



Environmental Protection Division
 Environmental Compliance Programs (ENV-CP)
 PO Box 1663, K490
 Los Alamos, New Mexico 87545
 505-667-0666

National Nuclear Security Administration
 Los Alamos Field Office, A316
 3747 West Jemez Road
 Los Alamos, New Mexico, 87545
 (505) 667-5794/FAX (505) 667-5948

Date: **JUL 25 2013**
Symbol: ENV-DO-13-0090
LAUR: 13-25351

Mr. Jerry Schoeppner, Chief
 Ground Water Quality Bureau
 New Mexico Environment Department
 Harold Runnels Building, Room N2250
 1190 St. Francis Drive
 P.O. Box 26110
 Santa Fe, NM 87502

RECEIVED
JUL 29 2013
 NMED
 Hazardous Waste Bureau

Dear Mr. Schoeppner:

SUBJECT: DISCHARGE PERMIT DP-857 QUARTERLY REPORT, SECOND QUARTER 2013, TA-46 SANITARY WASTEWATER SYSTEMS PLANT

This letter and enclosures from the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) are the second quarter 2013 Discharge Permit DP-857 report for the Technical Area (TA)-46 Sanitary Wastewater Systems (SWWS) Plant. Quarterly reports are submitted to the New Mexico Environment Department (NMED), Ground Water Quality Bureau, in accordance with the reporting requirements of the January 7, 1998, renewal letter for Discharge Permit DP-857.

Table 1.0 provides water quality data from sampling conducted at the TA-46 SWWS Plant's reuse wet well and National Pollutant Discharge Elimination System (NPDES) Outfalls 001 and 03A027. No sample was collected from Cañada del Buey Observation Well (CDBO)-6 during the second quarter of 2013 because there was insufficient water in the well. The water level at CDBO-6 is measured each quarter and a sample is collected whenever sufficient water is present. All sample results presented in Table 1.0 are less than the New Mexico Water Quality Control Commission Regulation 3103 standards for groundwater. Analytical results for chloride were not available at the time this report was prepared and will be submitted in the third quarter 2013 report. Enclosure 1 presents copies of the analytical reports submitted to DOE/LANS by GEL Laboratories LLC.

Table 2.0 reports that the water level in CDBO-6 for the second quarter of 2013 was below the top of the pump.



Table 3.0 reports discharge volumes from the SWWS Plant's force main to TA-3, the Power Plant's NPDES Outfall 001, and the Super Computing Complex (SCC) NPDES Outfall 03A027. In addition, Table 3.0 reports the volume of SWWS Plant reuse water used by the SCC cooling towers during the second quarter of 2013.

Table 4.0 and Enclosure 2 present the results from monthly inspections of the leak collection ports at the SERF evaporation basins located on Sigma Mesa for the second quarter of 2013. All leak collection ports were dry except for the northeast evaporation basin. The location of leak in the northeast basin's primary liner is unknown. A leak in the primary liner is not indicative of a leak to the environment; all SERF evaporation basins were constructed with primary and secondary liners. The presence of water in northeast basin's leak collection ports demonstrates that the secondary liner is functioning as intended. In August 2013 the northeast basin will be drained and the leak repaired. DOE/LANS will provide the NMED with a status report on this corrective action in the third quarter DP-857 quarterly report.

In a March 21, 2013, letter (ENV-RCRA-13-0061) DOE/LANS provided the NMED with additional information on the corrective action plan to repair leaks in the southwest and southeast evaporation basins. On April 18, 2013, a subcontractor to DOE/LANS completed the following work:

1. Twenty-four (24) small to large patches were welded to the southwest evaporation basin's primary liner.
2. The overflow pipe between the southwest basin and southeast basin was removed and the resulting hole in the primary liner patched. The overflow pipe boots in the southwest and southeast basins were identified as reoccurring leak points; heaving ice during the winter freeze would lift the pipe and break the seal between pipe boot and primary liner. Removing the overflow pipe altogether was identified as the best option.

In conclusion, as evidenced by the second quarter inspection results, three of the four SERF evaporation basins are leak-free. As discussed previously, the southeast basin will be drained and repaired in August 2013.

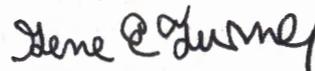
Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at bbeers@lanl.gov if you have questions regarding this quarterly report.

Sincerely,



Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security, LLC

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Field Office
Department of Energy

AMD:GET:RSB/lm

Enclosures:

1. GEL Laboratories LLC Certificate of Analysis Reports
2. Monthly inspection photographs of the SERF evaporation basins

Cy: James Hogan, NMED/SWQB, Santa Fe, NM, w/enc.
John E. Kieling, NMED/HWB, Santa Fe, NM, w/enc.
Steven M. Yanicak, NMED/DOE/OB, w/enc., (E-File)
Hai Shen, NA-OO-LA, w/enc., (E-File)
Gene E. Turner, NA-OO-LA, w/enc., (E-File)
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, ADESH, w/o enc., (E-File)
Alison M. Dorries, ENV-DO, w/o enc., (E-File)
Andrew W. Erickson, UI-DO, w/o enc., (E-File)
Lawrence V. Chavez, UI-OPS, w/enc., (E-File)
Pablo F. C De Vaca, UI-OPS, w/enc., (E-File)
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locatesteam@lanl.gov, w/enc., (E-File)
ENV-CP Correspondence File, w/enc., K490

Discharge Permit DP-857 Quarterly Report
2nd Quarter, 2013

Table 1.0 Water Quality Data: SWWS Plant Reuse Water, NPDES Outfalls 001 and 03A027, and CDBO-6. 2nd Quarter, 2013.

Sampling Location	Field Prep	Sample Date	Sample ID No.	TDS (mg/L)	Chloride (mg/L)	NO3+NO2-N (mg/L)	TKN (mg/L)	NH3-N (mg/L)
SWWS Plant								
SWWS Plant Reuse Wet Well ¹	UF ²	5/23/2013	SWWS46-13-33499	414	Pending ⁶	0.16	0.94	0.43
SWWS Plant Reuse Wet Well ¹	UF	5/23/2013	SWWS46-13-33505	393	Pending ⁶	0.16	0.95	0.44
Sandia Canyon								
NPDES Outfall 001	UF	5/23/2013	SWWS46-13-33497	237	Pending ⁶	0.21	0.39	0.23
NPDES Outfall 001	UF	5/23/2013	SWWS46-13-33503	247	Pending ⁶	0.20	0.33	0.24
NPDES Outfall 03A027	UF	5/23/2013	SWWS46-13-33498	580	Pending ⁶	0.60	1.7	0.44
NPDES Outfall 03A027	UF	5/23/2013	SWWS46-13-33504	597	Pending ⁶	0.6	1.7	0.44
Canada del Buey								
CDBO-6		Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵	Dry ⁵
NM WQCC Regulation 3103 Groundwater Standards (mg/L)				1000	250	10 ³	NA	NA

Notes:

¹Water in the reuse wet well is representative of water in the reuse pond.

²UF means a non-filtered sample, F means a filtered sample.

³The NM WQCC Regulation 3103 Groundwater Standard is for NO₃-N.

⁴No Sample means that no sample was collected during the quarter.

⁵Dry means that there was insufficient water in the well for sampling.

⁶Pending means that no results were available for this analyte at the time the report was prepared.

NA means that there is no NM WQCC Regulation 3103 groundwater standard for this analyte.

Discharge Permit DP-857 Quarterly Report
2nd Quarter, 2013

Table 2.0. Water Level in Cañada del Buey Observation Well (CDBO)-6, 1st Quarter 2013

Location	Date	Water Level† (ft)
CDBO-6	4/26/13	Below top of pump

Notes:

† Measured in feet from the top of the well casing to the surface of the water.

Table 3.0. Discharge Volumes from the TA-46 SWWS Plant, NPDES Outfalls 001 and 03A027, and Reuse Water to the SCC Cooling Towers (in millions of gallons).

Month	SWWS Plant Effluent to TA-3 ¹	Discharges to NPDES Outfall 001 ²	Reuse Water to SCC Cooling Towers ³ (estimated)	Discharges to NPDES Outfall 03A027 ⁴
Apr-2013	8.179	6.252	2.678	1.656
May-2013	7.042	5.133	2.559	0.972
Jun-2013	6.390	4.343	2.711	0.833

Notes:

¹In the 2nd quarter of 2013, all SWWS Plant effluent was pumped via a force main to TA-3 for reuse or discharge.

²Power plant wastewater and all SWWS Plant reuse water not used by the SCC Cooling Towers are discharged at NPDES Outfall 001.

³The SCC cooling towers can use potable or SWWS Plant reuse water. Table 3.0 contains the estimated volume of SWWS Plant reuse water that the SCC cooling towers used during the 2nd quarter of 2013.

⁴The SCC cooling towers discharge to NPDES Outfall 03A027 at Sandia Canyon.

NA means that no flow volumes were available at the time this report was prepared.

Table 4.0. Inspection Results, SERF Evaporation Basins, Leak Collection Ports.

SERF Basin	Inspection Date	West Port	East Port
Northwest	4/24/2013	dry	dry
Northeast	4/24/2013	123"	121"
Southwest	4/24/2013	dry	dry
Southeast	4/24/2013	dry	dry
Northwest	5/23/2013	dry	dry
Northeast	5/23/2013	111.5"	109.5"
Southwest	5/23/2013	dry	dry
Southeast	5/23/2013	dry	dry
Northwest	6/17/2013	dry	dry
Northeast	6/17/2013	104"	103"
Southwest	6/17/2013	dry	dry
Southeast	6/17/2013	dry	dry

ENCLOSURE 1

GEL Laboratories LLC
Certificate of Analysis Reports

ENV-DO-13-0090

LAUR-13-25351

Date: JUL 25 2013

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 30, 2013

Company : Los Alamos National Laboratory
 Address : PO Box 1663
 TA-03, SM271, Drop Pt. 02U, Rm111
 Los Alamos, New Mexico 87545

Contact: Keith Greene
 Project: LANL WQH WQCC Regs

Client SDG: 2013-887

Client Sample ID: SWWS46-13-33497
 Sample ID: 326427001
 Matrix: Waste Water
 Collect Date: 23-MAY-13 10:47
 Receive Date: 24-MAY-13
 Collector: Client

Project: ESHL00110
 Client ID: ARSL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.207	0.017	0.050	mg/L	1	KLP1	05/29/13	1429	1304211	1
Nitrogen as Ammonia "As Received"											
Nitrogen, Ammonia		0.226	0.017	0.050	mg/L	1	KLP1	05/29/13	1512	1304209	2
Nitrogen, Total Kjeldahl (TKN) "As Received"											
Nitrogen, Total Kjeldahl		0.388	0.033	0.100	mg/L	1	KLP1	05/30/13	1150	1302893	3
Solids Analysis											
EPA 160.1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		237	3.40	14.3	mg/L		LYG1	05/28/13	1312	1304309	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.2 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	05/29/13	1257	1304208
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	05/29/13	1700	1302892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	
2	EPA 350.1	
3	EPA 351.2	
4	EPA 160.1	

Notes:

GEL LABORATORIES LLC

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Report Date: May 30, 2013

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 TA-03, SM271, Drop Pt. 02U, Rm111
 Los Alamos, New Mexico 87545
 Contact: Keith Greene
 Project: LANL WQH WQCC Regs

Client SDG: 2013-887

Client Sample ID: SWWS46-13-33503
 Sample ID: 326427002
 Matrix: Waste Water
 Collect Date: 23-MAY-13 10:47
 Receive Date: 24-MAY-13
 Collector: Client

Project: ESHL00110
 Client ID: ARSL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.201	0.017	0.050	mg/L	1	KLP1	05/29/13	1432	1304211	1
Nitrogen as Ammonia "As Received"											
Nitrogen, Ammonia		0.241	0.017	0.050	mg/L	1	KLP1	05/29/13	1515	1304209	2
Nitrogen, Total Kjeldahl (TKN) "As Received"											
Nitrogen, Total Kjeldahl		0.325	0.033	0.100	mg/L	1	KLP1	05/30/13	1156	1302893	3
Solids Analysis											
EPA 160.1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		247	3.40	14.3	mg/L		LYG1	05/28/13	1312	1304309	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.2 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	05/29/13	1257	1304208
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	05/29/13	1700	1302892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	
2	EPA 350.1	
3	EPA 351.2	
4	EPA 160.1	

Notes:

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 Los Alamos, New Mexico 87545
 Contact: Keith Greene
 Project: LANL WQH WQCC Regs

Client SDG: 2013-887

Client Sample ID: SWWS46-13-33498
 Sample ID: 326427003
 Matrix: Waste Water
 Collect Date: 23-MAY-13 11:18
 Receive Date: 24-MAY-13
 Collector: Client

Project: ESHL00110
 Client ID: ARSL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.596	0.017	0.050	mg/L	1	KLP1	05/29/13	1433	1304211	1
Nitrogen as Ammonia "As Received"											
Nitrogen, Ammonia		0.436	0.017	0.050	mg/L	1	KLP1	05/29/13	1516	1304209	2
Nitrogen, Total Kjeldahl (TKN) "As Received"											
Nitrogen, Total Kjeldahl		1.73	0.033	0.100	mg/L	1	KLP1	05/30/13	1157	1302893	3
Solids Analysis											
EPA 160.1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		580	3.40	14.3	mg/L		LYG1	05/28/13	1312	1304309	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.2 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	05/29/13	1257	1304208
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	05/29/13	1700	1302892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	
2	EPA 350.1	
3	EPA 351.2	
4	EPA 160.1	

Notes:

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Certificate of Analysis

Report Date: May 30, 2013

Company : Los Alamos National Laboratory
 Address : PO Box 1663
 TA-03, SM271, Drop Pt. 02U, Rm111
 Los Alamos, New Mexico 87545

Contact: Keith Greene
 Project: LANL WQH WQCC Regs

Client SDG: 2013-887

Client Sample ID: SWWS46-13-33504
 Sample ID: 326427004
 Matrix: Waste Water
 Collect Date: 23-MAY-13 11:18
 Receive Date: 24-MAY-13
 Collector: Client

Project: ESHL00110
 Client ID: ARSL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.594	0.017	0.050	mg/L	1	KLP1	05/29/13	1435	1304211	1
Nitrogen as Ammonia "As Received"											
Nitrogen, Ammonia		0.436	0.017	0.050	mg/L	1	KLP1	05/29/13	1517	1304209	2
Nitrogen, Total Kjeldahl (TKN) "As Received"											
Nitrogen, Total Kjeldahl		1.70	0.033	0.100	mg/L	1	KLP1	05/30/13	1158	1302893	3
Solids Analysis											
EPA 160.1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		597	3.40	14.3	mg/L		LYG1	05/28/13	1312	1304309	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.2 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	05/29/13	1257	1304208
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	05/29/13	1700	1302892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	
2	EPA 350.1	
3	EPA 351.2	
4	EPA 160.1	

Notes:

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Certificate of Analysis

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 TA-03, SM271, Drop Pt. 02U, Rm111
 Los Alamos, New Mexico 87545
 Contact: Keith Greene
 Project: LANL WQH WQCC Regs

Client SDG: 2013-887

Client Sample ID: SWWS46-13-33499
 Sample ID: 326427005
 Matrix: Waste Water
 Collect Date: 23-MAY-13 10:07
 Receive Date: 24-MAY-13
 Collector: Client

Project: ESHL00110
 Client ID: ARSL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.162	0.017	0.050	mg/L	1	KLP1	05/29/13	1436	1304211	1
Nitrogen as Ammonia "As Received"											
Nitrogen, Ammonia		0.425	0.017	0.050	mg/L	1	KLP1	05/29/13	1517	1304209	2
Nitrogen, Total Kjeldahl (TKN) "As Received"											
Nitrogen, Total Kjeldahl		0.942	0.033	0.100	mg/L	1	KLP1	05/30/13	1159	1302893	3
Solids Analysis											
EPA 160.1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		414	3.40	14.3	mg/L		LYG1	05/28/13	1312	1304309	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.2 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	05/29/13	1257	1304208
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	05/29/13	1700	1302892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	
2	EPA 350.1	
3	EPA 351.2	
4	EPA 160.1	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

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 Los Alamos, New Mexico 87545
 Contact: Keith Greene
 Project: LANL WQH WQCC Regs

Client SDG: 2013-887

Client Sample ID: SWWS46-13-33505 Project: ESHL00110
 Sample ID: 326427006 Client ID: ARSL001
 Matrix: Waste Water
 Collect Date: 23-MAY-13 10:07
 Receive Date: 24-MAY-13
 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Nutrient Analysis											
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"											
Nitrogen, Nitrate/Nitrite		0.161	0.017	0.050	mg/L	1	KLP1	05/29/13	1437	1304211	1
Nitrogen as Ammonia "As Received"											
Nitrogen, Ammonia		0.442	0.017	0.050	mg/L	1	KLP1	05/29/13	1522	1304209	2
Nitrogen, Total Kjeldahl (TKN) "As Received"											
Nitrogen, Total Kjeldahl		0.947	0.033	0.100	mg/L	1	KLP1	05/30/13	1159	1302893	3
Solids Analysis											
EPA 160.1 Solids, Dissolved-F "As Received"											
Total Dissolved Solids		393	3.40	14.3	mg/L		LYG1	05/28/13	1312	1304309	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.2 Prep	EPA 350.1 Ammonia Nitrogen Prep	KLP1	05/29/13	1257	1304208
EPA 351.2 Prep	EPA 351.2 Total Kjeldahl Nitrogen Prep	KLP1	05/29/13	1700	1302892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 353.2	
2	EPA 350.1	
3	EPA 351.2	
4	EPA 160.1	

Notes:

ENCLOSURE 2

Monthly inspection photographs of the
SERF evaporation basins

ENV-DO-13-0090

LAUR-13-25351

Date: JUL 25 2013

SERF Evaporation Basins

Monthly Inspection Record: April 24, 2013

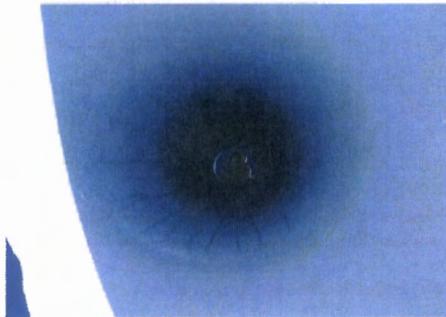
Northeast Basin and Ports



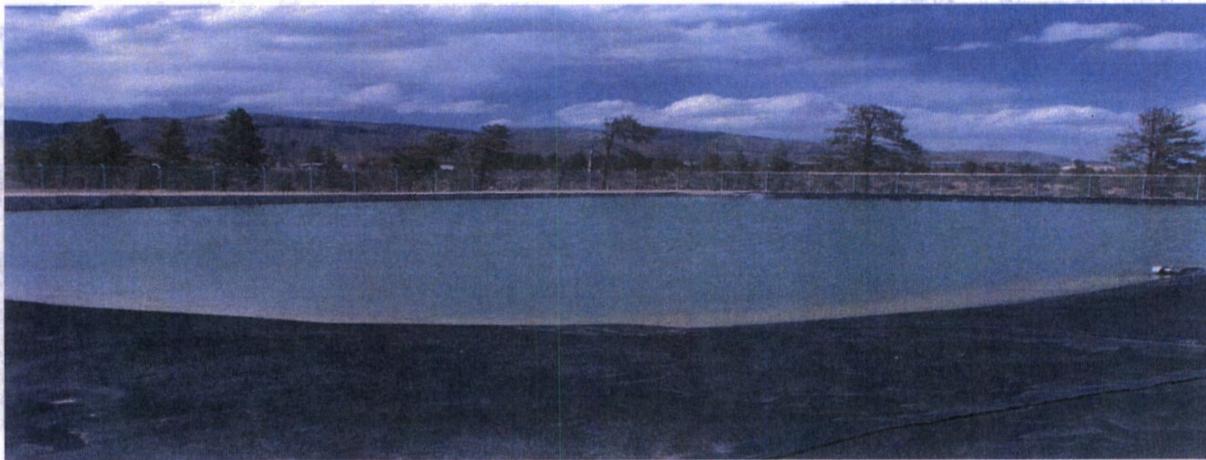
Port 1 Total column: 194"
Water column 123"



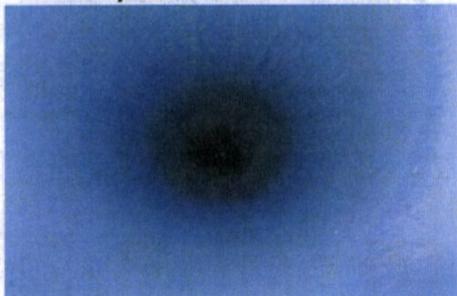
Port 2 Total column: 191"
Water column 121"



Northwest Basin and Ports



Port 1 Dry

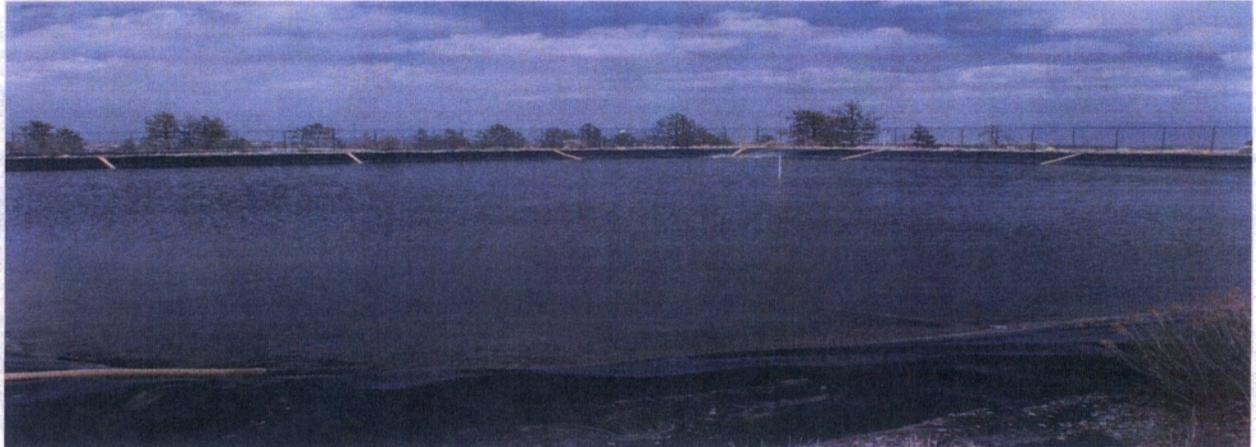


Port 2 Dry

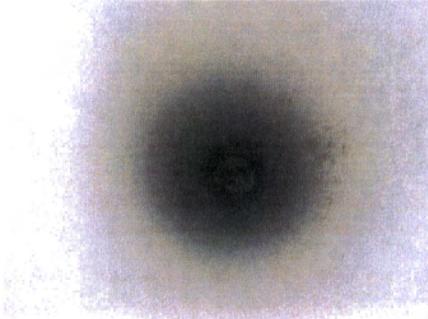


SERF Evaporation Basins
Monthly Inspection Record: April 24, 2013

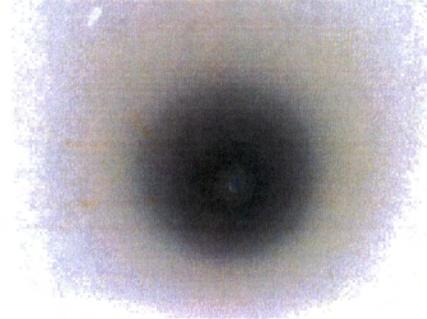
Southeast Basin and Ports



Port 1 Dry



Port 2 Dry



Southwest Basin and Ports



Port 1 Dry



Port 2 Dry



SERF Evaporation Basins

Monthly Inspection Record: May 23, 2013

Northeast Basin and Ports

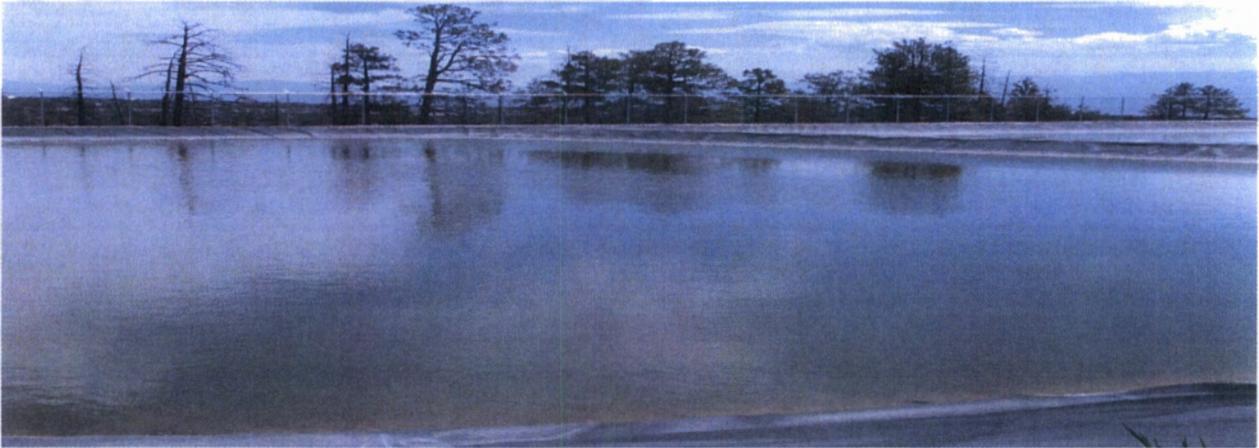


Port 1 Total column: 195"
Water column 111.5"

Port 2 Total column: 191"
Water column 109.5"

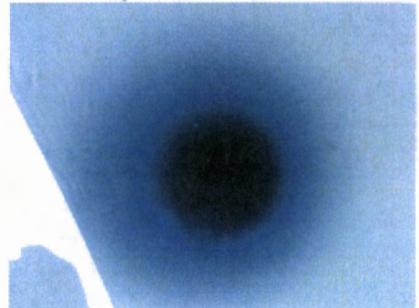
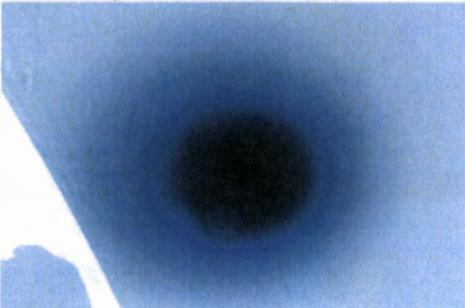


Northwest Basin and Ports



Port 1 Dry

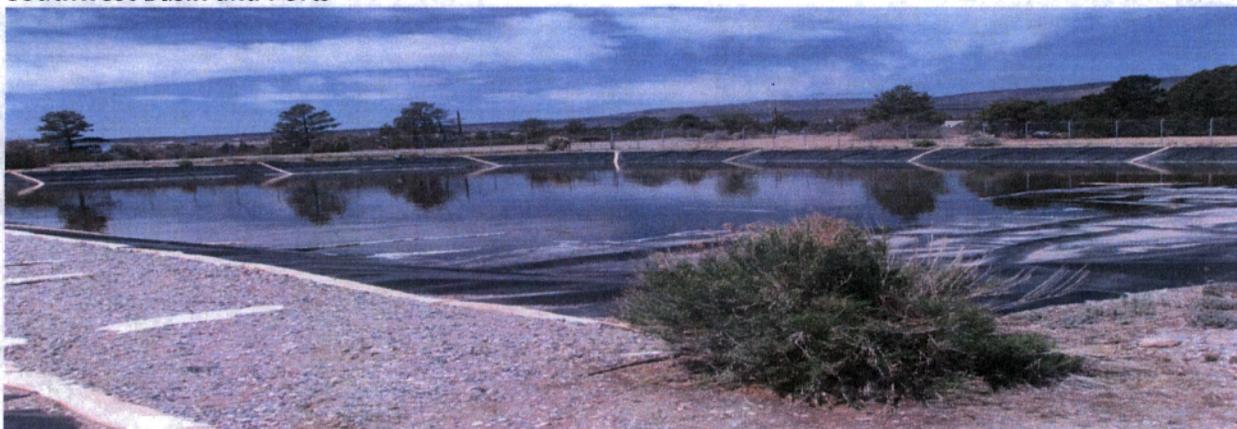
Port 2 Dry



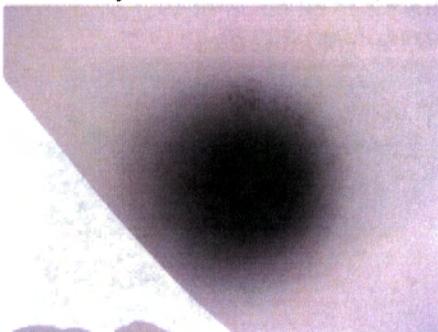
SERF Evaporation Basins

Monthly Inspection Record: May 23, 2013

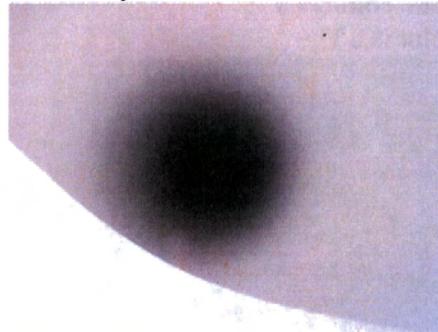
Southwest Basin and Ports



Port 1 Dry



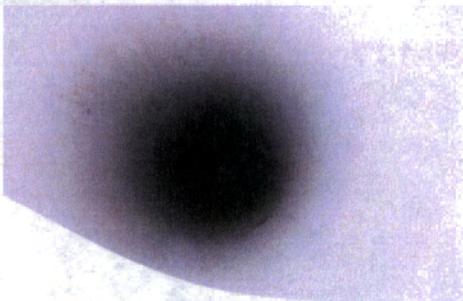
Port 2 Dry



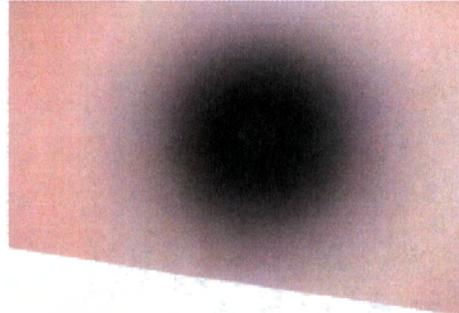
Southeast Basin and Ports



Port 1 Dry



Port 2 Dry

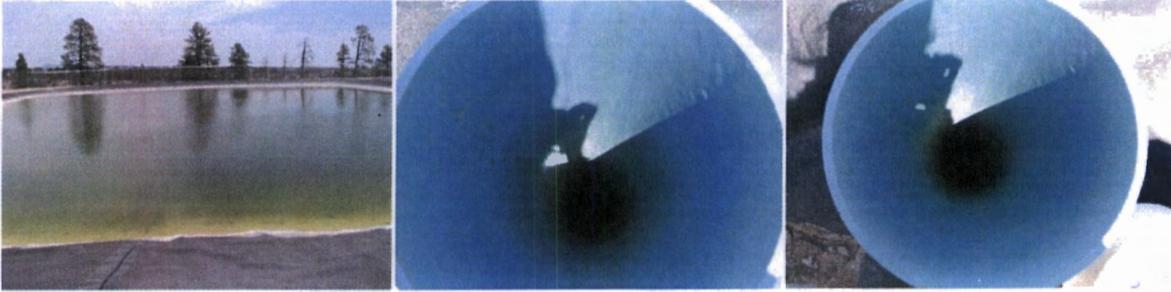


SERF Evaporation Basins

Monthly Inspection Record: June 17, 2013

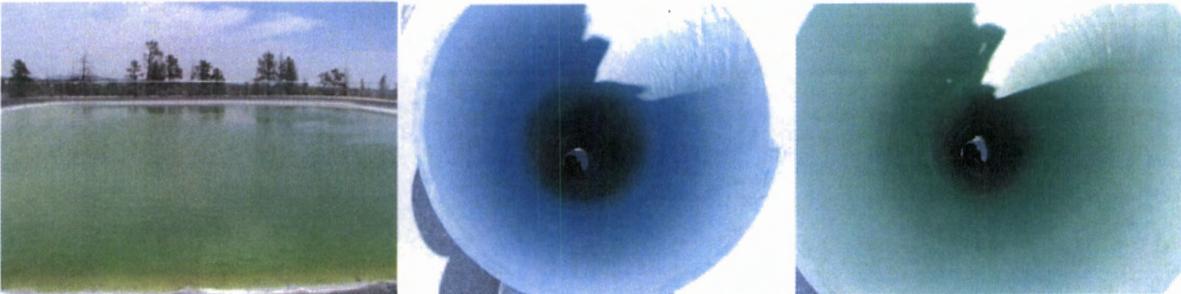
Northwest Basin

Both inspection ports were dry. The basin level has visible dropped. Water color was a blue green, and visibility through the water was about 5 feet and the bottom of the basin could be seen.



Northeast Basin

Both Inspection ports contained water. The number one port (to the West) contained 104" of water, while the number 2 port contained 103" of water. The basin color was a bright blue green and visibility of this basin was less than 1 foot.



Southwest Basin

Both inspection ports were dry. The basin level was at about the inlet height. The color of the water was a reddish brown color and visibility was about 4 feet. The bottom of the basin was visible.



Southeast Basin

Both inspection ports were dry. The basin had next to no level in it, though flow was diverted over. The color was a reddish brown as well. The bottom was exposed in places. Due to camera issues, there are no photos of this basin.