



## Sunnyside Cogeneration Associates

P.O. Box 10, East Carbon, Utah 84520 • (435) 888-4476 • Fax (435) 888-2538

January 8, 2016

Daron Haddock  
Division of Oil, Gas & Mining  
1594 W. North Temple, Suite 1210  
Salt Lake City, Utah 84116

RECEIVED  
JAN 12 2016  
DIV. OF OIL, GAS & MINING

RE: Annual 2015 Inspection Report  
Sunnyside Refuse and Slurry C/007/035

Dear Mr. Haddock:

Please find enclosed a copy of the Annual 2015 Inspection Report for the Sunnyside refuse pile, impoundments, and excess spoil areas.

Should you have any questions, please contact Rusty Netz or myself at (435)888-4476.

Thank You,

A handwritten signature in black ink, appearing to read "Gerald Hascall". The signature is written in a cursive style with some flourishes.

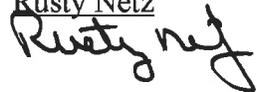
Gerald Hascall  
Agent For  
Sunnyside Cogeneration Associates

c.c. Rusty Netz  
Plant File

# ANNUAL INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035  
Mine Name: Sunnyside Refuse and Slurry  
Mine Operator (Permittee): Sunnyside Cogeneration Associates  
MSHA ID Number: N/A  
Impoundment Name: RailCut Sediment Pond #007  
UPDES Permit Number: UT024759

Inspection Date: Dec 30, 2015  
Annual 2015

Inspector: Rusty Netz  
Signature: 

## IMPOUNDMENT INSPECTION

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 4.8 Acre-feet  
Pond bottom elevation = 6206.0  
100% Sediment Storage Volume = 0.34 acre-feet at Elevation 6209  
60% Sediment Storage Volume = 0.2 acre feet at Elevation = 6207.7  
Existing Sediment Elevation = 6207.4 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6209.07  
Emergency Spillway Elevation = 6212.34

## 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had some water. No samples were taken. Pond did not require decanting.  
Sediment levels were good.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

## 3. Field Evaluation.

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed.  
Some water was impounded.  
No other aspects of the impounding structure were observed that could affect its stability or functionality.

**ANNUAL INSPECTION FORM – IMPOUNDMENT**

**Rail Cut Sediment Pond**

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

**COMMENTS/ OTHER INFORMATION**

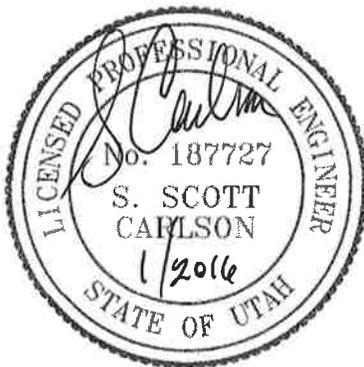
None

**CERTIFICATION STATEMENT:**

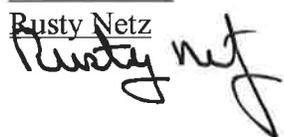
I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



# ANNUAL INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035 Inspection Date: Dec 30, 2015  
Mine Name: Sunnyside Refuse and Slurry Annual 2015  
Mine Operator (Permittee): Sunnyside Cogeneration Associates Inspector: Rusty Netz  
MSHA ID Number: N/A Signature:   
Impoundment Name: Old Coarse Refuse Road Sediment Pond #008  
UPDES Permit Number: UT024759

## IMPOUNDMENT INSPECTION

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 0.9 Acre-feet  
Pond bottom elevation = 6394.0  
100% Sediment Storage Volume = 0.08 acre-feet at Elevation 6395.1  
60% Sediment Storage Volume = 0.05 acre feet at Elevation = 6394.75  
Existing Sediment Elevation = 6394.5 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6395.75  
Emergency Spillway Elevation = 6399.4

## 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had very little standing water. No samples were taken Pond did not require decanting.  
Sediment level was good.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

## 3. Field Evaluation.

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed  
Very little water was impounded Sediment level was good.  
No other aspects of the impounding structure were observed that could affect its stability or functionality.

**ANNUAL INSPECTION FORM – IMPOUNDMENT**

**Old Coarse Refuse Road Sediment Pond**

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

**COMMENTS/ OTHER INFORMATION**

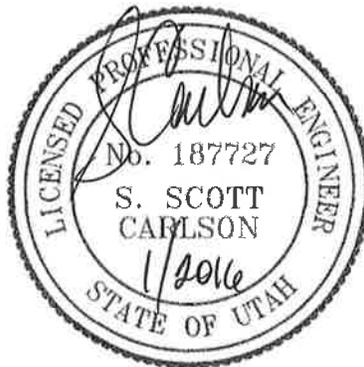
None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

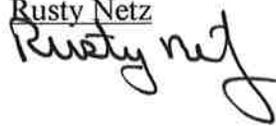
Affix Signature, Stamp and Date



# ANNUAL INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035  
Mine Name: Sunnyside Refuse and Slurry  
Mine Operator (Permittee): Sunnyside Cogeneration Associates  
MSHA ID Number: N/A  
Impoundment Name: Pasture Sediment Pond #009  
UPDES Permit Number: UT024759

Inspection Date: Dec 30, 2015  
Annual 2015

Inspector: Rusty Netz  
Signature: 

## IMPOUNDMENT INSPECTION

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 3.2 Acre-feet  
Pond bottom elevation = 6484.5  
100% Sediment Storage Volume = 0.42 acre-feet at Elevation 6486.2  
60% Sediment Storage Volume = 0.25 acre feet at Elevation = 6485.5  
Existing Sediment Elevation = 6485.3 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6486.6  
Emergency Spillway Elevation = 6490.6

## 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had some water. No samples were taken Pond did not require decanting.  
Sediment level was good  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

## 3. Field Evaluation.

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure were observed.  
Some water was impounded Sediment level was good.  
No other aspects of the impounding structure were observed that could affect its stability or functionality.

**ANNUAL INSPECTION FORM – IMPOUNDMENT**

**Pasture Sediment Pond**

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

**COMMENTS/ OTHER INFORMATION**

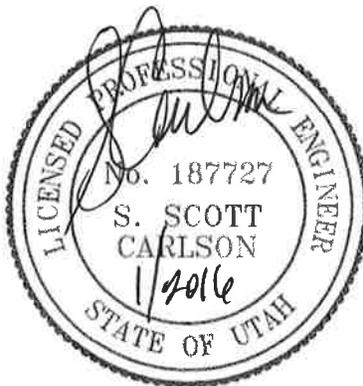
Ditch reconfiguration has been approved to direct any possible discharges from the Pasture Pond into the Coal Pile Sediment Pond resulting in no net discharge from Pasture Pond. Discharge from Pasture Pond is not common and is not expected to create a discharge from Coal Pile Sediment Pond.

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



# ANNUAL INSPECTION FORM – IMPOUNDMENT

Permit Number: C/007/035 Inspection Date: Dec 30, 2015  
Mine Name: Sunnyside Refuse and Slurry Annual 2015  
Mine Operator (Permittee): Sunnyside Cogeneration Associates Inspector: Rusty Netz  
MSHA ID Number: N/A Signature: Rusty Netz  
Impoundment Name: Coarse Refuse Toe Sediment Pond #012  
UPDES Permit Number: UT024759

## IMPOUNDMENT INSPECTION

### 1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.

None

#### a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 1.6 Acre-feet  
Pond bottom elevation = 6176.0  
100% Sediment Storage Volume = 0.07 acre-feet at Elevation 6177.8  
60% sediment Storage Volume = 0.03 acre feet at Elevation = 6177.0  
Existing Sediment Elevation = 6176.7 +/-

#### b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6178.2  
Emergency Spillway Elevation = 6183.63

## 2. Field Information

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had very little standing water. No samples were taken Pond did not require decanting  
Sediment level was good  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

## 3. Field Evaluation.

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed  
Very little water was impounded Sediment level was good.  
No other aspects of the impounding structure were observed that could affect its stability or functionality.

**ANNUAL INSPECTION FORM – IMPOUNDMENT**

**Coarse Refuse Toe Sediment Pond**

**CERTIFIED REPORT  
IMPOUNDMENT EVALUATION**

*If you answer NO to these questions, please explain under comments*

- 1. Is impoundment designed and constructed in accordance with the approved plan? YES
- 2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
- 3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

**COMMENTS/ OTHER INFORMATION**

None

**CERTIFICATION STATEMENT:**

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



**ANNUAL INSPECTION FORM – IMPOUNDMENT**

Permit Number: C/007/035  
Mine Name: Sunnyside Refuse and Slurry  
Mine Operator (Permittee): Sunnyside Cogeneration Associates  
MSHA ID Number: N/A  
Impoundment Name: Coal Pile Sediment Pond #014  
UPDES Permit Number: UT024759

Inspection Date: Dec 30, 2015  
Annual 2015

Inspector: Rusty Netz  
Signature: *Rusty Netz*

**IMPOUNDMENT INSPECTION**

**1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

None

a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 1.65 Acre-feet  
Pond bottom elevation = 6471.5  
100% Sediment Storage Volume = 0.65 acre-feet at Elevation 6476.0  
60% Sediment Storage Volume = 0.45 acre feet at Elevation = 6474.7  
Existing Sediment Elevation = 6471.8 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6476.0  
Secondary Dewatering Orifice = 6477.2  
Primary Spillway Elevation = 6477.9  
Emergency Spillway Elevation = 6479.0

**2. Field Information**

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had some water. No samples were taken Pond did not require decanting.  
Sediment level was good.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed  
Some water was impounded Sediment level was good.  
No other aspects of the impounding structure were observed that could affect its stability or functionality.

# ANNUAL INSPECTION FORM – IMPOUNDMENT

## Coal Pile Sediment Pond

### CERTIFIED REPORT IMPOUNDMENT EVALUATION

*If you answer NO to these questions, please explain under comments*

1. Is impoundment designed and constructed in accordance with the approved plan? YES
2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

### COMMENTS/ OTHER INFORMATION

Ditch reconfiguration has been approved to direct any possible discharges from the Pasture Pond into the Coal Pile Sediment Pond resulting in no net discharge from Pasture Pond. Discharge from Pasture Pond is not common and is not expected to create a discharge from Coal Pile Sediment Pond.

### CERTIFICATION STATEMENT:

I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

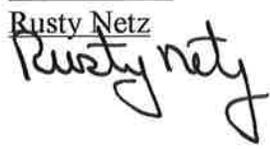
By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



**ANNUAL INSPECTION FORM – IMPOUNDMENT**

Permit Number: C/007/035  
Mine Name: Sunnyside Refuse and Slurry  
Mine Operator (Permittee): Sunnyside Cogeneration Associates  
MSHA ID Number: N/A  
Impoundment Name: **Borrow Area Sediment Pond #016**  
UPDES Permit Number: UT024759

Inspection Date: Dec 30, 2015  
Annual 2015  
Inspector: Rusty Netz  
Signature: 

**IMPOUNDMENT INSPECTION**

**1. Describe any appearance of any instability, structural weakness, or any other hazardous condition.**

None

a. Sediment storage capacity, including elevation of 60% and 100% sediment storage volumes, and estimated average elevation of existing sediment.

Total Pond Volume = 8.3 Acre-feet  
Pond bottom elevation = 6510.0  
100% Sediment Storage Volume = 2.3 acre-feet at Elevation 6514.3  
60% Sediment Storage Volume = 1.4 acre feet at Elevation = 6513.3  
Existing Sediment Elevation = 6510 +/-

b. Principle and emergency spillway elevations.

Primary Dewatering Pipe = 6514.3  
Emergency Spillway Elevation = 6517.03

**2. Field Information**

*Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/ instrumentation information, inlet/ outlet conditions, or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/ repairs, monitoring information, vegetation on out slopes of embankments, etc.*

Pond had very little standing water. No samples were taken  
Sediment level was good. Pond did not require decanting.  
Embankment conditions were good. Vegetation on out slopes was adequate.  
Inlet / Outlet conditions were good. No structural or hazardous conditions were observed.

**3. Field Evaluation.**

*Describe any changes in the geometry of the impounding structure, average and maximum depths and elevation of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded, and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period*

No recent changes in the geometry of the structure have been observed  
Very little water was impounded Sediment level was good.  
No other aspects of the impounding structure were observed that could affect its stability or functionality.

# ANNUAL INSPECTION FORM – IMPOUNDMENT

## Borrow Area Sediment Pond

### CERTIFIED REPORT IMPOUNDMENT EVALUATION

*If you answer NO to these questions, please explain under comments*

1. Is impoundment designed and constructed in accordance with the approved plan? YES
2. Is impoundment free of instability, structural weakness, or any other hazardous conditions? YES
3. Has the impoundment met all applicable performance standards and effluent limitations from the previous date of inspection? YES

### COMMENTS/ OTHER INFORMATION

None

### CERTIFICATION STATEMENT:

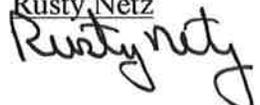
I hereby certify that: I am experienced in the construction of impoundments; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of impoundments in accordance with the certified and approved designs for this structure; that the impoundment has been maintained in accordance with approved designs and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability in accordance with the Utah R645 Coal Mining Rules.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
P.E. Number & State: 187727 UTAH

Affix Signature, Stamp and Date



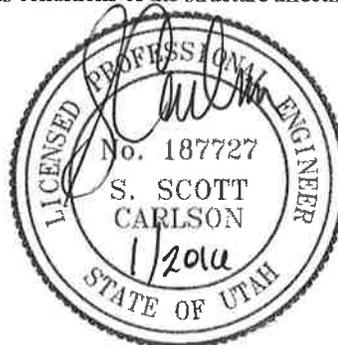
# QUARTERLY INSPECTION FORM – REFUSE PILE

Permit Number:	<u>C/007/035</u>	Inspection Date:	<u>Dec 30, 2015</u>
Mine Name:	<u>Sunnyside Refuse and Slurry</u>		<u>Annual 2015</u>
Mine Operator (Permittee):	<u>Sunnyside Cogeneration Associates</u>	Inspector:	<u>Rusty Netz</u>
MSHA ID Number:	<u>1211-UT-09-02093-01</u>	Signature:	
Facility Name:	<u>Coarse Refuse Pile</u>		

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Refuse material is actively being excavated and removed from various locations across the top of the pile**
2. Lift Height / Thickness Avg 15 Maximum 25 Elevation of Active Benches: **approximately 6430, 6450, 6470**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2:1 NW face**
4. Current estimated volume: **approx 3.0-3.35 Million Tons** Volume removed during year: 2015 ytd: apx. 78,129tons
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): NA
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): N/A -  
**Activities occurring at this time are associated with removal of refuse material**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location, and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Current surface drainage is in place. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
  - a. Are there any cracks or scarps in crest? **NO none observed**
  - b. Is there any detectable sloughing or bulging? **NO none observed**
  - c. Do slope erosion problems exist? **NO erosion conditions are minimal**
  - d. Cracks or scarps in slope? **NO none observed**
  - e. Surface movements? (valley bottom, hillsides) **NO none observed**
  - f. Erosion of Toe? **NO none observed**
  - g. Water impounded by structure? **NO none observed**
  - h. Are diversion ditches stable? **YES appear reasonable**
  - i. Is drainage positive? **YES surface runoff flows to collection ditches**
  - j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
  - k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
  - l. Proctor Determination: **none required**

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
 P.E. Number & State: 187727 UTAH



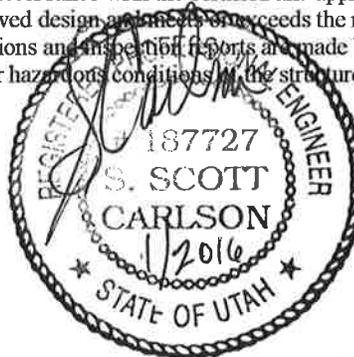
# QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035 Inspection Date: Dec 30, 2015  
 Mine Name: Sunnyside Refuse and Slurry Annual 2015  
 Mine Operator (Permittee): Sunnyside Cogeneration Associates Inspector: Rusty Netz  
 MSHA ID Number: 1211-UT-09-02093-04 Signature: Rusty Netz  
 Facility Name: Excess Spoil Disposal Area #1

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **No material was placed in this disposal area during the year**
2. Lift Height / Thickness Avg 2-4 ft Maximum 4 ft Elevation of Active Benches: **approx 6500-6520**
3. Vertical angle of outslope(s) / Location(s) where measured **max 2.5:1 North face**
4. Total storage capacity: **400K-500K cuyd** Remaining storage capacity **estimated 50K-100K cuyd** Volume placed during year: **2015 ytd: none**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. No topsoil existed since this was a previously disturbed location**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location, and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. Surface drainage is collected on terrace ditches and diverted off of pile. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
  - a. Are there any cracks or scarps in crest? **NO none observed**
  - b. Is there any detectable sloughing or bulging? **NO none observed**
  - c. Do slope erosion problems exist? **NO erosion conditions are minimal**
  - d. Cracks or scarps in slope? **NO none observed**
  - e. Surface movements? (valley bottom, hillsides) **NO none observed**
  - f. Erosion of Toe? **NO none observed**
  - g. Water impounded by structure? **NO none observed**
  - h. Are diversion ditches stable? **YES appear reasonable**
  - i. Is drainage positive? **YES surface runoff flows to collection ditches**
  - j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
  - k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
  - l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analysis was provided in December 2012 for most recent material placed in fill.**

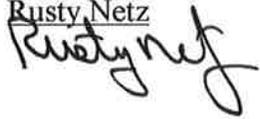
I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
 P.E. Number & State: 187727 UTAH



Affix Signature, Stamp and Date

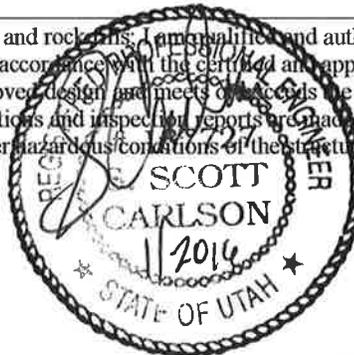
# QUARTERLY INSPECTION FORM – EXCESS SPOIL DISPOSAL AREA

Permit Number: C/007/035 Inspection Date: Dec 30, 2015  
 Mine Name: Sunnyside Refuse and Slurry Annual 2015  
 Mine Operator (Permittee): Sunnyside Cogeneration Associates Inspector: Rusty Netz  
 MSHA ID Number: 1211-UT-09-02093-05 Signature:   
 Facility Name: Excess Spoil Disposal Area #2

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes): **Approx (9,870+6,510+8,120+7,910) 32,410 tons of material placed in the Phase II area during the year**
2. Lift Height / Thickness Avg 2-4 ft Maximum 4 ft Elevation of Active Benches: **approx 6550**
3. Vertical angle of outslope(s) / Location(s) where measured **approx. 5:1**
4. Total storage capacity Phase II Area: **300K-350K cuyd** Remaining storage capacity **estimated 140K-190K cuyd**  
Volume placed during year: **2015 ytd: 32,410 tons**
5. Describe foundation preparation, (including the removal of vegetation, stumps, topsoil, and all organic material): **Organic material was removed. Subsoil was removed for reclamation on Phase 1 area.**
6. Describe Placement and compaction of fill materials (including an explanation of how compaction is confirmed): **Material is generally granular by nature so it is placed, spread by dozer and compacted by wheel rolling**
7. Is there any evidence of fires or burning on the structure? (if Yes, specify extent, location, and abatement / extinguishment of such fires): **No evidence of fires observed**
8. Describe placement of underdrains and protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow): **No underdrains exist. A permanent culvert routes surface water from the east side to west side of the Phase 1 area. Surface drainage is collected in perimeter ditches and diverted to sediment pond. No seepage is visible**
9. Describe any appearances of instability, structural weakness, and other hazardous conditions **No aspects of the Fill structure were observed that could affect its stability or functionality or which indicated hazardous conditions**
10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)
  - a. Are there any cracks or scarps in crest? **NO none observed**
  - b. Is there any detectable sloughing or bulging? **NO none observed**
  - c. Do slope erosion problems exist? **NO erosion conditions are minimal**
  - d. Cracks or scarps in slope? **NO none observed**
  - e. Surface movements? (valley bottom, hillsides) **NO none observed**
  - f. Erosion of Toe? **NO none observed**
  - g. Water impounded by structure? **NO none observed**
  - h. Are diversion ditches stable? **YES appear reasonable**
  - i. Is drainage positive? **YES surface runoff flows to collection ditches**
  - j. Could failure of structure create an impoundment (provide description)? **No surface water flows exist in the vicinity**
  - k. Are design standards established within the mining and reclamation plan for the disposal facility being met? **Yes**
  - l. Proctor Determination: **none required**
11. Provide copies of sample analysis for material placed in the fill. **Sample analyses for material placed during 2015 will be provided in 1<sup>st</sup> qtr. 2016 report. Sample analyses for 2014 material is attached here.**

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with the certified and approved designs for this structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

By: S. Scott Carlson, PE, Twin Peaks, P.C.  
 P.E. Number & State: 187727 UTAH  
 Affix Signature, Stamp and Date



# BRIGHAM YOUNG UNIVERSITY

Environmental Analytical Laboratory

1026 LSB

Provo, UT 84602

801-422-2147

**Plant and Wildlife Sciences  
Department**

## SAMPLE TEST REPORT AND RECOMMENDATIONS

Name Sunnyside Cogeneration  
 Street One Power Plant Road  
Sunnyside Utah 84539  
 City State Zip

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 Excess Spoil Area #2 – Phase 2 – Looking northwesterly

Oct 21, 2015



Sunnyside Excess Spoil Area #1 – Looking northwesterly

Oct 21, 2015



Sunnyside Refuse Pile – West end – Looking northwesterly

Oct 21, 2015



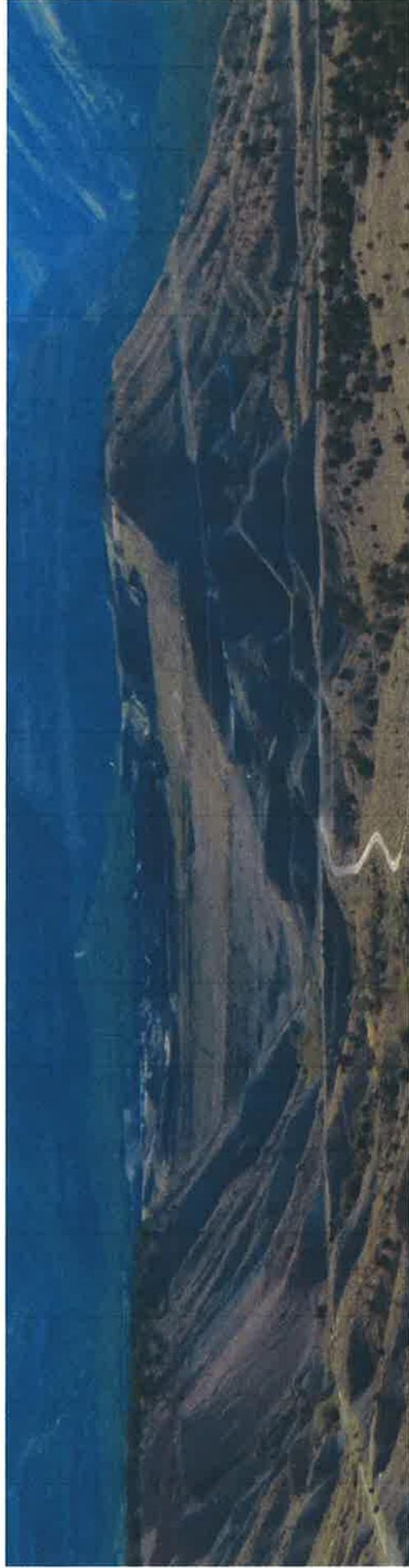
Sunnyside Refuse Pile – Center portion – Looking northwesterly

Oct 21, 2015



Sunnyside – Refuse Pile looking west

April 28, 2015



Sunnyside – Refuse Pile looking east

April 28, 2015



Sunnyside Excess Spoil Area #2 – Phase 2 – Looking northwesterly

April 28, 2015



Sunnyside Excess Spoil Area #2 – Phase 1 – Looking northwesterly

April 28, 2015