

**MONTICELLO PROJECTS  
FEDERAL FACILITY AGREEMENT REPORT  
November/December 2004  
Report Period: November 1 – December 31, 2004  
DOE Project Coordinator: Art Kleinrath**

**HIGHLIGHTS**

**MSG**

The Program Directive for the wildlife survey is on schedule for completion by January 15. Comments from the Biological Technical Assistance group have been incorporated.

**MRAP**

A punchlist of millsite restoration items was prepared. DOE and the City of Monticello have agreed upon which entity will perform each item on the punchlist.

**MVP**

No significant activities to report.

**MONTICELLO PROJECTS  
FEDERAL FACILITIES AGREEMENT REPORT  
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**STATUS**

*Operable Units I and II*

DOE and the City of Monticello (City) are exploring the possibility of transferring the former millsite and peripheral properties now owned by the City to another government entity, such as a nature conservancy. It is not currently known if the title to the property or just management of the property would be transferred. A meeting has been scheduled on January 4, 2005, for Legacy Management personnel from DOE-Headquarters to view the property and meet with the Monticello City Manager.

A punchlist of former millsite restoration items that need to be completed was submitted by DOE to the City of Monticello, EPA, and UDEQ. The list identifies all items requiring completion or repair at the former millsite and identifies the entity (City of Monticello or DOE) that will perform the work. Construction will not occur until acceptable weather conditions return.

DOE's Contracting Officer and Monticello Project Manager made a presentation at the Monticello City Council Meeting on November 10. DOE discussed the City's obligations concerning restoration and maintenance of the former millsite. The City committed to finish erosion repairs and maintain the erosion control structures, but wanted an updated punchlist of items requiring repair. A list will be prepared for the City.

The site contractor employees, Joe Slade and Todd Moon, successfully completed Department of Transportation regulations training for the transportation of radioactive materials.

Radiological Worker II retraining was provided for two City of Monticello employees. Both attendees (Mr. Nathan Langston and Mr. Benny Musselman) successfully completed the training course.

A "redlined" copy of Chapter 5, Project Schedules and Milestones, of the Site Management Plan that incorporated EPA and UDEQ comments from a November 9 teleconference was sent to EPA and UDEQ via email. Final comments on the plan have not been received by DOE.

The 2004 Annual Inspection Report for the Monticello site was submitted to EPA and UDEQ on November 23.

The Monticello Mill Tailings Site/Monticello Vicinity Properties Information Repository was updated to include the most recent documents.

#### **SCHEDULE/EXPECTATIONS**

See attached document submittal table for projected submittal dates.

#### **NEW ISSUES/RESOLUTIONS**

Property Certification letters have not been sent to the City of Monticello for property owned by them. These letters have been prepared and will be distributed upon satisfactory completion of millsite restoration.

## **MONTICELLO SURFACE- AND GROUND-WATER PROJECT (MSG)**

### **STATUS**

A draft of the wildlife survey program directive was submitted to members of the Biological Technical Assistance Group.

Laboratory analyses of the October ground water, surface water, and sediment sampling events have been completed and logged into the database.

At EPA's request, a concrete pad was poured around the base of monitor well MW00-06. This maintenance item was noted during EPA's review of the implementation of the Remedial Design/Remedial Action Work Plan.

The Environmental Sciences Laboratory conducted gas injection slug tests on 43 wells at the PeRT wall. The Monticello LM staff provided assistance and health and safety oversight for this project.

### **SCHEDULE/EXPECTATIONS**

See attached document submittal table for projected submittal dates.

### **NEW ISSUES/RESOLUTIONS**

No new issues.

**MONTICELLO VICINITY PROPERTIES (MVP)**  
**SITE ACTIVITIES**

**STATUS**

Excavations conducted by the Utah Department of Transportation (UDOT) were radiologically monitored. UDOT was in the process of repairing buckled asphalt prior to winter weather.

**SCHEDULE/EXPECTATIONS**

Not established.

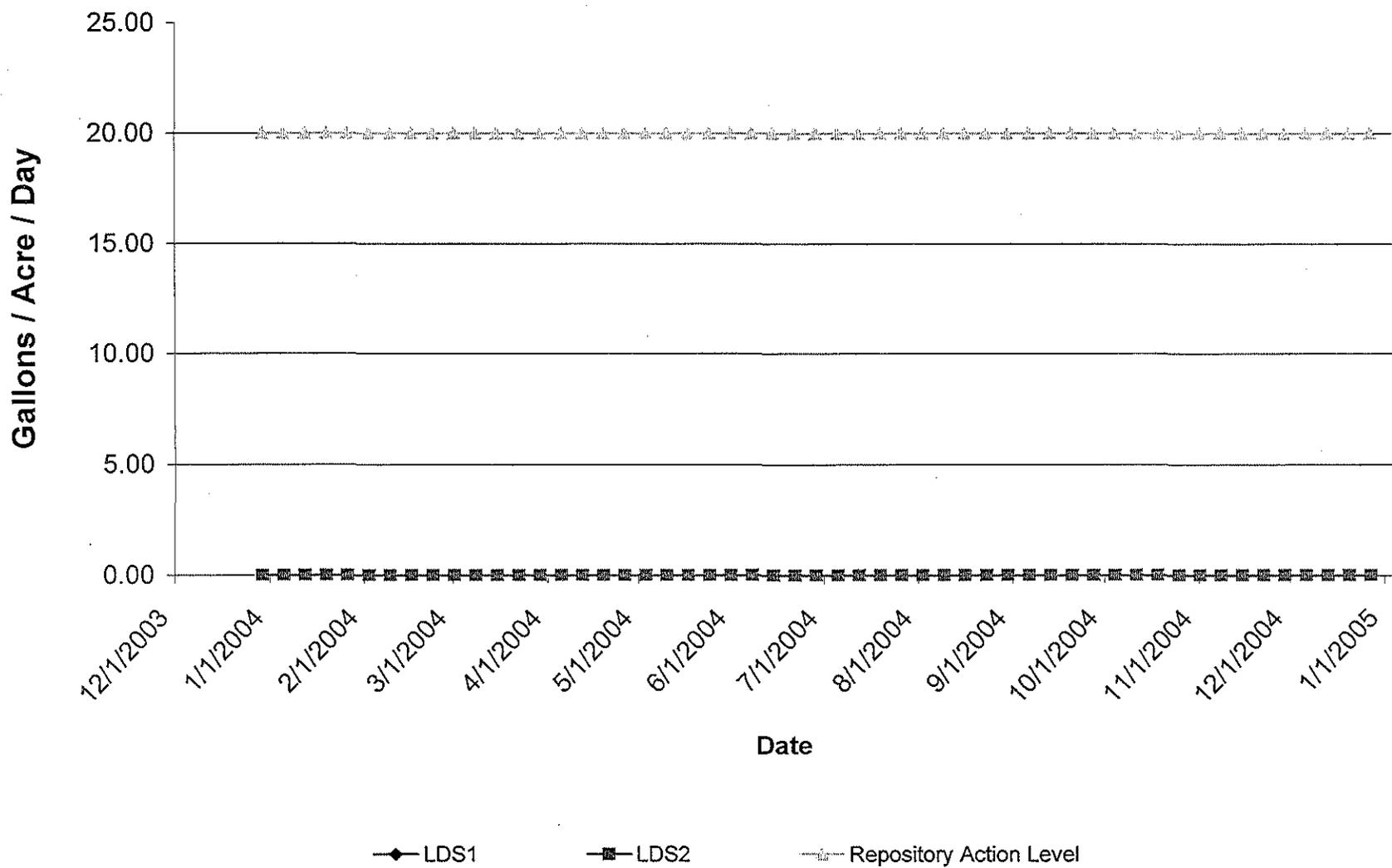
**NEW ISSUES/RESOLUTIONS**

No new issues.

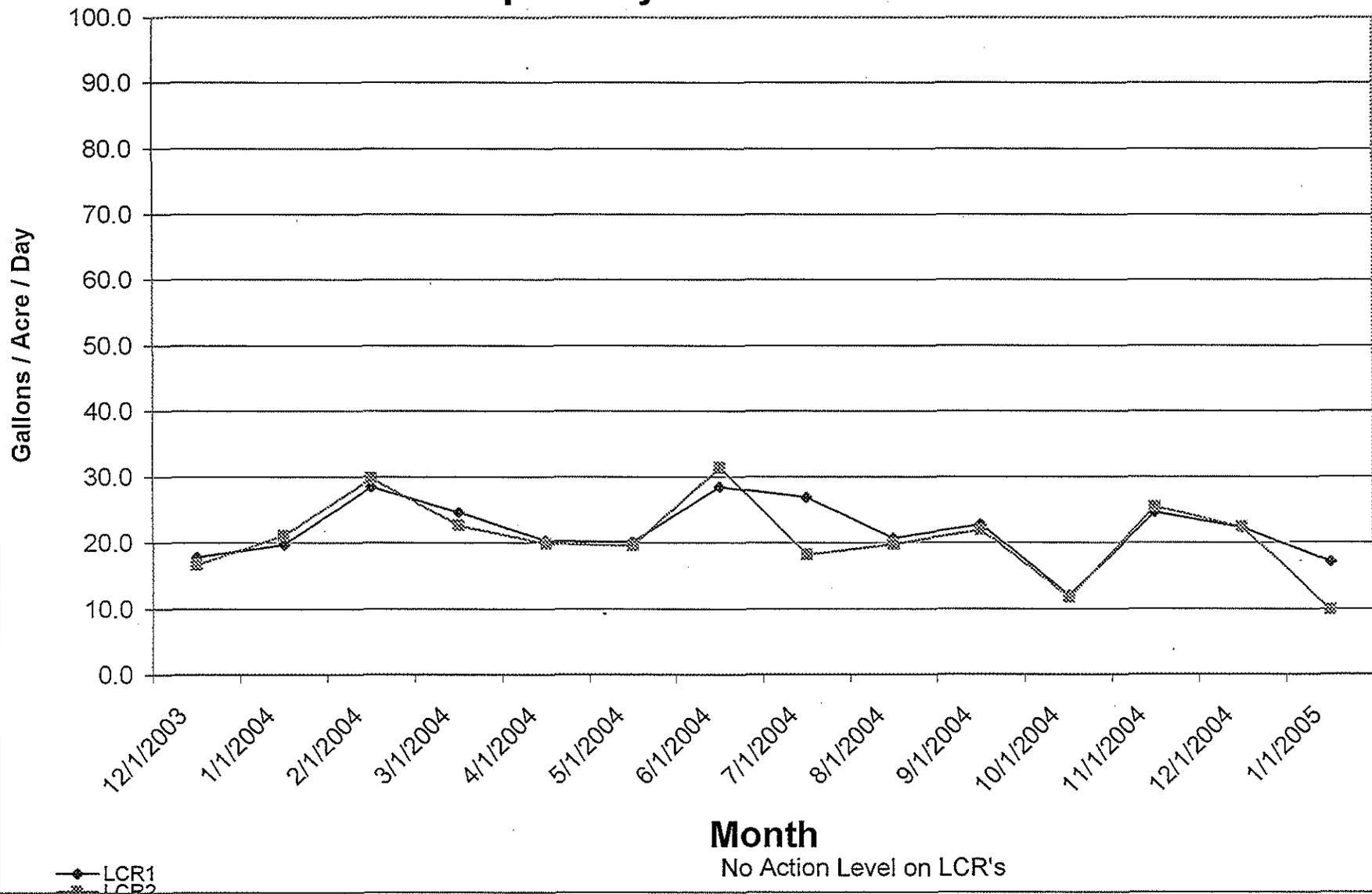
**OPERABLE UNITS I, II and III**  
**Projected Deliverables to Regulatory Agencies**  
**January through March 2005**

Op. Unit or Site	Deliverable	Projected Submittal/ Resubmittal	Regulator Input or Concurrence Needed (Yes / No)	Status/Progress/Comments as of: December 31, 2004
OUI	<ul style="list-style-type: none"> <li>• Repository Cover Study</li> </ul>	02/14/05	No	
OUI & OU II	<ul style="list-style-type: none"> <li>• Annual Wetlands Report</li> </ul>	02/14/05	No	
OU III	<ul style="list-style-type: none"> <li>• Program directive for wildlife survey</li> <li>• Obtain subcontractor for wildlife survey</li> </ul>	01/15/05 02/15/05	Yes No	
OU III	<ul style="list-style-type: none"> <li>• Program directive for macroinvertebrate sampling</li> </ul>	02/01/05	Yes	

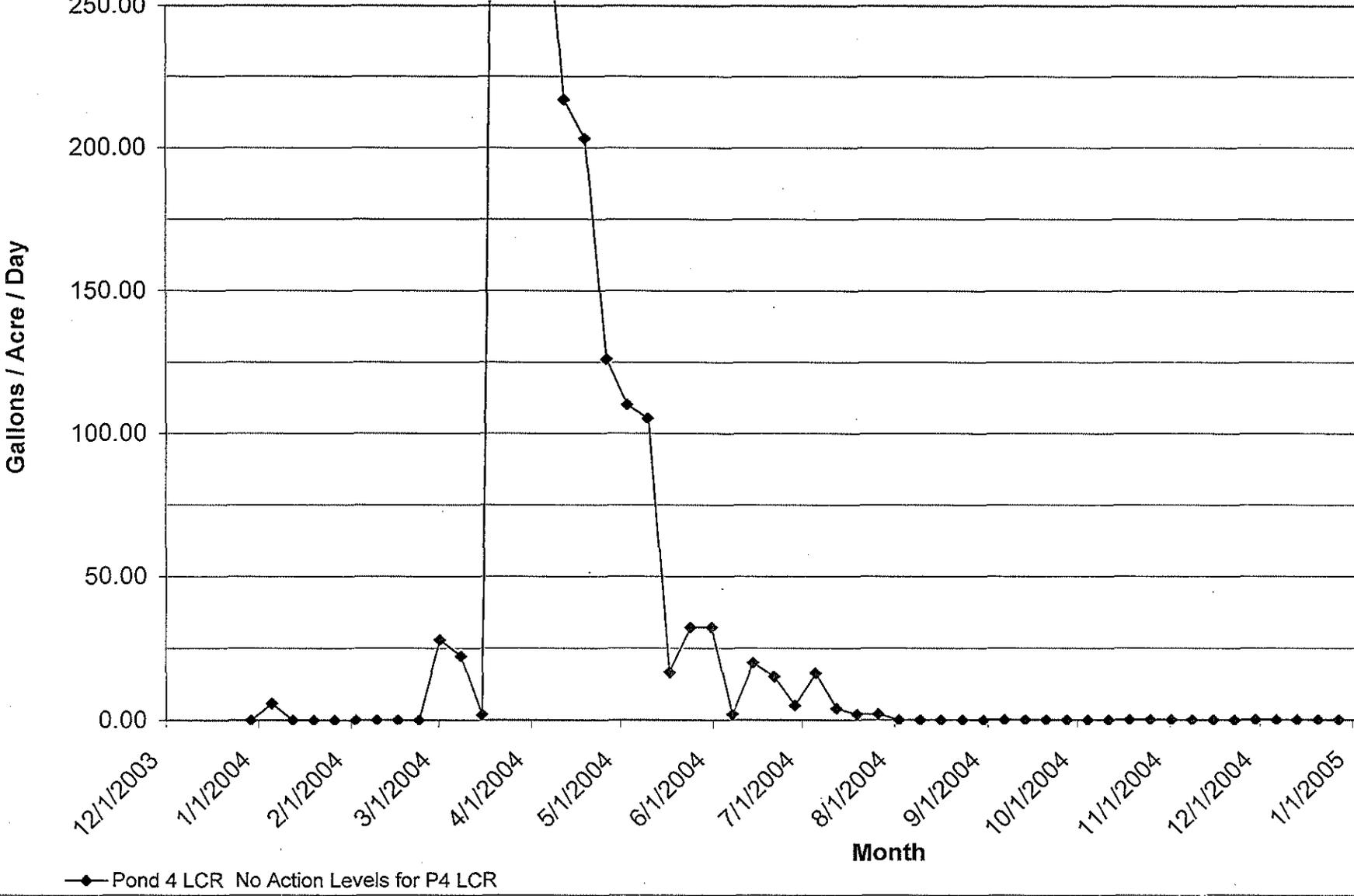
# Repository LDS Data 2004



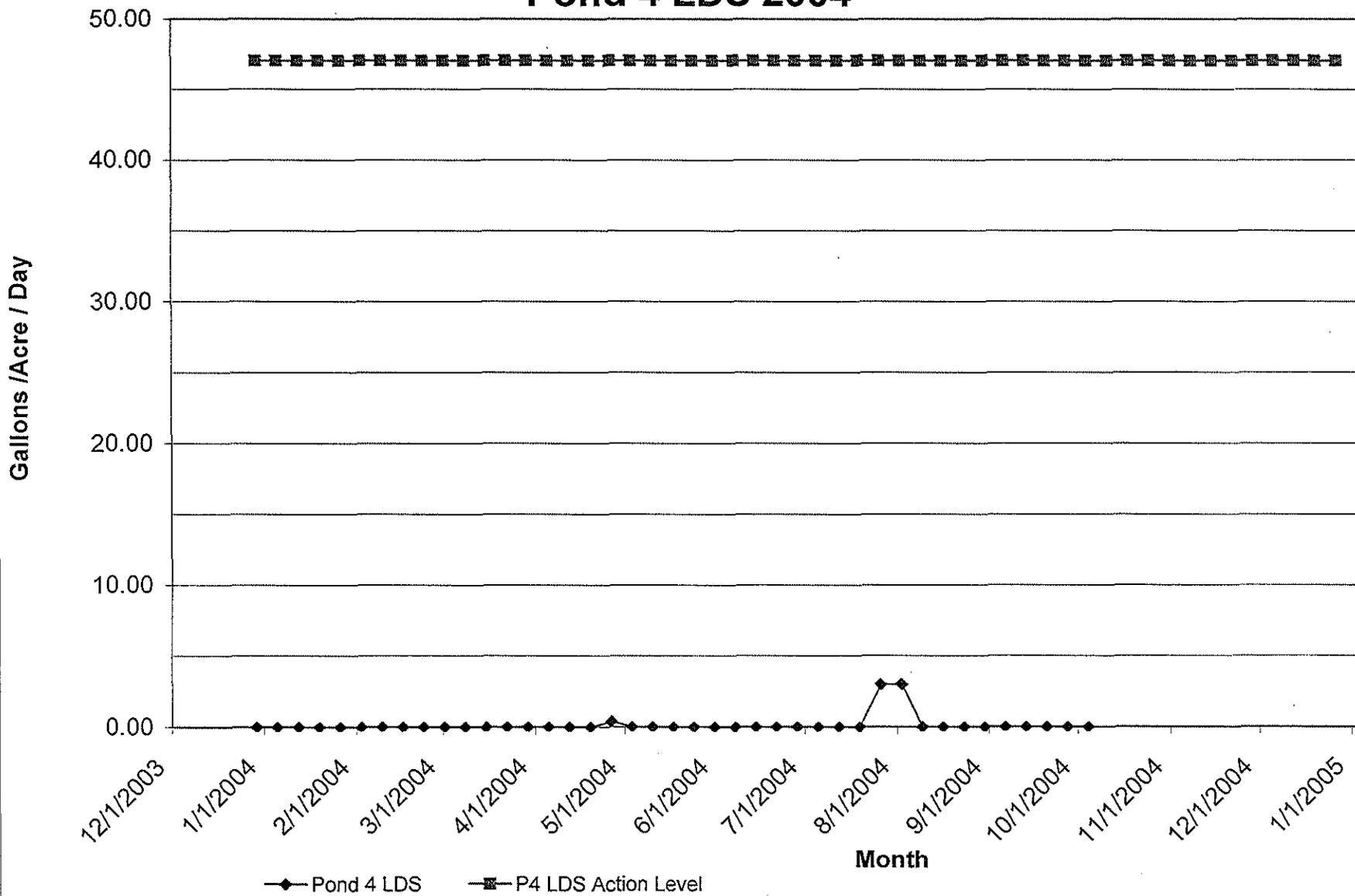
# Repository LCR Data 2004



### Pond 4 LCR Data 2004



# Pond 4 LDS 2004



Total Gallons Pumped from LDS1 as Measured by Flowmeter Weekly Basis							Total Gallons Pumped from LDS2 as Measured by Flowmeter Weekly Basis						
Year	Week	Total for Week	Average Per Day	Gallons Per Acre Per Day	Number of Days	Comments	Year	Week	Total for Week	Average Per Day	Gallons Per Acre Per Day	Number of Days	Comments
2003	2/29/2003	0							0				
	1/5/2004	0							0				
	1/12/2004	0							0				
	1/19/2004	0							0	0.0	0.0		
	1/26/2004	0							0				
	2/2/2004	0							0				
	2/9/2004	0							0		0.0		
	2/16/2004	0							0				
	2/23/2004	0							0				
	3/1/2004	0							0				
	3/8/2004	0							0				
	3/15/2004	0							0				
	3/22/2004	0							0				
	3/29/2004	0							0				
	4/5/2004	0							0				
	4/12/2004	0							0				
	4/19/2004	0							0				
	4/26/2004	0							0				
	5/3/2004	0							0				LDS2 is down - no water is pumping
	5/10/2004	0							0				LDS2 is down - no water is pumping
	5/17/2004	0							0				LDS2 is down - no water is pumping
	5/24/2004	0							0				LDS2 is down - no water is pumping
	5/31/2004	0							0				LDS2 is down - no water is pumping
	6/7/2004	0							0				LDS2 is down - no water is pumping
	6/14/2004	0							0				LDS2 is down - no water is pumping
	6/21/2004	0							0				LDS2 is down - no water is pumping
	6/28/2004	0							0				LDS2 is down - no water is pumping
	7/5/2004	0							0				LDS2 is down - no water is pumping
	7/12/2004	0							0				LDS2 is down - no water is pumping
	7/19/2004	0							0				LDS2 is down - no water is pumping
	7/26/2004	0							0				LDS2 is down - no water is pumping
	8/2/2004	0							0				LDS2 is down - no water is pumping
	8/9/2004	0							0				
	8/16/2004	0							0				
	8/23/2004	0							0				
	8/30/2004	0							0				
	9/6/2004	0							0				
	9/13/2004	0							0				
	9/20/2004	0							0				
	9/27/2004	0							0				
	10/4/2004	0							0				
	10/11/2004	0							0				
	10/18/2004	0							0				
	10/25/2004	0				500 gallons used to test sump system			0				400 gallons used to test sump system
	11/1/2004	0				power pump activated pumps			0				
	11/8/2004	0							0				
	11/15/2004	0							0				
	11/22/2004	0							0				
	11/29/2004	0							0				
	12/6/2004	0							0				
	12/13/2004	0							0				
	12/20/2004	0							0				
	12/27/2004	0							0				
	1/3/2005	0							0				

Total Gallons Pumped from LCR1 as Measured by Flowmeter Monthly Basis					Pond4 LDS Weekly Basis			Pond 4 Evaporation Pond Elevation Weekly Basis		
Month Begin	Total for Month	Average Per Day	Gallons Per Acre Per Day	DA YS	Comments	Week Begin	Level Measure	Gallons Per Day	Level Measurement	Feet Above 6938.0
12/1/2003	6233	178.1	17.8	35		12/29/2003	1.47	0.00	6939.80	1.80
1/5/2004	6897	197.1	19.7	35		1/5/2004	1.43	0.00	6939.80	1.80
2/2/2004	7982	285.1	28.5	28		1/12/2004	1.45	0.00	6939.80	1.80
3/1/2004	6879	245.7	24.6	28		1/19/2004	1.46	0.00	6939.80	1.80
4/5/2004	7120	203.4	20.3	35		1/26/2004	1.43	0.00	6939.80	1.80
5/3/2004	7981	285.0	28.5	28		2/2/2004	1.39	0.00	6939.80	1.80
6/7/2004	8321	297.2	29.7	28		2/9/2004	1.43	0.00	6939.80	1.80
7/5/2004	7521	268.6	26.9	28		2/16/2004	1.45	0.00	6940.20	2.20
8/2/2004	5788	206.7	20.7	28		2/23/2004	1.43	0.00	6940.80	2.80
9/6/2004	6389	228.2	22.8	28		3/1/2004	1.45	0.00	6942.50	4.50
10/4/2004	4205	120.1	12.0	35		3/8/2004	1.64	0.00	6944.50	6.30
11/1/2004	6874	245.5	24.6	28		3/15/2004	0.31	0.00	6945.70	7.70
12/6/2004	7820	223.4	22.3	35		3/22/2004	0.31	0.00	6945.50	7.50
1/3/2005	4780	170.7	17.1	28		3/29/2004	3.07	0.00	6945.50	7.50
Total	88557					4/5/2004	3.65	0.00	6945.50	7.50
Total Gallons Pumped from LCR2 as Measured by Flowmeter Monthly Basis						4/12/2004	3.86	0.00	6943.80	5.80
Month Begin	Total for Month	Average Per Day	Gallons Per Acre Per Day	DA YS	Comments	4/19/2004	7.00	0.00	6942.50	4.50
12/1/2003	5845	167.0	16.7	35		4/26/2004	7.00	0.00	6941.90	3.90
1/5/2004	7374	210.7	21.1	35		5/3/2004	1.07	147.00	6941.50	3.50
2/2/2004	8338	297.8	29.8	28		5/10/2004	1.03	2.00	6940.90	2.90
3/1/2004	6329	226.0	22.6	28		5/17/2004	1.04	0.60	6940.70	2.70
4/5/2004	6973	199.2	19.9	35		5/24/2004	1.06	0.00	6940.20	2.20
5/3/2004	5484	195.9	19.6	28		5/31/2004	1.05	0.00	6940.10	2.10
6/7/2004	8778	313.5	31.4	28		6/7/2004	1.04	0.00	6938.70	0.70
7/5/2004	5105	182.3	18.2	28		6/14/2004	1.05	0.00	6938.40	0.40
8/2/2004	5552	198.3	19.8	28		6/21/2004	1.04	0.00	6938.00	0.00
9/6/2004	6137	219.2	21.9	28		6/28/2004	1.05	0.00	6938.00	0.00
10/4/2004	4083	116.7	11.7	35		7/5/2004	0.32	0.00	6938.00	0.00
11/1/2004	7109	253.9	25.4	28		7/12/2004	0.31	0.00	6938.00	0.00
12/6/2004	7833	223.8	22.4	35		7/19/2004	0.30	0.00	6938.00	0.00
1/3/2005	2757	98.5	9.8	28		7/26/2004	0.30	3.00	6938.00	0.00
Total	81852					8/2/2004	0.30	3.00	6938.00	0.00
Total Gallons Pumped from Pond 4 LDS Sump						8/9/2004	0.30	0.00	6938.00	0.00
Month Begin	Total for Month	Average Per Day	Gallons Per Acre Per Day	DA YS	Comments	8/16/2004	0.30	0.00	6938.00	0.00
12/1/2003	0	0.0	0.0	35	Level is monitored	8/23/2004	0.30	0.00	6938.00	0.00
1/5/2004	0	0.0	0.0	28	Level is monitored	8/30/2004	0.30	0.00	6938.00	0.00
2/2/2004	0	0.0	0.0	28	Level is monitored	9/6/2004	0.32	0.00	6938.00	0.00
3/1/2004	0	0.0	0.0	28	Level is monitored	9/13/2004	0.30	0.00	6938.00	0.00
4/5/2004	0	0.0	0.0	35	Sump pumped March 23, 2004 (No totalizer Reading)	9/20/2004	0.30	0.00	6938.00	0.00
5/3/2004	147	4.2	0.4	35	Pump installed April 28, 2004 initial pumping of 125 gallons.	9/27/2004	0.31	0.00	6938.00	0.00
6/7/2004	2	0.1	0.0	28		10/4/2004	0.31	0.00	6938.00	0.00
7/5/2004	3	0.1	0.0	28		10/11/2004	0.32	0.00	6938.00	0.00
8/2/2004	3	0.1	0.0	28		10/18/2004	0.32	0.00	6938.00	0.00
9/6/2004	0	0.0	0.0	28		10/25/2004	0.33	0.00	6938.00	0.00
10/4/2004	0	0.0	0.0	35		11/1/2004	0.32	0.00	6939.00	1.00
11/1/2004	0	0.0	0.0	28		11/8/2004	0.32	0.00	6939.10	1.10
12/6/2004	0	0.0	0.0	35		11/15/2004	0.32	0.00	6939.30	1.30
1/3/2005	0	0.0	0.0	35		11/22/2004	0.35	0.00	6939.90	1.90
Total	155					11/29/2004	0.36	0.00	6940.20	2.20
						12/6/2004	0.36	0.00	6940.50	2.50
						12/13/2004	0.33	0.00	6940.50	2.50
						12/20/2004	0.35	0.00	6940.50	2.50
						12/27/2004	0.33	0.00	6940.50	2.50
						1/3/2005	0.00	0.00	6941.30	3.30

tal Gallons Pumped from Pond4 LCR as Measured by Flowmeter Weekly Basis

Week Begin	Total for Week	Average Per Day	Gallons Per Acre Per Day	1999	Number of Days	Comments
1/29/2003	0					
1/5/2004	479	13.7	5.8		35	
1/12/2004	0					
1/19/2004	0					
1/26/2004	0					
2/2/2004	0					
2/9/2004	0					
2/16/2004	0					
2/23/2004	0					
3/1/2004	460	9.4	4.0		49	
3/8/2004	366	52.3	22.2		7	
3/15/2004	33	4.7	2.0		7	Pond 4 System is offline
3/22/2004	9300	1328.6	565.3		7	
3/29/2004	8020	1145.7	487.5		7	
4/5/2004	4922	703.1	299.2		7	
4/12/2004	3567	509.6	216.8		7	
4/19/2004	3343	477.6	203.2		7	
4/26/2004	2075	296.4	126.1		7	
5/3/2004	1811	258.7	110.1		7	
5/10/2004	1731	247.3	105.2		7	
5/17/2004	273	39.0	16.6		7	
5/24/2004	532	76.0	32.3		7	
5/31/2004	532	76.0	32.3		7	
6/7/2004	34	4.9	2.1		7	
6/14/2004	329	47.0	20.0		7	
6/21/2004	250	35.7	15.2		7	
6/28/2004	84	12.0	5.1		7	
7/5/2004	270	38.6	16.4		7	
7/12/2004	67	9.6	4.1		7	
7/19/2004	35	5.0	2.1		7	
7/26/2004	37	5.3	2.2		7	
8/2/2004	0	0.0	0.0		7	
8/9/2004	0					
8/16/2004	0					
8/23/2004	0					
8/30/2004	0					
9/6/2004	0					
9/13/2004	0					
9/20/2004	0					
9/27/2004	0					
10/4/2004	0					
10/11/2004	0					
10/18/2004	0					
10/25/2004	0					
11/1/2004	0					
11/8/2004	0					
11/15/2004	0					
11/22/2004	0					
11/29/2004	0					
12/6/2004	0					
12/13/2004	0					
12/20/2004	0					
12/27/2004	0					
1/3/2005	0					

Monthly Pond 4 Surveillance Checklist

Monticello LTSM Representative JOE SLADE  Date 11-2-2004

Level of Water in Pond 4 0 to 1 ft in the Sump

Inspection Item	Acceptable (Yes/No)	Comments & Recommendation
<u>Condition of:</u>		
Fence	<u>YES</u>	
Roads	<u>yes</u>	
Signs	<u>yes</u>	
Visible Piping	<u>yes</u>	
Visible Liner	<u>yes</u>	
Life Saver Station	<u>yes</u>	
<u>Evidence of erosion of:</u>		
Top of Pond 4 Berm	<u>NO</u>	
Pond 4 Sideslopes	<u>NO</u>	
Ditches	<u>NO</u>	
Surrounding area	<u>NO</u>	
Seepage from Pond 4	<u>NO</u>	
Overtopping of Pond 4	<u>NO</u>	
<u>Evidence of:</u>		
Vandalism	<u>NO</u>	
Intrusion by wildlife	<u>NO</u>	
Intrusion by humans	<u>NO</u>	
Accumulation of trash	<u>NO</u>	

Additional Comments

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Monthly Repository Surveillance Checklist

Monticello LTSM Representative JOE SLADE Date 11-2-2004

Meteorological Data for the period beginning See weather data log ending \_\_\_\_\_

Average wind speed \_\_\_\_\_ Prevailing wind direction \_\_\_\_\_

Average temperature \_\_\_\_\_ High Temperature \_\_\_\_\_ Low Temperature \_\_\_\_\_

Current barometric pressure \_\_\_\_\_

Total precipitation \_\_\_\_\_ Inches of Precipitation in last 24 hours \_\_\_\_\_

Inspection Item	Acceptable (Yes/No)	Comments and Recommendations
<u>Condition of:</u>		
Fence	<u>yes</u>	_____
Roads	<u>yes</u>	_____
Signs	<u>yes</u>	_____
Site Marker	<u>yes</u>	_____
Drainage ditches	<u>yes</u>	_____
Manholes	<u>yes</u>	_____
Settlement Plates	<u>yes</u>	_____
Vegetation	<u>yes</u>	_____
<u>Evidence of erosion of:</u>		
Top of Repository	<u>No</u>	_____
Repository Sideslopes	<u>No</u>	_____
Ditches	<u>No</u>	_____
Surrounding area	<u>No</u>	_____
<u>Evidence of:</u>		
Vandalism	<u>No</u>	_____
Intrusion by wildlife	<u>No</u>	_____
Burrowing Animal Damage	<u>No</u>	_____
Intrusion by humans	<u>No</u>	_____
Accumulation of trash	<u>yes</u>	<u>wind has the weeds blowing against the fence</u>

Additional Comments

LDS 2 monitoring system not working right - water was pumped into the sump then pumped out 2 times to try and clean the bubbling system but there seems to be some stiff mud now in the bottom - work to correct is continuing.

File Index Number LMM744

Monticello Pond 4 Surveillance Checklist

Monticello LTSM Representative

JOE SLADE 

Date 12-2-2004

Level of Water in Pond 4

aprox 2ft in the Sump

Inspection Items

Acceptable  
(Yes/No)

Comments and Recommendations

Condition of

Fence

yes

Roads

yes

Signs

yes

Visible Piping

yes

Visible Liner

yes

Life Saver Station

yes

Evidence of erosion of:

Top of Pond 4 Berm

NO

Pond 4 Side Slopes

NO

Ditches

NO

Surrounding Area

NO

Seepage From Pond 4

NO

Over Topping of Pond 4

NO

Evidence of:

Vandalism

NO

Intrusion by Wildlife

NO

Intrusion by Humans

NO

Accumulation of Trash

NO

Additional Comments

Pond area is snow covered now - November snow storms were really good only melting is where the sun hits the liner (North & some East)

File Index Number

LMNT 4.4

Monthly Repository Surveillance Checklist

Monticello LTSM Representative

Joe Slade 

Date 12-2-2004

Meteorological Data (Weather)

See weather Data Log

Inspection Item

Acceptable  
(Yes/No)

Comments and Recommendations

Condition of:

Fence	<u>yes</u>	
Roads	<u>yes</u>	
Signs	<u>yes</u>	
Site Marker	<u>yes</u>	
Drainage Ditches	<u>yes</u>	
Manholes	<u>yes</u>	
Settlement Plates	<u>yes</u>	
Vegetation	<u>yes</u>	

Evidence of Erosion of:

Top of Repository	<u>NO</u>	
Repository Sideslopes	<u>NO</u>	
Ditches	<u>NO</u>	
Surrounding Area	<u>NO</u>	

Evidence of:

Vandalism	<u>NO</u>	
Intrusion of Wildlife	<u>NO</u>	
Intrusion of Humans	<u>NO</u>	
Burrowing Animal Damage	<u>NO</u>	
Accumulation of Trash	<u>NO</u>	

Additional Comments

Snow cover over THE Repository now - the last snows are good and wet - cover

is staying really well -

File Index Number

LMNT 4.4