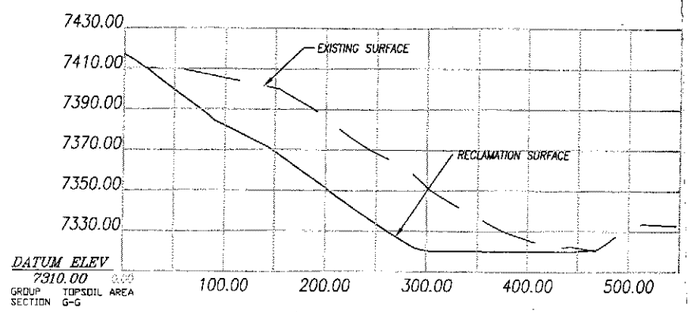


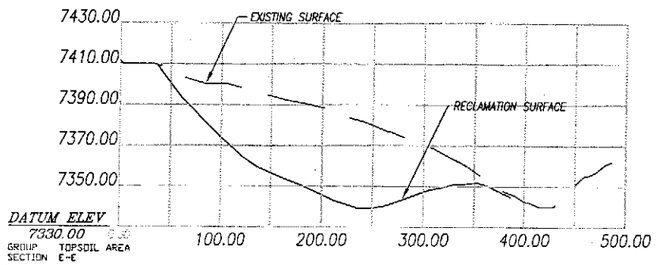
RECLAMATION CONTOURS
235,000 YDS.

PLAN SCALE: HORIZONTAL 1" =200'









PROFILE SCALE: HORIZONTAL 1" = 150'

March 3, 2003 - 13:08:10 DWG Name: U:\BSUNG10600\New Permit\Drawings\C-542.2004.dwg Updated By: CAhrers

LICENSED PROFESSIONAL ENGINEER No. 187727 STATE OF UTAH
5/03

DATE 05-27-03
PLOT DATE
SCALE SEE SCALE BAR
PROJECT NUMBER BSUNG10600

SCA / STAR POINT WASTE FUEL
SUBSOIL AREA
RECLAMATION CROSS SECTIONS

PSOMAS
2825 East Cottonwood Parkway, Suite 120
Salt Lake City, Utah 84121
(801) 270-5777 (801) 270-5782 (FAX)

DESIGNED CRC
DRAFTED CEA
CHECKED SSC

MAP NUMBER
542.200d