

C/007/035 Incoming

OK



Sunnyside Cogeneration Associates

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

January 26, 2012

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

RE: Annual 2011 Inspection Report
Sunnyside Refuse and Slurry C/007/035

Dear Mr. Haddock:

Please find enclosed a copy of the Annual 2011 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,

Richard Carter
Agent For
Sunnyside Cogeneration Associates

c.c. Steve Gross
Maggie Estrada
Rusty Netz
Plant File

RECEIVED

JAN 30 2012

DIV. OF OIL, GAS & MINING

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

GENERAL INFORMATION

Railcut Sediment Pond

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

IMPOUNDMENT IDENTIFICATION

Impoundment Name RailCut Sediment Pond
Impoundment Number 007
UPDES Permit Number UT024759
MSHA ID Number N/A

IMPOUNDMENT INSPECTION

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

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 = 6207.2 +/-

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 very little water in it. 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.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Rail Cut Sediment Pond

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

No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty nety Date: 1/26/12

**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

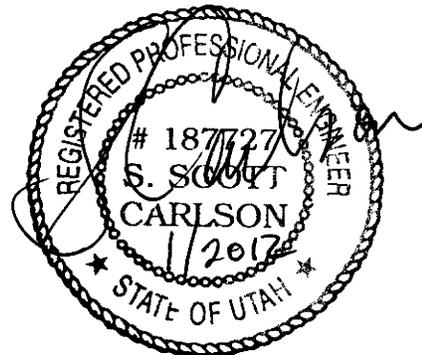
None

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



IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Old Coarse Refuse Road Sediment Pond

GENERAL INFORMATION

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

IMPOUNDMENT IDENTIFICATION

Impoundment Name Old Coarse Refuse Road Sediment Pond
Impoundment Number 008
UPDES Permit Number UT024759
MSHA ID Number N/A

IMPOUNDMENT INSPECTION

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

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 = 6394.4 +/-

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 some water in it. 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.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Old Coarse Refuse Road Sediment Pond

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.

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty nety Date: 1/26/12

**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

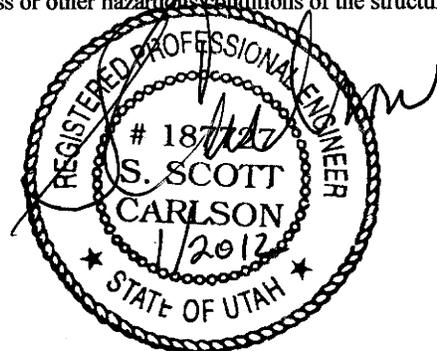
None

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



IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Pasture Sediment Pond

GENERAL INFORMATION

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

IMPOUNDMENT IDENTIFICATION

Impoundment Name Pasture Sediment Pond
Impoundment Number 009
UPDES Permit Number UT024759
MSHA ID Number N/A

IMPOUNDMENT INSPECTION

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

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 = 6485.1 +/-

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 in it. 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.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Pasture Sediment Pond

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.

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty Nety Date: 1/26/12

**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

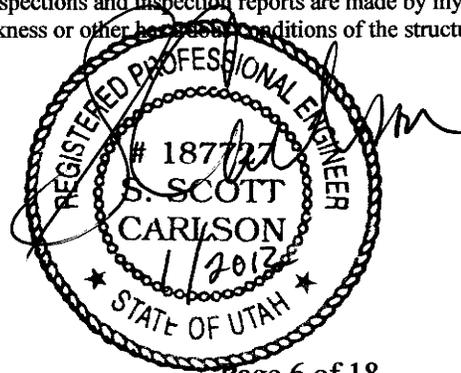
COMMENTS/ OTHER INFORMATION

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Coarse Refuse Toe Sediment Pond

GENERAL INFORMATION

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

IMPOUNDMENT IDENTIFICATION

Impoundment Name New Coarse Refuse Toe Sediment Pond
Impoundment Number 012
UPDES Permit Number UT024759
MSHA ID Number N/A

IMPOUNDMENT INSPECTION

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

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 = 6176.6 +/-

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 outsoles of embankments, etc.

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Coarse Refuse Toe Sediment Pond

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.

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty Retz Date: 1/26/12

**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

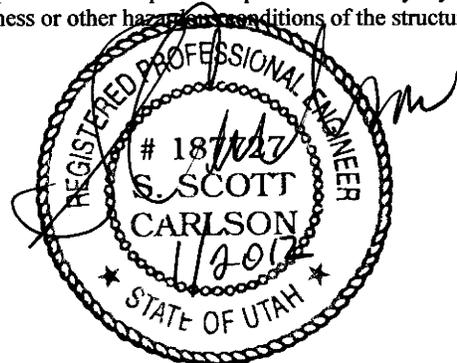
COMMENTS/ OTHER INFORMATION

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

GENERAL INFORMATION

Coal Pile Sediment Pond

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

IMPOUNDMENT IDENTIFICATION

Impoundment Name Coal Pile Sediment Pond
Impoundment Number 014
UPDES Permit Number UT024759
MSHA ID Number N/A

IMPOUNDMENT INSPECTION

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

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 = 1.5 Acre-feet
Pond bottom elevation = 6473.0
100% Sediment Storage Volume = 0.5 acre-feet at Elevation 6476.0
60% sediment Storage Volume = 0.3 acre feet at Elevation = 6474.7
Existing Sediment Elevation = 6474 +/-

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 in it. 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.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Coal Pile Sediment Pond

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.

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty Nety Date: 1/26/12

**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

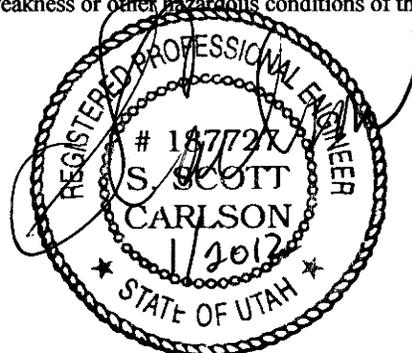
COMMENTS/ OTHER INFORMATION

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

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Borrow Area Sediment Pond

GENERAL INFORMATION

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

IMPOUNDMENT IDENTIFICATION

Impoundment Name Borrow Area Sediment Pond
Impoundment Number 016
UPDES Permit Number UT024759
MSHA ID Number N/A

IMPOUNDMENT INSPECTION

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

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 = 6511 +/-

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 no water in it. 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.

IMPOUNDMENT INSPECTION AND CERTIFIED REPORT

Borrow Area Sediment Pond

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
No water was impounded
Sediment level was good.

No other aspects of the impounding structure were observed that could affect its stability or functionality.

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty Aety Date: 1/26/12

**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

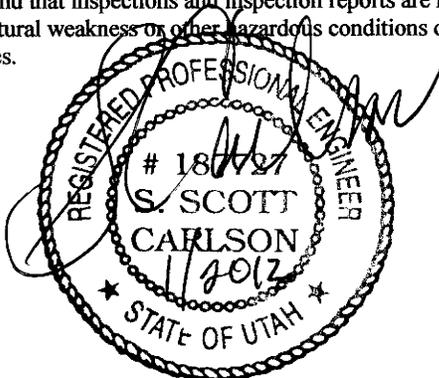
COMMENTS/ OTHER INFORMATION

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

**INSPECTION AND CERTIFIED REPORT
ON EXCESS SPOIL PILE OR REFUSE PILE**

GENERAL INFORMATION

Coarse Refuse Pile

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION

Pile Name Coarse Refuse Pile
Pile Number N/A
MSHA ID Number 1211-UT-09-02093-01

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

Attachment to Report? (such as refuse sample analysis or photos) **YES**

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

N/A

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

N/A

4. Placement and compaction of fill materials

N/A - Activities occurring at this time are associated with removal of refuse material

5. Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions

No aspects of the Fill structure were observed that could affect its stability or functionality

**INSPECTION AND CERTIFIED REPORT
ON EXCESS SPOIL PILE OR REFUSE PILE**

Coarse Refuse Pile

7. Other comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period

Refuse material is actively being excavated and removed from various locations across the top of the pile

See attached Photo

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

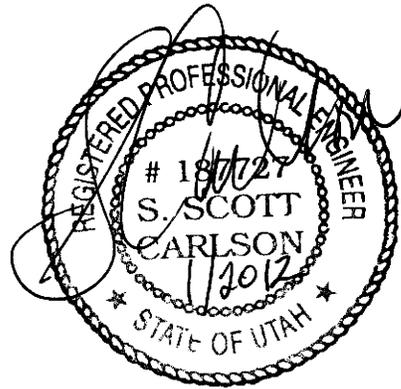
Signature: Rusty nety Date: 1/26/12

CERTIFICATION STATEMENT

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



**INSPECTION AND CERTIFIED REPORT
ON EXCESS SPOIL PILE OR REFUSE PILE**

GENERAL INFORMATION

Excess Spoil Disposal Area #1

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION

Pile Name Excess Spoil Disposal Area #1
Pile Number N/A
MSHA ID Number 1211-UT-09-02093-04

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

Attachment to Report? (such as refuse sample analysis or photos) **YES**

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

N/A

2. Placement of underdrains and protective filter systems.

N/A

3. Installation of final surface drainage systems

N/A

4. Placement and compaction of fill materials

Approximately 99,305 tons of material were placed during the year.
(20,310+25,060+26,670+27,265)

5. Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions

No aspects of the Fill structure were observed that could affect its stability or functionality

**INSPECTION AND CERTIFIED REPORT
ON EXCESS SPOIL PILE OR REFUSE PILE**

Excess Spoil Disposal Area #1

7. Other comments. Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period

Construction of the fill has been proceeding in shallow lifts in general conformance with the approved plan.

See attached Photo

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

Signature: Rusty Noty Date: 1/26/12

CERTIFICATION STATEMENT

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





**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Rusty Netz
Sunnyside Cogeneration
PO Box 159
Sunnyside, UT 84539
TEL: (435) 888-4476

RE: DOGM Spoils #1

Dear Rusty Netz:

Lab Set ID: 1101259

463 West 3600 South
Salt Lake City, Utah
84115

American West Analytical Laboratories received 1 sample(s) on 1/19/2011 for the analyses presented in the following report.

All analyses were performed in accordance to The NELAC Institute protocols unless noted otherwise. American West Analytical Laboratories is certified by The NELAC Institute in Utah and Texas; and is state certified in Colorado and Idaho. Certification document is available upon request. If you have any questions or concerns regarding this report please feel free to call.

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-labs.com

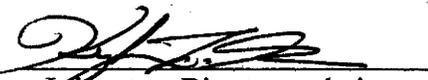
The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitaion limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Thank You,

Approved by:


Laboratory Director or designee

Report Date: 1/31/2011 Page 1 of 3



INORGANIC ANALYTICAL REPORT

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Client: Sunnyside Cogeneration
Project: DOGM Spoils #1
Lab Sample ID: 1101259-001
Client Sample ID: Spoils Pile #1 / Composite Sample
Collection Date: 11/10/2010 1300h
Received Date: 1/19/2011 1120h

Contact: Rusty Netz

TOTAL METALS

463 West 3600 South
Salt Lake City, Utah
84115

| Analytical Results | Units | Date Prepared | | Date Analyzed | | Method Used | Reporting Limit | Analytical Result | Qual |
|--------------------|-----------|---------------|-------|---------------|-------|-------------|-----------------|-------------------|------|
| Boron | mg/kg-dry | 1/20/2011 | 1233h | 1/20/2011 | 1820h | SW6010C | 51.7 | < 51.7 | |
| Calcium | mg/kg-dry | 1/20/2011 | 1233h | 1/20/2011 | 1820h | SW6010C | 103 | 4,440 | |
| Magnesium | mg/kg-dry | 1/20/2011 | 1233h | 1/20/2011 | 1820h | SW6010C | 103 | 1,280 | |
| Selenium | mg/kg-dry | 1/20/2011 | 1233h | 1/21/2011 | 0032h | SW6020A | 0.878 | 3.84 | |
| Sodium | mg/kg-dry | 1/20/2011 | 1233h | 1/20/2011 | 1820h | SW6010C | 103 | 194 | |

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Report Date: 1/31/2011 Page 2 of 3



INORGANIC ANALYTICAL REPORT

**AMERICAN
WEST
ANALYTICAL
LABORATORIES**

Client: Sunnyside Cogeneration **Contact:** Rusty Netz
Project: DOGM Spoils #1
Lab Sample ID: 1101259-001
Client Sample ID: Spoils Pile #1 / Composite Sample
Collection Date: 11/10/2010 1300h
Received Date: 1/19/2011 1120h

463 West 3600 South
Salt Lake City, Utah
84115

| Analytical Results | Units | Date Prepared | Date Analyzed | Method Used | Reporting Limit | Analytical Result | Qual |
|-------------------------|-----------|---------------|-----------------|-------------|-----------------|-------------------|------|
| Conductivity | µmhos/cm | | 1/20/2011 | SW9050A | 10.0 | 517 | H & |
| Nitrate (as N) | mg/kg-dry | | 1/19/2011 1435h | E353.2 | 0.103 | < 0.103 | H * |
| pH @ 25° C | pH Units | | 1/19/2011 1930h | SW9045D | 1.00 | 8.60 | H |
| Sodium Adsorption Ratio | | | 1/19/2011 | Calc. | 0.0100 | 1.00 | |
| Total Nitrogen (as N) | mg/kg-dry | | 1/31/2011 | Calc. | 0.500 | 421 | H |

H - Sample was received outside of the holding time.

& - Analysis is performed on a 1:1 DI water extract for soils.

** - The reporting limits were raised due to sample matrix interferences.*

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Toll Free (888) 263-8686
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e-mail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Report Date: 1/31/2011 Page 3 of 3

American West Analytical Laboratories

WORK ORDER Summary

Client: Sunnyside Cogeneration
 Client ID: SUN100
 Project: DOGM Spoils #1
 Comments: Footnote report, most parameters received outside of hold. Sample for TOC, Sulfur, ABA, ANP, AGP & particle size sent to ACZ Labs.;

Work Order: **1101259**

Page 1 of 1
 1/19/2011
 Standard

Contact: Rusty Netz
 QC Level: LEVEL I

WO Type: Standard

Sample for TOC, Sulfur, ABA, ANP, AGP & particle size sent to ACZ Labs.;

HKS *AK* *AB*

ed

| Sample ID | Client Sample ID | Collected Date | Received Date | Date Due | Matrix | Test Code | Sel | Storage |
|--------------|-----------------------------------|-----------------------|-----------------------|----------|--------|-----------------|-------------------------------------|-------------|
| 1101259-001A | Spoils Pile #1 / Composite Sample | 11/10/2010 1:00:00 PM | 1/19/2011 11:20:00 AM | 2/2/2011 | Solid | COND-S-9050A | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | NO2/NO3-S-353.2 | <input checked="" type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | NO3-S-353.2 | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | PH-9045D | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | PMOIST | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | SAR-S | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | SOIL-PR | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | TKN-S-351.2 | <input checked="" type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | TKN-S-PR | <input type="checkbox"/> | df / wc |
| | | | | 2/2/2011 | | TOTAL-NITROGEN | <input type="checkbox"/> | df / wc |
| 1101259-001B | | | | 2/2/2011 | | 3051A-ICPMS-PR | <input type="checkbox"/> | df / metals |
| | | | | 2/2/2011 | | 6010C-S | <input checked="" type="checkbox"/> | df / metals |
| | | | | 2/2/2011 | | 6020-S | <input checked="" type="checkbox"/> | df / metals |
| 1101259-001C | | | | 2/2/2011 | | OUTSIDE LAB | <input type="checkbox"/> | ACZ Labs. |
| | | | | | | | | 4 |

SEL Analytes: B CA MG NA

SEL Analytes: SE

American West Analytical Laboratories

Chain of Custody

Lab Sample Set #

114/259

Page 1 of 1

Client: **Sunnyside Cogen**
 Address: **#1 Power Plant road**
Sunnyside Utah, 84539

Contact: **Rusty Netz**
 Phone: **435-888-4476**
 Fax:
 Email:

Project Name: **DOGM Spoils #1**
 PO#:

QC Level:
 Turn Around Time

| Sample ID: | Date Sampled | Time | # of Containers | Sample Matrix | pH, SAR, Conductivity | Total Nitrogen | Metals: B, Ca, Mg, Na, Se | Nitrate | ABA, ANP, ACP Calculations | TOC | Partical Size | Total Sulfur | Neutralization Potential | Comments |
|------------|--------------|-------|-----------------|---------------|-----------------------|----------------|---------------------------|---------|----------------------------|-----|---------------|--------------|--------------------------|----------------|
| 1 | 11/10/2010 | 13:00 | 1 | | X | X | X | X | X | X | X | X | X | See Attachment |
| 2 | | | | | | | | | | | | | | also |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |

Special Instructions:

Relinquished by: *Rusty Netz* Signature
 Date: 11/17/2011
 Time: 1800

Received by: *[Signature]* Signature
 Date: 1/19/11
 Time: 1120

Print Name: Rusty Netz
 Print Name: *[Signature]*

SOILS

0905023

20.6

involved in the extinguishing operations. No burning or unburned coal mine waste will be removed from a permitted disposal area without a removal plan approved by the Division. Consideration will be given to potential hazards to persons working or living in the vicinity of the structure.

ACID- and/or TOXIC-FORMING POTENTIAL OF WASTE

Previous tests of the material at the SCA facilities have indicated that the acid- and/or toxic-forming potential of the waste is not a significant problem. However, in order to be conservative, analysis to determine the acid- and/or toxic-forming and alkalinity producing potential of the waste material disposed in the Excess Spoil Disposal Area will be performed for the constituents listed below. The objective of this sampling program is to identify areas within the fill that may adversely impact the surface water, groundwater, plant growth, or the post-mining land use. One grab sample per acre will be taken from each four-foot lift immediately following the completion of the lift and throughout construction of the pile. Results of the sampling shall be submitted to the Division with the Quarterly Engineering Inspection Reports.

Excess spoil that is acid- or toxic-forming or combustible materials placed in the disposal area will be adequately covered with four-feet of non-acid, non-toxic and non-combustible material, or otherwise treated, to control the impact on surface and groundwater, to prevent sustained combustion, and to minimize adverse effects on plant growth and the approved post-mining land use. Excess spoil that is not acid- or toxic-forming or combustible may be used to provide some, or all, of this adequate cover.

Coal mine waste materials, of which geologic properties are uncertain or which have sub-standard geologic characteristics, will be scattered within the interior of the pile at least ten feet from the outer slopes. Waste materials from areas outside of the SCA permit site, but which are comparable to the materials considered in the design of the fill, may be placed in the fill by SCA in accordance with the standards of this section but without additional restriction.

ANALYSIS PARAMETERS

- * pH ✓
- * Particle Size Analysis (% sand, silt, clay) ✓
- * Soluble Ca, Mg, and Na ✓
- * Selenium ✓
- * Nitrate-N ✓
- * Maximum Acid Potential Neutralization Potential ✓
- * Organic Carbon ✓
- * Electrical Conductivity ✓
- * Sodium Adsorption Ration ✓
- * Total N ✓
- * Boron ✓
- * Sulfur-total ✓

Test For these
Acid Base Accounty
send to ACE
Tim Vanweingand

February 09, 2011

Report to:

Elona Hayward
American West Analytical Labs
463 West 3600 South
Salt Lake City, UT 84115

Bill to:

Lynn Turner
American West Analytical Labs
463 West 3600 South
Salt Lake City, UT 84115

cc: Samantha

Project ID: 1101259

ACZ Project ID: L86280

Elona Hayward:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 20, 2011. This project has been assigned to ACZ's project number, L86280. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L86280. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

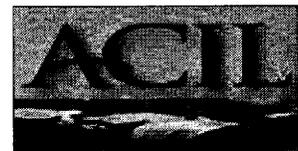
This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after March 09, 2011. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



Tony Antalek has reviewed and approved this report.



American West Analytical Labs

February 09, 2011

Project ID: 1101259

ACZ Project ID: L86280

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 soil sample from American West Analytical Labs on January 20, 2011. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L86280. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. The Acid / Base Accounting procedure was qualified with the ACZ 'N1' flag in order to note that a modified Neutralization Potential procedure (No heat) and Total Sulfur were utilized for calculations.

American West Analytical Labs

Project ID: 1101259
 Sample ID: SPOILS PILE #1/COMPO

ACZ Sample ID: **L86280-01**
 Date Sampled: 11/10/10 13:00
 Date Received: 01/20/11
 Sample Matrix: Soil

Soil Analysis

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------------------------|--|--------|------|----|------------|------|-----|----------------|---------|
| Acid Generation Potential (calc) | M600/2-78-054 1.3 | 10.6 | | * | t CaCO3/Kt | 0.1 | 0.5 | 02/07/11 10:00 | brd |
| Acid Neutralization Potential (calc) | M600/2-78-054 1.3 | 114 | | * | t CaCO3/Kt | 0.1 | 0.5 | 02/07/11 10:00 | brd |
| Acid-Base Potential (calc) | M600/2-78-054 1.3 | 103.4 | | * | t CaCO3/Kt | 0.1 | 0.5 | 02/07/11 10:00 | brd |
| Carbon, total organic (TOC) | ASA No.9 29-2.2.4 Combustion/IR | 13.9 | | * | % | 0.1 | 0.5 | 02/01/11 14:45 | bsu |
| Neutralization Potential as CaCO3 | M600/2-78-054 3.2.3 - Modified (No Heat) | 11.4 | | * | % | 0.1 | 0.5 | 02/05/11 3:00 | bsu |
| Sulfur Forms | M600/2-78-054 3.2.4-MOD | | | | | | | | |
| Sulfur HCl Residue | | 0.30 | | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |
| Sulfur HNO3 Residue | | 0.15 | | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |
| Sulfur Organic Residual Mod | | 0.15 | | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |
| Sulfur Pyritic Sulfide | | 0.15 | | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |
| Sulfur Sulfate | | 0.04 | B | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |
| Sulfur Total | | 0.34 | | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |
| Total Sulfur minus Sulfate | | 0.30 | | * | % | 0.01 | 0.1 | 02/04/11 0:00 | bsu |

Soil Preparation

| Parameter | EPA Method | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|-------------------------|--------------------|--------|------|----|-------|-----|-----|----------------|---------|
| Air Dry at 34 Degrees C | USDA No. 1, 1972 | | | | | | | 01/26/11 11:00 | nrc |
| Crush and Pulverize | USDA No. 1, 1972 | | | | | | | 02/01/11 10:00 | nrc |
| Sieve-250 um (60 mesh) | ASA No.9, 15-4.2.2 | | | | | | | 02/01/11 9:30 | njrc |

Report Header Explanations

| | |
|---------|---|
| Batch | A distinct set of samples analyzed at a specific time |
| Found | Value of the QC Type of interest |
| Limit | Upper limit for RPD, in %. |
| Lower | Lower Recovery Limit, in % (except for LCSS, mg/Kg) |
| MDL | Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations. |
| PCN/SCN | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis |
| PQL | Practical Quantitation Limit, typically 5 times the MDL. |
| QC | True Value of the Control Sample or the amount added to the Spike |
| Rec | Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg) |
| RPD | Relative Percent Difference, calculation used for Duplicate QC Types |
| Upper | Upper Recovery Limit, in % (except for LCSS, mg/Kg) |
| Sample | Value of the Sample of interest |

QC Sample Types

| | | | |
|-------|--|-------|--|
| AS | Analytical Spike (Post Digestion) | LCSWD | Laboratory Control Sample - Water Duplicate |
| ASD | Analytical Spike (Post Digestion) Duplicate | LFB | Laboratory Fortified Blank |
| CCB | Continuing Calibration Blank | LFM | Laboratory Fortified Matrix |
| CCV | Continuing Calibration Verification standard | LFMD | Laboratory Fortified Matrix Duplicate |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank |
| ICB | Initial Calibration Blank | MS | Matrix Spike |
| ICV | Initial Calibration Verification standard | MSD | Matrix Spike Duplicate |
| ICSAB | Inter-element Correction Standard - A plus B solutions | PBS | Prep Blank - Soil |
| LCSS | Laboratory Control Sample - Soil | PBW | Prep Blank - Water |
| LCSSD | Laboratory Control Sample - Soil Duplicate | PQV | Practical Quantitation Verification standard |
| LCSW | Laboratory Control Sample - Water | SDL | Serial Dilution |

QC Sample Type Explanations

| | |
|-------------------------|---|
| Blanks | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples | Verifies the accuracy of the method, including the prep procedure. |
| Duplicates | Verifies the precision of the instrument and/or method. |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any. |
| Standard | Verifies the validity of the calibration. |

ACZ Qualifiers (Qual)

| | |
|---|---|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity. |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time. |
| U | The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. |

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995 & 20th edition (1998).

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

<http://www.acz.com/public/extquallist.pdf>

American West Analytical Labs
Project ID: 1101259

ACZ Project ID: L86280

Carbon, total organic (TOC)

ASA No.9 29-2.2.4 Combustion/IR

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|---------|----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| WG296770 | | | | | | | | | | | | | |
| WG296770PBS | PBS | 02/01/11 13:30 | | | | U | % | | -0.3 | 0.3 | | | |
| L86280-01DUP | DUP | 02/01/11 16:00 | | | 13.9 | 13.8 | % | | | | 0.7 | 20 | |

Neutralization Potential as CaCO3

M600/2-78-054 3.2.3 - Modified (No Heat)

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|----------|-----|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG296882 | | | | | | | | | | | | | |
| WG296882PBS | PBS | 02/04/11 10:30 | | | | U | % | | -0.1 | 0.1 | | | |
| WG296882LCSS | LCSS | 02/04/11 18:45 | PCN33453 | 100 | | 98.63 | % | 98.6 | 80 | 120 | | | |
| L86280-01DUP | DUP | 02/05/11 11:15 | | | 11.4 | 11.55 | % | | | | 1.3 | 20 | |

Sulfur Organic Residual Mod

M600/2-78-054 3.2.4-MOD

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|---------|----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| WG296756 | | | | | | | | | | | | | |
| L86280-01DUP | DUP | 02/04/11 9:00 | | | .15 | .16 | % | | | | 6.5 | 20 | |

Sulfur Pyritic Sulfide

M600/2-78-054 3.2.4-MOD

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|---------|----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| WG296756 | | | | | | | | | | | | | |
| L86280-01DUP | DUP | 02/04/11 9:00 | | | .15 | .16 | % | | | | 6.5 | 20 | |

Sulfur Sulfate

M600/2-78-054 3.2.4-MOD

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|---------|----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| WG296756 | | | | | | | | | | | | | |
| L86280-01DUP | DUP | 02/04/11 9:00 | | | .04 | .04 | % | | | | 0 | 20 | RA |

Sulfur Total

M600/2-78-054 3.2.4-MOD

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|----------|------|--------|-------|-------|-------|-------|-------|-----|-------|------|
| WG296756 | | | | | | | | | | | | | |
| WG296756PBS | PBS | 02/04/11 8:00 | | | | U | % | | -0.03 | 0.03 | | | |
| WG296756LCSS | LCSS | 02/04/11 8:20 | PCN35460 | 4.24 | | 4.35 | % | 102.6 | 3.392 | 5.088 | | | |
| L86280-01DUP | DUP | 02/04/11 9:00 | | | .34 | .36 | % | | | | 5.7 | 20 | |

Total Sulfur Minus Sulfate

M600/2-78-054 3.2.4-MOD

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|---------|----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| WG296756 | | | | | | | | | | | | | |
| L86280-01DUP | DUP | 02/04/11 9:00 | | | .3 | .32 | % | | | | 6.5 | 20 | |

American West Analytical Labs

ACZ Project ID: **L86280**

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|--------------------------------------|---------------------------------|------|--|
| L86280-01 | WG296947 | Acid Generation Potential (calc) | M600/2-78-054 1.3 | N1 | See Case Narrative. |
| | | Acid Neutralization Potential (calc) | M600/2-78-054 1.3 | N1 | See Case Narrative. |
| | | Acid-Base Potential (calc) | M600/2-78-054 1.3 | N1 | See Case Narrative. |
| | WG296770 | Carbon, total organic (TOC) | ASA No.9 29-2.2.4 Combustion/IR | ZQ | Analyte was not evaluated in the laboratory control standard. Either the analyte is not included in the scope of the analytical method or a commercial standard containing the analyte is not available. |
| | WG296756 | Sulfur Sulfate | M600/2-78-054 3.2.4-MOD | RA | Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). |

American West Analytical LabsACZ Project ID: **L86280**

Soil Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

| | |
|---|--|
| Acid Generation Potential (calc) | M600/2-78-054 1.3 |
| Acid Neutralization Potential (calc) | M600/2-78-054 1.3 |
| Acid-Base Potential (calc) | M600/2-78-054 1.3 |
| Carbon, total organic (TOC) | ASA No.9 29-2.2.4 Combustion/IR |
| Neutralization Potential as CaCO ₃ | M600/2-78-054 3.2.3 - Modified (No Heat) |
| Sulfur HCl Residue | M600/2-78-054 3.2.4-MOD |
| Sulfur HNO ₃ Residue | M600/2-78-054 3.2.4-MOD |
| Sulfur Organic Residual Mod | M600/2-78-054 3.2.4-MOD |
| Sulfur Pyritic Sulfide | M600/2-78-054 3.2.4-MOD |
| Sulfur Sulfate | M600/2-78-054 3.2.4-MOD |
| Sulfur Total | M600/2-78-054 3.2.4-MOD |
| Total Sulfur minus Sulfate | M600/2-78-054 3.2.4-MOD |

American West Analytical Labs
 1101259

ACZ Project ID: L86280
 Date Received: 01/20/2011 10:39
 Received By: gac
 Date Printed: 1/21/2011

Receipt Verification

- 1) Does this project require special handling procedures such as CLP protocol?
- 2) Are the custody seals on the cooler intact?
- 3) Are the custody seals on the sample containers intact?
- 4) Is there a Chain of Custody or other directive shipping papers present?
- 5) Is the Chain of Custody complete?
- 6) Is the Chain of Custody in agreement with the samples received?
- 7) Is there enough sample for all requested analyses?
- 8) Are all samples within holding times for requested analyses?
- 9) Were all sample containers received intact?
- 10) Are the temperature blanks present?
- 11) Are the trip blanks (VOA and/or Cyanide) present?
- 12) Are samples requiring no headspace, headspace free?
- 13) Do the samples that require a Foreign Soils Permit have one?

| YES | NO | NA |
|-----|----|----|
| | | X |
| X | | |
| | | X |
| X | | |
| X | | |
| X | | |
| X | | |
| X | | |
| | | X |
| | | X |
| | | X |
| | | X |

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

| Cooler Id | Temp (°C) | Rad (µR/hr) |
|-----------|-----------|-------------|
| NA12329 | 16.4 | 15 |
| | | |
| | | |
| | | |

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

American West Analytical Labs
 1101259

ACZ Project ID: L86280
 Date Received: 01/20/2011 10:39
 Received By: gac
 Date Printed: 1/21/2011

Sample Container Preservation

| SAMPLE | CLIENT ID | R < 2 | G < 2 | BK < 2 | Y < 2 | YG < 2 | B < 2 | O < 2 | T > 12 | N/A | RAD | ID |
|-----------|----------------------|-------|-------|--------|-------|--------|-------|-------|--------|-----|-----|----|
| L86280-01 | SPOILS PILE #1/COMPO | | | | | | | | | X | | |

Sample Container Preservation Legend

| Abbreviation | Description | Container Type | Preservative/Limits |
|--------------|------------------------|----------------|---------------------|
| R | Raw/Nitric | RED | pH must be < 2 |
| B | Filtered/Sulfuric | BLUE | pH must be < 2 |
| BK | Filtered/Nitric | BLACK | pH must be < 2 |
| G | Filtered/Nitric | GREEN | pH must be < 2 |
| O | Raw/Sulfuric | ORANGE | pH must be < 2 |
| P | Raw/NaOH | PURPLE | pH must be > 12 * |
| T | Raw/NaOH Zinc Acetate | TAN | pH must be > 12 |
| Y | Raw/Sulfuric | YELLOW | pH must be < 2 |
| YG | Raw/Sulfuric | YELLOW GLASS | pH must be < 2 |
| N/A | No preservative needed | Not applicable | |
| RAD | Gamma/Beta dose rate | Not applicable | must be < 250 µR/hr |

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: gac



L86280 Chain of Custody

t Analytical Laboratories

American West Analytical Laboratories
Address: 463 W. 3600 S.
Salt Lake City, UT 84115

U86280

Chain of Custody

Contact: Elona Hayward
Phone: (801) 263-8686
Fax: (801) 263-8687

Email: elona@awal-labs.com
sami@awal-labs.com

Lab Sample Set #

Page 1 of 1

QC Level:

Turn Around Time

Project Name:

PO#: 1101259

Standard

| Sample ID: | Date Sampled | Time | # of Containers | Sample Matrix | ABA, ANP, AGP Calculations | Total Sulfur | TOC | Particle Size | Neutralization Potential | Comments |
|----------------------------|--------------|-------|-----------------|---------------|----------------------------|--------------|-----|---------------|--------------------------|----------|
| 1 Spoils Pile #1/composite | 11/10/2010 | 13:00 | 4 | SO | X | X | X | X | X | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |

Appropriate Utah state certifications required.

Special Instructions: Include project name and PO# on final report and invoice. Email results to both Elona and Samantha.

| | | | |
|--|---------------|--|-------|
| Relinquished by: Signature <i>Elona Hayward</i> | Date: 1-19-11 | Received by: Signature <i>[Signature]</i> | Date: |
| Print Name Elona Hayward | Time: 13:00 | Print Name | Time: |
| Relinquished by: Signature | Date: | Received by: Signature | Date: |
| Print Name | Time: | Print Name | Time: |

**INSPECTION AND CERTIFIED REPORT
ON EXCESS SPOIL PILE OR REFUSE PILE**

GENERAL INFORMATION

Excess Spoil Disposal Area #2

Report Date January 19, 2012
Permit Number C/007/035
Mine Name Sunnyside Refuse and Slurry
Company Name Sunnyside Cogeneration Associates

EXCESS SPOIL PILE OR REFUSE PILE IDENTIFICATION

Pile Name Excess Spoil Disposal Area #2
Pile Number N/A
MSHA ID Number 1211-UT-09-02093-05

Inspection Date December 22, 2011
Inspected by Rusty Netz
Reason for Inspection Annual Inspection 2011

Attachment to Report? (such as refuse sample analysis or photos) **YES**

Field Evaluation

1. Foundation preparation, including the removal of all organic material and topsoil.

Existing disturbed site. No additional topsoil removal is required by the approved plan

2. Placement of underdrains and protective filter systems.

No under-drains or filters are required by the approved plan

3. Installation of final surface drainage systems

N/A

4. Placement and compaction of fill materials

No new material was placed in this disposal area during the quarter.

5. Final grading and revegetation of fill.

N/A

6. Appearances of instability, structural weakness, and other hazardous conditions

No aspects of the Fill structure were observed that could affect its stability or functionality

**INSPECTION AND CERTIFIED REPORT
ON EXCESS SPOIL PILE OR REFUSE PILE**

Excess Spoil Disposal Area #2

7. **Other comments.** Describe any changes in the geometry of the Excess Spoil/Refuse Pile structure, instrumentation, average and maximum lifts of materials placed in the pile, elevations of active benches, total and remaining storage capacity of the structure, evidence of fires in the pile and abatement of such fires, volumes of materials placed in the structure during the year, and any other aspect of the structure affecting its stability or function which has occurred during the reporting period

SCA has begun reclamation work on Phase 1 of this Disposal Area. Subsoil materials are being excavated from the proposed Phase 2 area to provide approximately 3 ft of cover over the spoil materials. Salvaged Topsoil and clean borrow material will provide the top (4th) foot of cover.

SCA has submitted a permit amendment for expansion of this Disposal Area into Phase 2 and 3 areas. The Division response on this amendment is expected soon.

See attached Photos

QUALIFICATION STATEMENT:

I hereby certify that; I am experienced in the construction of earth and rock fills; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect 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 approved design and meets or exceeds the minimum design requirements under all applicable federal, state and local regulations; and that inspections are made by myself and include any appearances of instability, structural weakness or other hazardous condition of the structure affecting stability.

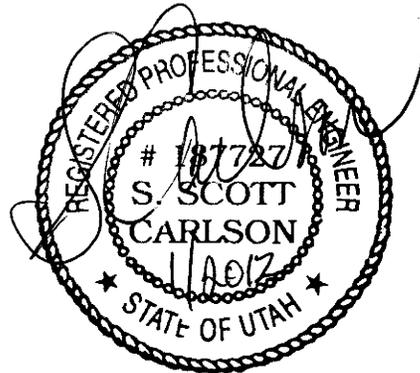
Signature: Rusty nety Date: 1/26/12

CERTIFICATION STATEMENT

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





Coarse Refuse Pile

April 2011



Excess Spoil Disposal Area #1

April 2011



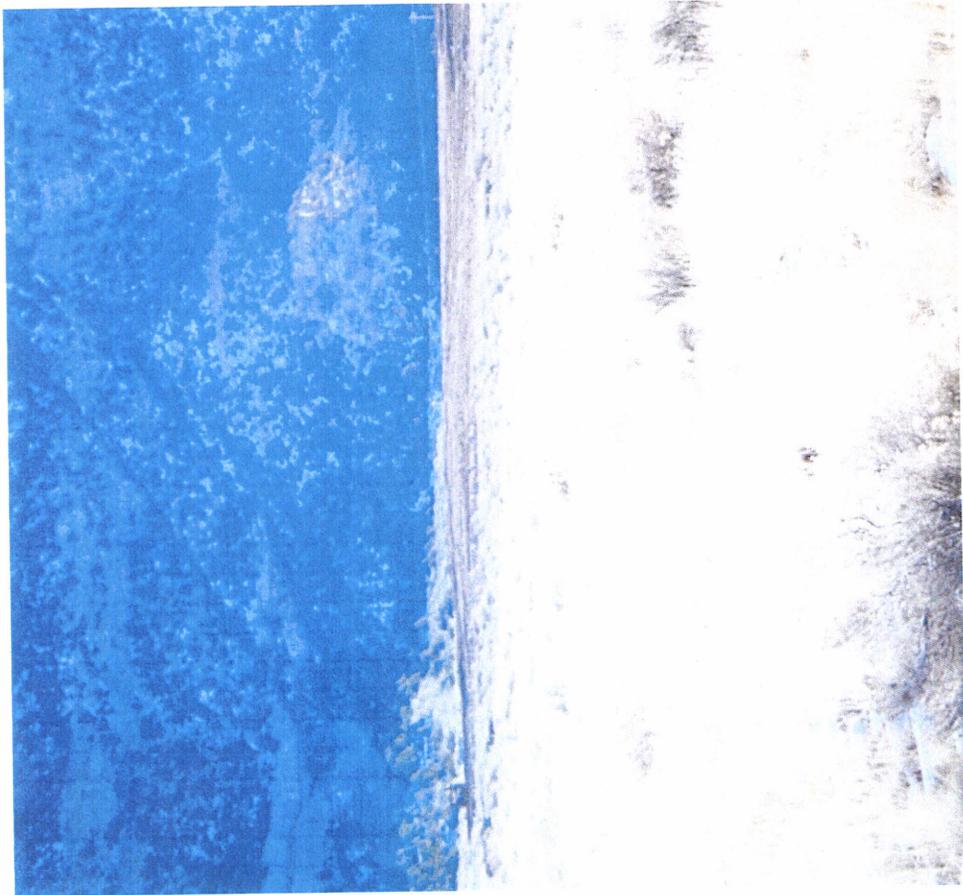
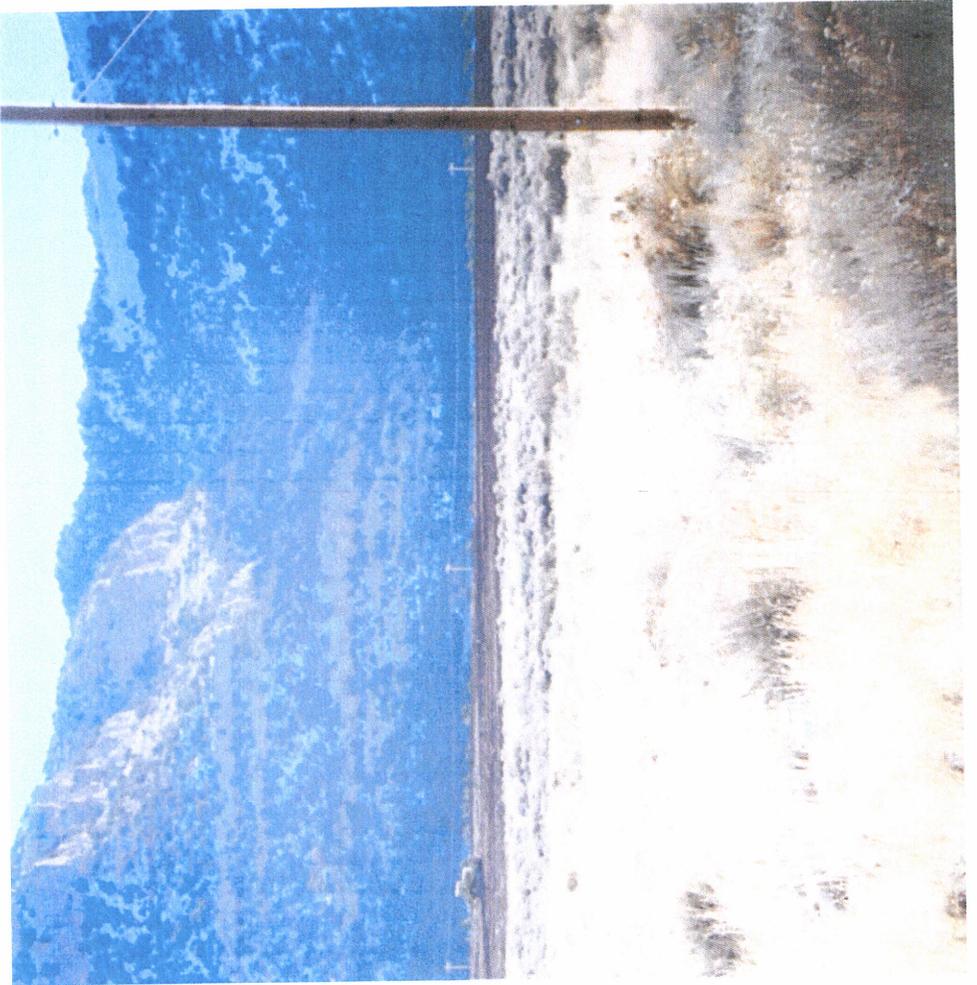
Rail Cut Sediment Pond

April 2011



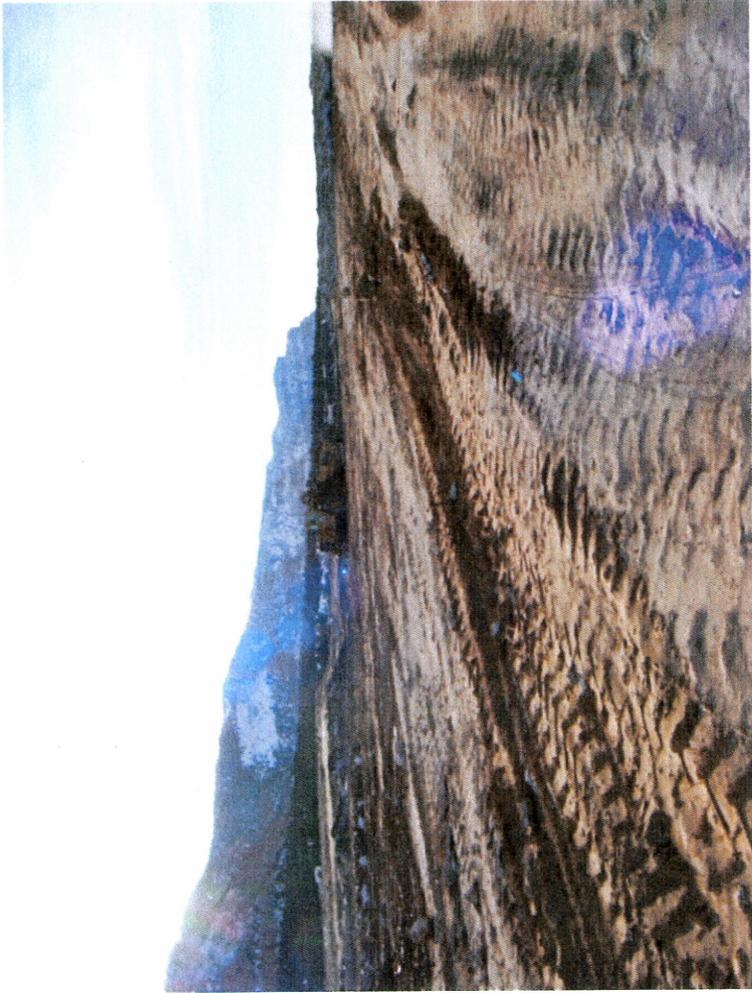
Coarse Refuse Toe Sediment Pond

April 2011



Dec 2011

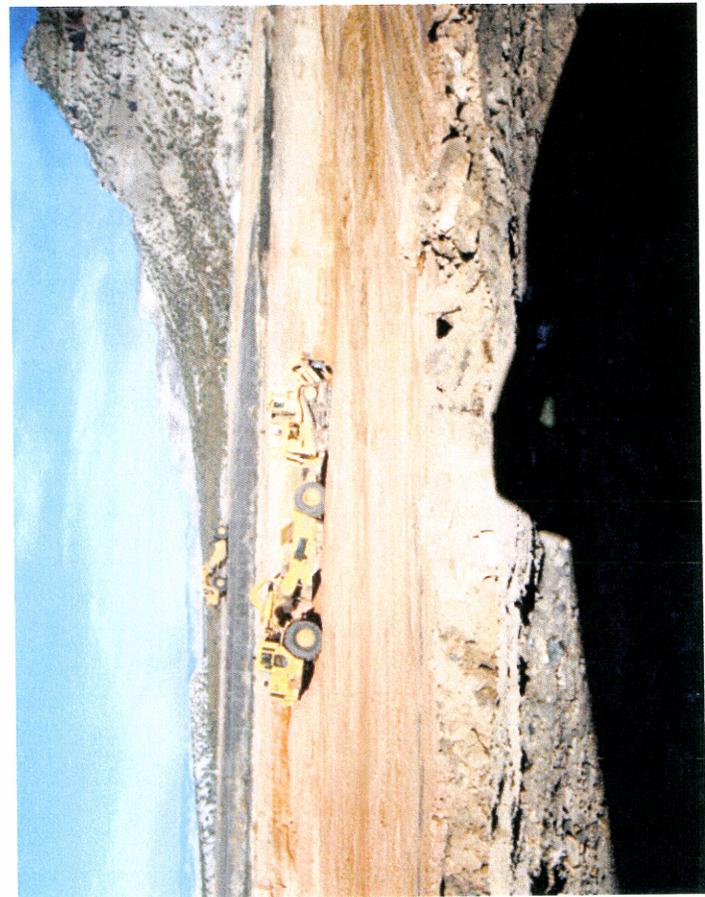
Reclamation work occurring on Excess Spoil Disposal Area #2 – Phase 1



Dec 2011



Reclamation work occurring on Excess Spoil Disposal Area #2 – Phase 1



Subsoil removal (south east of reclamation area – at location of Excess Spoil Disposal Area #2 – Phase 2)

Dec 2011