



April 17, 2015

Sent via Overnight Mail

Mr. Rogaczewski, District III Supervisor
Department of Environmental Quality
Land Quality Division
2100 West Fifth Street
Sheridan, Wyoming 82801

**Subject: LQD Permit 478
Willow Creek Project
Annual Report for WYDEQ Permit to Mine No. 478**

Dear Mr. Rogaczewski:

Uranium One has reviewed the Wyoming Department of Environmental Quality/Land Quality Division (LQD) December 9, 2014 request for clarification and/or information regarding the 2013-2014 Annual Report. Please find attached Uranium One's response to the seven (7) general review comments and the four (4) reclamation performance bond estimate comments.

If you have any question or need additional information please contact by phone at (307) 233-6330 or email at scott.schierman@uranium1.com.

Sincerely,

Scott Schierman
HSE Manager

Encl: Comment Responses
Annual Report Index to Change Guide
Replacement Documents/Figures

cc: NRC – Washington, D.C. Document Control Desk – with Annual WDEQ report
BLM – Buffalo, WY – Kerry Aggen with Annual WDEQ report

WDEQ/LQD Comments 2014 Annual Report

General Review

1. As required by the LQD In Situ Annual Report Format (ISARF 7/16/2013), Two (2) paper copies and two (2) electronic copies of the Annual Report are to be submitted to LQD. This in addition to the electronic formatting requirements for well details, water quality data, groundwater level data flow data, and surface water station details. Uranium One has not provided two electronic copies of the 2013-2014 Annual Report.

Uranium One Response:

Please find Two (2) electronic copies of the 2013-2014 Annual Report to LQD.

2. Environmental Monitoring, Evaporation Pond Monitoring, Page 8; this section states that Pond CR-2 showed signs of leaking during the reporting period, however the cause of the leak could not be found. LQD understands that Uranium One is still utilizing Pond CR-2 to provide the needed capacity due to the required repairs for Disposal Well 18-3. Although Pond CR-2 is not currently receiving water, LQD understands that Uranium One is pumping out the leak detection system to provide storage capacity without dewatering the pond. Please discuss this situation in the Annual Report and describe Uranium One's plans for resolving the leakage issue for Pond CR-2.

Uranium One Response:

Text discussing Pond CR-2 has been added to the Annual Report to address LQD concerns and discusses Uranium One's intention to dewater Pond CR-2 to conduct an inspection and make necessary repairs. This discussion can be found in the Section I, Evaporation Pond Monitoring discussion of the Annual Report.

3. Section I, Environmental Monitoring, Underground Injection Wells, Page 8; On June 24, 2012 Uranium One notified LQD that Disposal Well 18-3 had failed its required 5-year MIT. Although this disposal well is regulated under WQD UIC Permit No. 10-219, the functionality of the disposal well is pertinent to the mining operation's water balance which is an integral part of the Willow Creek Permit to Mine under LQD's oversight. Please include discussion of this event and how it affected Willow Creek's water balance and how Uranium One is managing these affects.

Uranium One Response:

A discussion has been included in Section I, Underground Injection Wells that describes actions taken, affects resulting from DDW 18-3 being shut in until repairs could be made, and how Uranium One is managing these affects.

4. Map "Environmental Monitoring Station Locations"; Regional Ranch Well Christensen Del Gulch Lower #13 is not located on this map. Please update the map with this environmental monitoring location.

Uranium One Response:

Del Gulch Lower #13 has been added to the Environmental Monitor Station Location map included in the Annual Report.

5. Section K, Projected Operations, Page 9: Please add information to this section regarding the 200 temporarily surface capped pilot holes associated with Mine Unit 10B, Modules 10-7 and 10-8. Additionally, indicate that this activity was approved by LQD (7/3/13 letter) and provide Uranium One status for re-entering the holes on or before January 1, 2015 per LQD's approval.

Uranium One Response:

Uranium One requested an extension on December 28, 2014 for the 200 temporarily surface capped drill holes (pilot holes) associated with Mine Unit 10B, Modules 10-7 and 10-8. LQD responded on January 14, 2015 denying the request to extend the temporary capping of 200 drill holes located in Mine Unit 10B and required Uranium One to begin permanent reclamation of the drill holes and/or begin completing the drill holes as production or injection wells (as applicable). All open holes must be properly sealed via permanent reclamation according to LQD Rules and Regulations Chapter 8 or completed as production or injection wells by August 1, 2015. Uranium One has provided LQD of its intent to complete the replacement of the temporary caps with permanent caps by August 1, 2015. The 200 temporary capped drill holes were backfilled with plug gel prior to placement of the temporary caps. Uranium One intends to comply with the abandonment of these drill holes by the August 1, 2015 time frame specified in the WDEQ/LQD January 14, 2015 letter.

On April 13 2015 Uranium One removed two temporary foam caps at wells 10952 and 11018 as shown on the attached map (see Attachment 1). These wells were chosen based on the proximity to shallow groundwater monitoring locations. Plug gel was encountered at 125.5 feet from the surface for 10952 and 105 feet for 11018. Comparing these values to the completion logs, both these wells are 50 feet above the uppermost saturated strata. Per LQD Rules and Regulations Chapter 8 if the column or the sealant material has dropped or fallen back, the discoverer shall continue to install sealant material until the top of the sealant material column remains at least 50 feet above the top of the uppermost saturated groundwater stratum; and users will install uncontaminated fill material, drill cuttings or one of the approved sealant materials listed herein from the top of the sealant material column to within approximately 5 feet of the ground surface. Uranium One plans to adhere to these regulations and fill the column with approved material to 5 feet from the ground surface. This is allowed due to the fact that the plug gel is 50 feet above the uppermost saturated groundwater stratum. Refer to Appendix 2 which shows the completion logs of the two shallow ground water wells that are close to the two wells in which were opened.

Uranium One added a discussion to Section K, Projected Operation regarding the 200 temporarily surface capped drill holes as requested.

6. Surface Reclamation Activities, Page 10 & Irigaray Project Area Facilities Location Map; this section states that Uranium One is conducting final decommissioning of Irigaray Mine Units 1 through 9, and that to date all remaining buried wellfield pipeline has been removed. The *Irigaray Project Area Facilities Location Map* indicates that "MU8 & 9 buried pipeline needs removed". Please revise the Report text and/or map to provide the correct status of reclamation.

Uranium One Response:

The Irigaray Project Area Facilities Location Map has been revised to indicate that buried wellfield piping has been removed.

7. Section V, Reclamation Performance Surety Estimate, Page 15; The top of the pages states that,...an updated reclamation/restoration surety estimate for July 2013 through June 2014 is provided in Appendix 6". This should read July 1, 2013 through June 30, 2015". Please revise. Additionally, please review pages 15 and 16 and revise any incorrect references made to past and future reporting periods. For example, Page 15, Worksheet 1; "Wells for MU10-7 and MU10-8 have been removed no plans for development in 2013-2014". This reference should reference no plans for development for 2014-2015.

Uranium One Response:

Incorrect references have been corrected.

Reclamation Performance Bond Review

8. Per the ISARF document (Section V, Reclamation Performance Bond Estimate, Item C): "The bond estimate must be accompanied by a projected time schedule (Gantt Chart) showing the completion schedule for each major reclamation operation/task". A projected time schedule of this nature is not included with the Annual Report. Although very little is planned for 2014-2015 reporting period, please provide a projected time schedule for any significant reclamation work such as surface reclamation activities at the Irigaray Site.

Uranium One Response:

Project time schedule (Gantt Chart) has been included showing the completion schedule for each major reclamation operation/task.

9. Worksheet #1, Groundwater Restoration; It appears that Stabilization Monitoring accounts for four quarters of monitoring with 4 sample sets of analysis (over 12 month stabilization period). However, this section lists only 9 months as the Time of Stabilization. Please revise this line to show 12 months of stabilization monitoring.

Uranium One Response:

Worksheet #1, Ground water Restoration has been revised to reflect 12 months of stabilization monitoring.

10. Worksheet #1, Groundwater Restoration costs do not appear to account for anticipated Mechanical Integrity Testing of wells for the upcoming year. Please add this cost to the surety estimate or explain how this cost is addressed in the estimate.

Uranium One Response:

Worksheet #1, Ground water Restoration Mechanical Integrity Testing (MIT) costs are not broken individually but are accounted for in Section V, Labor (Irigaray and Christensen Combined).

11. Worksheet #5, Well Plugging and Abandonment; it does not appear that bonding has been included for plugging of the 200 temporarily capped pilot holes in Mine Unit 10B, Modules 10-7 and 10-8. Please update the Surety Estimate accordingly to account for this work or indicate where this cost is accounted for in the bond estimate.

Uranium One Response:

The 200 temporarily capped pilot holes were filled with plug gel prior to placement of the temporary caps. The only cost that is currently not accounted for in the cost for abandonment of these holes is the cost for a cement cone/marker which accounts for \$2000 in costs.

WDEQ authorized the temporary caps for the 200 drill holes on July 3, 2013. Uranium One requested an extension on December 28, 2014 to delay reclamation of the 200 temporary capped drill holes. WDEQ/LQD denied that extension request on January 15, 2015 and required Uranium One to properly seal via permanent reclamation according to LQD Rules and Regulations contained in Chapter 8 or complete the drill holes as production or injection wells by August 1, 2015.

The \$2000 in cost associated with placement of concrete cone/marker is minimal and has not been included in this cost estimate since Uranium One will have these wells reclaimed consistent with LQD rules and regulations by August 1, 2015.

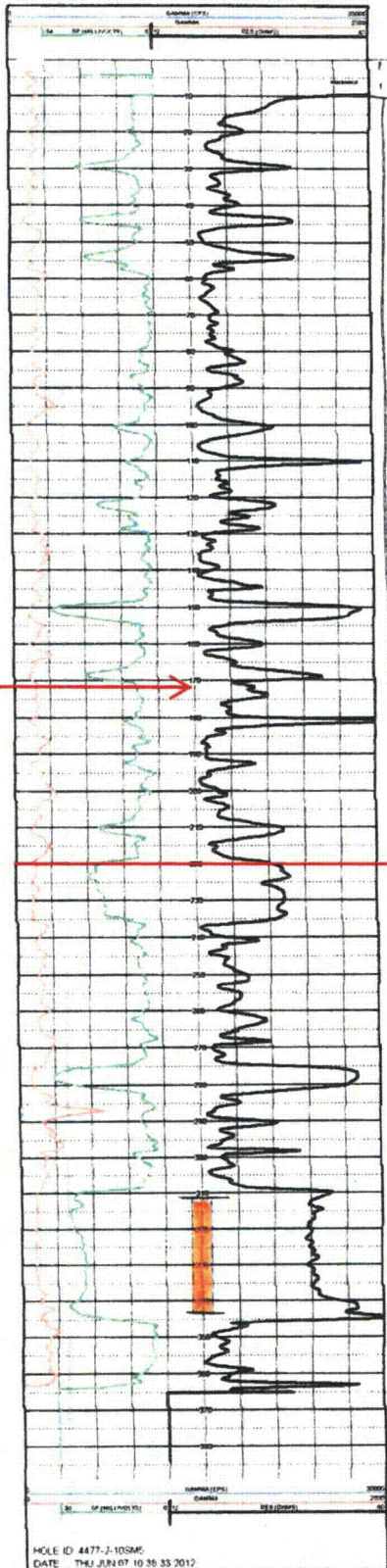
Attachment 1

Map of 200 Temporary Plugged Exploratory Holes

Attachment 2

Temporary Cap Well Removal Completion
Logs With Shallow Groundwater Monitoring
Completion Logs

Appendix 2 Completion Log Comparisons

[illegible]

Water Depth

**Uranium One
Considers ~220 ft
as the uppermost
saturated strata**

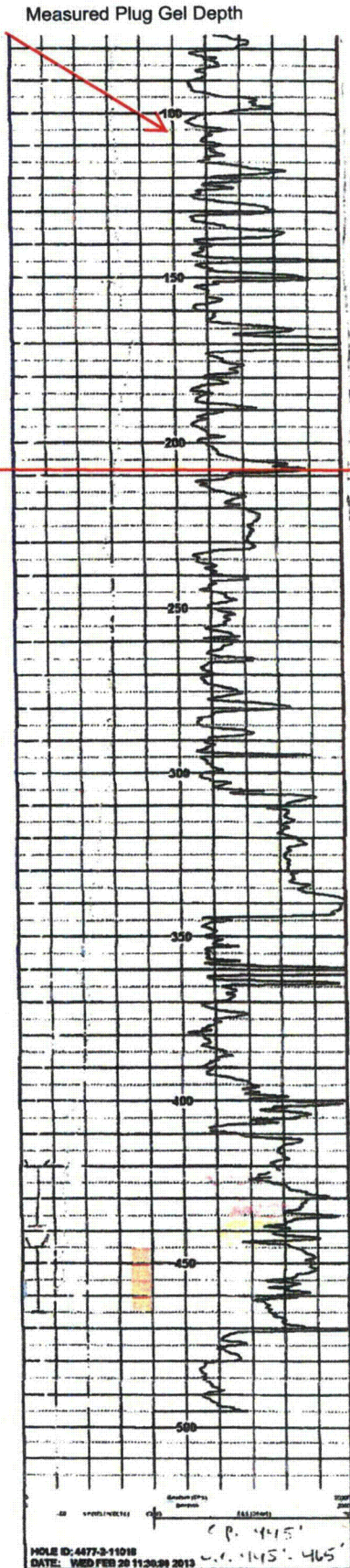
Closure : 4.6 Feet at 204.5 Degrees

Hole Number: 4
Date Logged: THU JUN 07 10
Tool ID / SN
K-Factor:
Deadtime:
Calibration Date:
Water Factor:
Casing Factor:

== SUMMARY ==

Case 311

311-343



Measured Plug Gel Depth

Measured
Plug Gel
Depth

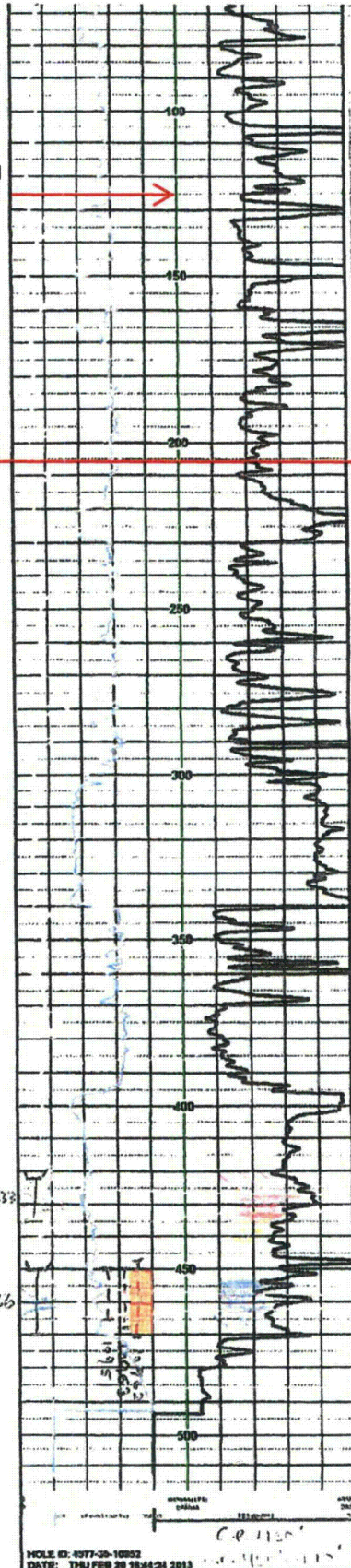
HOLE ID: 4477-2-11018
DATE: WED FEB 20 11:

Closure : 0.1 Feet at 189.5 Degrees

Voice Function: 4477-8-1102
 Date Entered: WED FEB 20 11:00:04 2013
 Impl ID > ID: 0.00000000
 E-VALUE: 0.00000000
 Qualifier: 0.00000000
 Collaboration Rate: 10/10
 Vector Factor: 1.00
 Chain:

-- SUMMARY --


1.6 Feet of 0.023, $\bar{U} = 0.023$
2.5 Feet of 0.021, $\bar{U} = 0.041$

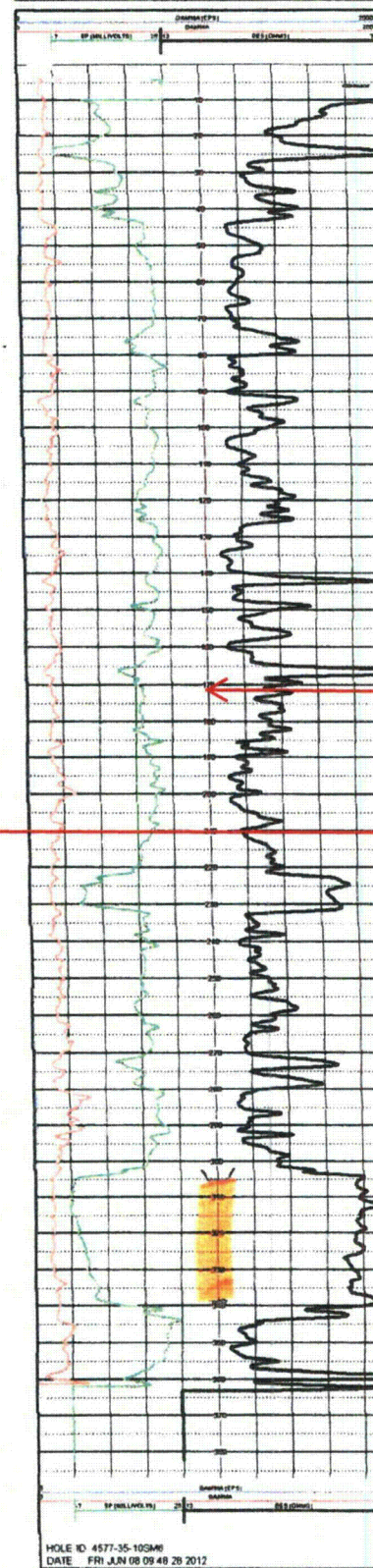


Closure : 8.3 Feet at **10952** feet

[illegible]

100

 uraniumone investing in our energy		4577 35-10SM6 URANIUM ONE, AMERICAS	
Company type	MINERALS AND METALS	Classification	Industry
Headquarters	4001 100 STREET EDMONTON ALBERTA CANADA T6C 1H5	Country	139 A
Phone	781-0460		
Employees	30	Log Market Cap	Nil
Country	4001	Log Market Turn	0.00
Range	3700		
Range Price	US \$20.00 (24 Oct 2012)	Logging Yield	1.67
Sample Price	300	Log Yield	0.45%
Log Returns	253	Recovery By	ALBERTA AND TO
Log Vol	0.1		
Log Price	0.16	Base Rate Paid	ANNUAL 100%
Log Payoff	0.72		
Payoff Factor	0.020	SP Contribution	
SP Factor	0.020		
SP Factor	0.020	SP Factor	SP Factor 2



Water Depth

```

Hole Number: 4577-35-105M6
Date Logged: FRI JUN 08 09:48:28 2012
Tool ID / SN: 8028
K-Factor: 0.00000517
Deadtime: 0.00000439
Calibration Date: 10.15-2011
Water Factor: 1.132
Casing Factor: 1

```

-- SUMMARY --

case 305

305-339

Page 1 of 1

TFN

Statement: I, **Ryan Schierman**, an authorized representative of **Uranium One USA, Inc.**

NOTES: 1) Include all revisions or change elements and a brief description of or reason for each revision element.
2) List all revision or change elements in sequence by volume number; number index sheets sequentially as needed.

Index Sheet for LQD Permitting Changes
Updates: SF2/RV 7/95; RC 9/99; RC 09/00

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**ANNUAL REPORT
PERMIT TO MINE NO. 478
July 1, 2013 through June 30, 2014**

This document provides the information required by the Wyoming Environmental Quality Act, Wyoming Statute 35-11-411 and the LQD NonCoal Rules and Regulations (LQD NC R&R) Chapter 11. Each section is a response to a specific request listed in the Required In Situ Annual Report Format, which was provided by District III, Land Quality Division, Wyoming Department of Environmental Quality (WDEQ).

REQUIRED ANNUAL REPORT INFORMATION

I. GENERAL INFORMATION:

Name of Permittee: Uranium One USA, Inc.
907 N. Poplar Street, Suite 260
Casper, Wyoming 82601

Mining Permit Number: Permit to Mine No. 478

Date of Permit Issuance: August 18, 1978
Amendment No. 1: March 6, 1987
Amendment No. 2: September 12, 1988

Mineral Mined: Uranium

State and Federal Mineral Lease Numbers inside Permit Area:

Uranium One USA Inc. operations are primarily conducted on federal mining claims. These claims are too numerous to list here. Referenced locations in the following text are shown on specified maps located in the Report Appendices.

REPORTING PERIOD:

The annual WDEQ report period for Permit No. 478 is July 1, 2013 through June 30, 2014.

CERTIFICATION AND SIGNATURE (required):

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Tim McCullough Manager Mine Site HSE Uranium One USA, Inc
Print Name and Title of Principal Executive Officer or Authorized Agent

Signature of Principal Executive Officer or Authorized Agent _____ Date _____

II. Mine Operations:

During this annual reporting period, mining operations at the Christensen Ranch site consisted of production in Mine Unit 5-2, Mine Unit 7, Mine Unit 8, Mine Unit 10A and Mine Unit 10B. In Mine Unit 7, Modules 1 through 6 are in operation. In Mine Unit 8, Modules 1, through 4/5 and Modules 6-9 are in operation. In Mine Unit 10A Modules 1 and 2 are in operation. In Mine Unit 10B Module 3-6 are in operation.

During this reporting period, drilling activities were limited to performing thirty eight well recompletions in Mine Unit 7-3 and seven well recompletions in Mine Unit 7-5. These well recompletions involved plugging off the lower completions within the K Sand and then completing a higher zone within the same sand.

There were 786,814 pounds of uranium as U_3O_8 captured for the report period. Tabulated quantity of uranium historically recovered from both projects is provided below:

Year	Lbs. U_3O_8
December, 1978 - August 18, 1979	101,581
August 19, 1979 - August 18, 1980	122,462
August 19, 1980 - August 18, 1981	58,394
August 19, 1981 - August 18, 1982	425
August 19, 1982 - August 18, 1987	0
August 19, 1987 - August 18, 1988	127,350
August 18, 1988 - July 31, 1989	245,514
November 6, 1989 - February 1, 1990	105,030
August 19, 1990 - August 18, 1991	6,224
August 19, 1991 - July 31, 1992	239,723
August 1, 1992 - June 30, 1993	168,967
July 1, 1993 - June 30, 1994	323,726
July 1, 1994 - June 30, 1995	417,237
July 1, 1995 - June 30, 1996	713,238
July 1, 1996 - June 30, 1997	650,197
July 1, 1997 - June 30, 1998	523,237
July 1, 1998 - June 30, 1999	201,010
July 1, 1999 - June 30, 2000	146,264
July 1, 2000 - June 30, 2001	32,411
July 1, 2001 - June 30, 2002	39,415
July 1, 2002 - June 30, 2003	24,712
July 1, 2003 - June 30, 2004	17,700
July 1, 2004 - June 30, 2005	14,705
July 1, 2005 - June 30, 2006	0
July 1, 2006 - June 30, 2007	0
July 1, 2007 - June 30, 2008	0
July 1, 2008 - June 30, 2009	0
July 1, 2009 - June 30, 2010	0
July 1, 2010 - June 30, 2011	59,332
July 1, 2011 - June 30, 2012	371,938
July 1, 2012 - June 30, 2013	915,845

July 1, 2013 – June 30, 2014	786,814
Total	6,413,451

A. Operating Wellfields

1. Wells in Operation

The location of wells in operating Christensen Ranch wellfields is available in electronic format in Appendix 2 as "W.C. Operating Wellfields 2013-2014.pdf." In addition to this map an ArcGIS Map Package titled "W.C. Operating Wellfields.mpk" is also included. This Map Package contains a table with locations and completion details for all wells currently in operation at Christensen Ranch.

2. Well Completion Details

The location of all wells installed in conjunction with Willow Creek (Irigaray and Christensen Ranch Projects) mining activities is available in electronic format in Appendix 2 as "W.C. All Wells 2013-2014.pdf." In addition to this map an ArcGIS Map Package titled "W.C. All Wells 2013-2014.mpk" is also included. This Map Package includes the location details for all of the wells installed in conjunction with mining operations; however, the completion details are not available for all of the wells that are not currently in operation.

B. Water Balance/Hydrology

1. Injection and Production Flow Rates

Willow Creek's injection and production flow rates are continuously recorded from instrumentation at the Wellfield Module Buildings and electronically stored on the wellfield computer system (PLC). Table 1 located in Appendix 1 contains the monthly production, injection and bleed flow volumes for each wellfield area obtained during the reporting period. A review of Table 1 shows that the overall bleed rate for the Willow Creek Project was maintained at 1.1% of the production flow rate.

2. Potentiometric Surface Maps

Potentiometric maps of the monitored aquifers shallow zone, production zone and deep zone for the Willow Creek Project are included in Appendix 3. The maps were constructed using water level data from monitor wells and trend wells where applicable. This data was collected during June 2014.

3. Handling of Wastewater Stream

To control lixiviant migration in the wellfield at the Willow Creek Project, a bleed is taken from the process stream after the fluid exits the IX columns. The fluid then is treated in the reverse osmosis unit (RO) for lixiviant makeup needed for reinjection. The brine waste stream from the RO is then sent to one of the evaporation ponds for storage prior to final disposal in the two permitted deep disposal wells located at the project and the permeate is sent to the Permeate Storage Pond for evaporation.

C. Spills

1. Summary of Spills

There were six reportable spills during this report period. Emails, written notifications and summary reports were submitted to the WDEQ and NRC regarding these events and will not be duplicated in this report.

Maps showing the above locations are provided in Appendix 4.

No significant erosion concerns were experienced do to these events.

January 15, 2014 Module Building 5-5 release update

Following the release from the Module Building 5-5, WDEQ LQD personnel were on site for follow up inspections. On January 21, 2014 Mark Taylor and Luke McMahan conducted an inspection of the spill site and concluded that all of the site spill contingency plans outlined in the permit had been followed. The required action items listed in the inspection report were the need for Uranium One to obtain soil samples, surface water samples and perform a radiological survey of the affected areas.

On June 4, 2014 Luke McMahan conducted a follow up inspection of the spill site and determined that Uranium One had been and was continuing to implement the action items listed in the report from the January 21, 2014 inspection.

All of the sampling requirements requested have been completed as of this reporting date and a report is anticipated to be submitted to WDEQ LQD in the fall of 2014.

D. Excursions

1. Summary of Excursions

Uranium One did not have any monitor well on Excursion Status during the report period;

E. Mechanical Integrity Testing Results

1. Summary of Results

MIT results are reported to the WDEQ on a quarterly basis. During the report period, Mechanical Integrity Tests (MIT's) were completed on a total of 127 wells. The MIT's were completed using the "Two Packer Pressurized Test Method" approved in Permit No. 478. Of the total of 127 wells, 125 wells passed the test and two (2) wells failed the test. The two wells that failed the testing will be repaired or plugged and abandoned per approved WDEQ methodologies. This data has been provided in the previous Quarterly reports and an electronic copy of this data has been included in Appendix 2.

F. New Affected Lands during the Reporting Period

1. Topsoil – Volumes

During the reporting period as a result of new well construction activities being placed on hold, there were no new topsoil stockpiles established. The locations of the historic topsoil stockpiles are shown on the Christensen Project Area Facilities Map located in Appendix 4 as well as the historic topsoil table located below in section III. All site topsoil stockpiles have been bermed and seeded for vegetation growth for erosion prevention.

2. Subsoil - Volumes

Due to the nature of in-situ mining, no subsoil material has been produced or stockpiled.

3. New Buildings Constructed

Christensen Ranch Site

During the reporting period there were no construction activities that occurred at the Christensen Ranch site. A Christensen Project Area Facilities Map has been provided in Appendix 4. .

Irigaray Site

During the reporting period there were no construction activities that occurred at the Irigaray site. An Irigaray Project Area Facilities Map has been provided in Appendix 4.

4. New Pond Construction

No new ponds were constructed at the Willow Creek Project during the reporting period.

5. New Roads and Utilities

During the reporting period there were no new roads or utilities were installed at the Willow Creek Project.

All existing roads and site utilities are shown on the Christensen Project Area Facilities Map located in Appendix 4.

6. Wellfield Disturbance

During the reporting period no construction activities took place resulting in any new wellfield disturbances.

G. New Wells/Wellfields Installed During the Reporting Period

During this reporting period only one new well was installed. This well was installed at the Irigaray facility to be utilized for the buildings water supply.

The new well that have was installed during the reporting period is shown on the Installed Wells Map located in Appendix 4. Additionally, this map can be found in electronic format in Appendix 2 as "W.C. Installed Wells 2013-2014.pdf" and the associated details are included in an ArcGIS Map Package titled "W.C. Drilling Activities & Installed Wells 2013-2014.mpk."

H. Stimulation activities for Class III wells

During this reporting period no stimulation activities were performed on any of Willow Creek Project's Class III wells.

I. Environmental Monitoring

All locations referenced in this section are shown on the Environmental Monitoring Station Locations Map located in Appendix 4.

Groundwater Monitoring – Wellfield Monitor Wells

Groundwater quality at the Christensen site is monitored by routine sampling of 223 monitor and trend wells surrounding or within the active wellfields. There are 25 monitor wells that are sampled in Mine Unit 5-2, 64 monitor wells are sampled in Mine Unit 7, 74 monitor wells are sampled in Mine Unit 8, 20 monitor wells are sampled in Mine Unit 10A, 38 monitor wells are sampled in Mine Unit 10B and two monitor wells are sampled that are "shared" between 10A and 10 B.. Sampling of these monitor wells is performed on a by-weekly basis.

Additionally, there are 241 monitor wells that are sampled on a quarterly basis during post-restoration/stabilization of Mine Units 2, 3, 4, 5 and 6. This will continue until the Christensen Ranch Wellfield Restoration report submitted to the WDEQ and NRC in April 2008 receives regulatory approval.

Sample data for each monitor and trend well from July 1, 2013 through June 30, 2014 have been summarized and submitted to the WDEQ in the Quarterly Reports and an electronic copy of this data has been included in Appendix 2.

Groundwater Monitoring – Regional Ranch Wells

Quarterly samples were collected from seven regional ranch wells during the report period. Regional well samples were analyzed for uranium along with four other radionuclides in the decay chain. The resulting concentrations were primarily Non Detectable (ND) with the detected concentrations within normal historical ranges. The analytical data for these wells has been summarized in Table 2 located in Appendix 1.

Surface Water Monitoring

Willow Creek is an intermittent stream present within the permit boundary of both the IR and CR projects. There are three sample locations designated at each site: upstream, downstream and within the permit boundary. Quarterly samples were collected from the locations where flow was available. The annual sample of the Powder River (IR-5) was collected near the IR site downstream from its confluence with Willow Creek in July 2014

after this reporting period and Uranium One has not received the analytical sampling results for this sample.

The samples were analyzed for both radionuclide and chemical parameters. The resulting radionuclide concentrations were mostly non-detectable, with the remaining concentrations within historical ranges. The chemical parameters were also within historical ranges. The analytical data for the 2013 - 2014 Surface Water sampling has been summarized in Table 3 located in Appendix 1.

Surface Discharge Monitoring

A surface discharge outfall is present at the CR project for disposal of treated groundwater generated by restoration activities. The outfall is licensed under National Pollutant Discharge Elimination System (NPDES) permit issued by the WDEQ. Due to no groundwater restoration activities occurring, no water was discharged at the CR site (Permit No. WY0033642, discharge 002) during this report period, therefore no data set is included.

Evaporation Pond Monitoring

Weekly inspections are conducted on all operable evaporation ponds (currently four at IR and five at CR) on a weekly basis. The evaporation ponds are sampled on a quarterly basis. The analytical data for the 2013 – 2014 Evaporation Pond sampling has been summarized in Table 4 located in Appendix 1.

Pond CR-4

Pond CR-4 was identified as leaking in May of 2014. The source of the leak was identified and the pond was lowered so repairs could be made. Patches were applied on June 09, 2014. This pond has been placed back in service with no further concerns identified. Weekly samples were obtained from both the pond and the leak detection observation tubes until repairs can be made.

Pond CR-2

CR Pond 2 has shown signs of leakage again since repairs were made in 2013. The pond was drained to visually inspect for potential holes. Due to the volume of sediment in the bottom of the pond a thorough inspection of the bottom could not be performed.

Uranium One contracted a firm to perform an electrical leak detect inspection where an electrical current was introduced in the leak detection system and a sensor was conveyed across the top of the liner in an attempt to locate the potential leak sources. This testing required that the ponds be filled with fluid for the test. No abnormal readings were found in

ponds IR-D and CR-2.

As a result of the electrical current test on CR-2, the pond was filled to perform the testing. The pond was unable to be drained due to maintenance activities occurring at DDW 18-3. On December 30, 2014 DDW18-3 was brought back online. Uranium One has been lowering the pond level in CR-2 since. Uranium One will continue to dewater CR-2 until an inspection of the liner can occur. Weekly samples have been obtained for both pond's leak detection tubes.

Ponds IR-D and IR-RA

The company who originally installed the liners in both ponds was on site on June 13 and 14, 2013 to perform repairs. These ponds were then placed back into service and monitored weekly. After several months of pumping back the residual fluid from underneath the liner from the leak detect standpipes it appeared that the repairs performed were unsuccessful. These ponds were then again drained in attempt to further inspect. Uranium One contracted another firm to perform a survey of the pond liners in late June 2014. The survey involved filling the ponds back up and utilizing an electrical charge to detect potential leaks between the leak detect system and the bottom of the pond line itself with an electrical sensor. Nothing conclusive was found with pond IR-D but a potential hole was suggested in the SE end of pond IR-RA. As of this report date, these ponds are currently being drained again to allow for a thorough visual inspection. Weekly samples are obtained from both pond's leak detect observation tubes.

Underground Injection Wells

Two Class I injection wells are installed at the Willow Creek Project and are licensed by WDEQ Permit Number UIC10-219 for industrial wastes. (Former Permit UIC00-340 was renewed on August 7, 2012 and issued as UIC10-219)

As required by UIC Permit 00-294 section I, paragraph 4, Uranium One shall shut one of the wells covered by this permit in annually for a period of time long enough to observe a valid pressure falloff curve. Each year, a well which was not tested in the previous year shall be tested, until all wells are tested in sequence. On September 25th and 26th, 2013, an annual fall off test was performed on Christensen Ranch DW No. 18-3. The annual fall off test will be performed on Christensen Ranch DW No. 1 during the third quarter of 2014. Quarterly disposal reports for both wells have been submitted to the WDEQ - Water Quality Division in Cheyenne, Wyoming. No exceedance of the permit limits were recorded for flow, pressure or water quality during this annual report period.

Uranium One contracted Petrotek Engineering Corporation (Petrotek) to perform the 5 year mechanical integrity test (MITs) for deep disposal well DW No. 1 and CR 18-3 at the Willow Creek ISR uranium project as per Condition M ("Mechanical Integrity") of the UIC Permit 10-219. On June 19, 2014. The DDW 18-3 failed the testing and was shut in until repairs could be made. DDW 18-3 is a critical component of the Christensen Ranch ISR operation and provides 50 % of the existing operational wastewater disposal capabilities. To compensate for the loss of DDW 18-3 Uranium One has relied on evaporative losses, pond storage, and the production of more permeate (use of a reverse osmosis unit) to make up the difference. Uranium One made more permeate by injecting the brine, which normally is disposed of

using the deep wells, back into the production stream. This meant that more permeate could be sent to the permeate pond. As a result of these activities the permeate pond is just under the freeboard limit. Once DDW 18-3 was brought back online the solution going to the ponds was limited and currently efforts are being made to lower the solutions in the ponds.

Wildlife Monitoring

ICF International was contracted by Uranium One to perform an annual wildlife monitoring survey and prepare a summary report for the 2013 wildlife monitoring which is included in this report in Appendix 5.

J. Deviations or Unanticipated Events or Conditions

During the reporting period, there were 12 bi-weekly monitor wells located in MU-10A and 10B that were unable to be sampled in their required time frame the last week of May 2013 due to extremely muddy conditions. These wells were sampled the first week of June 2013 with no issues and were returned to the regular sampling schedule with the rest of the monitor wells in MU-10A and 10B.

K. Projected Operations

Mining is scheduled to continue at Willow Creek Project with Mine Unit 5-2, Mine Unit 7, Mine Unit 8, Mine Unit 10A and Mine Unit 10B. Mining plans scheduled to take place during the next reporting period are as follows:

During the next reporting period, it is not anticipated that any new wellfield packages will be submitted for approval as any additional development activities have been suspended for the reporting period Aug 19, 2014 to Aug 18, 2015.

Additionally as stipulated in a letter to the DEQ on June 24, 2013 Uranium One proposed to temporarily preserve (plug) approximately 200 pilots located in 10B. As per WDEQ Rules and Regulations Chapter 8 Section 2 (i) "Drill holes shall be capped or backfilled immediately after drilling and probing in accordance with W.S. 35-11-404(h). If it is necessary to temporarily delay the abandonment or keep the drill hole open for any reason, the drill hole must be securely covered with a temporary cap in a manner which prevents injury to person or animals. Drill holes shall not be left opened for more than 30 days without specific authorization from the Administrator.

On July 03, 2013 Uranium One received permission from the DEQ to proceed with temporarily capping around 200 pilot holes in Mine Unit 10 with the understanding that Uranium One would re-enter these temporary surface capped holes on or before January 1, 2015 in order to complete permanent reclamation according to LQD Rules and Regulations Chapter 8 or completed as mine production or injection wells. Uranium One has committed to abandoning these wells as per LQD Rules and Regulations Non Coal Chapter 8 before August 1, 2015.

III. Reclamation / Restoration Activities

A. Groundwater Restoration Activities

All groundwater restoration activities, including stabilization monitoring, ended at Christensen Ranch on May 30, 2005. The results of all wellfield restoration were compiled and submitted to the WDEQ-LQD and NRC on April 8, 2008 in the *Wellfield Restoration Report Christensen Ranch Project* (March 5, 2008). Uranium One (U1) received comments in the NRC Restoration Technical Evaluation Report (TER), dated October 23, 2012 concerning the CR Wellfield Restoration Report. The WDEQ-LQD District III staff had provided comments related to their review of the NRC TER in a letter dated January 7, 2013. The WDEQ-LQD staff had stated that the NRC TER was quite sufficient and the TER had affirmed the WDEQ review of the 2008 Report. In the January letter WDEQ had requested that Uranium One address the NRCs outlined issues accordingly and logically. By letters dated July 8, 2013 and July 9, 2013 Uranium One provided an update of activities and plans to address comments in the NRC TER to the NRC and WDEQ-LQD, respectively.

Currently Uranium One, with consultation and assistance from SENES Consultants, is evaluating new data, in conjunction with previous data collected by Uranium One, to compare to data from the original wellfield restoration report. SENES is developing recommendations for a program to address the NRC comments in the 10/23/12 TER and identify if additional data needs are present. The recommendations by SENES are expected to be delivered to Uranium One in the fourth quarter of 2014.

B. Well Plugging and Abandonment Reports

During the reporting period, a total of two wells were properly plugged and abandoned in accordance to WDEQ guidelines. This information has been submitted in the Quarterly WDEQ Reports and will not be duplicated in this report. This referenced data from July 1, 2013 through June 30, 2014 has been summarized and submitted to the WDEQ in the Quarterly Reports and an electronic copy of this data has been included in Appendix 2. All of the referenced abandoned wells are shown on the Abandoned Wells map located in Appendix 4. Additionally, this map can be found in electronic format in Appendix 2 as "W.C. Abandoned Wells 2013-2014.pdf" and the associated details are included in an ArcGIS Map Package titled "W.C. Abandoned Wells 2013-2014.mpk."

C. Surface Reclamation Activities

1. During the reporting period at the Christensen Ranch Site surface reclamation activities were conducted in Mine Unit 8-4/5 area and Mine Unit 10B. The referenced area is provided on the Christensen Ranch Interim Reclamation Map located in Appendix 4.

During the reporting period at the Irigaray Site Uranium One is currently conducting the remaining, final decommissioning of Irigaray Mine Units 1-9. All decommissioning efforts are being conducted according to the *Decommissioning Plan for Irigaray and Christensen Ranch Projects, NRC Source Materials License SUA-1341 and WDEQ Permit to Mine No. 478, A-2* as stated in Condition 9.3 of License SUA-1341 Amendment No. 1. To date all remaining buried wellfield pipeline has been removed and have been shipped to Shirley Basin for 11(e) byproduct disposal. Decommissioning activities will continue,

weather permitting, throughout 2014. The original surface gamma readings (data points) collected in 2004 were lost and could not be located despite considerable efforts. However, the data tracks of the original gamma readings were found and a grid map reflecting the gamma was developed to complete the surface soil contamination survey to the final soil cleanup standards identified in the Cogema decommissioning plan of June 2001. Final reclamation, e.g., contouring, seeding, etc., is still targeted for the fall of 2014.

The 2013 annual noxious weed-spraying program was an extensive campaign and carried into the fall of 2013. An additional 96 acres were sprayed at the Willow Creek site on top of the 86 acres reported in the 2012 – 2013 Annual report. The 2014 weed spraying campaign was set to begin in August of 2014 and will be reported in the 2014-2015 Annual Report.

- a. During the reporting period reclamation activities involving re-contouring of the terrain and erosion control preventative measures were performed on approximately seven acres in Mine Unit 8-4/5 and approximately 72 acres in Mine Unit 10B. These activities addressed areas that had not yet been reclaimed as well as areas that needed additional reclamation performed.
- b. A table is supplied below for the total estimated historical topsoil stockpile volumes and dates stockpiled as a result from mining activities at the Willow Creek Project.

Stockpile No.	Estimated Volume (yd ³)	Date Stockpiled
Irigaray Project:		
1	1,657.0	Nov. 1976*
2	267.0	Sep. 1978
3	9,748.0	Sep. 1978
4	120.0	Oct. 1978
5	2,248.0	Oct. 1978
6	9,463.0	Aug. 1979
7	1,553.0	Sep. 1979
8	630.0	Oct. 1979
9	3,032.0	Jul. 1980
10	3,369.0	Aug. 1980
11	1,444.0	Aug. 1980
12	8,771.0	Aug. 1980
*IR stockpile No. 1 was utilized for the restoration efforts of 517 in May 2004.		

Christensen Ranch Project:		
1	71,787.0	Sep. 1988
2	17,182.0	Sep. 1988
3	14,278.0	Oct. 1988
4	16,779.0	Oct. 1988

5	6,520.0	Mar. 1993
6	1,680.0	Apr. 1993
7	8,291.2	May. 1998
8	4,315.0	Jun. 1995
9	16,822.0	Jun. 1995
10	1,157.0	Apr. 1996
11	4,888.9	Jul. 1996
12	4,120.0	Jan. 1997
13	3,514.7	May. 1998
14	2,591.3	Dec. 1999
15	787.5	Jul. 2011
16	500.0	Sept. 2011
17	116.7	June 2012
18	204.2	June 2012
19	385.0	June 2012
20	680.0	June 2012
21	222.2	June 2012
22	360.0	May 2012
23	416.7	June 2012
24	540.0	June 2012
25	750.0	March 2012
26	1800.0	April 2012
27	357.5	April 2012
28	312.5	March 2012
29	144.5	May 2012
30	852.0	June 2012
31	480.0	June 2012
32	1000.0	May 2012
33	840.0	Oct. 2011
34	817.0	Aug. 2012

- c. No new wellfields or trunklines were installed during the reporting period.
- d. All of the seeding activities performed at the Willow Creek Project during this reporting period was limited to interim seeding. No permanent seeding was performed.
- e. A table is supplied below for the total estimated surface acreage disturbed to date from mining activities at the Willow Creek Project.

Irigaray Project:	
Years Affected	Acreage
All disturbances prior to August 17, 1978	9.00 Acres
August 18, 1978 - August 18, 1979	74.56 Acres
August 19, 1979 - August 18, 1980	43.38 Acres
August 19, 1980 - August 18, 1981	4.66 Acres
August 19, 1981 - August 18, 1995	0.00 Acres
August 19, 1995 - August 18, 1996	1.50 Acres
August 19, 1996 – August 18, 2010	0.00 Acres
August 19, 2010 – August 18, 2012	0.00 Acres
August 19, 2012 – August 18, 2013	0.00 Acres
Total	133.10 Acres
Christensen Ranch Project:	
Years Affected	Acreage
August 19, 1988 - August 18, 1989	79.60 Acres ¹
August 19, 1989 - August 18, 1990	10.50 Acres ²
August 19, 1990 - August 18, 1992	0.00 Acres
August 19, 1992 - August 18, 1993	106.87 Acres ³
August 19, 1993 - August 18, 1994	5.00 Acres ⁴
August 19, 1994 - August 18, 1995	40.72 Acres ⁵
August 19, 1995 - August 18, 1996	66.26 Acres ⁶
August 19, 1996 - August 18, 1997	33.70 Acres ⁷
August 19, 1997 - August 18, 1998	12.98 Acres ⁸
August 19, 1998 - August 18, 1999	95.70 Acres ⁹
August 19, 1999 - August 18, 2000	2.53 Acres ¹⁰
August 19, 2000 – August 18, 2008	0.00 Acres
August 19, 2008 - August 18, 2009	0.00 Acres
August 19, 2009 - August 18, 2010	2.29 Acres
August 19, 2010 – August 18, 2011	123.7 Acres
August 19, 2011 – August 18, 2012	137.4 Acres ¹¹
August 19, 2012 – August 18, 2013	125.04 Acres
Total	842.29 Acres
GRAND TOTAL (IR & CR)	975.39 Acres

¹ Mine Unit 3 wellfield area - 45.99, ponds & plant - 13.98, topsoil - 3.71, roads - 11.03, lay-down area - 4.88;

² Unit 3 extension - 10.50; ³ Unit 2 wellfield, pipeline corridors & staging areas - 50.15, Unit 2 topsoil - 0.96, roads - 7.36, Unit 4 development area - 48.08, Unit 4 topsoil - 0.32; ⁴ Unit 5 lay-down area & delineation holes, - 5.00; ⁵ Unit 5 roads - 11.1, Unit 5 wellfield, pipeline corridors & staging area - 27.20, Unit 5 topsoil - 2.42; ⁶ Unit 5 wellfield & pipeline corridors - 47.8, Unit 5 roads & modules - 1.9, Unit 5 topsoil - 0.04, Unit 6 wellfield,

delineation holes, & staging area - 11.1, Unit 6 topsoil - 2.52, Deep disposal well # 1 - 2.9, ⁷Unit 6 Booster Pump Station & road - 1.8, Unit 6 wellfield, delineation holes & staging area - 29.2, Unit 6 roads & module buildings - 2.7; ⁸Unit 7 delineation holes - 10.52, Unit 7 lay-down & borrow area - 0.22, Unit 8 delineation holes - 4.48; ⁹Unit 7 development area & delineation holes - 42.7, Unit 8 exploration hole sealing & delineation holes - 53.0 acres; ¹⁰Deep disposal well # 18-3 location & road - 2.3 acres, wellfield electrical line replacement - 0.23; ¹¹Delineation holes in MU-8,9,10,11 and 12 - 41.7 acres, construction disturbance in MU7 and 8 - 83.3 acres, MU8 trunkline and Booster Station - 7.4 acres, MU10 drilling pond and lay down yard - 5 acres.

D. Deviations or Unanticipated Events

1. There were no deviations from the approved Reclamation/Restoration Plan during the reporting period at the Willow Creek Project.

IV. Drill Hole Reporting

A. Maps

All of the locations of the abandoned drill holes referenced below are shown on the Drilling Activities map located in Appendix 4. Additionally, this map can be found in electronic format in Appendix 2 as "W.C. Drilling Activity 2013-2014.pdf" and the associated details are included in an ArcGIS Map Package titled "W.C. Drilling Activities & Installed Wells 2013-2014.mpk."

B. Drill Holes

During the reporting period a total of two drill holes were properly abandoned in accordance to WDEQ guidelines. The abandonment records and can be found on Table 5 located in Appendix 1.

C. Description of Disturbances and Reclamation

During the 2012 – 2013 Annual Report reporting period it was noted that 233 drill holes were properly abandoned in the Mine Unit 10 area. These locations have been re-contoured and have been included in the total disturbance reported in Section C Surface Reclamation Activities above. 132 drill holes were properly abandoned in the proposed Mine Unit 11 area and 25 drill holes were properly abandoned in the proposed Mine Unit 12 area. With an approximate disturbance of 0.04 acres per location the total approximate acres of disturbance for this reporting period is approximately 15.6 acres, These locations have been re-contoured and were reseeded in the fall of 2013.

D. Seeding Activities

1. During the reporting period no delineation activities occurred needing seeding activities performed.
2. The remaining disturbed areas (and re-seeded areas needing attention) associated with the delineation drill holes that occurred during the 2012 - 2013 reporting period that had not been addressed as of the 2012-2013 Annual Report (approximately 62 acres) have

be re-seeded utilizing a drill seeder or an ap seeder with the approved interim seed mixture during the fall of 2013 at a rate of 20 lbs/acre Pure Live Seed (PLS).

3. The Christensen Ranch Interim Reclamation Map showing the fall 2013 drill hole seeding locations is provided in Appendix 4.

V. Reclamation Performance Surety Estimate

In accordance with SUA-1341 License Condition 9.5 as required by 10 CFR 40, Appendix A, Criterion 9 an updated reclamation/restoration surety estimate for July 1, 2014 through June 30, 2015 is provided in Appendix 6. Uranium One (U1) has currently put any significant development plans at the Willow Creek project on hold due to the low market price of uranium. Therefore, most changes to the 2013-2014 surety estimate concern updating current operating costs or revisions to reflect current development plans. In the 2012-2013 surety estimate many development costs were included that have not been completed during the current reporting period, e.g., the partial development of Mine Unit 11 (MU11), that have not been completed. These projects that have not been completed and are not anticipated to be completed during the 2014-2015 reporting period, and thus have been removed from the 2014-2015 surety estimate.

These changes have been highlighted in gray throughout the surety estimate worksheets and brief explanations are given below. Additionally, costs in Worksheets 2-6 have been updated using the revised "Cost Summary Sheet" as mentioned below. The costs in Worksheet 1 "Groundwater Restoration" have been escalated using a 17.2% inflation factor based on the Consumer Price Index (CPI) for all urban consumers from September 2006 to August 2014.

It should be noted that currently in Mine Unit 10 (MU10) U1 has only completed wellfield modules 10-1 (Mod 10-1) through 10-6 and as previously mentioned no further development is planned during the next reporting period.

Cost Summary Sheet

- All costs taken from WDEQ-LQD Guideline 12 have been updated based on the October 2013 revision.
- Operational costs have been updated as needed.

Worksheet 1: Groundwater Restoration

- The wellfield area and number of wells for MU10 and MU11 has been adjusted to reflect actual conditions. Well for MU10-7 and MU10-8 have been removed no plans for development in 2014-2015.
- The required WDEQ-WQD 3% annual adjustment for the plugging and abandonment of deep disposal wells CR DW-1 and CR 18-3 has been adjusted.
- Credit for completion of groundwater sweep for Christensen Ranch Mine Units 2-6 has been granted by the WDEQ and authorized by NRC; therefore, separate WDEQ estimates and NRC estimates are provided.
-

Worksheet 2: Plant Equipment Removal and Disposal

- During the 2013-2014 reporting period Uranium One removed module building for MU10-7 and MU10-8 in MU10.
- Costs adjusted to reflect the October 2013 Guideline 12 update.

Worksheet 3: Building Demolition and Disposal

- During the 2013-2014 reporting period Uranium One removed module building 10-7 and 10-8.
- Cost adjustments to reflect the October 2013 Guideline 12 update.

Worksheet 4: Pond Reclamation Cost

- Remained the same as 2013-2014 cost estimates.

Worksheet 5: Well Plugging and Abandonment

- The total number of wells for CR MU10 has been decreased to reflect the actual number of wells installed. Wells for and the possible development of Mods 10-7 & 10-8 were removed.
- The estimated number of wells to be installed in MU11 has been adjusted.

Worksheet 6: Wellfield Equipment Removal & Disposal

Section I: Wellfield Piping

- The number of wells and amount of piping in CR MU10 and MU11 has been revised to reflect actual numbers and plans for the 2014-2015 reporting period.

Section II: Production Well Pumps

- The number of production well pumps has been revised to reflect the current number for CR MU10, and the projected number for MU11 has been revised.

Section V: Manholes

- Same as 2013-2014 assumptions.

Worksheet 7: Topsoil Replacement & Revegetation

- Same as 2013-2014 assumptions, no changes made.

Worksheet 8: Miscellaneous Reclamation

- Same as 2013 -2014 assumptions, no changes made.

Table 1, Summary:

In summary, the new grand total surety estimate for WDEQ is \$21,037,276 and the NRC estimate is \$20,916,574. This represents a increase of \$322,212 for the WDEQ estimate and a increase of \$553,102 for the NRC estimate, under the current Irrevocable Letter of Credit issued in the favor of the State of Wyoming-DEQ in the amount of \$21,075,000 (NRC License SUA-1341 Amendment No. 1, Condition 9.5). Uranium One respectfully requests that WDEQ approve the new surety amount of \$21,037,276. Due to the differences between WDEQ and NRC surety estimates, Uranium One will continue with the current Irrevocable Standby Letter of Credit amount of \$21,075,000 for the Willow Creek project.

**The following 2 Drawings specifically
reference**

Irigaray Project
Area Facilities Location Map
Permit to Mine # 478

&

Irigaray & Christensen Ranch
Environmental Monitoring
Station Locations
Permit to Mine # 478

D01 to D02X

RECURRING COST

Item	Amount (\$)	Units	Cost Basis
ELECTRICAL			
Power Cost (actual costs)	\$0.04850	kw/hr	Current operating cost of electricity - Powder River Energy - Dec. 2012

LABOR RATES

Supervisor	\$25.00	Hour	Operator Wage below + \$5.00 referenced in WDEQ Guideline 12, Section I
Plant Operator	\$20.00	Hour	Based on current average wage structure for Willow Creek Operators
Plant Operator	\$20.00	hour	Based on current average wage structure for Willow Creek Operators
Laborers (Group 1)	\$15.10	hour	From 2013 State Building Construction Prevailing Wages (referenced WDEQ-LQD Guideline 12 I).
Laborers (Group 2)	\$18.68	hour	From 2013 State Building Construction Prevailing Wages (referenced WDEQ-LQD Guideline 12 I).

ANALYTICAL

Guideline 8	\$390.00	batch	Current rate used in worksheet 1
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**TRANSPORTATION
AND DISPOSAL**

Distance to Landfill	115	(miles)	The distance from Christensen Ranch/Irigary to Casper Landfill is ~115 miles
Transportation Cost	\$0.21	(\$/Ton-Mile)	Estimate from local trucking company (Dec. 2012)
Solid Waste landfill disposal cost	\$58.50	Ton	Casper City landfill rates for outside of Natrona County commercial trailer over 8 feet in length.
Quantity Per Truck Load	20	(Tons)	
Quantity Per Truck Load	20.0	(Yds ³)	
11e2 disposal cost	\$100.00	cubic yard	Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
11e2 disposal cost	\$3.70	cubic foot	Average cost of graduated fee schedule for disposal of soils, sands, rubble etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
11e2 disposal cost	\$11.00	cubic foot	Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
11e2 disposal cost	\$297.00	cubic yard	Average cost of graduated fee schedule for disposal of sludge, resin beads, filter media, etc., at NRC Licensed Facility (Shirley Basin) (August 2010)
Onsite Disposal	\$0.31	cubic foot	WDEQ Guideline 12, Appendix K, Concrete Disposal On Site $8.25\text{yd}^3 = \$0.31\text{ft}^3$
11e2 Transportation Cost Per Truck	\$2,100.00		Constant cost per load based on current contract with local trucking company

**VEHICLE
OPERATION**

Pick up 4X4 (diesel)	\$26.12	unit	Cost per WDEQ Guideline 12 Table D-1
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**PLANT
DISMANTLING**

Concrete Floor Demolition	\$5.48	square foot	Costs per WDEQ Guideline 12, Appendix K
Cost of Demolition Per Ft ³	\$0.29	Cubic foot	WDEQ Guideline 12, Appendix K

**PLANT/EQUIPMENT
DECONTAMINATION
AND DISPOSAL**

Decontamination	\$0.13	square foot	Based on actual costs
Decontamination	\$435.00	truck load	Based on actual costs

WELL PLUGGING AND ABANDONMENT

Bentonite Chips	\$4.70	50# bag	Based on 2014 current costs from Casper Well Supply
Cement Cones	\$10.00	per hole	Costs per WDEQ Guideline 12, App. L, Abandonment and Sealing of Drill and Monitor Wells

EQUIPMENT

Dozer	\$93.43	acre	Cost per WDEQ Guideline 12, App M, rough grading/backfill
Backhoe Loader (Cat 430E 4WD)	\$35.73	hour	Cost per WDEQ Guideline 12, Table D-1
Loader (Cat 980H)	\$116.22	hour	Cost per WDEQ Guideline 12, Table D-1
Pick up 4X4 (gasoline)	\$26.12	hour	Cost per WDEQ Guideline 12, Table D-1
Hose Reel	\$45.00	hour	Costs for equipment from operating ISR facility

CULVERT REMOVAL

20 foot culvert	\$139.12		Cost per WDEQ Guideline 12, Appendix J
per foot	\$6.96	foot	

ELECTRICAL POWERLINES & TRANSFORMERS

Distribution/Transmission Lines	\$0.00		Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H
Transformers	\$0.00		Tri-County Electric will remove at no cost, WDEQ Guideline 12, Appendix H

FENCING

Removal	\$0.39	linear foot	WDEQ Guideline 12, Appendix H
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RECLAMATION

Discing and Seeding	\$280	acre	Operator Experience based on Current Contractor Pricing
Top Soil Application	\$0.990	cu/yd	Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet
Unit Cost - Haul/Place (\$/Yd ³)	\$0.990	cu/yd	Cost per WDEQ Guideline 12A, II(A) Average travel distance of 1000 feet
Unit Cost - Grading (\$/Ac)	\$93.43	acre	Costs per WDEQ Guideline 12, Appendix M D9 dozer

References

Guideline 12 costs were updated using Oct. 2013 version.

TABLE 1

			WDEQ Estimate	NRC Estimate
I GROUNDWATER RESTORATION - Worksheet 1:			\$8,561,890	\$8,819,805
Adjustment for Inflation =	17.2%			
(Sep. 2006 CPI All Urban Consumers, 202.9, to August 2014, 237.852)			\$1,474,890	\$1,519,319
Subtotal Groundwater Restoration			\$10,036,780	\$10,339,124
II DECOMMISSIONING AND SURFACE RECLAMATION:				
A. Process Plant(s) Equipment Removal and Disposal	Worksheet 2		\$252,620	\$252,620
B. Plant Building(s) Demolition and Disposal	Worksheet 3		\$1,353,362	\$1,353,362
C. Process Pond Sludge and Liner Handling	Worksheet 4		\$1,128,502	\$1,128,502
D. Well Abandonment	Worksheet 5		\$860,193	\$860,193
E. Wellfield Equipment Removal and Disposal	Worksheet 6		\$2,076,549	\$2,076,549
F. Topsoil Replacement and Revegetation	Worksheet 7		\$1,188,209	\$1,188,209
G. Miscellaneous Reclamation Activities	Worksheet 8		\$139,551	\$139,551
Sub Total - Decommissioning and Surface Reclamation			\$6,998,986	\$6,998,986
TOTAL RESTORATION AND RECLAMATION			\$17,035,767	\$17,338,110
SUBTOTAL			\$17,035,767	\$17,338,110
Miscellaneous Costs Associated with Third Party Contractors				
	WDEQ	NRC		
Project Design	\$200,000.00	15%		
Site Security & Liability Assurance	\$200,000.00			
Contractor Profit & Mobilization	10%			
Pre-construction Investigation	1%			
Project Management	3%	10%		
On-site monitoring	0.5%			
Longterm Administration	2%			
Subtotal miscellaneous additions to surety	16.5%	25.0%	\$3,210,902	\$4,334,527.60
SUBTOTAL			\$20,246,668	\$21,672,638
Contingency	WDEQ 4%		\$809,867	\$0
GRAND TOTAL RESTORATION AND RECLAMATION			\$21,056,535	\$21,672,638

GROUNDWATER RESTORATION

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
Technical Assumptions:											
Wellfield Area (Ft²)	522720	784080	890000	798944	510088	1210968	2021243	1180476	1750020	1337940	785991
Wellfield Area (Acres)	12.00	18.00	20.43	18.34	11.71	27.80	46.40	27.10	40.17	30.71	17.92
Affected Ore Zone Area (Ft²)	522720	784080	890000	798944	550193	1346004	2058344	1180476	1750020	1337940	0
Avg Completed Thickness (Ft)	15.0	18.0	11.0	10.0	12.7	19.9	21.8	18.0	20.0	20.0	20.0
Affected Volume:											
Factor For Vertical Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Factor For Horizontal Flare	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Total Volume (Ft³)	11290752	20323353.6	14097600	11504793.6	10061929.6	38593685.7	64615534.8	30597937.92	50400576	38532672	0
Porosity	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%	26.0%
Gallons Per Cubic Foot	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Gallons Per Pore Volume	21958254.5	39524858.1	27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Number of Wells in Unit(s)											
Production Wells	150	274	91	176	81	134	178	167	264	220	0
Injection Wells	310	330	195	267	130	188	202	389	516	348	0
Monitor Wells	150	165	50	47	33	72	64	66	76	72	44
Baseline Water Quality wells (prod or inj)	19	27	24	19	15	25	47	11	14	10	6
Average Well Spacing (Ft)	35	35	85	70	85	85	100	70	80	80	80
Average Well Depth (Ft)	250	250	345	300	430	450	520	550	375	500	500

I GROUNDWATER SWEEP

A. PLANT & OFFICE

Operating Assumptions:											
Flowrate (gpm)			200	200	200	200	200	200	200	200	200
PV's Required			1	1	1	1	1	1	1	1	1
Total Gallons For Treatment			27417012.5	22374522.6	19568440.7	75057000	125664292	59506869.67	98019040.2	74938340.51	0
Total KGals for Treatment			27417	22375	19568	75057	125664	59507	98019	74938	0
Cost Assumptions:											
Power											
Avg Connected Hp			40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Kwh's/Hp			0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
\$/Kwh			\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485
Gallons Per Minute			200	200	200	200	100	100	100	100	100
Gallons Per Hour			12000	12000	12000	12000	6000	6000	6000	6000	6000
Cost Per Hour			1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
Cost Per Gallon			0.00013	0.00013	0.00013	0.00013	0.00027	0.00027	0.00027	0.00027	0.00027
Cost Per KGal (\$)			\$0.134	\$0.134	\$0.134	\$0.134	\$0.268	\$0.268	\$0.268	\$0.268	\$0.268
Chemicals											
Antiscalant (\$/KGals)			\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947
Elution (\$/KGals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099
Repair & Maintenance (\$/KGals)			\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379	\$0.0379
Analysis (\$/KGals)			\$0.131	\$0.127	\$0.115	\$0.050	\$0.056	\$0.000	\$0.000	\$0.000	\$0.000
Total Cost Per KGal			\$0.497	\$0.493	\$0.481	\$0.416	\$0.556	\$0.500	\$0.500	\$0.500	\$0.500
Total Treatment Cost			\$13,629	\$11,034	\$9,408	\$31,205	\$69,878	\$29,751	\$49,006	\$37,467	\$0
Utilities											
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65
Telephone (\$/Month)			\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Time For Treatment											
Minutes For Treatment			137085	111873	97842	375285	628321	0	0	0	0
Hours For Treatment			2285	1865	1631	6255	10472	0	0	0	0
Days For Treatment			95	78	68	261	436	0	0	0	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			3.1	2.6	2.2	8.6	14.3	0.0	0.0	0.0	0.0
Utilities Cost (\$)			\$1,768	\$1,443	\$1,262	\$4,841	\$8,105	\$0	\$0	\$0	\$0
TOTAL PLANT & OFFICE COST			\$0	\$0	\$15,397	\$12,477	\$10,670	\$36,046	\$77,983	\$29,751	\$49,006

I GROUNDWATER SWEEP (Continued)

B. WELLFIELD

Cost Assumptions:											
Power											
Avg Flow/Pump (gpm)			20	20	20	20	20	20	20	20	20
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Avg Connected Hp			30	30	30	30	30	30	30	30	30
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh			\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485

Uranium One USA, Inc.
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Wyoming Operations
WORKSHEET 1

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
GROUNDWATER RESTORATION			200	200	200	200	200	200	200	200	200
Gallons Per Minute			12000	12000	12000	12000	12000	12000	12000	12000	12000
Gallons Per Hour			\$1.21	\$1.21	\$1.21	\$1.21	\$1.21	\$1.21	\$1.21	\$1.21	\$1.21
Cost Per Hour (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Guideline 12 costs Cost Per Gallon (\$)			0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101	0.101
Cost Per KGal (\$)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289
Repair & Maintenance (\$/KGals)			\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390
Total Cost Per KGal			\$10,694	\$8,727	\$7,632	\$29,275	\$49,014	\$23,210	\$38,231	\$29,229	\$0
TOTAL WELLFIELD COST	\$0	\$0									
TOTAL GROUND WATER SWEEP COST	\$0	\$0	\$26,091	\$21,204	\$18,302	\$65,321	\$126,997	\$52,961	\$87,237	\$66,695	\$0

II REVERSE OSMOSIS

A. PLANT & OFFICE

Operating Assumptions:											
Flowrate (gpm)			500	500	500	500	500	500	500	500	500
PV's Required			5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	10.0
Total Gallons For Treatment			137085062	111872613	97842203.3	375285000	628321461	595068696.7	980190402	749383405.1	0
Total KGals for Treatment			137085	111873	97842	375285	628321	595069	980190	749383	0
Feed to RO (gpm)			500	500	500	500	500	500	500	500	500
Permeate Flow (gpm)			375	375	375	375	375	375	375	375	375
Brine Flow (gpm)			125	125	125	125	125	125	125	125	125
Average RO Recovery			75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%	75.0%
Cost Assumptions:											
Power											
Avg Connected Hp			560.00	560.00	560.00	560.00	560.00	560.00	560.00	560.00	560.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh			\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485
Gallons Per Minute			500	500	500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour (\$)			\$22.54	\$22.54	\$22.54	\$22.54	\$22.54	\$22.54	\$22.54	\$22.54	\$22.54
Cost Per Gallon (\$)			\$0.00075	\$0.00075	\$0.00075	\$0.00075	\$0.00075	\$0.00075	\$0.00075	\$0.00075	\$0.00075
Cost Per KGal (\$)			\$0.751	\$0.751	\$0.751	\$0.751	\$0.751	\$0.751	\$0.751	\$0.751	\$0.751
Chemicals											
Caustic Soda (\$/KGals)			\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018	\$0.018
Antiscalant (\$/KGals)			\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947	\$0.0947
Elution (\$/KGals)			\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099	\$0.099
Repair & Maintenance (\$/KGals)			\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038	\$0.038
Sampling & Analysis (\$/KGals)			\$0.090	\$0.122	\$0.092	\$0.039	\$0.032	\$0.054	\$0.034	\$0.042	\$0.038
Total Cost Per KGal (\$)			\$1.091	\$1.123	\$1.093	\$1.040	\$1.033	\$1.055	\$1.035	\$1.043	\$0.038
Total Pumping Cost (\$)	\$0	\$0	\$149,576	\$125,587	\$106,943	\$390,170	\$648,767	\$627,870	\$1,014,557	\$781,953	\$0
Utilities											
Power (\$/Month)			\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65
Propane (\$/Month)			\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Time For Treatment											
Minutes For Treatment			274170	223745	195684	750570	1256643	1190137	1960381	1498767	0
Hours For Treatment			4570	3729	3261	12510	20944	19836	32673	24979	0
Days For Treatment			190	155	136	521	873	826	1361	1041	0
Average Days Per Month			30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4
Months For Treatment			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Utilities Cost (\$)	\$0	\$0	\$3,580	\$2,882	\$2,543	\$9,662	\$16,216	\$15,368	\$25,312	\$19,323	\$0
TOTAL PLANT & OFFICE COST	\$0	\$0	\$153,135	\$128,469	\$109,485	\$399,832	\$664,982	\$643,238	\$1,039,869	\$801,276	\$0

II REVERSE OSMOSIS (Continued)

B. WELLFIELD

Cost Assumptions:											
Power											
Avg Flow/Pump (gpm)			20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Avg Hp/Pump			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Avg # of Pumps Required			25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Avg Connected Hp			75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh			\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485
Gallons Per Minute			500	500	500	500	500	500	500	500	500
Gallons Per Hour			30000	30000	30000	30000	30000	30000	30000	30000	30000
Cost Per Hour (\$)			\$3.02	\$3.02	\$3.02	\$3.02	\$3.02	\$3.02	\$3.02	\$3.02	\$3.02
Cost Per Gallon (\$)			\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001	\$0.0001
Cost Per KGal (\$)			\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101	\$0.101
Repair & Maintenance (\$/KGals)			\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289	\$0.289

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	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
GROUNDWATER RESTORATION											
Total Cost Per KGal			\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390	\$0.390
TOTAL WELLFIELD COST	\$0	\$0	\$53,413	\$43,590	\$38,123	\$146,225	\$244,818	\$231,861	\$381,919	\$291,988	\$0
Circulate 1 PV of Hydrogen Sulfide gas reductant \$0.863 per KGal			\$23,661	\$19,309	\$16,888	\$64,774	\$108,448	\$51,354	\$84,590	\$64,672	\$0
TOTAL REVERSE OSMOSIS COST	\$0	\$0	\$230,210	\$191,368	\$164,496	\$610,831	\$1,018,248	\$926,453	\$1,506,378	\$1,157,935	\$0

III WASTE DISPOSAL WELL

Operating Assumptions:											
Annual Evaporation Capacity (Gals)			1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612	1,917,612
Avg. Monthly Evap. Capacity (Gals)			159,801	159,801	159,801	159,801	159,801	159,801	159,801	159,801	159,801
Total Disposal Requirement											
RO Brine Total Gallons			34,271,266	27,968,153	24,460,551	93,821,250	157,080,365	148,767,174	245,047,601	187,345,851	0
RO Brine Total KGallons			34,271	27,968	24,461	93,821	157,080	148,767	245,048	187,346	0
Brine Concentration Factor			60%	60%	60%	60%	60%	60%	60%	60%	60%
Total Concentrated Brine (Gals)			20,562,759	16,780,892	14,676,330	56,292,750	94,248,219	89,260,305	147,028,560	112,407,511	0
Months of RO Operation			6.3	5.1	4.5	17.1	28.7	27.2	44.8	34.2	0.0
Average Monthly Reqm't (Gallons)			3,263,930	3,290,371	3,261,407	3,291,974	3,283,910	3,281,629	3,281,888	3,286,769	
Monthly Balance for DDW (Gals)			3,104,129	3,130,570	3,101,606	3,132,173	3,124,109	3,121,828	3,122,087	3,126,968	
Total WDW Disposal (Gallons)			19,556,013	15,965,907	13,957,226	53,560,153	89,661,930	84,913,717	139,869,476	106,942,317	
Total WDW Disposal (KGals)			19,556	15,966	13,957	53,560	89,662	84,914	139,869	106,942	
Cost Assumptions:											
Power											
Avg Connected Hp			100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WDW Avg Connected Hp			180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00
Kwh's/Hp			0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830	0.830
\$/Kwh			\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485	\$0.0485
Gallons Per Minute			150	150	150	150	150	150	150	150	150
Gallons Per Hour			9000	9000	9000	9000	9000	9000	9000	9000	9000
Cost Per Hour (\$)			\$11.27	\$11.27	\$11.27	\$11.27	\$11.27	\$11.27	\$11.27	\$11.27	\$11.27
Cost Per Gallon (\$)			\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013	\$0.0013
Cost Per KGal (\$)			\$1.252	\$1.252	\$1.252	\$1.252	\$1.252	\$1.252	\$1.252	\$1.252	\$1.252
Chemicals (\$/KGals)											
RO Antiscalant (\$/KGals)			\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190	\$0.190
WDW Antiscalant (\$/KGals)			\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237	\$0.237
Sulfuric Acid (\$/KGals)			\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534	\$0.534
Corrosion Inhibitor			\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Algicide			\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111	\$0.111
Repair & Maint (\$/KGals)			\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077	\$0.077
Total Cost Per KGal			\$2.401	\$2.401	\$2.401	\$2.401	\$2.401	\$2.401	\$2.401	\$2.401	\$2.401
TOTAL WASTE DISPOSAL WELL COST			\$46,961	\$38,340	\$33,517	\$128,618	\$215,312	\$203,910	\$335,879	\$256,809	\$0

IV STABILIZATION MONITORING

Operating Assumptions:											
Time of Stabilization (mos)			12	12	12	12	12	12	12	12	9
Frequency of Analysis (mos)			3	3	3	3	3	3	3	3	3
Total Sets of Analysis			4	4	4	4	4	4	4	4	4
Cost Assumptions:											
Generator Rental per sample set			\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280	\$280
Analytical costs per set			\$9,360	\$7,410	\$5,850	\$9,750	\$18,330	\$4,290	\$5,460	\$3,900	\$2,340
Total Sampling & Analysis Cost (\$)			\$38,560	\$30,760	\$24,520	\$40,120	\$74,440	\$18,280	\$22,960	\$16,720	\$10,480
Utilities (Power + Telephone per month)			\$565	\$565	\$565	\$565	\$565	\$565	\$565	\$565	\$565
Total Utilities Cost (\$)			\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$6,780	\$5,085
TOTAL STABILIZATION COST	\$0	\$0	\$45,340	\$37,540	\$31,300	\$46,900	\$81,220	\$25,060	\$29,740	\$23,500	\$0

V LABOR (Irigaray and Christensen Combined)

Cost Assumptions	Cost/Hour	Hours/Year	Cost
Crew:			
1 Supervisor	\$25.00	2080	\$52,000
4 Operators	\$20.00	2080	\$166,400
2 Maintenance	\$20.00	2080	\$83,200
2 Vehicles	\$26.12	2080	\$108,659
Cost per Year			\$410,259
Time Required - Years		2.0	
TOTAL RESTORATION LABOR COST			\$820,518

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GROUNDWATER RESTORATION

Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11
Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Unit #2 Thru #4	Total Christensen & Irigaray								

VI RESTORATION CAPITAL REQUIREMENTS		
I Deep Disposal Well(s) - new		\$0
II Plug and Abandon CR DW-1		\$73,950
III Plug and Abandon CR 18-3		\$66,250
IV 500 GPM Reverse Osmosis Unit		\$0
WDEQ WOD 3% Annual Adjustment		\$5,412
Total	\$0	\$148,612

	Irigaray Mine Unit(s) #1 Thru #5	Irigaray Mine Unit(s) #6 Thru #9	Christensen Mine Unit #2	Christensen Mine Unit #3	Christensen Mine Unit #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	TOTAL
SUMMARY:												
I GROUNDWATER SWEEP	\$0	\$0	\$26,091	\$21,204	\$18,302	\$65,321	\$126,997	\$52,961	\$87,237	\$66,695	\$0	\$0
II REVERSE OSMOSIS	\$0	\$0	\$230,210	\$191,368	\$164,496	\$610,831	\$1,018,248	\$926,453	\$1,506,378	\$1,157,935	\$0	\$0
III WASTE DISPOSAL WELL	\$0	\$0	\$46,961	\$38,340	\$33,517	\$128,618	\$215,312	\$203,910	\$335,879	\$258,809	\$0	\$0
IV STABILIZATION	\$0	\$0	\$45,340	\$37,540	\$31,300	\$46,900	\$81,220	\$25,060	\$29,740	\$23,500	\$0	\$0
SUB TOTAL	\$0	\$0	\$348,602	\$288,452	\$247,615	\$851,670	\$1,441,777	\$1,208,384	\$1,959,235	\$1,504,940	\$0	\$0
V LABOR												\$820,518
VI CAPITAL												\$148,612
TOTAL GROUNDWATER RESTORATION COST												\$8,619,805
Credit for Completion of Groundwater Sweep (WDEQ)			\$26,091	\$21,204	\$18,302	\$65,321	\$126,997	\$0	\$0	\$0	\$0	\$257,915
Credit for Completion of Reverse Osmosis (WDEQ)												\$0
Credit Completion of Stabilization Monitoring (WDEQ)												\$0
Credit Subtotal			\$26,091	\$21,204	\$18,302	\$65,321	\$126,997	\$0	\$0	\$0	\$0	\$257,915
GRAND TOTAL WDEQ	\$0	\$0	\$322,511	\$267,248	\$229,312	\$786,349	\$1,314,780	\$1,208,384	\$1,959,235	\$1,504,940	\$0	\$8,561,890
GRAND TOTAL NRC (no credit)	\$0	\$0	\$348,602	\$288,452	\$247,615	\$851,670	\$1,441,777	\$1,208,384	\$1,959,235	\$1,504,940	\$0	\$8,819,805

Uranium One USA, Inc.
2014-2015 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 2

PLANT EQUIPMENT REMOVAL AND DISPOSAL	Irigaray							Christensen				
	Maint Area & Laboratory	Main Process Building	Expansion Building	Resin + Sand Filter Media	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Resin + Sand Filter Media	Restoration Extension	Wellfield Modules	Sub Total
Volume (Yds³)	40	0	188	110	40	0		116	215.6	42	97.5	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	
Number of Truck Loads	2.0	0.0	9.4	5.5	2.0	0.0		5.8	10.8	2.1	4.9	
I Decontamination Cost												
Decontamination Cost (\$/Load)	\$435	\$435	\$435	\$435	\$435	\$435		\$435	\$435	\$435	\$435	
Percent Requiring Decontamination	20.0%	100.0%	100.0%	0.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	
Total Cost	\$174	\$0	\$4,089	\$0	\$870	\$0	\$5,133	\$2,523	\$0	\$914	\$2,121	\$5,557
II Dismantle and Loading Cost												
Cost Per Truck Load (\$)	\$650	\$650	\$650	\$650	\$650	\$650		\$650	\$650	\$650	\$650	
Total Cost	\$1,300	\$0	\$6,110	\$3,575	\$1,300	\$0	\$12,285	\$3,770	\$7,007	\$1,365	\$3,169	\$15,311
III Oversize Charges												
Percent Requiring Permits	40.0%	40.0%	40.0%	0.0%	60.0%	40.0%		40.0%	0.0%	40.0%	0.0%	
Cost Per Truck Load (\$)	\$326	\$326	\$326	\$326	\$326	\$326		\$326	\$326	\$326	\$326	
Total Cost	\$261	\$0	\$1,226	\$0	\$391	\$0	\$1,878	\$756	\$0	\$274	\$0	\$1,030
IV Transportation & Disposal												
A. Landfill												
Percent To Be Shipped	80.0%	80.0%	80.0%	0.0%	50.0%	80.0%		80.0%	0.0%	80.0%	80.0%	
Transportation Cost Per Truck Load	\$483	\$483	\$483	\$483	\$483	\$483		\$483	\$483	\$483	\$483	
Transportation Cost	\$773	\$0	\$3,632	\$0	\$483	\$0		\$2,241	\$0	\$811	\$1,884	
Disposal Fee Per Ton (1 yd³ = 1 ton)	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50		\$58.50	\$58.50	\$58.50	\$58.50	
Disposal Cost (\$)	\$1,872	\$0	\$8,798	\$0	\$1,170	\$0		\$5,429	\$0	\$1,966	\$4,563	
Total Cost	\$2,645	\$0	\$12,431	\$0	\$1,653	\$0		\$7,670	\$0	\$2,777	\$6,447	
B. Licensed Site												
Percent To Be Shipped	20.0%	20.0%	20.0%	100.0%	50.0%	20.0%		20.0%	100.0%	20.0%	20.0%	
Transportation Cost Per Truck Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost	\$840	\$0	\$3,948	\$11,550	\$2,100	\$0		\$2,436	\$22,638	\$882	\$2,048	
Disposal Cost Per Cubic Foot (\$)	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00		\$11.00	\$11.00	\$11.00	\$11.00	
Quantity Per Truck Load (Yds³)	20.0	20.0	20.0	20.0	20.0	20.0		20.0	20.0	20.0	20.0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540		540	540	540	540	
Disposal Cost	\$2,376	\$0	\$11,167	\$32,670	\$5,940	\$0		\$6,890	\$64,033	\$2,495	\$5,792	
Total Cost Licensed Site	\$3,216	\$0	\$15,115	\$44,220	\$8,040	\$0		\$9,326	\$86,671	\$3,377	\$7,839	
Total Cost Transportation & Disposal	\$5,861	\$0	\$27,546	\$44,220	\$9,693	\$0	\$87,320	\$16,996	\$86,671	\$6,154	\$14,286	\$124,107
TOTAL COST	\$7,596	\$0	\$38,971	\$47,795	\$12,254	\$0	\$106,615	\$24,046	\$93,678	\$8,706	\$19,575	\$146,005
TOTAL COST - IRIGARAY AND CHRISTENSEN												\$252,620

	Irigaray						Christensen							
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Sub Total
BUILDING DEMOLITION AND DISPOSAL														
Structural Character	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	1 Story Steel Frame	3 Story Steel/Masonry	1 Story Steel Frame		2 Story Steel Frame	1 Story Pre Fab (37)	1 Story Pre Fab (5)	2 Story Steel Frame	1 Story Pre-Fab	1 Story Steel Frame	
Demolition Volume (Ft³)	179400	108720	430400	386400	126000	69640		192000	168480	79320	104800	64800	11000	
Cost of Demolition Per Ft³	\$0.2870	\$0.2870	\$0.2870	\$0.2870	\$0.2870	\$0.2870		\$0.2870	\$0.2870	\$0.2870	\$0.2870	\$0.2870	\$0.2870	
Demolition Cost (\$)	\$51,488	\$31,203	\$123,525	\$110,897	\$36,162	\$19,987	\$373,261	\$55,104	\$48,354	\$21,789	\$30,078	\$18,598	\$3,157	\$177,079
Factor For Gutting	15.0%	10.0%	30.0%	10.0%	20.0%	10.0%		20.0%	0.0%	0.0%	20.0%	10.0%	10.0%	
Cost For Gutting (\$)	\$7,723	\$3,120	\$37,057	\$11,090	\$7,232	\$1,999	\$68,222	\$11,021	\$0	\$0	\$6,016	\$1,860	\$316	\$19,212
Weight (pounds)	158761	96212	380885	341947	111504	61628		169912	66660	28032	63717	38802	9735	
Weight per Truckload (Tons)	20	20	20	20	20	20		20	20	20	20	20	20	
Number of Truckloads	4.0	2.4	9.5	8.5	2.8	1.5		4.2	1.7	0.7	1.6	1.0	0.2	
Distance to Landfill	115	115	115	115	115	115		115	115	115	115	115	115	
Unit Cost (Ton/Mile)	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21		\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	\$0.21	
Transportation Cost per Truckload	\$483	\$483	\$483	\$483	\$483	\$483		\$483	\$483	\$483	\$483	\$483	\$483	
Transportation Cost (\$)	\$1,917	\$1,162	\$4,599	\$4,129	\$1,346	\$744	\$13,898	\$2,052	\$805	\$338	\$769	\$469	\$118	\$4,551
Disposal Cost per Truckload	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00		\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	\$1,170.00	
Disposal Cost (\$)	\$4,644	\$2,814	\$11,141	\$10,002	\$3,261	\$1,803	\$33,665	\$4,970	\$1,950	\$820	\$1,864	\$1,135	\$285	\$11,023
TOTAL COST	\$65,772	\$38,299	\$176,322	\$136,117	\$48,002	\$24,532	\$489,045	\$73,146	\$51,108	\$22,947	\$38,726	\$22,061	\$3,875	\$700,909
TOTAL COST IRIGARAY AND CHRISTENSEN														

CONCRETE DECONTAMINATION, DEMOLITION & DISPOSAL

Area (Ft²)	8020	7100	17600	18400	5600	3600		9600	0	1800	5240	0	1000	
Average Thickness (Ft)	0.5	0.5	0.5	0.5	1	0.5		0.5	0.0	0.5	0.5	0.0	0.5	
Volume (Ft³)	4010	3550	8800	9200	5600	1800		4800	0	900	2620	0	500	
Percent Requiring Decontamination	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Percent Decontaminated	0.0%	0.0%	75.0%	75.0%	40.0%	75.0%		75.0%	0.0%	100.0%	100.0%	0.0%	0.0%	
Decontamination (\$/Ft²)	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134		\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	\$0.134	
Decontamination Cost	\$0	\$0	\$1,769	\$1,849	\$300	\$362	\$4,280	\$965	\$0	\$241	\$702	\$0	\$0	\$1,908
Demolition (\$/Ft²)	\$5.48	\$5.48	\$5.48	\$5.48	\$5.48	\$5.48		\$5.48	\$5.48	\$5.48	\$5.48	\$5.48	\$5.48	
Demolition Cost	\$43,950	\$38,908	\$96,448	\$100,832	\$30,688	\$19,728	\$330,554	\$52,608	\$0	\$9,864	\$28,715	\$0	\$5,480	\$96,667
Transportation & Disposal														
A. Onsite Disposal														
Percent to be Disposed Onsite	100%	100%	90%	90%	40%	90%		90%	0%	100%	100%	0%	100%	
Transportation Cost	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$0	
Disposal Cost per Cubic Foot	\$0.310	\$0.310	\$0.310	\$0.310	\$0.310	\$0.310		\$0.310	\$0.310	\$0.310	\$0.310	\$0.310	\$0.310	
Disposal Cost (\$)	\$1,243	\$1,101	\$2,455	\$2,567	\$694	\$502	\$8,562	\$1,339	\$0	\$279	\$812	\$0	\$155	\$2,585
B. Licensed Site														
Percent to be Shipped	0%	0%	10%	10%	60%	10%		10%	100%	0%	0%	100%	0%	
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$0	\$3,422	\$3,578	\$13,067	\$700	\$20,767	\$1,867	\$0	\$0	\$0	\$0	\$0	\$1,867
Disposal Cost per Cubic Foot	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20		20	20	20	20	20	20	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$3,259	\$3,407	\$12,444	\$667	\$19,778	\$1,778	\$0	\$0	\$0	\$0	\$0	\$1,778
TOTAL COST	\$45,193	\$40,009	\$107,353	\$112,233	\$57,194	\$21,959	\$383,940	\$58,556	\$0	\$10,384	\$30,230	\$0	\$5,635	\$104,805
TOTAL COST IRIGARAY AND CHRISTENSEN														

SOIL REMOVAL & DISPOSAL

Assume removal of 3" of Contaminated Soil under Primary Areas, Disposal at a Licensed facility.														
Removal with Loader (\$116/hr)	\$116	\$0	\$1,894	\$1,980	\$603	\$387	\$4,864	\$1,033	\$0	\$0	\$564	\$0	\$0	\$1,597
Quantity to be Shipped (Ft³)	0	0	4400	4600	1400	900		2400	0	0	1310	0	0	
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$0	\$17,111	\$17,889	\$5,444	\$3,500	\$43,944	\$9,333	\$0	\$0	\$5,094	\$0	\$0	\$14,428
Disposal fee Per Cubic Foot (\$)	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Quantity per Truckload (Ft³)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$16,296	\$17,037	\$5,185	\$3,333	\$41,852	\$8,889	\$0	\$0	\$4,852	\$0	\$0	\$13,741
Removal, NPDES Pts.														
Quantity to be Shipped (Ft³)			559					5,030						
Transportation Cost per Truckload	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	

Uranium One USA, Inc.
2014-2015 Restoration and Reclamation Costs
Wyoming Operations
WORKSHEET 3

	Irigaray							Christensen						
	Maint Area & Laboratory	Warehouse & Offices	Main Process Building	Expansion Building	Dry Pack Area	Restoration Building	Sub Total	Satellite Plant	Wellfield Modules	Booster Pump Bldgs.	Restoration Extension	Office Building	Warehouse	Sub Total
Transportation Cost (\$)	\$0	\$0	\$2,174	\$0	\$0	\$0	\$2,174	\$19,562	\$0	\$0	\$0	\$0	\$0	\$19,562
Guideline Disposal fee Per Cubic Foot(\$)	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Quantity per Truckload (FT³)	540	540	540	540	540	540		540	540	540	540	540	540	
Disposal Cost (\$)	\$0	\$0	\$2,070	\$0	\$0	\$0	\$2,070	\$18,630	\$0	\$0	\$0	\$0	\$0	\$18,630
Total Cost	\$0	\$0	\$39,545	\$36,906	\$11,232	\$7,221	\$94,904	\$57,447	\$0	\$0	\$10,510	\$0	\$0	\$67,957
TOTAL COST	\$0	\$0	\$39,545	\$36,906	\$11,232	\$7,221	\$94,904	\$57,447	\$0	\$0	\$10,510	\$0	\$0	\$67,957
TOTAL COST IRIGARAY AND CHRISTENSEN														\$162,861

RADIATION SURVEY														
Area required (acres)	0.18	0.16	0.40	0.42	0.13	0.08		0.22	0.00	0.04	0.12	0.00	0.02	
Survey Cost (\$/acre)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00		\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
TOTAL SURVEY COST (\$)	\$96		\$210	\$220	\$67	\$43	\$636	\$115	\$0	\$21	\$63	\$0	\$12	\$211

TOTAL COST	\$111,060	\$78,307	\$323,431	\$285,477	\$116,495	\$53,755	\$968,525	\$189,265	\$51,108	\$33,353	\$79,529	\$22,061	\$9,522	\$384,838
TOTAL COST IRIGARAY AND CHRISTENSEN														\$1,353,362

POND RECLAMATION COST	Irigaray						Christensen					
	Pond A	Pond B	Pond C	Pond D	Pond E	Pond RA	Pond RB	Brine Pond 1	Brine Pond 2	Brine Pond 3	Brine Pond 4	Permeate Pond
POND SLUDGE:												
Average Sludge Depth (Ft)		0.156		0.156		0.156	0.156	0.166	0.222	0.143	0.068	0.000
Average Area of Sludge (Ft²)		50,604		50,604		64,299	64,299	20,909	20,909	20,909	20,909	-
Volume of Sludge (Ft³)		7,907		7,907		10,047	10,047	3,466	4,651	2,983	1,414	-
Volume of Sludge (Yds³)		293		293		372	372	128	172	110	52	0
Volume of Sludge Per Truck Load (Yds³)		20.0		20.0		20.0	20.0	20.0	20.0	20.0	20.0	20.0
# of Truck Loads of Sludge		14.7		14.7		18.6	18.6	6.4	8.6	5.5	2.6	0.0
Sludge Handling Cost Per Load (\$)		\$240.00		\$240.00		\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00
Total Sludge Handling Cost (\$)	\$0	\$3,528	\$0	\$3,528	\$0	\$4,464	\$4,464	\$1,536	\$2,064	\$1,320	\$624	\$0
Transportation & Disposal												
Percent To Be Shipped to Licensed Site		100.0%		100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Transportation Cost per Truckload		\$2,100		\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Transportation Cost (\$)		\$30,870		\$30,870		\$39,080	\$39,080	\$13,440	\$18,060	\$11,550	\$5,460	\$0
Disposal Cost Per Cubic Foot (\$)		\$11.00		\$11.00		\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00
Quantity Per Truck Load (Yds³)		20.0		20.0		20.0	20.0	20.0	20.0	20.0	20.0	20.0
Quantity Per Truck Load (Ft³)		540		540		540	540	540	540	540	540	540
Disposal Cost (\$)		\$87,318		\$87,318		\$110,484	\$110,484	\$38,016	\$51,084	\$32,670	\$15,444	\$0
Total Transportation & Disposal (\$)	\$0	\$118,188	\$0	\$118,188	\$0	\$149,564	\$149,564	\$51,456	\$69,144	\$44,220	\$20,904	\$0
TOTAL SLUDGE COST (\$)	\$0	\$121,716	\$0	\$121,716	\$0	\$154,008	\$154,008	\$52,992	\$71,208	\$45,540	\$21,528	\$0
POND LINER:												
Total Pond Area (Acres)		1.72		1.72		2.17	2.17	1.10	1.10	1.10	1.10	0.00
Total Pond Area (Ft²)		74923.2		74923.2		94525.2	94525.2	47916	47916	47916	47916	0
Factor For Sloping Sides		20.0%		20.0%		20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	0.0%
Total Liner Area (Ft²)		89908		89908		113430	113430	68660	68660	57499	57499	0
Liner Thickness (Mil)		30		180		180	30	180	30	30	30	0
Liner Thickness (Inches)		0.0300		0.1800		0.1800	0.0300	0.1800	0.0300	0.0300	0.0300	0
Liner Thickness (Ft)		0.0025		0.0150		0.0150	0.0025	0.0150	0.0025	0.0025	0.0025	0
"Swell" Factor		25.0%		25.0%		25.0%	25.0%	25.0%	25.0%	25.0%	25.0%	0.0%
Liner Volume (Ft³)		281		1686		2127	354	1287	180	180	180	0
Truck Loads of Liner		0.5		3.1		3.9	0.7	2.4	0.3	0.3	0.3	0.0
Liner Handling Cost (\$)												
Labor Crew Cost per Hour (\$)		\$161		\$161		\$161	\$161	\$161	\$161	\$161	\$161	\$0
Hours per Load		2.0		2.0		2.0	2.0	2.0	2.0	2.0	2.0	0.0
Liner Handling Cost Per Load (\$)		\$322.44		\$322.44		\$322.44	\$322.44	\$322.44	\$322.44	\$322.44	\$322.44	\$0.00
Total Liner Handling Cost (\$)	\$0	\$161	\$0	\$1,000	\$0	\$1,258	\$226	\$774	\$97	\$97	\$97	\$0
Transportation & Disposal												
Percent To Be Shipped to Licensed Site		100.0%		100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Transportation Cost per Truckload		\$2,100		\$2,100		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100
Transportation Cost (\$)		\$1,050		\$6,510		\$8,190	\$1,470	\$5,040	\$830	\$830	\$830	\$0
Disposal Cost Per Cubic Foot (\$)		\$11.00		\$11.00		\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00
Quantity Per Truck Load (Ft³)		540		540		540	540	540	540	540	540	540
Disposal Cost (\$)		\$2,970		\$18,414		\$23,166	\$4,158	\$14,256	\$1,782	\$1,782	\$1,782	\$0
Total Transportation & Disposal (\$)	\$0	\$4,020	\$0	\$24,924	\$0	\$31,356	\$5,628	\$19,296	\$2,412	\$2,412	\$2,412	\$0
TOTAL LINER COST (\$)	\$0	\$4,181	\$0	\$25,924	\$0	\$32,614	\$5,854	\$20,070	\$2,509	\$2,509	\$2,509	\$0
POND BACKFILL:												
Backfill required (Yds³)	8740	8580	8740	8580	2517	14617	16319	9048	9048	9048	9048	18070
Backfill Cost (\$/Yd³)	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99
TOTAL BACKFILL COST (\$)	\$8,653	\$8,494	\$8,653	\$8,494	\$2,492	\$14,471	\$16,156	\$8,958	\$8,958	\$8,958	\$8,958	\$17,889
RADIATION SURVEY												
Areal required (acres)	0.00	1.72	0.00	1.72	2.90	2.17	1.10	1.10	1.10	1.10	1.10	0
Survey Cost (\$/acre)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00
TOTAL SURVEY COST (\$)	\$0	\$894	\$0	\$894	\$0	\$1,108	\$1,128	\$572	\$572	\$572	\$572	\$0
LEAK DETECTION SYSTEM REMOVAL												
Volume of Gravel and Piping (Ft³) (Assume 3")								5,500	5,500			
Quantity per Truckload (Ft³)								540	540			
Quantity to be Shipped to Licensed Site (Loads)								10	10			
Transportation Cost per Truckload								\$2,100	\$2,100			
Transportation Cost (\$)								\$20,000	\$20,000			
Total Handling Cost per load								\$3,135	\$3,135			
Disposal Fee per Cubic Foot (\$)								\$11	\$11			
Disposal Cost (\$)								\$57,750	\$57,750			
TOTAL LEAK DETECTION SYSTEM REMOVAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80,885	\$80,885	\$0	\$0	\$0
TOTAL POND RECLAMATION COST	\$8,653	\$135,285	\$8,653	\$157,028	\$2,492	\$202,601	\$177,146	\$163,477	\$164,132	\$57,579	\$33,567	\$17,889
Guideline 12 costs were updated using Oct. 2013 version.												

SUMMARY - IRIGARAY:

TOTAL SLUDGE COST (\$)
TOTAL LINER COST (\$)
TOTAL BACKFILL COST (\$)
TOTAL RADIATION SURVEY COST (\$)
LEAK DETECTION SYSTEM REMOVAL
TOTAL POND RECLAMATION COST

\$551,448
\$68,573
\$67,413
\$4,424
\$0
\$691,858

SUMMARY - CHRISTENSEN:

TOTAL SLUDGE COST (\$)
TOTAL LINER COST (\$)
TOTAL BACKFILL COST (\$)
TOTAL RADIATION SURVEY COST (\$)
LEAK DETECTION SYSTEM REMOVAL
TOTAL POND RECLAMATION COST

\$191,268
\$27,597
\$53,721
\$2,288
\$161,770
\$436,644

TOTAL PROJECT COST - CR and IR (\$)

\$1,128,502

Uranium One USA, Inc.
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WELL PLUGGING AND ABANDONMENT	Irigaray				Christensen										
	Mine Units	517 USMT	Monitor/	Sub Total	Mine Units										
	#1 Thru #9	Test Sites	Trend		#2	#3	#4	#5	#6	#7	#8	#10	#11	Sub Total	
Number of Wells	0	11		11											
Production / Injection Wells (Inclusive of					286	443	211	322	380	556	780	566	6	2978	
Misc. Baseline / Regional Wells)					50	47	33	72	64	66	76	72	0	408	
Monitor Wells (Shallow, Deep, Perimeter)					336	490	244	394	444	622	856	638	6	4030	
Total					345	300	430	450	520	550	375	500	500		
Average Depth	250	250	250		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
Average Diameter	4.5	4.5	4.5		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5		
Materials															
Bentonite Chips Required (Ft ³ /Well)	11.4	11.4	11.4		11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4		
Bags of Chips Required/Well	15.0	15.0	15.0		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0		
Cost Per Bag (\$)	\$4.70	\$4.70	\$4.70		\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70		
Cost/Well Bentonite Chips (\$)	\$70.50	\$70.50	\$70.50		\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50	\$70.50		
Gravel Fill Required (Ft ³ /Well)	15.7	15.7	15.7		26.5	21.5	35.9	38.1	45.8	49.1	24.9	25.9	26.9		
Gravel Fill Required (Yd ³ /Well)	0.58	0.58	0.58		0.98	0.80	1.33	1.41	1.70	1.82	0.92	0.96	1.00		
Cost of Gravel/Yd ³ (\$)	\$20.00	\$20.00	\$20.00		\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$21.00	\$22.00		
Cost/Well Gravel Fill (\$)	\$11.63	\$11.63	\$11.63		\$19.63	\$15.93	\$26.59	\$28.22	\$33.93	\$36.37	\$18.44	\$20.14	\$21.92		
Cement Cone/Markers Req'd/Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0		
Cost of Cement Cones/Markers (\$)	\$10.00	\$10.00	\$10.00		\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00		
Total Materials Cost per Well	\$92.13	\$92.13	\$92.13		\$100.13	\$96.43	\$107.09	\$108.72	\$114.43	\$116.87	\$98.94	\$100.64	\$102.42		
Labor															
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0		
Labor Cost per Hour	\$45.00	\$45.00	\$45.00		\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00		
Total Labor Cost per Well (\$)	\$45.00	\$45.00	\$45.00		\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00	\$90.00	\$135.00		
Equipment Rental															
Hours Required per Well	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Backhoe w/Operator Cost/Hr (\$)	\$55.73	\$55.73	\$55.73		\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73		
Total Equipment Cost per Well (\$)	\$55.73	\$55.73	\$55.73		\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73	\$55.73		
Total Cost per Well (\$)	\$192.86	\$192.86	\$192.86		\$200.86	\$197.16	\$207.82	\$209.45	\$215.16	\$217.60	\$199.67	\$246.37	\$293.15		
\$72,485															
TOTAL WELL ABANDONMENT COST (\$)	\$0	\$2,121	\$0	\$2,121	\$67,489	\$96,606	\$50,709	\$82,524	\$95,529	\$135,347	\$170,921	\$157,187	\$1,759	\$858,072	
GRAND TOTAL IRIGARAY AND CHRISTENSEN														\$860,193	

Uranium One USA, Inc.
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WORKSHEET 6

WELLFIELD EQUIPMENT REMOVAL & DISPOSAL

	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Wellfield Piping									
A. Removal									
Length/Well (Ft)	100	300	300	300	500	800	800	800	
Total Number of Wells	602	940	322	380	556	780	568	6	
Total Quantity (Ft)	60200	282000	96600	114000	278000	624000	452800	4800	
Cost of Removal (\$/Ft)	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	\$0.202	
Cost of Removal (\$)	\$12,160	\$56,964	\$19,513	\$23,028	\$56,156	\$126,048	\$91,466	\$970	\$386,305
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft³/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft³)	963	4,512	1,546	1,824	4,448	9,984	7,245	77	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	1.8	8.4	2.9	3.4	8.2	18.5	13.4	0.1	
B. Survey & Decontamination									
Percent Requiring Decontamination	0%	0%	0%	0%	0%	0%	0%	0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Fee Per Yd³	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	1.8	8.4	2.9	3.4	8.2	18.5	13.4	0.1	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$3,780	\$17,640	\$6,090	\$7,140	\$17,220	\$38,850	\$28,140	\$210	\$119,070
b. Disposal									
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$10,692	\$49,896	\$17,226	\$20,196	\$48,708	\$109,890	\$79,596	\$594	\$336,798
Total Cost - Licensed Site	\$14,472	\$67,536	\$23,316	\$27,336	\$65,928	\$148,740	\$107,736	\$804	\$455,868
Total Cost - Transport & Disposal	\$14,472	\$67,536	\$23,316	\$27,336	\$65,928	\$148,740	\$107,736	\$804	\$455,868
Total Cost - WF Piping Removal & Disposal	\$26,632	\$124,500	\$42,829	\$50,364	\$122,084	\$274,788	\$199,202	\$1,774	\$842,173
II Production Well Pumps									
A. Pump and Tubing Removal									
Number of Production Wells	0	348	134	178	167	264	220	6	
Cost of Removal (\$/well)	\$58.06	\$58.06	\$58.06	\$58.06	\$58.06	\$58.06	\$58.06	\$58.06	
Cost of Removal (\$)	\$0	\$20,205	\$7,780	\$10,335	\$9,696	\$15,328	\$12,773	\$348	\$76,465
Number of Pumps Per Truck Load	180	180	180	180	180	180	180	180	
Number of Truck Loads (Pumps)	0.0	1.9	0.7	1.0	0.9	1.5	1.2	0.0	
B. Survey & Decontamination (Pumps)									
Percent Requiring Decontamination	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads for Decontamination	0.0	1.0	0.4	0.5	0.5	0.8	0.6	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$435	\$174	\$218	\$218	\$348	\$261	\$0	\$1,653
C. Tubing Volume Reduction & Loading									
Length per Well (Ft)	100	300	300	450	500	230	500	500	
Total Quantity (Ft)	0	104,400	40,200	80,100	83,500	60,720	110,000	3,000	
Cost of Removal (\$/Ft)	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	\$0.025	
Cost of Removal (\$)	\$0	\$2,610	\$1,005	\$2,003	\$2,088	\$1,518	\$2,750	\$75	\$12,048
Average OD (Inches)	3.0	3.0	3.0	3.0	1.0	1.0	1.0	1.0	
Chipped Volume Reduction (Ft³/Ft)	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	
Chipped Volume (Ft³)	0	1,670	643	1,282	1,336	972	1,760	48	

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	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL									
Quantity per Truckload (Ft³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	0.0	3.1	1.2	2.4	2.5	1.8	3.3	0.1	
D. Transport & Disposal									
Guideline 1.) Landfill									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Loads To Be Shipped	0.0	1.0	0.4	0.5	0.5	0.8	0.6	0.0	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	
Transportation Cost (\$)	\$0	\$1,170	\$468	\$585	\$585	\$936	\$702	\$0	\$4,446
b. Disposal									
Disposal Fee Per Yd³	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$1,170	\$468	\$585	\$585	\$936	\$702	\$0	\$4,446
Total Cost - Landfill	\$0	\$2,340	\$936	\$1,170	\$1,170	\$1,872	\$1,404	\$0	\$8,892
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped (Pumps)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	
Percent To Be Shipped (Tubing)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	4.0	1.5	2.9	2.9	2.5	3.9	0.1	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$8,491	\$3,236	\$6,034	\$6,141	\$5,353	\$8,104	\$187	\$37,546
b. Disposal									
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$24,017	\$9,154	\$17,068	\$17,369	\$15,142	\$22,924	\$528	\$106,202
Total Cost - Licensed Site	\$0	\$32,508	\$12,391	\$23,102	\$23,510	\$20,495	\$31,028	\$715	\$143,748
Total Cost - Transport & Disposal	\$0	\$34,848	\$13,327	\$24,272	\$24,680	\$22,367	\$32,432	\$715	\$152,640
Total Cost - Pump Removal & Disposal	\$0	\$58,098	\$22,286	\$36,826	\$36,681	\$39,561	\$48,217	\$1,138	\$242,806
III Surface Trunkline Piping									
A. Removal									
Total Quantity (Ft)	0	0	0	0	0	0	0	0	
Cost of Removal (\$/Ft)	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	\$0.146	
Cost of Removal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Average OD (Inches)	8.750	8.750	0.000	0.000	0.000	0.000	0.000	0.000	
Chipped Volume Reduction (Ft³/Ft)	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	
Chipped Volume (Ft³)	0	0	0	0	0	0	0	0	
Quantity Per Truck Load (Ft³)	540	540	540	540	540	540	540	540	
Total Number of Truck Loads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Fee Per Yd³	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	
Yds³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Cost Per Ft³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	

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	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
WELLFIELD EQUIPMENT REMOVAL & DISPOSAL									
Quantity Per Truck Load (Yds ³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Licensed Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Recirculation Phase \$0.863 per Kgal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Surface Trunkline Removal & Disposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
IV Buried Trunkline									
A. Removal									
Total Quantity (Ft)	0	11565	24500	47000	28500	49438	35836	0	
Cost of Removal (\$/Ft)	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	\$3.12	
Cost of Removal (\$)	\$0	\$36,083	\$76,440	\$146,640	\$88,920	\$154,240	\$111,184	\$0	\$613,507
Average OD (Inches)	8.750	8.750	8.750	12.000	12.000	12.000	14.000	14.000	
Chipped Volume Reduction (Ft ³ /Ft)	0.088	0.088	0.088	0.130	0.130	0.130	0.152	0.152	
Chipped Volume (Ft ³)	0	1018	2156	6110	3705	6426.68	5416.672	0	
Quantity Per Truck Load (Ft ³)	540	540	540	540	540	540	540	540	
Number of Truck Loads	0.0	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Fee Per Yd ³	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	
Yds ³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
Loads To Be Shipped	0.0	1.9	4.0	11.3	6.9	11.9	10.0	0.0	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$3,990	\$8,400	\$23,730	\$14,490	\$24,990	\$21,000	\$0	\$96,600
b. Disposal									
Disposal Cost Per Ft ³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd ³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds ³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$11,286	\$23,760	\$67,122	\$40,986	\$70,686	\$59,400	\$0	\$273,240
Total Cost - Licensed Site	\$0	\$15,276	\$32,160	\$90,852	\$55,476	\$95,676	\$80,400	\$0	\$369,840
Total Cost - Transport & Disposal	\$0	\$15,276	\$32,160	\$90,852	\$55,476	\$95,676	\$80,400	\$0	\$369,840
Total Cost - Buried Trunkline Removal & Disposal	\$0	\$51,359	\$108,600	\$237,492	\$144,396	\$249,916	\$191,584	\$0	\$983,347
V Manholes									
A. Removal									
Total Quantity	0	8	5	11	5	15	11	0	
Cost of Removal (\$ Each)	\$117.00	\$149.51	\$149.51	\$149.51	\$149.51	\$149.51	\$149.51	\$149.51	
Cost of Removal (\$)	\$0	\$1,196	\$748	\$1,645	\$748	\$2,243	\$1,645	\$0	\$8,223
Quantity Per Truck Load	10	10	10	10	10	10	10	10	
Number of Truck Loads	0.0	0.8	0.5	1.1	0.5	1.5	1.1	0.0	
B. Survey & Decontamination									
Percent Requiring Decontamination	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads for Decontamination	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Cost for Decontamination (\$/Load)	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	\$435.00	
Cost for Decontamination (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Transport & Disposal									
1.) Landfill									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	\$1,170	

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WELLFIELD EQUIPMENT REMOVAL & DISPOSAL	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Fee Per Yd ³ (\$)	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	\$58.50	
Yds ³ Per Load	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Landfill	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2.) Licensed Site									
a. Transportation									
Percent To Be Shipped	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
Loads To Be Shipped	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. Disposal									
Disposal Cost Per Ft ³	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	\$11.00	
Disposal Fee Per Yd ³	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	\$297.00	
Quantity Per Truck Load (Yds ³)	20	20	20	20	20	20	20	20	
Disposal Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Licensed Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost - Transport & Disposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Cost Manhole Removal & Disposal	\$0	\$1,196	\$748	\$1,645	\$748	\$2,243	\$1,645	\$0	\$8,223
TOTAL COST - WELLFIELD EQUIP REMOVAL & DISP	\$26,632	\$235,153	\$174,462	\$326,327	\$303,908	\$566,508	\$440,647	\$2,912	\$2,076,549

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	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
TOPSOIL REPLACEMENT & REVEGETATION									
I Process Plant and Office Building									
A. Topsoil Handling & Grading									
Affected Area (Acres)	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	8067	4033	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	
Topsoil Handling Cost (\$)	\$7,986	\$3,993	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	
Grading Cost (\$)	\$467	\$234	\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$8,453	\$4,227	\$0	\$0	\$0	\$0	\$0	\$0	\$12,680
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$2,600	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$3,900
C. Revegetation									
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation	\$3,015	\$1,508	\$0	\$0	\$0	\$0	\$0	\$0	\$4,523
Sub Total - Process Plant and Office Bldg.	\$14,068	\$7,034	\$0	\$0	\$0	\$0	\$0	\$0	\$21,102
II Ponds									
A. Topsoil Handling & Grading									
Affected Area (Acres)	20.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	
Average Affected Thickness (Ins)	12	12	0	0	0	0	0	0	
Topsoil Volume (Yds³)	32267	19360	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	
Topsoil Handling Cost (\$)	\$31,944	\$19,166	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	
Grading Cost (\$)	\$1,869	\$1,121	\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$33,813	\$20,288	\$0	\$0	\$0	\$0	\$0	\$0	\$54,100
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$10,400	\$6,240	\$0	\$0	\$0	\$0	\$0	\$0	\$16,640
C. Revegetation									
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation	\$12,061	\$7,236	\$0	\$0	\$0	\$0	\$0	\$0	\$19,297
Sub Total - Ponds	\$56,273	\$33,764	\$0	\$0	\$0	\$0	\$0	\$0	\$90,037
III Wellfields									
A. Topsoil Handling & Grading									
Affected Area (Acres)	40.0	55.0	30.0	50.0	35.0	40.0	35.0	0.0	
Average Affected Thickness (Ins)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
Topsoil Volume (Yds³)	18822	25881	14117	23528	16469	18822	16469	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	
Topsoil Handling Cost (\$)	\$18,634	\$25,622	\$13,976	\$23,293	\$16,305	\$18,634	\$16,305	\$0	
Unit Cost - Grading (\$/Ac)	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	
Grading Cost (\$)	\$3,737	\$5,139	\$2,803	\$4,672	\$3,270	\$3,737	\$3,270	\$0	
Sub Total - Topsoil	\$22,371	\$30,760	\$16,778	\$27,964	\$19,575	\$22,371	\$19,575	\$0	\$159,395
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$20,800	\$28,600	\$15,600	\$26,000	\$18,200	\$20,800	\$18,200	\$0	\$148,200
C. Spill Cleanup									
Affected Area (Acres)		0.036	0	0	0	0	0.10	0	
Affected Area (ft²)		1,568	0	0	0	0	4529	0	
Average Affected Thickness (ft)		0.25	0	0	0	0	0	0	
Affected Volume (ft³)		392	0	0	0	0	0	0	
Quantity per Truckload (ft³)		540	540	540	540	540	540	540	
Quantity to be Shipped (Loads)		0.7	0.0	0.0	0.0	0.0	0.0	0.0	
Transportation Cost per Load		\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	\$2,100	
Transportation Cost (\$)		\$1,524	\$0	\$0	\$0	\$0	\$0	\$0	
Handling Cost (\$240/load)		\$174	\$0	\$0	\$0	\$0	\$0	\$0	
Disposal Fee per Cubic Foot (\$)		\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	\$3.70	
Disposal Cost (\$)		\$1,452	\$0	\$0	\$0	\$0	\$0	\$0	

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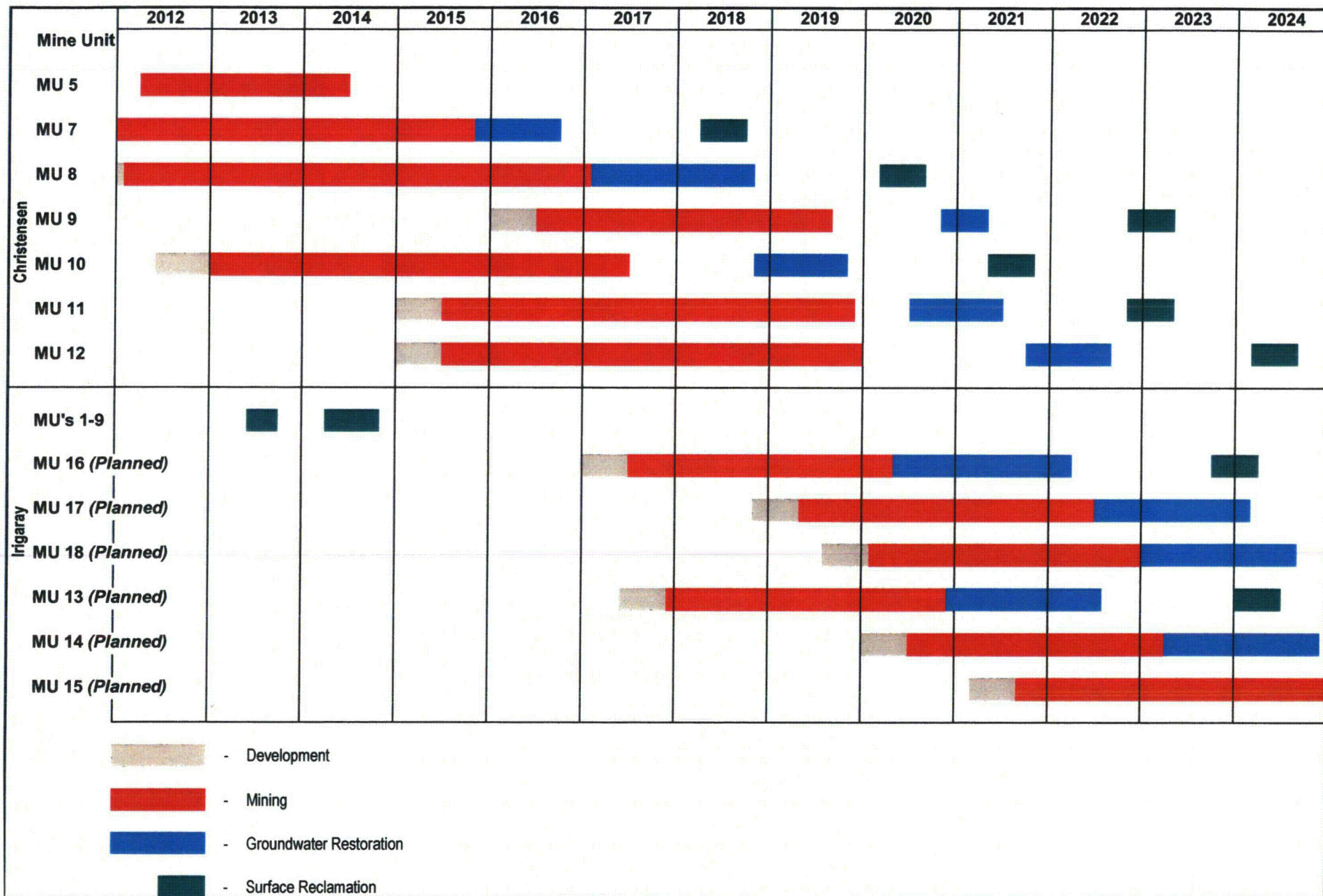
	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
TOPSOIL REPLACEMENT & REVEGETATION									
Sub Total - Spill Cleanup	\$0	\$3,151	\$0	\$0	\$0	\$0	\$0	\$0	\$3,151
D. Revegetation									
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Guideline Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation	\$24,121	\$33,167	\$18,091	\$30,152	\$21,106	\$24,121	\$21,106	\$0	\$171,864
Sub Total - Wellfields (\$)	\$67,292	\$95,678	\$50,469	\$84,116	\$58,881	\$67,292	\$58,881	\$0	\$482,609
IV Roads									
A. Topsoil Handling & Grading									
Affected Area (Acres)	25.0	20.0	15.0	21.0	12.0	15.0	10.0	0.0	
Average Affected Thickness (Ins)	12	12	12	12	12	12	12	12	
Topsoil Volume (Yds³)	40333	32267	24200	33880	19360	24200	16133	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	
Topsoil Handling Cost (\$)	\$39,930	\$31,944	\$23,958	\$33,541	\$19,166	\$23,958	\$15,972	\$0	
Unit Cost - Grading (\$/Ac)	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	
Grading Cost (\$)	\$2,336	\$1,869	\$1,401	\$1,962	\$1,121	\$1,401	\$934	\$0	
Sub Total - Topsoil	\$42,266	\$33,813	\$25,359	\$35,503	\$20,288	\$25,359	\$16,906	\$0	\$199,494
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$13,000	\$10,400	\$7,800	\$10,920	\$6,240	\$7,800	\$5,200	\$0	\$61,360
C. Revegetation									
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation	\$15,076	\$12,061	\$9,045	\$12,664	\$7,236	\$9,045	\$6,030	\$0	\$71,158
Sub Total - Roads (\$)	\$70,342	\$56,273	\$42,205	\$59,087	\$33,764	\$42,205	\$28,137	\$0	\$332,012
V Other									
A. Topsoil Handling & Grading									
Affected Area (Acres)	41.0	19.0	5.0	5.0	5.0	5.0	5.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0	0	0	0	0	0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	\$0.99	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	\$93.43	
Grading Cost (\$)	\$3,831	\$1,775	\$467	\$467	\$467	\$467	\$467	\$0	
Sub Total - Topsoil	\$3,831	\$1,775	\$467	\$467	\$467	\$467	\$467	\$0	\$7,942
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	\$520.00	
Sub Total - Survey & Analysis	\$21,320	\$9,880	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$0	\$44,200
C. Revegetation									
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	
Sub Total - Revegetation	\$24,724	\$11,458	\$3,015	\$3,015	\$3,015	\$3,015	\$3,015	\$0	\$51,258
Sub Total - Other	\$49,875	\$23,113	\$6,082	\$6,082	\$6,082	\$6,082	\$6,082	\$0	\$103,399
VI Remedial Action									
A. Topsoil Handling & Grading									
Affected Area (Acres)	65.5	54.3	25.0	38.0	26.0	30.0	25.0	0.0	
Average Affected Thickness (Ins)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Topsoil Volume (Yds³)	0	0	0	0	0	0	0	0	
Unit Cost - Haul/Place (\$/Yd³)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Topsoil Handling Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Unit Cost - Grading (\$/Ac)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Grading Cost (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Sub Total - Topsoil	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B. Radiation Survey & Soil Analysis									
Unit Cost (\$/Ac)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Sub Total - Survey & Analysis	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C. Revegetation									
Fertilizer (\$/Ac)	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	\$46.49	
Seeding Prep & Seeding (\$/Ac)	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	\$280.00	
Mulching & Crimping (\$/Ac)	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	\$276.54	
Sub Total Cost/Acre	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	\$603.03	

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	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
TOPSOIL REPLACEMENT & REVEGETATION									
Sub Total - Revegetation	\$39,498	\$32,714	\$15,076	\$22,915	\$15,679	\$18,091	\$15,076	\$0	\$159,049
Sub Total - Remedial Action	\$39,498	\$32,714	\$15,076	\$22,915	\$15,679	\$18,091	\$15,076	\$0	\$159,049
TOTAL COST - TOPSOIL & REVEGETATION	\$297,349	\$248,576	\$113,832	\$172,200	\$114,406	\$133,671	\$108,176	\$0	\$1,188,209

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Wyoming Operations
WORKSHEET 8

MISCELLANEOUS RECLAMATION	Irigaray Mine Unit(s) #1 Thru #9	Christensen Mine Units #2 Thru #4	Christensen Mine Unit #5	Christensen Mine Unit #6	Christensen Mine Unit #7	Christensen Mine Unit #8	Christensen Mine Unit #10	Christensen Mine Unit #11	Total Christensen & Irigaray
I Fence Removal & Disposal									
Quantity (Feet)	15240	35260	20000	9000	18000	19300	19548	0	
Cost of Removal/Disposal (\$/Ft)	\$0.39	\$0.39	\$0.39	\$0.39	\$0.39	\$0.39	\$0.39	\$0.39	
Cost of Removal/Disposal (\$)	\$5,944	\$13,751	\$7,800	\$3,510	\$7,020	\$7,527	\$7,624	\$0	\$53,176
II Powerline Removal & Disposal									
Quantity (Feet)	9450	10565	18000	18000	5500	21990	13138	0	
Cost of Removal/Disposal (\$/Ft)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
III Powerpole Removal & Disposal									
Quantity	25	30	60	60	19	74	44	0	
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
IV Transformer Removal & Disposal									
Quantity	0	1	0	0	18	27	18	0	
Cost of Removal/Disposal (\$/Each)	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$0	\$0	\$0	
Cost of Removal/Disposal (\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
V Booster Pump Assembly Removal & Disposal									
Quantity	0	6	5	5	12	16	12	0	
Cost of Removal/Disposal (\$/Each)	\$248	\$248	\$248	\$248	\$248	\$248	\$248	\$248	
Cost of Removal/Disposal (\$)	\$0	\$1,488	\$1,240	\$1,240	\$2,976	\$3,968	\$2,976	\$0	\$13,888
VI Culvert Removal & Disposal									
Quantity (Feet)	150	1200	1000	1000	500	20	20	0	
Cost of Removal/Disposal (\$/Ft)	\$6.96	\$6.96	\$6.96	\$6.96	\$6.96	\$6.96	\$6.96	\$6.96	
Cost of Removal/Disposal (\$)	\$1,043	\$8,347	\$6,956	\$6,956	\$3,478	\$139	\$139	\$0	\$27,059
VII Guardrail Removal									
Quantity (Feet)	200	3000	0	0	0	0	0	0	
Cost of Removal/Disposal (\$/Ft)	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	\$6.44	
Cost of Removal/Disposal (\$)	\$1,288	\$19,320	\$0	\$0	\$0	\$0	\$0	\$0	\$20,608
VIII Low Water Stream Crossing									
Quantity	0	1	1	0	0	0	0	0	
Cost of Removal/Disposal (\$/Each)	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	\$4,500	
Cost of Removal/Disposal (\$)	\$0	\$4,500	\$4,500	\$0	\$0	\$0	\$0	\$0	\$9,000
IX Utilities Cost									
Quantity (Mos)	0	8	4	4	4	4	4	0	
Power (\$/Month)	\$65	\$65	\$65	\$65	\$65	\$65	\$65	\$65	
Telephone (\$/Month)	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	
Total Cost (\$)	\$0	\$4,520	\$2,260	\$2,260	\$2,260	\$2,260	\$2,260	\$0	\$15,820
TOTAL MISCELLANEOUS COST	\$8,275	\$51,927	\$22,756	\$13,966	\$15,734	\$13,894	\$12,999	\$0	\$139,551



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