



**MT NEBO SCIENTIFIC, INC.**  
*research & consulting*

C0070012 Incoming  
# 5600

**VIA: U.S. Priority Mail**

February 16, 2018

Daron Haddock, Environmental Manager  
Utah Coal Regulatory Program  
STATE OF UTAH  
Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

RECEIVED

FEB 20 2018

DIV. OF OIL, GAS & MINING

**RE: Wellington Prep Plant (C/007/0012): "Clean" Copies of the Midterm Permit Review**

Dear Mr. Haddock:

Attached please find Price River Terminal's response to DOGM's Midterm Review. The attachment includes:

- Cover letter
- C1 and C2 forms
- Comments & Instructions for insertion to the MRP.
- Clean copies for the MRP.

Let me know if you have questions and comments.

Sincerely,

Patrick D. Collins, Ph.D.  
Resident Agent

Attachments

cc: T. Stanley (PRT)





# Wellington Preparation Plant (C/007/0012) Midterm Permit Review Response

## Comments & MRP Insertion Instructions

February 16, 2018

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### **Price River Terminal, LLC**

3215 West 4th Street  
Fort Worth, Texas 76107

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The following are comments and insertion instructions for the "clean" copies of the final changes to Wellington Prep Plant's Mining & Reclamation Plan (MRP) as a result of the Midterm Permit Review conducted by the State of Utah, Division of Oil, Gas & Mining (DOGM).

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### **DOGM Request:**

Provide two "clean" copies prepared for incorporation to the Mining and Reclamation Plan (MRP).

### **PRT Comments:**

Clean copies have been provided with this document for insertion to the MRP. *To maintain correct pagination in Chapter 1, pages of previous approved submittals have been included in this document. Their submittal dates were retained.*

Insertion instructions for the MRP follow below.



**MRP Insertion Instructions:**

- Section 1.20, pages 1-14 [(02/16/18) and previous dates] of this submittal replaces Section 1.20, pages 1-5 (05/20/14) in the current MRP.

**MRP Insertion Instructions:**

- Section 1.00, page 4 (02/16/18) of this submittal replaces Section 1.00, page 4 (11/06/13) in the current MRP.

**MRP Insertion Instructions:**

- Map F9-178, 179 (revised 8/11/17) of this submittal replaces Map F9-178, 179 (dated 10/7/94) of the current MRP.
- Section 3.11, page 7 (08/25/17) of this submittal replaces Section 3.11, page 7 (09/10/97) in the current MRP

**MRP Insertion Instructions:**

- Section 3.33 , pages 6-8 (08/25/17) of this submittal replaces Section 3.33, pages 6 (09/10/97) in the current MRP.

**MRP Insertion Instructions:**

- Table 7.24.2 – Remove from MRP
- Table 7.24.5 – Remove from MRP
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Table 7.31.2.1 – New table, insert into Section 7.31.2 of Chapter 7 text
- Page 3 of Section 7.31 – Remove from MRP
- New Page 3 of Section 7.31 – Replaces old page 3
- Page 6b of Section 7.31 – Remove from MRP
- New Page 6b of Section 7.31 – replaces old page 6b
- Page 6c of Section 7.31 – Remove from MRP
- New Page 6c of Section 7.31 – replaces old page 6c

**MRP Insertion Instructions:**

- Appendix J , (02/16/18) of this submittal replaces
- Appendix J, (01/31/13) of the MRP.



## 1.20 LEGAL/FINANCIAL/OWNERSHIP

### IDENTIFICATION OF INTERESTS - (R645-301-112)

#### 112.100 Identification of Permittee, Operator, and Owner

#### 112.300 Names and Addresses of Officers, Directors

### OWNER & OPERATOR

Price River Terminal, LLC  
3215 West 4<sup>th</sup> Street  
Fort Worth, TX 76107  
817-717-1000  
Employer Identification Number: 46-3234994

Price River Terminal is the owner and operator of the Wellington Prep Plant that is responsible for the onsite mining and reclamation activities. As described below, Watco Transloading, LLC is the operator that performs the transloading operations.

As a limited liability company, Price River Terminal does not have any officers and is 55% owned by Sunoco Partners Marketing & Terminals L.P., 25.25% owned by Global One Transport, Inc. and 19.75% by other "Minority Owners" listed below. Listed below are company information, including the officers and their ownership percentage of Sunoco Partners Marketing & Terminals L.P., Global One Transport, Inc. and the other minority partners.

Sunoco Partners Marketing & Terminals L.P., a Texas limited partnership, is 0.010% owned by its General Partner, Sunoco Logistics Partners Operations GP LLC ("SLPOGP LLC"), a Delaware Limited Liability Company and 99.990% owned by its Limited Partner, Sunoco Logistics Partners Operations L.P. ("SPLO LP"), a Delaware Limited Partnership.

SPLO LP is 0.010% owned by its General Partner, Sunoco Logistics Partners GP LLC ("SLPGP LLC"), a Delaware Limited Liability Company and 99.990% owned by its Limited Partners, Energy Transfer Partners, L.P. (formerly known as Sunoco Logistics Partners, L.P.) ("ETP"), a publicly traded Delaware Master Limited Partnership.

SLPGP LLC is 100% owned by ETP.

ETP is 0.33% owned by its General Partner, Energy Transfer Partners GP, L.P. ("ETP GP"), a Delaware Limited Partner. The other limited partnership units are owned by Public Investors.

ETP GP is 0.010% owned by its General Partner, Energy Transfer Partners, L.L.C., a Delaware Limited Liability Company and 99.990% owned by its Limited Partner Energy Transfer Equity, L.P. a publicly traded Delaware Master Limited Partnership.

#### **Sunoco Partners Marketing & Terminals L.P. - 55.00% Ownership**

3807 West Chester Pike  
New Town Square, PA 19072  
Employer Identification Number: 23-3102655

Officers & Directors: None

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## Sunoco Logistics Partners Operations GP LLC

3807 West Chester Pike

New Town Square, PA 19072

Employer Identification Number: 23-3102660

## Sunoco Logistics Partners Operations GP LLC

### Officers & Directors

Name	Title	Role	First Elected
Long, Thomas E.	Director	Director	06/17/2017
Warren, Kelcy L.	Director	Director	06/17/2017
Warren, Kelcy L.	Chief Executive Officer	Officer	06/17/2017
Ramsey, Matthew S.	President & Chief Operating Officer	Officer	06/17/2017
Long, Thomas E.	Chief Financial Officer	Officer	06/17/2017
McCrea, Marshall S. III	Chief Commercial Officer	Officer	06/17/2017
Coffey, Ryan K.	Executive Vice President - Operations	Officer	06/17/2017
Curia, Christopher R.	Executive Vice President & Chief Human Resources Officer	Officer	06/17/2017
Street, Jennifer	Executive Vice President, Operations & Engineering Services	Officer	06/17/2017
Whitehurst, Bradford D.	Executive Vice President - Head of Tax	Officer	06/17/2017
Colella, Joseph	Senior Vice President - Production, Trading & Marketing; & Business Development	Officer	06/17/2017
Malott, James	Senior Vice President - Lease, Acquisition & Marketing	Officer	06/17/2017
Prince, Michael S.	Senior Vice President - Business Development	Officer	06/17/2017
Smith, Michael D.	Senior Vice President - Mergers & Acquisitions	Officer	06/17/2017
Alexander, Harry J.	Vice President - Business Development	Officer	06/17/2017
Bramhall, Dylan	Vice President - Financial Planning & Analysis	Officer	06/17/2017
Dolle, Justin K.	Vice President - Financial Reporting	Officer	06/17/2017
Krebs, Darryl	Vice President - Tax	Officer	06/17/2017
Rose, Robert R.	Vice President - Land & Right-of-Way	Officer	06/17/2017
Sturrock, A. Troy	Vice President & Controller	Officer	06/17/2017
Wright, James M.	General Counsel & Assistant Secretary	Officer	06/17/2017
Healy, William J.	Associate General Counsel & Secretary	Officer	06/17/2017
De Sloover, Tonja	Associate General Counsel - Head of Litigation	Officer	06/17/2017

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**Sunoco Logistics Partners Operations L.P.**  
 3807 West Chester Pike  
 New Town Square, PA 19072  
 Employer Identification Number: 23-3102657  
 Officers & Directors: None

**Sunoco Logistics Partners GP LLC**  
 3807 West Chester Pike  
 New Town Square, PA 19072  
 Employer Identification Number: 23-310258  
 Officers & Directors

Name	Title	Role	First Elected
Long, Thomas E.	Director	Director	06/17/2017
Warren, Kelcy L.	Director	Director	06/17/2017
Warren, Kelcy L.	Chief Executive Officer	Officer	06/17/2017
Ramsey, Matthew S.	President & Chief Operating Officer	Officer	06/17/2017
Long, Thomas E.	Chief Financial Officer	Officer	06/17/2017
McCrea, Marshall S. III	Chief Commercial Officer	Officer	06/17/2017
Coffey, Ryan K.	Executive Vice President - Operations	Officer	06/17/2017
Curia, Christopher R.	Executive Vice President & Chief Human Resources Officer	Officer	06/17/2017
Street, Jennifer	Executive Vice President, Operations & Engineering Services	Officer	06/17/2017
Whitehurst, Bradford D.	Executive Vice President - Head of Tax	Officer	06/17/2017
Colella, Joseph	Senior Vice President - Production, Trading & Marketing; & Business Development	Officer	06/17/2017
Malott, James	Senior Vice President - Lease, Acquisition & Marketing	Officer	06/17/2017
Prince, Michael S.	Senior Vice President - Business Development	Officer	06/17/2017
Smith, Michael D.	Senior Vice President - Mergers & Acquisitions	Officer	06/17/2017
Alexander, Harry J.	Vice President - Business Development	Officer	06/17/2017
Bramhall, Dylan	Vice President - Financial Planning & Analysis	Officer	06/17/2017
Dolle, Justin K.	Vice President - Financial Reporting	Officer	06/17/2017
Krebs, Darryl	Vice President - Tax	Officer	06/17/2017
Rose, Robert R.	Vice President - Land & Right-of-Way	Officer	06/17/2017
Sturrock, A. Troy	Vice President & Controller	Officer	06/17/2017
Wright, James M.	General Counsel & Assistant Secretary	Officer	06/17/2017
Healy, William J.	Associate General Counsel & Secretary	Officer	06/17/2017
De Sloover, Tonja	Associate General Counsel - Head of Litigation	Officer	06/17/2017

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**Energy Transfer Partners, L.P.**  
 8111 Westchester Drive, Suite 600  
 Dallas, TX 75225  
 214.981.0700  
 Employer Identification Number: 23-3096839

Officers & Directors: None

**Energy Transfer Partners GP, L.P.**  
 8111 Westchester Drive, Suite 600  
 Dallas, TX 75225  
 214.981.0700  
 Employer Identification Number: 59-3630327

Officers & Directors: None

**Energy Transfer Partners, L.L.C.**  
 8111 Westchester Drive, Suite 600  
 Dallas, TX 75225  
 214.981.0700  
 Employer Identification Number: 59-3630324

Officers & Directors:

Name	Title	Role	First Elected
Collins, Ted Jr.	Managers/Directors	Director	08/11/2004
Grimm, Michael K.	Managers/Directors	Director	12/29/2005
McCrea, Marshall S. III	Managers/Directors	Director	12/23/2009
Ramsey, Matthew S.	Managers/Directors	Director	11/09/2015
Skidmore, David K.	Managers/Directors	Director	03/08/2013
Warren, Kelcy L.	Chairman of the Board & Managing Director	Director	01/20/2004
Warren, Kelcy L.	Managers/Directors	Director	01/20/2004
Warren, Kelcy L.	Chief Executive Officer	Officer	01/19/2004
Ramsey, Matthew S.	President & Chief Operating Officer	Officer	11/09/2015
Long, Thomas E.	Chief Financial Officer	Officer	04/30/2015
McCrea, Marshall S. III	Chief Commercial Officer	Officer	04/28/2017
Coffey, Ryan K.	Executive Vice President - Operations	Officer	04/23/2014
Curia, Christopher R.	Executive Vice President & Chief Human Resources Officer	Officer	04/23/2014

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Fletcher, Luke	Executive Vice President - Business Development, Natural Gas, Marketing and Optimization	Officer	04/29/2015
Hanse, Lee	Executive Vice President - Business Development, U.S.	Officer	04/29/2015
Mahmoud, Yousif (Joey)	Executive Vice President - Engineering & Construction	Officer	04/28/2017
Street, Jennifer	Executive Vice President, Operations & Engineering Services	Officer	04/19/2016
Whitehurst, Bradford D.	Executive Vice President - Head of Tax	Officer	04/29/2015
Beebe, Brian	Senior Vice President - Commercial Operations	Officer	04/24/2012
Bramhall, Dylan	Senior Vice President - Financial Planning and Analysis	Officer	04/28/2017
Hotte, Steve J.	Senior Vice President & Chief Information Officer	Officer	04/29/2015
Kerrigan, Robert M. III	Senior Vice President - Human Resources, and Administration	Officer	04/28/2017
Prince, Michael S.	Senior Vice President - Business Development	Officer	04/28/2017
Ryoo, Helen	Senior Vice President - Investor Relations & BD	Officer	04/28/2017
Smith, Michael D.	Senior Vice President - Merger and Acquisitions	Officer	04/29/2015
Sturrock, A. Troy	Senior Vice President & Controller	Officer	04/28/2017
Dolle, Justin K.	Vice President - Financial Reporting	Officer	10/05/2010
Krebs, Darryl	Vice President - Tax	Officer	09/18/2013
Ratliff, Brent	Vice President - Investor Relations	Officer	04/24/2012
Wright, James M.	General Counsel & Assistant Secretary	Officer	04/19/2016
Healy, William J.	Associate General Counsel & Secretary	Officer	12/18/2015
De Sloover, Tonja	Associate General Counsel - Head of Litigation	Officer	04/19/2016

**Global One Transport, Inc. 25.2503% Ownership**

3215 West 4th Street  
Fort Worth, TX 76107  
817-717-1000

Employer Identification Number: 20-1528722

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**Officers & Directors:**

<b>Name</b>	<b>Title</b>	<b>Ownership</b>	<b>Date Position Began</b>
Darrell D. Dial	Chairman and Treasurer	33.333%	May 25, 2005
Timothy P. Stanley	President and CEO	0%	May 25, 2005
Jason D. Dial	Vice President and Secretary	33.333%	May 25, 2005
Russell D. Dial	Vice President	33.333%	May 25, 2005

**PRT MINORITY OWNERS**

**Stanley Bope Holdings, LP - 12.4282% Ownership**

3215 West 4th Street

Fort Worth, TX 76107

614-832-3578

Employer Identification Number: 45-4203006

**Stanley Bope Holdings, LP Ownership as of January 1, 2017**

<u>Name</u>	<u>Ownership</u>
Timothy P. Stanley	67.0%
Jessica L. Senften	16.0%
Joshua W. Stanley	16.0%
Stanley Bope Inc	1.0%

**Agape Linbeck Operating, LLC - 2.8450% Ownership**

804 West Friar Tuck Lane

Houston, TX 77024

713-993-4069

Employer Identification Number: 27-3919458

**Drawgridge Holdings, LLC - 2.8450% Ownership**

3404 Chevy Chase

Houston, TX 77019

832-367-0934

Employer Identification Number: 46-2848059

**Dial Family Partners, LP - 1.6315%**

3215 West 4th Street

Fort Worth, TX 76107

817-717-1000

Employer Identification Number: 20-8898501

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**OPERATOR**

Watco Transloading, LLC  
315 W 3rd Street  
Pittsburgh, KS 66762  
(620) 231-2230  
Employer Identification Number: 27-0732018

NOTE: Watco Transloading, LLC will only be performing work related to the oil transloading process and will not be involved in any mining or reclamation activities.

Officers & Directors:

Name	Title	Ownership	Date Position Began
Gary L. Lundy	Chairman of the Board	None	January 1, 2014
Richard B. Webb	Chief Executive Officer	None	September 11, 2009
Rick D. Baden	President Chief Financial Officer, Treasurer and Assistant Secretary	None	Since December 1, 2015 Since September 11, 2009
Dan C. Smith	Executive Vice-President, Chief Operating Officer	None	December 1, 2015
Craig R. Richey	Executive Vice President, General Counsel, Secretary, Assistant Treasurer	None	September 11, 2009
Arthur E. McKechnie, III	Executive Vice President, Chief of Global Strategy	None	March 15, 2013
Stefan Loeb	Executive Vice-President, Chief Marketing Officer, Assistant Secretary	None	December 1, 2015

The only entity with a greater than 10% ownership in Watco Transloading, LLC is Watco Holdings, Inc.

Watco Holdings, Inc.  
315 W 3rd Street  
Pittsburgh, KS 66762  
(620) 231-2230  
Employer Identification Number: 27-3775072

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Below are listed the entities with a greater than 10% ownership in Watco Holdings, Inc.

Kaye Lynn Webb Grantor Retained Annuity Trust No. 1, under trust agreement dated December 30, 2009

Trustees: James B. Betterman and Richard B. Webb

2345 Grand Avenue Blvd., Suite 2200

Kansas City, MO 64108

Employer Identification Number : 27-6558600

The Kaye Lynn Webb Irrevocable Trust of 2009, under trust agreement dated December 30, 2009

Trustees: James B. Betterman and Richard B. Webb

2345 Grand Avenue Blvd., Suite 2200

Kansas City, MO 64108

Employer Identification Number: 27-6558570

**Name(s) under which permittee and operator previously operated mining activities (R645-301-320):**

Neither Price River Terminal, LLC; Sunoco Partners Marketing & Terminals, L.P., Global One Transport, Inc.; Watco Transloading LLC; nor Watco Holdings, Inc. have previously operated a mine or conducted mining activities within the past five years.

**112.210 Name, Address & Telephone Number of Resident Agent:**

Patrick D. Collins, Ph.D.

Mt. Nebo Scientific, Inc.

330 East 400 South, Suite 6

P.O. Box 337

Springville, UT 84663

(801) 489-6937

**112.230 Abandoned Mine Land Reclamation Fee**

The operator listed below will be responsible for the Abandoned Mine Reclamation Fee if "mining" occurs on the property and if this fee is still assessed for the type of mining that is proposed for future activities.

WATCO

315 W 3rd Street

Pittsburgh, KS 66762

(620) 231-2230

Employer Identification Number: 27-0732018

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**112.400 Pending, Current and Previous Coal Permits:**

Permittee's Previous Coal Permits: Not Applicable

Owner's Previous Coal Permits: Not Applicable

**112.500 Legal or Equitable Owners of Record**

The legal or equitable owner of the areas to be affected by the surface operator and facilities of the permit applicant are:

Price River Terminal, LLC  
3215 West 4th Street  
Fort Worth, Texas 76107

**112.510 The Holders of Record of Any Leasehold Interest in Areas to be Affected by Surface Operation of Facilities**

MCI  
136 East South Temple  
University Club Bldg., Suite 2000  
Salt Lake City, UT 84111

**112.520 Owner of Coal Estate for the Mined Areas**

Not applicable

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## 112.600 Owners of Record of Surface Areas Within and Contiguous to the Permit Area:

### Property Owners: Inside Permit Boundary

Name & Address	Parcel Number	Acres
Nevada Electric Investment Co. 6226 W Sahara Ave. P.O. Box 230 Las Vegas, NV 89151-0001	02-2174	80.00
Nevada Electric Investment Co. P.O. Box 10100 Reno, hiv 89520-0000	02-1931-C	413.95
Nevada Electric Investment Co. 6226 W Sahara Ave. P.O. Box 230 Las Vegas, NV 89151-0001	02-1664-3	80.00
Nevada Electric Investment Co. 6226 W Sahara Ave. P.O. Box 230 Las Vegas, NV 89151-0001	02-1664-4	523.86
Nevada Electric investment Co. 6226 W Sahara Ave. P.O. Box 230 Las Vegas, NV 89151-0001	02-1664-5	203.80
Nevada Electric investment Co. 2835 S Jones Blvd Suite 5 Crandall Canyon Project Las Vegas, NV 89151-0001	02-1664-6	120.04
Denver & Rio Grande Western Railroad Union Pacific Railroad Co. One Market Plaza SP Bldg Property Tax Dept. Room 200 San Francisco, CA 94105-0000	2A-1690	6.07
Wellington City P.O. Box 559 Wellington, UT 84524-0000	2-1944	0.88

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**Property Owners: Adjacent to Permit Boundary**

Name & Address	Parcel Number	Acres
Lee Ann C. P.O. Box 146 Mayfield, UT 84643-0000	2-1951-4	5.00
Roger Brown 401 Catherine St. Steelton, PA 17113	2-1951	0.24
Dee L. Hugely 845 N Castle Heights St. Price, UT 84501	2-1947	29.47
Delbert K & Brenda Thayne 7488 E Highway 6 Price, UT 84501	2-2t72	117.17
United States of America Bureau of Land Management No Address listed	2A-1656-10F Section 10, T15S, R11E, SLB&M	None listed
United States of America Bureau of Land Management No Address listed	2A-1656-15F Section 15, T15S, R11E, SLB&M	None listed
United States of America Bureau of Land Management No Address listed	2A-1656-22F Section 22, T15S, R11E, SLB&M	None listed
United States of America Bureau of Land Management No Address listed	2A-1656-21F Section 22, T15S, R11E, SLB&M	None listed
United States of America Bureau of Land Management No Address listed	2A-1656-10F Section 22, T15S, R11E, SLB&M	None listed
Utah State Institutional Trust Lands No Address listed	2A-1656-20S Section 22, T15S, R11E, SLB&M	None listed
Birch Creek Limited Partnership Arrowwood Management Corp. 3225 McLeod Dr. Suite 100 Las Vegas NV 89121	2A-9-A	640.00

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**112.610 The Holders of Record of Any Leasehold Interest in the Coal to be Mined**

Not applicable

**112.700 Mine Structures that require MSHA Numbers**

Plant Refuse Pile - 121 1-UT -09-00099-0 1  
Clear Water Pond - 12 11-UT -09-00099-02  
Lower Refuse Pond - 1211-UT-09-00099-03  
Upper Refuse Pond - 12 11-UT-09-00099-04  
Pond Refuse Pile - 121 1-UT-09-00099-05

**112.800**

There are no outstanding interests in lands, options or pending bids on interests held or made by the applicant for lands which are contiguous to the areas to be covered by the permit.

**VIOLATION INFORMATION (R645-301-113)**

**113.100 Compliance Information**

Neither the permittee, operator, nor owner, nor any of their subsidiaries, affiliates or persons controlled by or under common control with the permittee has had a federal or state mining permit suspended or revoked in the last five years.

The permittee has not forfeited a performance bond or similar security deposited in lieu of bond in the past five.

**113.200 Explanations of Suspensions, Revocations and Forfeitures**

Not applicable

**113.300 Violation Notices**

No violation notices have been issued to the permittee in connection with any underground or surface coal mining activities for the past five-year period.

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## **RIGHT OF ENTRY INFORMATION (R645-301-114)**

### **114.100 Right of Entry and Operations Information**

PRT's right of entry is based on legal ownership of the Wellington property as conveyed to PRT by NEICO on October 31, 2013 in the Special Warranty Deed, which is provided in Appendix E. The Deed contains a full description of the Property acquired. The right of entry is not subject to any pending litigation.

### **114.200**

Not applicable

## **R645-301-115 STATUS OF UNSUITABILITY CLAIMS**

### **115.100 Unsuitability Claims**

The permit area is not within an area designated as unsuitable or under study as an area designated as unsuitable under R645-1 03-300, R645-1 03-400, or 30 CFR 769.

### **115.200**

Not applicable

### **115.300 Distances From Dwellings and Public Road**

As described in the key plan (**Appendix B**) the start of access road regrading will begin approximately 400 feet from the county road. The west rail yard reconfiguration in Phase II will take place approximately 500 feet from the county road. All other planned construction and operations will be at greater distances.

here are currently no residential dwellings on the property. The closest off property residential dwelling is approximately 1/2-mile north of the property.

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## **R645-301-116 PERMIT TERM INFORMATION**

The permit renewal date occurs on a 5-year basis.

### **116.100 Coal Mining and Reclamation Operations**

Beginning in March 2015 Sunnyside Cogeneration signed a contract with Price River Terminal (PRT) to remove coal refuse fines from the slurry ponds at the Wellington site. Removal of the fines will enable them to be used at a cogeneration power plant as well as being instrumental for initiation of final reclamation for that area of the Wellington site. The contract provides for the removal of a minimum of 130,000 tons per year through 2022.

## **PERSONAL INJURY AND PROPERTY DAMAGE INSURANCE (R645-301-117)**

### **117.100 Certificate of Insurance**

A Certificate of Liability Insurance has been issued to Price River Terminal with DOGM named as additionally insured. The coverage amounts of \$6 million for both each occurrence and general aggregate exceed the minimum insurance coverage requirements. A copy of the insurance certificate is presented in **Appendix C**.

### **117.200 Newspaper Advertisement and Proof of Publication**

A copy of the Affidavit of Publication in the Sun Advocate is presented in **Appendix D**.

### **117.210 Statement by Operator**

A statement by the owner, PRT, agreeing to comply with appropriate requirements will be provided upon closing of the property sale.

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**Property Description and Acreage**

The property description and applicable acreage of the current permit area is presented below.

The permit area is located at 6000 Wash Plant Road, City of Wellington, and Carbon County, Utah. A total of 1573.5 acres are current in the permit area. A property description of the permit area is given below.

Township 15 South, Range 11 East, Salt Lake Base and Meridian:

- Section 8 SE ¼ SE ¼,  
NE ¼ SE ¼ (portions s. of Ridge Road),  
NW ¼ SE ¼ (portions s. of Ridge Road),  
SW ¼ SE ¼ (portions s. of Ridge Road).
- Section 9 S ½ (portions s. of Ridge Road),  
,
- Section 10 W½ SW ¼
- Section 15 W½ NW ¼
- Section 16 All
- Section 17 NE¼, E ½ SE ¼

**Wellington Preparation Plant Acreage**

<b>Undisturbed</b>	<b>1307.8</b>
<b>Total Disturbed/Bond (see Dwg. E9-3333)</b>	<b>392.0</b>
<b>Total Permit Acreage (see Dwg. E9-3341 and E9-3333)</b>	<b>1699.8</b>
<b>Area Removed from Permit Area (north of Ridge Road)</b>	<b>126.3</b>
<b>Total of the Present Permit Area</b>	<b>1573.5</b>

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Total mean woody plant species per acre was 3,963.9 (Table 11). Total above ground annual production for the Sarcobatus-Suaeda community was estimated at 728.99 pounds per acre. For these totals and production by lifeform, refer to Table 12.

The range condition was rated as "high fair (mid seral)" by the USDA Natural Resource Conservation Service (as per October 25, 1995 letter). A copy of this letter has been included in Appendix G.

#### Disturbed Community

There are about 356 acres on the permit area that were disturbed by roads, settling ponds, facilities, waste areas, etc. Most of these disturbed soils are dominated by "weedy" plant species [i.e. halogeton (Halogeton glomeratus), fivehook bassia (Bassia hyssopifolia) and summer cypress (Kochia scoparia)]. For a more complete species list of the disturbed community, refer to the asterisked species in Table 13.

#### Riparian Community

As mentioned in the INTRODUCTION, the Price River dissects the properties and supports a riparian plant community (see Maps A-C). The disturbance to this community was less than one acre and therefore was not sampled by quantitative methods.

#### Threatened and Endangered Species

No sensitive, threatened or endangered plant species were found on or near the Wellington Railroad Loadout Facility.

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will develop coal haulage contracts that require involved with coal haulage to use extreme caution accidental collisions between motor vehicles and big reduced. Reduced speeds will be used when crossing areas during crucial periods between November 1 and May.

o Protection of Threatened and Endangered Species

The Company will promptly report to the appropriate regulatory authorities any state or federally listed threatened or endangered species within the permit area of which the Company becomes aware, as per R614-301-3 S6.100. The endangered Colorado squawfish (*Ptychocheilus lucius*) has been reported at the Farnham Diversion in July 1997 by the UDWR, which is within the permit area. Since the regulatory state agency reported the endangered fish it is assumed that the reporting requirement has been satisfied. Upon abandonment of the project and reclamation of the associated disturbances the area of the Wellington Plan will eventually be reinvaded by those wildlife species that were originally displaced. Detailed reclamation and revegetation plans are presented in Section 3.40 of this Chapter.

Lisa Reinhart, a DOGM biologist, accessed the U.S. Fish and Wildlife Service's, Information for Planning and Consultation (IPaC) website on May 30, 2017 to evaluate federally protected species within the permit area. As a result, she notes that there are six (6) protected species within the area. They were: Mexican Spotted Owl, Yellow-billed Cuckoo, Bonytail Chub, Colorado Pikeminnow, Humpback Chub, and Razorback Sucker. There were no critical habitats identified in the permit area.

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Fish and wildlife are discussed throughout Chapter 3, Section 3.11, and the State of Utah, Division of Wildlife Resources Publication No. 78-16, Appendix A. This publication does evaluate the Yellow-billed Cuckoo and notes it could be a summer resident of the project area. This bird only nests in the riparian habitat. Such areas are of critical value to the maintenance of this species. Consequently, the riparian habitat along the Price River that dissects the Wellington Prep Plant will not be disturbed to ensure protection and enhancement of the Yellow-billed Cuckoo habitat.

The Mexican Spotted Owl has not been evaluated in the MRP but this species requires wooded canyons with narrow side canyons which are not present within the permit area. Water withdrawal rates for the site have been calculated in order to comply with the 1996 Biological Opinion (BO) for Colorado River Fishes mentioned above.

The Price River dissects the Wellington Prep Plant property. This river enters the Green River downstream that ultimately flows into the Colorado River. Fish habitat at the site has been discussed, but to account for the Upper Colorado River Endangered Fish Recovery Program and satisfy the 1996 BO for Colorado River fishes, water consumption has been calculated as a means to determine the potential impact of the site to the endangered fish in the upper Colorado River system. Consequently, the annual water withdrawal rate for the Wellington Prep site has been reassessed.

Aside from normal water use for onsite restroom facilities, only water use at the site is on surface areas for dust suppression. Each dust suppression treatment uses 4,000 gallons of water. Number of treatments per day depends on the month of the year. The following table estimates the annual water consumption for dust suppression at the Wellington Prep Plant.

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## Water Consumption for Dust Suppression at the Wellington Prep Plant

Month	Treatments/Day	Days/Week	Treatments/Week	Gallons/Month	Acre Feet
January	0	0	0	0	0.000
February	0	0	0	0	0.000
March	1	1	1	4000	0.012
April	1	2	2	8000	0.025
May	1	4	4	16000	0.049
June	2	5	10	40000	0.123
July	2	5	10	40000	0.123
August	2	5	10	40000	0.123
September	1	4	4	16000	0.049
October	1	1	1	4000	0.012
November	0	0	0	0	0.000
December	0	0	0	0	0.000
<b>TOTAL</b>	<b>11</b>	<b>27</b>	<b>42</b>	<b>168000</b>	<b>0.516</b>

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### 7.31.2. WATER MONITORING

The monitoring plan for groundwaters and surface waters is described in Tables 7.31.2-1, 7.31.2-2, 7.31.2-4, 7.31.2-5 and 7.31.2-6. Groundwater and surface water monitoring stations are shown on Map E9-3451. The locations of UPDES monitoring stations and the locations of historic monitoring sites are also shown on Map E9-3451.

Ground and surface water monitoring are described below. Field measurements collected for both surface and ground water stations are collected with the aid of meters, except for dissolved oxygen which is monitored by use of either a meter or a field test kit using chemicals. Recommended procedures and guidelines for water sampling is attached to this MRP as Appendix 7.31-1. Results of the water monitoring program will be submitted on a quarterly basis to the Division's electronic water quality database.

The water monitoring plan has been designed to verify that impacts to the hydrologic balance do not occur as a result of mining and reclamation activities at the Price River Terminal permit area. The monitoring plan may be used to detect potential impacts by comparing the results of baseline water monitoring activities with current water monitoring data. In such an evaluation, other important factors that should be considered include climatic variability and land use and management practices.

It has been noted that there have been some historic problems with data sampling which the operator desires to resolve. As a solution the Operator agrees that flows monitored as part of the surface water monitoring program will be measured and not listed as "greater or lesser than" (unless measurement is not practically possible or do to hazard to life), and that Copies of field data collection sheets will be submitted to the Division upon request.

### 7.31.21. GROUND WATER MONITORING

A ground water monitoring plan, based upon the PHC determination, as described in Appendix I and Section 7.28, and baseline hydrologic and geologic information has been developed. The monitoring of groundwaters at the Price River Terminal is carried out as specified in Tables 7.31.2-1, 7.31.2-2, 7.31.3-3, and 7.31.2-5. Prior to 1996, fourteen wells were monitored quarterly for the parameters of Operational Monitoring in Table 3 of the Division's Guidelines for Establishment of Surface and Ground Water Monitoring Programs for Coal Mining and Reclamation Operations. In May 1996, a proposal was submitted to the Division to request the elimination of quality monitoring from site GW-2, total elimination of site GW-5, and the addition of two new well sites, GW-15 and GW-16. Site locations are shown on Dwg. E9-3451.

Well GW-2 will continue to collect water level data.

In November 1997, wells GW-15A, GW-15B, GW-16 and GW-17 were installed and added to the monitoring plan. Their locations are shown on DWG. E9-3451A. GW-15a and GW-15b will monitor undisturbed water in the coal fines. Permeability tests will be conducted on each of these wells prior to February 1, 1998, and results will be reported to the Division.

Baseline parameters for groundwaters will be collected as specified in Tables 7.31.2-1, 7-31.2-2, and 7.31.2-5.

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**Table 7.31.2-1 Hydrologic monitoring protocols for Wellington Prep Plant water monitoring stations.**

	<u>Water Level/Flow</u>	<u>Water Quality</u>
<b>Wells – East side of Price River</b>		
GW-1	1	A, C
GW-2	1	--
GW-3	1	A, C
GW-4	1	A, C
GW-6	1	A, C
GW-15a	1	A, C
GW-15b	1	A, C
GW-16	1	A, C
GW-17	1	A, C
<b>Surface Water – East side of Price River</b>		
SW-1	2	B, D
SW-2	2	--
SW-2a	--	B, D
SW-3	2	B, D
SW-4	2	B, D
SW-5	2	B, D
SW-6	2	B, D
SW-7	2	B, D
<b>Wells – West side of Price River</b>		
GW-7	1	A, C
GW-8	1	A, C
GW-9	1	A, C
GW-9b	1	A, C
GW-10	1	A, C
GW-13	1	A, C
GW-14	1	A, C
<b>Surface Water – West side of Price River</b>		
SW-8	2	B, D

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**Table 7.31.2-2 Hydrologic monitoring protocols.**

Water Level/Flow

- 1 Monitoring well: quarterly water level measurement when site is reasonably accessible.
- 2 Surface water monitoring sites: Quarterly discharge measurement when site is reasonably accessible. Site will not be physically accessed when high flows, mud, or ice is present that presents a danger to health and safety. Under such conditions, an attempt will be made to perform a discharge measurement using a technique that does not jeopardize health and safety. When the stream is ice-covered, it is usually not possible to perform a discharge measurement.

Water Quality

- A Monitoring well: quarterly field and laboratory water-quality measurements as specified in Table 7.31.2-3 when site is reasonably accessible.
- B Surface water: quarterly field and laboratory water-quality measurements as specified in Table 7.31.2-4 when site is reasonably accessible.
- C Monitoring well: field and laboratory water-quality measurements for baseline parameters as specified in Table 7.31.2-5 only during the second or third quarter monitoring event every five (5) years when the site is reasonably accessible. The most recent baseline monitoring was performed during the 3<sup>rd</sup> quarter of 2014. Therefore, the next baseline monitoring event is scheduled for 2019, with subsequent events planned to occur every five years thereafter (2024, 2029, etc.).
- D Surface water: field and laboratory water quality measurements for baseline parameters as specified in Table 7.31.2-6 only during the second or third quarter monitoring event every five (5) years when the site is reasonably accessible. The most recent baseline monitoring was performed during the 3<sup>rd</sup> quarter of 2014. Therefore, the next baseline monitoring event is scheduled for 2019, with subsequent events planned to occur every five years thereafter (2024, 2029, etc.).

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**Table 7.31.2-3 Groundwater operational and reclamation phase water-quality monitoring parameters.**

<u>FIELD MEASUREMENTS</u>	<u>REPORTED AS</u>
pH	pH units
Specific Conductance	µS/cm
Temperature	°C
 <u>LABORATORY MEASUREMENTS</u>	
Calcium (dissolved)	mg/L
Magnesium (dissolved)	mg/L
Sodium (dissolved)	mg/L
Potassium (dissolved)	mg/L
Bicarbonate	mg/L
Carbonate	mg/L
Sulfate	mg/L
Chloride	mg/L
Boron (total)	mg/L
Boron (dissolved)	mg/L
Iron (total)	mg/L
Iron (dissolved)	mg/L
Lead (dissolved)	mg/L
Manganese (total)	mg/L
Manganese (dissolved)	mg/L
Selenium (total)	mg/L
Selenium (dissolved)	mg/L
Total Dissolved Solids (TDS)	mg/L
Total Alkalinity	mg/L
Total Hardness	mg/L
Cation/Anion Balance	%

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**Table 7.31.2-4 Surface water operational and reclamation phase water-quality monitoring parameters.**

<u>FIELD MEASUREMENTS</u>	<u>REPORTED AS</u>
pH	pH units
Specific Conductance	µS/cm
Temperature	°C
 <u>LABORATORY MEASUREMENTS</u>	
Calcium (dissolved)	mg/L
Magnesium (dissolved)	mg/L
Sodium (dissolved)	mg/L
Potassium (dissolved)	mg/L
Bicarbonate	mg/L
Carbonate	mg/L
Sulfate	mg/L
Chloride	mg/L
Boron (total)	mg/L
Boron (dissolved)	mg/L
Iron (total)	mg/L
Iron (dissolved)	mg/L
Manganese (total)	mg/L
Manganese (dissolved)	mg/L
Selenium (total)	mg/L
Selenium (dissolved)	mg/L
Total Dissolved Solids (TDS)	mg/L
Total Suspended Solids (TSS)	mg/L
Total Settleable Solids	mg/L
Total Alkalinity	mg/L
Total Hardness	mg/L
Cation/Anion Balance	%
Oil and Grease	mg/L

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**Table 7.31.2-5 Groundwater baseline water-quality monitoring parameters.**

<u>FIELD MEASUREMENTS</u>	<u>REPORTED AS</u>
pH	pH units
Specific Conductance	µS/cm
Temperature	°C
 <u>LABORATORY MEASUREMENTS</u>	
Calcium (dissolved)	mg/L
Magnesium (dissolved)	mg/L
Sodium (dissolved)	mg/L
Potassium (dissolved)	mg/L
Bicarbonate	mg/L
Carbonate	mg/L
Sulfate	mg/L
Chloride	mg/L
Boron (total)	mg/L
Boron (dissolved)	mg/L
Iron (total)	mg/L
Iron (dissolved)	mg/L
Lead (dissolved)	mg/L
Manganese (total)	mg/L
Manganese (dissolved)	mg/L
Selenium (total)	mg/L
Selenium (dissolved)	mg/L
Total Dissolved Solids (TDS)	mg/L
Total Alkalinity	mg/L
Total Hardness	mg/L
Cation/Anion Balance	%
Ammonia	mg/L
Aluminum (dissolved)	mg/L
Arsenic (dissolved)	mg/L
Cadmium (dissolved)	mg/L
Copper (dissolved)	mg/L
Molybdenum (dissolved)	mg/L
Nitrate	mg/L
Nitrite	mg/L
Oil and Grease	mg/L
Phosphate (ortho)	mg/L
Zinc (dissolved)	mg/L

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**Table 7.31.2-6 Surface water baseline water-quality monitoring parameters.**

<u>FIELD MEASUREMENTS</u>	<u>REPORTED AS</u>
pH	pH units
Specific Conductance	µS/cm
Temperature	°C
 <u>LABORATORY MEASUREMENTS</u>	
Calcium (dissolved)	mg/L
Magnesium (dissolved)	mg/L
Sodium (dissolved)	mg/L
Potassium (dissolved)	mg/L
Bicarbonate	mg/L
Carbonate	mg/L
Sulfate	mg/L
Chloride	mg/L
Boron (total)	mg/L
Boron (dissolved)	mg/L
Iron (total)	mg/L
Iron (dissolved)	mg/L
Manganese (total)	mg/L
Manganese (dissolved)	mg/L
Selenium (total)	mg/L
Selenium (dissolved)	mg/L
Total Dissolved Solids (TDS)	mg/L
Total Suspended Solids (TSS)	mg/L
Total Settleable Solids	mg/L
Total Alkalinity	mg/L
Total Hardness	mg/L
Cation/Anion Balance	%
Oil and Grease	mg/L
Ammonia (NH <sub>3</sub> )	mg/L
Aluminum (dissolved)	mg/L
Arsenic (dissolved)	mg/L
Cadmium (total)	mg/L
Copper (total)	mg/L
Lead (total)	mg/L
Molybdenum (total)	mg/L
Nitrate	mg/L
Nitrite	mg/L
Phosphate (ortho)	mg/L
Zinc (dissolved)	mg/L

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- Bailing resulting in increasingly turbid samples should be allowed to sit overnight before collecting a sample. This time delay will allow the disturbed sediments not characteristic of wells to re-settle before a valid sample is taken.
- When required and when practical, samples requiring filtering should be filtered in the field. When field filtering is not practical or possible, the laboratory will perform the filtering required. However, samples which are allowed to sit before being filtered are not truly representative of site conditions.
- A pump could be obtained for use in the collection of well samples without bailing. A low discharge pump will typically result in less turbulence and reduce the amount of sediment put into solution. At some well locations this may also result in the ability to collect the sample at the time of pumping rather than waiting until the following day.

Quarterly ground water monitoring is conducted at 14 wells (GW-1 through GW-14). A list of parameters analyzed was given previously in Table 7.24-2. Baseline parameters will be collected the year prior to the five year permit renewal. (2014, 2019, 2014, etc).

No modifications to the ground water quality monitoring plan are proposed to be implemented at the time of reclamation. A review of both operational and reclamation mapping appears to indicate that little if any disturbance of current ground water monitoring locations will be required. Should recontouring operations demonstrate that the ground surface adjacent to current monitoring locations be either significantly cut or filled, then the wells will be cut or extended as required to maintain the monitoring station.

#### 7.31.22. SURFACE WATER MONITORING

A surface water monitoring plan, based upon the PHC determination, as described in Appendix I and Section 7.28, and baseline hydrologic and geologic information has been developed. All eight (8) surface water monitoring sites are monitored quarterly for the parameters of Operational Monitoring in Tables 7.31.2-1, 7.31.2-2, 7.31.2-4 and 7.31.2-6. Monitoring at any UPDES point discharge location will comply with the Utah Division of Water Quality Utah Pollution Discharge Elimination System (UPDES) permits. Site locations are shown on Dwg. E9-3451.

Analytical results from each quarterly sample will be submitted to the Division. If the analysis of any UPDES surface water sample indicates noncompliance with permit conditions, the operator will promptly notify the Division and immediately take action as required to bring the effluent into compliance. Surface water monitoring will proceed through mining and continue during reclamation until bond release, or until it is demonstrated that disturbance to the prevailing hydrologic balance in the permit and adjacent areas has been minimized and material damage to the hydrologic balance outside the permit area has been prevented, and water quantity and quality are suitable to support the approved post-mining land use, in accordance with Division Guidelines for post-mining monitoring.

Baseline parameters for surface waters will be collected as specified in Tables 7.31.2-1, 7-31.2-2, and 7.31.2-6.

Equipment, structures and other devices used in conjunction with monitoring the quality and quantity of surface water on-site and off-site will be properly installed, maintained and operated and will be removed by the operator when no longer needed. Overall surface water sampling guidelines which may improve the quality of water samples being taken include:

- Surface water samples should generally be collected in a well-mixed portion of the stream above the weir by submerging the sample bottle with the opening pointed upstream. It is important not to disturb bottom sediments while taking these samples. The bottle however must be removed immediately upon filling so as not to dilute any fixing agent which may have been placed in the bottle by the chemical laboratory.
- Oil and grease samples should be collected by submerging only a portion of the bottle opening beneath the water surface. Since oil and grease rise to the surface, distorted samples can be collected by totally submerging the opening of the sample bottle.

Water flow measurements taken at the majority of all surface water stations include the implementation of the “float” method for estimating flow rates. This method approximates the channel width and depth, then records the time it takes a stick or other floating material to pass between two points a known distance apart. The total estimate is then reduced to approximately 70% of the calculated value to adjust for naturally occurring velocity gradients with channel depth. The only measuring device wherein the flow is recorded is at the concrete weir located at the river pump house. Flow recorded at this point is used for recording flow at station SW-2.

As required by the regulations surface water monitoring will be completed quarterly for all surface water stations. Historic monitoring has included monthly monitoring at Station SW-3 and semi-annual monitoring at stations SW-1, SW-2, SW-4, SW-5, SW-6, SW-7, and SW-8. In addition, attempts will be made to collect water quality samples during local precipitation events from the silt fence and straw bale area near surface water station SW-4 when practical and feasible. These samples will be taken when adequate flow exists to collect a representative sample without the introduction of additional sediments or contaminants throughout the sampling process. A list of surface water sampling parameters was given previously in Table 7.24-5. Baseline parameters for surface waters will be collected as specified in Tables 7.31.2-1, 7-31.2-2, and 7.31.2-6.

The reclamation plan which has been submitted for surface water runoff and conveyance includes the installation of two drainage diversion ditches or channels upstream of the Upper and Lower Refuse ponds as described within Section 7.60. The long term value of these two permanent channels is to 1) divert surface water runoff away from the refuse ponds thereby reducing the amount of materials which could possibly be leached from soils found within the ponds, and 2) to contain, control, and reduce the amount of potential erosion from vegetated pond surfaces.

A slight modification of the water quality monitoring plan is proposed to be implemented at the time of reclamation as follows. First, Surface water quality monitoring stations SW-5 and SW-6 will be eliminated due to recontouring activities. Second, water quality samples from the Clearwater Pond will be collected from the ponded water surface at the approximate location of SW-7 and not from the discharge structure itself. Third, a new water quality monitoring station will be added (SW-9) to the monitoring plan at the time of reclamation (if practical and feasible) in order to obtain water quality data from reclaimed refuse pond surfaces. This station will be installed using design technologies and methodologies reasonably and feasibly available at the time of reclamation.

# APPENDIX J

## Cost of Reclamation

February 16, 2018



WELLINGTON PREPARATION PLANT

C/007/0012

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Bond Amount

WELLINGTON PREP PLANT C/007/012

**SUMMARY**

**Bonding Calculations**

Direct Costs

Subtotal Demolition and Removal	\$59,476.00
Subtotal Backfilling and Grading	\$3,172,036.00
Subtotal Revegetation	\$417,420.00
<b>Direct Costs in 2017 Dollars</b>	<b>\$3,648,932.00</b>

Indirect Costs

Mob/Demob	\$364,893.00	10.0%
Contingency	\$182,447.00	5.0%
Engineering Redesign	\$91,223.00	2.5%
Main Office Expense	\$248,127.00	6.8%
Project Mangement Fee	\$91,223.00	2.5%
<b>Subtotal Indirect Costs</b>	<b>\$977,913.00</b>	<b>26.8%</b>

<b>Total Cost</b>	<b>\$4,626,845.00</b>	<b>2017 Dollars</b>
-------------------	-----------------------	---------------------

Escalation factor		0
Number of years		5
Escalation	\$0.00	

Reclamation Cost Escalated	\$4,626,845.00	2022 Dollars
----------------------------	----------------	--------------

Dollar Year 2017

**Bond Amount (rounded up to next \$1,000) \$4,627,000.00**

Bond Posted 4/16/13, updated 10/31/17 \$4,627,000.00

Difference Between Cost Estimate and Bond **\$0.00**

Percent Difference **0.00%**

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# Demolition



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Description	Cost
Refuse Pipeline 01	11759
Pumphouse 02*	0
Powerline East 03	7750
Clear Water Dike 04	20153
Wash Plant 05	4005
* Column Flotation Cells 06	0
Conveyor Belts 07	0
Office 08	0
Diesel 09	1707
* Pipelines 10	474
Slurry Feed Tank and Pump 11*	0
Foundations12	13628
<b>Total</b>	<b>59428</b>

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Ref	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
	Refuse Pipeline 01																			
	Structure's Demolition Cost	Steel Bld. Large	02.41.16.13.0020	0.38/CF	CF						64230							64230	CF	0
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)										833							833	CY	0
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Sheet's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	Subtotal																			
	Equipment's Disposal Cost																			
	Dismantling Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	Subtotal																			
	Pipe's Demolition																			
	Demolition Cost	Steel Bld. Large	02.41.16.13.0020	0.38/CF	CF	6800														
	Pipe's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Foundation's Demolition																			
	Demolition Cost	Concrete demol/load/dump**	03.05.05.10.0050	167/CY	CY						62									
	Foundation's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31.23.16.42.1300	2.21/CY	CY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rmd. full	31.23.23.17.0320	3.74/CY	CY															
	Disposal Costs	On site disposal	02.41.16.17.4200	11.4/CF	CF															
	Subtotal																			
	Concrete Demolition																			
	Demolition Cost																			
	Concrete's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	Subtotal																			
	Total																			
																				11759

Slurry pipe has been removed and salvaged (see Attachment, Photo A)  
 Pipeline Foundations (see Attachment, Photo B)  
 See Map A (attached) for photo locations

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Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Pumphouse 02*																				
Structure's Demolition Cost	Steel Bld Large	02 41 16 13 0020	0.35	CF																
Structure's Vol. Demolished																				
Roof's Weight (exclude steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
<b>Subtotal</b>																				
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
<b>Subtotal</b>																				
Floor's Demolition																				
Demolition Cost	Concrete demol/ load/ dump	03 05 05 10 0060	13.1	ICY																
Floor's Vol. Demolished																				
Loading Cost	Front end loader 3 CY			ICY																
Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip			ICY																
Disposal Costs	On site disposal	02 41 16 17 4200	10.2	ICY																
<b>Subtotal</b>																				
Foundation's Demolition																				
Demolition Cost	Concrete demol/ load/ dump	03 05 05 10 0060	13.1	ICY																
Foundation's Vol. Demolished																				
Loading Cost	Front end loader 3 CY			ICY																
Transportation Cost	12 CY (18 Ton) Dump Truck 1/2 mi. rnd. trip			ICY																
Disposal Costs	On site disposal	02 41 16 17 4200	10.2	ICY																
<b>Subtotal</b>																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
<b>Subtotal</b>																				
<b>Total</b>																				

\* Pumphouse has been removed and reclaimed (see Photo F)  
See Map A (attached) for photo locations.

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Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost		
Powerline East 03	Powerpole	02.41.13.80.0100	310 EA																		
Structure's Demolition Cost																					
Structure's Vol. Demolished																					
Rubble's Weight (exclude steel)																					
Truck's Capacity																					
Haulage																					
Transportation Cost Non Steel Truck																					
Transportation Cost Non Steel Drive																					
Disposal Cost Non Steel																					
Sheet's Weight																					
Truck's Capacity																					
Haulage																					
Transportation Cost Steel Truck																					
Transportation Cost Steel Truck Drive																					
Disposal Cost Steel																					
Subtotal																				7750	
Conductor's Disposal Cost																					
Demantling Cost																					
Conductor's Vol. Demolished																					
Loading Costs																					
Transport Costs																					
Disposal Costs																					
Subtotal																					
Concrete Demolition																					
Demolition Cost																					
Concrete's Vol. Demolished																					
Loading Cost																					
Transportation Cost																					
Disposal Costs																					
Subtotal																					
Concrete Demolition																					
Demolition Cost																					
Concrete's Vol. Demolished																					
Loading Cost																					
Transportation Cost																					
Disposal Costs																					
Subtotal																					
Total																					7750

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Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diam/Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Clear Water Dike 04																			
Structure's Demolition Cost																			
Structure's Vol. Demolished																			
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Share's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
<b>Subtotal</b>																			
Building's Disposal Cost*	410 H. P. (D9)	01 54 33 20 4360	2368/day										0.2 DAY				0.2 DAY	474	
Dismantling Cost																			
Building's Vol. Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
<b>Subtotal</b>																			474
Fresh Water Line's Demolition Cost	Pipe removal 24 inch	02 41 13 38 0500	19.8/FT		200									FT			200 FT	3960	
Demolition Cost																			
Fresh Water Line's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
<b>Subtotal</b>																			3960
Intake Tower																			
Demolition Cost	Concrete demo/ load/ dump	05 05 05 10 0060	167/CY						82					CY			62 CY	10354	
Intake Tower's Vol. Demolished															1.3		81 CY		
Loading Cost	Front end loader 3 CY	31 23 16 42 1300	2.21/CY														81 CY	176	
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rmd. trip	31 23 23 17 0320	3.74/CY														81 CY	303	
Disposal Costs	On site disposal	02 41 16 17 4200	11.4/CY														81 CY	923	
<b>Subtotal</b>																			1759
Spillway																			
Demolition Cost	Pipe removal 24 inch	02 41 13 38 0500	19.8/FT		200									FT			200 FT	3960	
Spillway's Vol. Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
<b>Subtotal</b>																			3960
<b>Total</b>																			20153

\* Onsite dozer equipment cost = rental cost + operating cost or \$2368/day

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Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
* Column Fixation Cells 06																				
Structure's Demolition Cost	Steel Bld. Large	02.41.16.13.0020	0.35/CF				42	8		109				4	FT		0	FT	0	
Structure's Vol. Demolished																	0.35	109	CY	0
Rubble's Weight (excludes steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
Subtotal																				0
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				
Floor's Demolition																				
Demolition Cost	Concrete demol load/ dump	03.05.05.10.0060		/CY	40	40	0.5													0
Floor's Vol. Demolished																				
Loading Cost	Front end loader 3 CY			/CY																
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																
Disposal Costs	On site disposal	02.41.16.17.4200		/CY																
Subtotal																				0
Foundation's Demolition																				
Demolition Cost	Concrete demol load/ dump	03.05.05.10.0060		/CY						9										0
Foundation's Vol. Demolished																				
Loading Cost	Front end loader 3 CY			/CY																
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rd. trip			/CY																
Disposal Costs	On site disposal	02.41.16.17.4200		/CY																
Subtotal																				0
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				0
Total																				0

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\* The Covol Wash Plant has been dismantled and the site reclaimed (Photo G). See Map A (attached) for photo locations. (This sheet remains herein to retain historical information).

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Conveyor Belts 07																				
Structure's Demolition Cost	Steel Bld. Large	02 41 16.13.0020	0.35	CF	800	5	5			259				1	FT	0.35	0.35	0	CF	0
Structure's Vol. Demolished																				
Rubble's Weight (exclude steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
Subtotal																				0
Equipment's Disposal Cost																				
Demantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				
Foundation's Demolition																				
Demolition Cost	Concrete demol load/ dump	03 05 05.10.0060	167	CY						37					CY					0
Foundation's Vol. Demolished																				
Loading Cost	Front end loader 3 CY																			
Transportation Cost	12 CY (16 Ton) Dump Truck 12 mi. and trip																			
Disposal Costs	On site disposal	02 41 16.17.4200	11.4	ICY																0
Subtotal																				0
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Total																				0

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\* The Covel Wash Plant has been dismantled and the site reclaimed (Photo G). See Map A. (attached) for photo locations. (This sheet remains herein to retain historical information).

Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost
Office B6																			
Structure's Demolition Cost	Steel Bid Large	02 41 16 13 0020	0.35/CF	CF	800	5	5			259					1 FT	0.35		0 CF	
Structure's Vol Demolished																			
Rubble's Weight (exclude steel)																			
Truck's Capacity																			
Haulage																			
Transportation Cost Non Steel Truck																			
Transportation Cost Non Steel Drive																			
Disposal Cost Non Steel																			
Steel's Weight																			
Truck's Capacity																			
Haulage																			
Transportation Cost Steel Truck																			
Transportation Cost Steel Truck Drive																			
Disposal Cost Steel																			
Subtotal																			
Equipment's Disposal Cost																			
Dismantling Cost																			
Equipment's Vol Demolished																			
Loading Costs																			
Transport Costs																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Concrete Demolition																			
Demolition Cost																			
Concrete's Vol Demolished																			
Loading Cost																			
Transportation Cost																			
Disposal Costs																			
Subtotal																			
Total																			

All of the Covel Site has been dismantled, salvaged and reclaimed (Photo G).  
See Map A (attached) for photo locations.  
(This sheet remains herein to retain historical information)

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Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter/Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	Diesel 09																			
	Structure's Demolition Cost	Steel Bld. Large	02.41.16.13.0020	0.35/CF	1 CF					134.0	17					0.35	134.0 CF		0	
	Structure's Vol. Demolished																			
	Rubble's Weight (exclude steel)																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Non Steel Truck																			
	Transportation Cost Non Steel Drive																			
	Disposal Cost Non Steel																			
	Street's Weight																			
	Truck's Capacity																			
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Disposal Cost Steel																			
	<b>Subtotal</b>																			0
	Equipment's Disposal Cost																			
	Demolition Cost																			
	Equipment's Vol. Demolished																			
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	<b>Subtotal</b>																			
	Floor's Demolition																			
	Demolition Cost	Concrete demo/ load/ dump	03.05.05.10.0060	167/ICY	167/ICY	17	17	0.5												
	Floor's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY			ICY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rmd. trip			ICY															
	Disposal Costs	On site disposal	02.41.16.17.4200	11.4/ICY	11.4/ICY															
	<b>Subtotal</b>																			80
	Floor's Demolition																			
	Demolition Cost																			
	Floor's Vol. Demolished																			
	Loading Cost																			
	Transportation Cost																			
	Disposal Costs																			
	<b>Subtotal</b>																			962
	Foundation's Demolition																			
	Demolition Cost	Concrete demo/ load/ dump	03.05.05.10.0060	167/ICY	167/ICY					4										
	Foundation's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY			ICY															
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. rmd. trip			ICY															
	Disposal Costs	On site disposal	02.41.16.17.4200	11.4/ICY	11.4/ICY															
	<b>Subtotal</b>																			57
	<b>Total</b>																			1707

\* For the benefit of doubt, we left these costs in the spreadsheet (we not sure when this floor and foundation is located).  
Total volume if present would be 54 CY not 145 CY.

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Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
* Pipelines 10																				
Structure's Demolition Cost	Pipe removal 12 inch	02 41 13 23 2900	11.3	FT	5900										LF		5900	LF	0	
Structure's Vol. Demolished																				
Rubble's Weight (exclude steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
Subtotal																				0
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Equipment Cost																				
Demolition Cost	Backhoe 5/8 CY capacity	01 54 35 0400	268	dia											1 DAY					268
Concrete	1 YD	03 31 13 0020	124																	124
Concrete	Concrete short load costs	03 31 13 35 1520	82																	82
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Total																				474

\* We assume this is the underground pipeline is the one from the Clearwater Pond to the Dryer Pond. We have reviewed early U.S. Steel and NEICO reclamation costs (1996 & 2000) of which had no costs for removal of the pipeline. Furthermore, it is not within the SMCRA bond area. As stated in previous submittals to DOGM, the current owner considers the ability to move water from from the east to the west side has a valuable asset for current and future operations of the facility. Additionally, transfer of this water is an approved water right through the State of Utah.

Finally, in the extremely unlikely event the water pipeline were to be reclaimed through SMCRA, the reclamation would be to stop the water flow at its source near the pumphouse area by plugging the upstream end with cement grout.

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Description	Materials	Main Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Slurry Feed Tank and Pump 11"																				
Structure's Demolition Cost	Steel Bld Large	02 41 16 13 0020	0.38	CF						21200					CF		21200	CF		0
Structure's Vol. Demolished																				
Rubble's Weight (exclude steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
<b>Subtotal</b>																				0
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
<b>Subtotal</b>																				0
Floors Demolition																				
Demolition Cost	Concrete demol load/ dump	03 05 05 10 0060	167	CY						5					SY					0
Floor's Vol. Demolished																				
Loading Cost	Front end loader 3 CY			CY												1.3				
Disposal Costs	On site disposal	02 41 16 17 4200	11.4	CY																0
<b>Subtotal</b>																				0
Concrete Demolition																				
Demolition Cost	Concrete demol load/ dump	03 05 05 10 0060	167	CY						10.5					CY					0
Concrete's Vol. Demolished																				
Loading Cost	Front end loader 3 CY			CY												1.3				
Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. ind. trip			CY																
Disposal Costs	On site disposal	02 41 16 17 4200	11.4	CY																0
<b>Subtotal</b>																				0
<b>Total</b>																				0

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All of the Coval Site has been dismantled, salvaged and reclaimed (Photo C).  
See Map A (attached) for photo locations.  
(This sheet remains herein to retain historical information).

Description	Materials	Means Reference Number	Unit Cost	Unit	Length ft	Width ft	Height ft	Diameter in	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
Foundations 12																				
Structure's Demolition Cost																				
Structure's Vol. Demolished																				
Rubble's Weight (excludes steel)																				
Truck's Capacity																				
Haulage																				
Transportation Cost Non Steel Truck																				
Transportation Cost Non Steel Drive																				
Disposal Cost Non Steel																				
Steel's Weight																				
Truck's Capacity																				
Haulage																				
Transportation Cost Steel Truck																				
Transportation Cost Steel Truck Drive																				
Disposal Cost Steel																				
Subtotal																				
Equipment's Disposal Cost																				
Dismantling Cost																				
Equipment's Vol. Demolished																				
Loading Costs																				
Transport Costs																				
Disposal Costs																				
Subtotal																				
Concrete Demolition*																				
Demolition Cost																				
Foundation demol load/dump		02 41 16.17 0440*	1.57/SqFt		30	40	40	10	12	3600	5968			141	CY					5968
Demolition Cost		02 41 16.17 0440*	0.99/SqFt		10	10	10	6	6	440	438			8	CY					438
Foundation demol load/dump		02 41 16.17 0440*	0.99/SqFt		30	15	15	6	6	2370	2346			44	CY					2346
Transportation Cost																				
Disposal Costs																				
Subtotal					70	65	65	31		193	2200			193	CY					2200
On site disposal		02 41 16.17 4200	11.4/CY																	
Subtotal																				
Railroad Track Removal																				
Demolition Cost																				
Tile and track removal		02 41 13.33 3500	13.4/L F		200															
Subtotal																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Concrete Demolition																				
Demolition Cost																				
Concrete's Vol. Demolished																				
Loading Cost																				
Transportation Cost																				
Disposal Costs																				
Subtotal																				
Total																				
																				13628

\* The CY in 2013 was calculated incorrectly. This has been revised here. Cost of 12" concrete \$1.43 plus 10% added for average reinforcing (Ref: 02 41 16.17 2600)

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# Earthwork



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Year	Cost Reference	Page	Equipment Cost	Hourly Operating Costs		Equipment Overhead	Operator's Hourly Wage Rate		Hourly Cost	Number of Men or Eq.	Total Eq. & Lab. Costs		Quantity	Production Rate		Units	Equip. + Labor Time/Disc.	Units	Cost
				Equipment Cost	Operating Costs		Hourly	Wage Rate			Eq. & Lab. Costs	Units		Rate	Units				
<b>Upper and Lower Refuse Basin 004</b>																			
<b>with 4 feet of Cover</b>																			
<b>Portion from Borrow Area E</b>																			
2H 2017	89-84		33735	227.85	0.1	81	542.48	4	2169.92	610700	1826	1826	334.4	334.4	HR				\$725,621.00
2H 2017	89-88		20950	117.65	0.1	81	341.35	1	341.35						HR				\$114,147.00
<b>Portion from Borrow Area D + G</b>																			
2H 2017	89-84		33735	227.85	0.1	81	542.48	4	2169.92	229338	2400	2400	95.6	95.6	HR				\$207,444.00
2H 2017	89-88		20950	117.65	0.1	81	341.35	1	341.35						HR				\$32,633.00
<b>Portion from Borrow Area H + I</b>																			
2H 2017	89-62		13070	92.25	0.1	81	264.16	2	528.33	168702	747	747	225.8	225.8	HR				\$19,297.00
2H 2017	820-11		4560	46.7	0.1	77.15	157.02	16	2512.32						HR				\$567,282.00
2H 2017	89-88		20950	117.65	0.1	81	341.35	1	341.35						HR				\$77,077.00
<b>Portion from Clearwater &amp; Lower Refuse Dikes</b>																			
2H 2017	89-84		33735	227.85	0.1	81	542.48	4	2169.92	224068	2276	2276	98.4	98.4	HR				\$213,520.00
2H 2017	89-88		20950	117.65	0.1	81	341.35	1	341.35	180700					HR				\$33,569.00
																		<b>Subtotal</b>	<b>\$ 2,090,610</b>

Note: this sheet includes what use to be sheet cover upper Lower Refuse Basin with Topsoil 208 it was the Clearwater lower refuse dikes portion.

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# Revegetation



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# Photos

Appendix J Attachment

February 16, 2018

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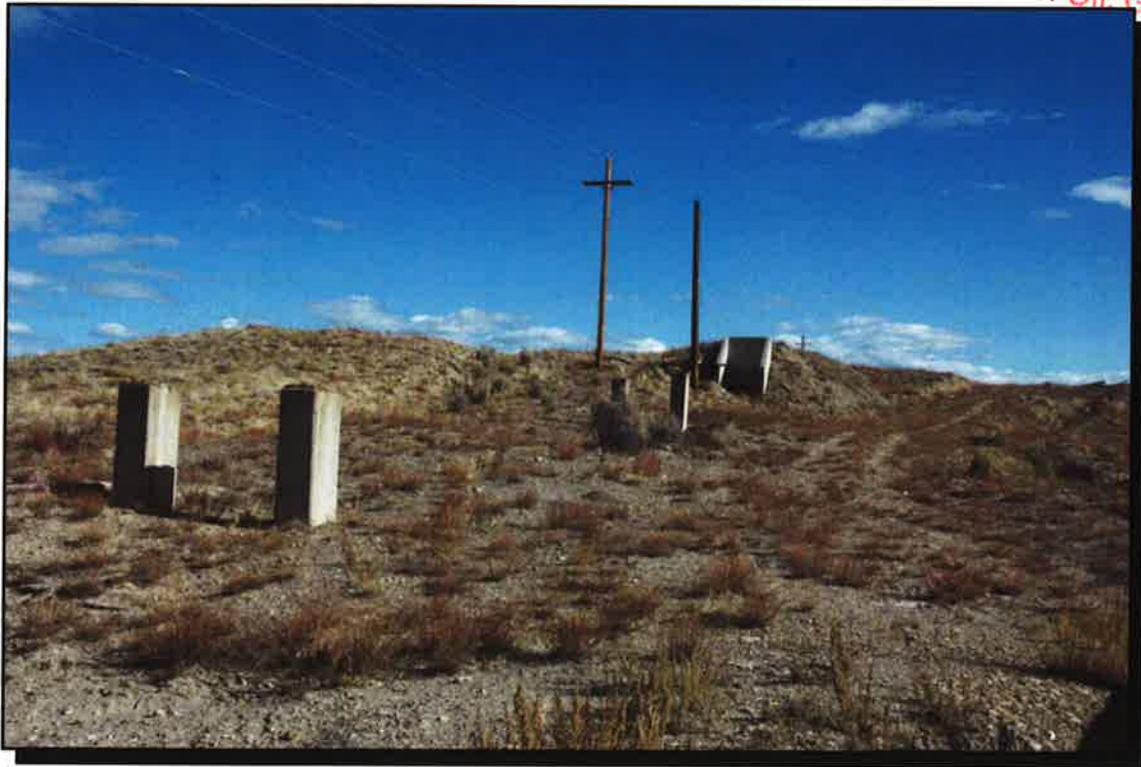


**Photo A:** Pipeline (Removed) Area [see Demolition, Refuse Pipeline 01]

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**Photo B:** Remaining Pipeline Foundation [see Demolition, Refuse Pipeline 01]



**Photo C:** Removed Wash Plant Buildings & Concrete [see Demolition, Wash Plant 05]

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**Photo D:** Redesigned, Engineered & Reinforced [not to be reclaimed (see Floor Demolition)]

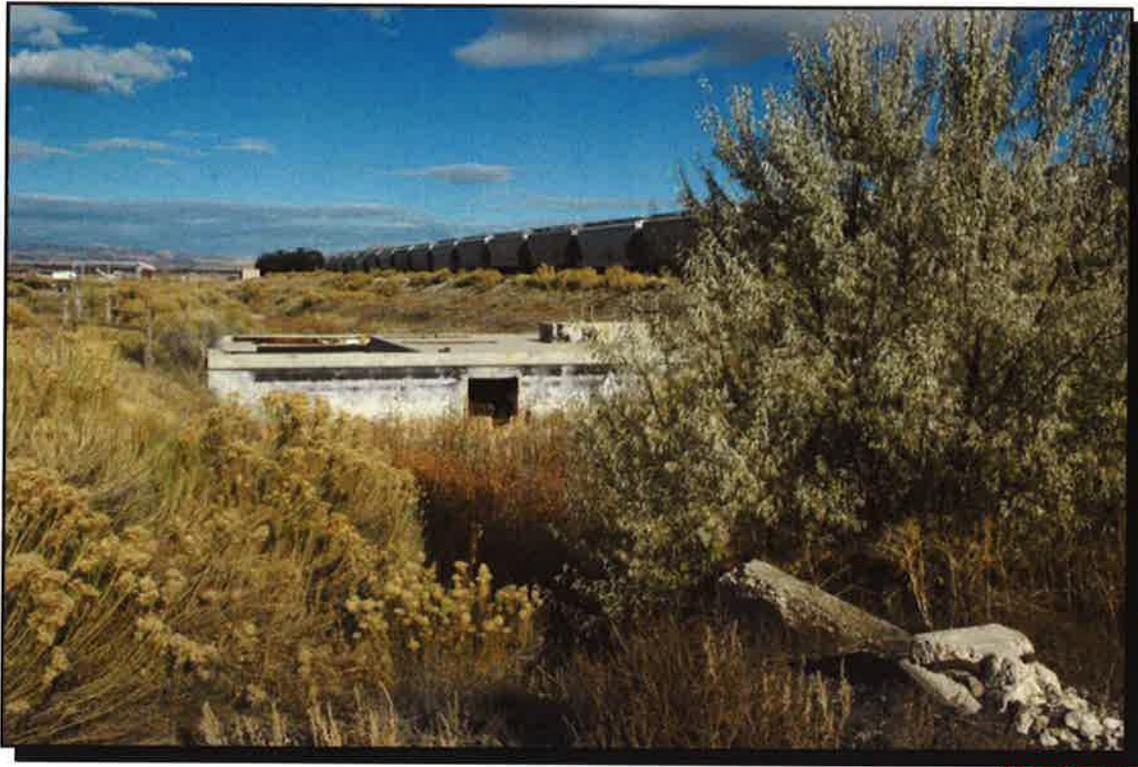


Photo E: Remaining Concrete of Old Wash Plant [see Demolition]

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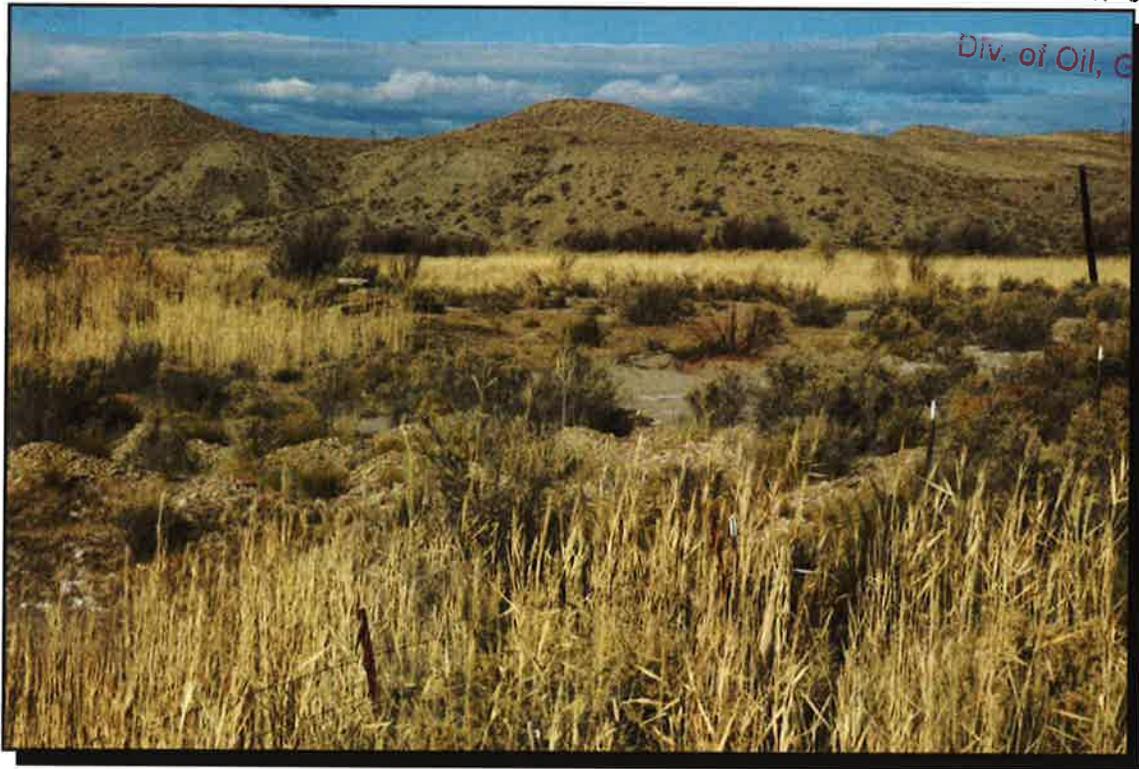
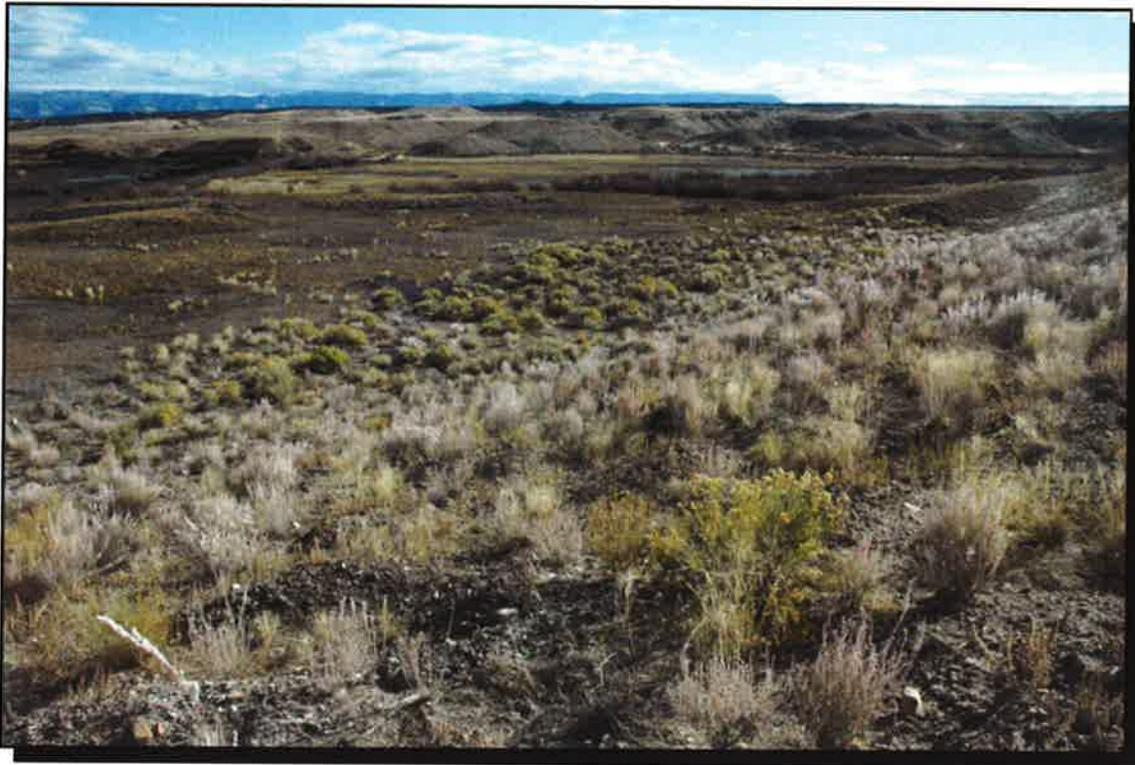


Photo F: Reclaimed Pumphouse Area [see Demolition, Pumphouse 02]



**Photo G:** Reclaimed Covel Wash Plant Area [see Demolition, Column Floatation Cells]

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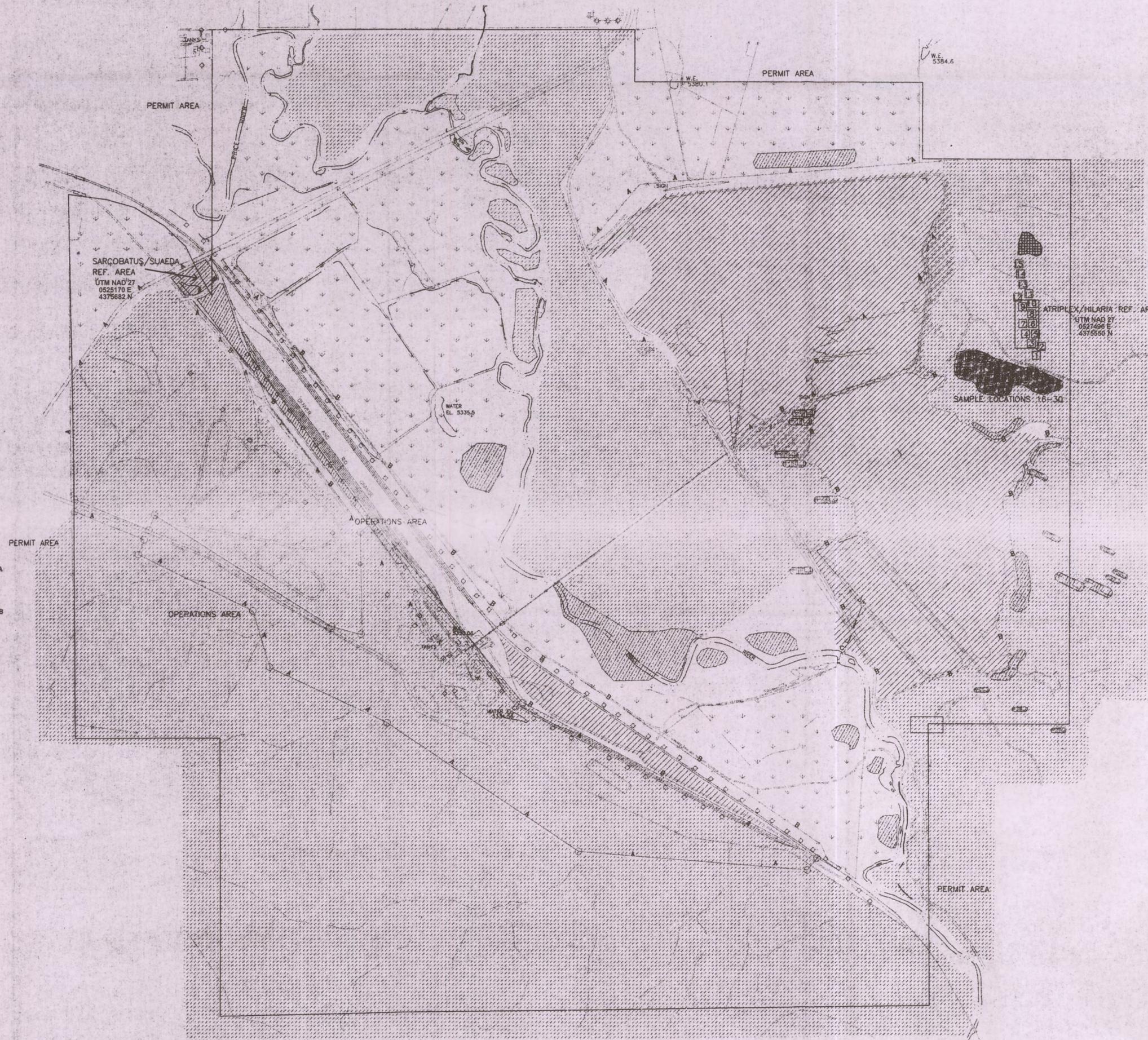
# *Photo Location Map*

Appendix J Attachment

February 16, 2018

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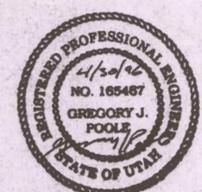




-  DISTURBED AREA
-  RIPARIAN COMMUNITY
-  PASTURELANDS/GRAZING
-  ARTEMISIA/HILARIA COMMUNITY
-  SARCOCATUS/SUAEDA COMMUNITIES
-  ATRIPLEX/HILARIA COMMUNITY
-  ATRIPLEX CORRUGATA COMMUNITY
-  ORYZOPSIS HYMENOIDES COMMUNITY
-  22 VEGETATIVE SAMPLE LOCATIONS

-  REVEGETATION SEED MIX A
-  REVEGETATION SEED MIX B
-  REVEGETATION SEED MIX C

**RECEIVED**  
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This map (drawing) was based on previous engineering or permit information and is accurate to the best of my knowledge.

INCORPORATED  
 MAR 06 2018  
 Div. of Oil, Gas & Mining

**VEGETATION STUDY MAP**  
**NEVADA ELECTRIC INVESTMENT COMPANY**


**MT. NEBO SCIENTIFIC**  
 RESEARCH AND CONSULTING



REVISIONS	BY	DATE	DRAWN	JON MAGENC
Information on this map was taken from F8-178 & F8-179 (10/83)	J.M.	9/24/83	CHECKED	
revised disturbance area	J.M.	7/8/94	DATE	10-7-94
revised disturbed area	J.M.	11/3/94	SCALE	1"=500'
added seed mix C location	J.M.	4/28/95		

added arrow to sarcocatus ref. area P.D.C. 8/19/17  
 added seed mix C location P.D.C. 7/22/17

F9-178.179