

**Ameren Labadie**  
**Piezometer and Boring Locations/Elevations**  
**KdG Project 080086-0005**

Designation	Northing	Eastng	Ground Elevation	Pipe Elevation
P-155	991943.98	728065.97	463.44	466.27
P-156	991964.30	728791.30	464.89	467.60
C-157	991919.96	729107.35	464.1	***
C-157A	991925.41	729106.30	464.0	***
P-158	991945.43	729368.05	464.72	467.63
C-159	991906.89	729691.99	463.8	***
P-160	991884.45	729979.25	463.70	466.42
C-161	991888.46	730278.18	463.2	***
P-162	991801.20	730561.78	463.28	465.98
C-163	991897.76	730886.02	462.3	***
P-164	991871.12	731169.33	463.42	465.83
P-165	991660.67	727734.64	464.05	466.80
C-166	991654.39	728048.68	464.2	***
P-167	991646.82	728350.01	463.60	466.56
C-168	991635.63	728804.08	464.0	***
C-168A	991644.97	728805.72	464.2	***
P-169	991653.97	729053.82	464.75	467.42
C-170	991620.18	729392.25	464.0	***
P-171	991629.80	729636.72	463.97	466.87
C-172	991596.82	729981.26	463.2	***
P-173	991592.90	730278.01	463.40	466.33
C-174	991581.45	730570.70	463.5	***
P-175	991556.51	730873.59	463.57	466.06
B-176	991570.90	731163.53	462.7	***
P-177	991336.76	728049.81	464.07	466.87
C-178	991342.28	728334.65	463.9	***
P-179	991350.86	728780.92	464.19	466.93
C-180	991331.60	729095.02	464.3	***
P-181	991334.49	729380.23	464.42	467.35
C-182	991324.63	729674.16	464.5	***
P-183	991309.56	729980.89	463.40	465.96
C-184	991307.04	730272.57	463.2	***
P-185	991289.70	730564.03	463.75	466.43
C-186	991283.38	730857.67	463.4	***
P-187	991308.51	731386.11	462.85	465.67
B-188	991065.40	728033.59	464.9	***
P-189	991059.00	728325.94	464.91	467.93
C-190	991041.41	728854.90	463.2	***
P-191	991032.57	729099.94	464.41	467.10
C-192	991029.27	729372.42	464.3	***

Horizontal Datum: Missouri State Plane Coordinates - NAD 83 (Feet)

Vertical Datum: NAVD 88 (Feet)

Note: Ground Elevation at Piezometer is a Chiseled Square on the Concrete Pad

**Ameren Labadie**  
**Piezometer and Boring Locations/Elevations**  
**KdG Project 080086-0005**

Designation	Northing	Easting	Ground Elevation	Pipe Elevation
P-193	991026.43	729688.59	464.11	467.00
C-194	991014.62	729967.60	463.2	***
P-195	991065.81	730256.04	463.44	466.07
C-196	990995.86	730560.69	463.5	***
P-197	990891.95	730883.14	463.54	466.10
C-198	990764.91	728321.53	463.7	***
P-199	990738.72	728782.05	465.28	468.13
B-200	990737.06	729073.29	464.8	***
C-200	990737.64	729076.02	464.8	***
P-201	990567.70	729279.14	464.65	467.47
B-202	990727.02	729660.51	463.8	***

Horizontal Datum: Missouri State Plane Coordinates - NAD 83 (Feet)

Vertical Datum: NAVD 88 (Feet)

Note: Ground Elevation at Piezometer is a Chiseled Square on the Concrete Pad

Kuhlmann *design* Group, Inc.

ST. LOUIS | BELLEVILLE

# AMEREN LABADIE PLANT MONUMENT RECORD BOOK

KdG Project No. 080086-0001 and 080086-0004

**RECEIVED**

**JUN 23 2009**

**REITZ & JENS, INC.**

**Kuhlmann *design* Group, Inc.**

**2008-2009**

KdG

June 11, 2009

Ms. Jo Ann Thee, P.E.  
Consulting Engineer  
Environmental Project Engineering  
Ameren U.E.  
Power Operations Services  
3700 South Lindbergh Boulevard  
Mail Code F-604  
St. Louis, Missouri 63127

Re: Ameren Labadie Plant  
KdG Project No. 080086-0001 and 080086-0004

Dear Ms. Thee:

This letter is to certify to Ameren U.E. that Kuhlmann *design* Group, Inc. performed the following Survey Services and provided the deliverables described below:

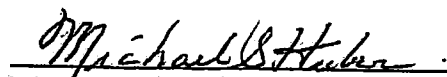
**BASIC SERVICES:**

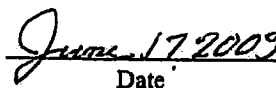
Kuhlmann *design* Group, Inc. constructed and surveyed six new survey control monuments, determined their horizontal and vertical position, and installed orange carsonite posts or bollards near each monument as part of their deliverables.

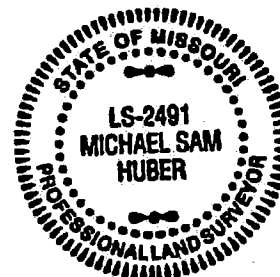
**DELIVERABLES:**

MO State Plane Coordinates – (East Zone 2401) NAD '83 (horizontal) and NAVD '88 (vertical) positioning were provided on all monuments. The information provided in this binder includes an area map for ease in referencing the individual data sheets, photographs of the monuments (2 – 20' away looking in cardinal directions) and (1 – near view looking down on the top of the monument), the monument coordinates and elevations, and a written description of its location. Recovery ties to key monuments are also included.

Kuhlmann *design* Group, Inc.

  
Michael S. Huber, MO P.L.S. No. 002491  
Expires: 12/31/2009

  
Date

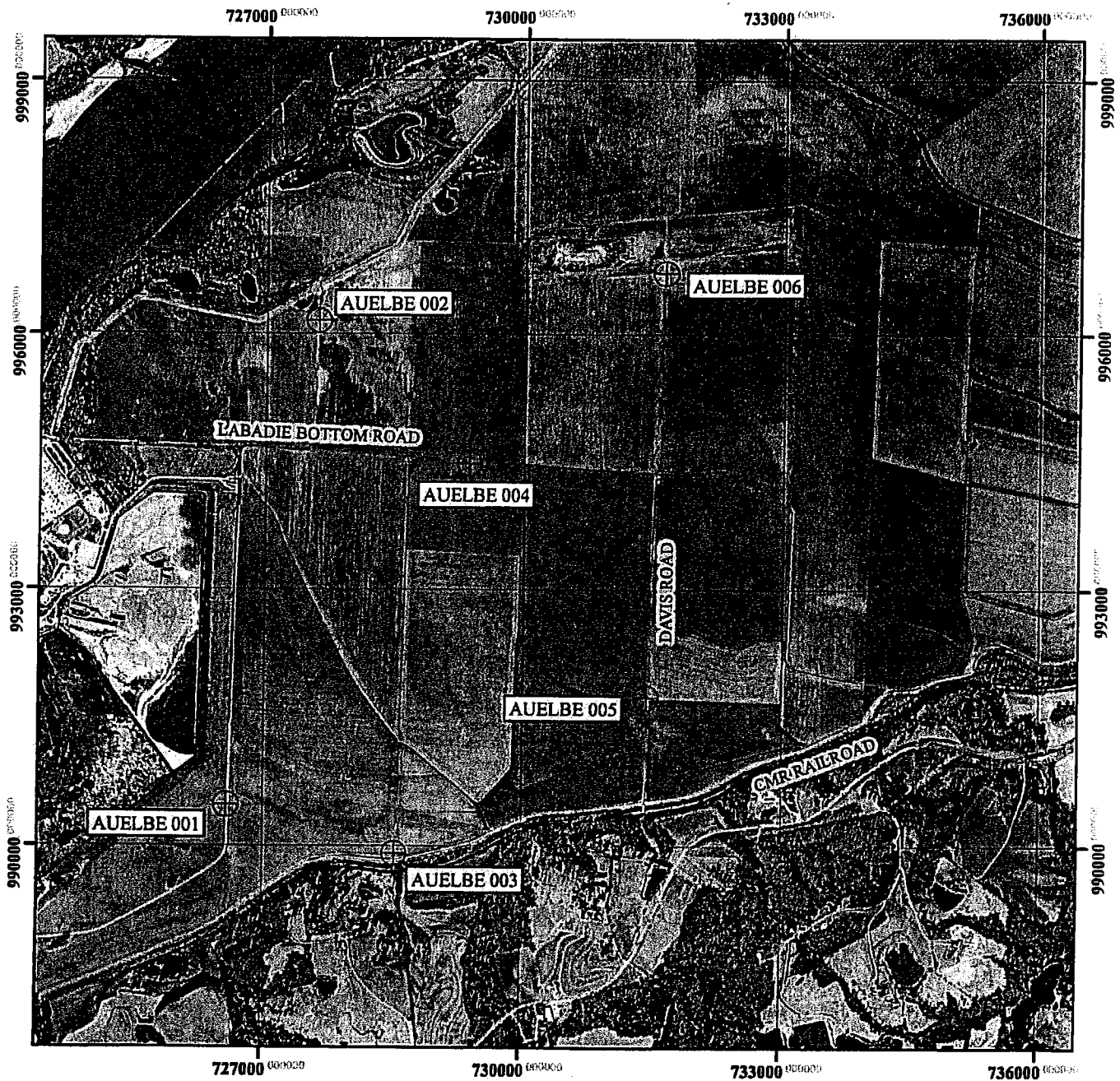


MSH:jma

cc: Mr. Paul Reitz w/Enclosures



# Labadie Power Plant Control Monuments



Designation	Northing	Easting	Elevation
AUELBE-001	990484.82	726569.78	467.19
AUELBE-002	996166.50	727588.30	470.70
AUELBE-003	989921.39	728508.32	467.59
AUELBE-004	994487.79	729353.29	467.02
AUELBE-005	991746.97	731438.28	462.78
AUELBE-006	996729.00	731621.70	467.67



Coordinates are based on:  
The Missouri Coordinate System of 1983  
(East Zone - 2401)  
Converted from Meters to U.S. Feet



Elevations are based on:  
NAVD'88

**AMEREN LABADIE PLANT  
MONUMENT RECOVERY SHEET**

**MONUMENT ID:** AUELBE 001

**DATE SET:** NOVEMBER 2008

**DESCRIPTION OF MONUMENT:** 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 001 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.1 MILE NORTH OF CURVE IN ROAD, AND APPROXIMATELY 0.1 MILE SOUTH OF GRAVEL ENTRANCE. BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS 3.2' WEST OF WEST EDGE OF LABADIE BOTTOM ROAD, 10.5' SOUTH OF NO TRESPASSING SIGN, AND 87.7' NORTH OF NO TRESPASSING SIGN.

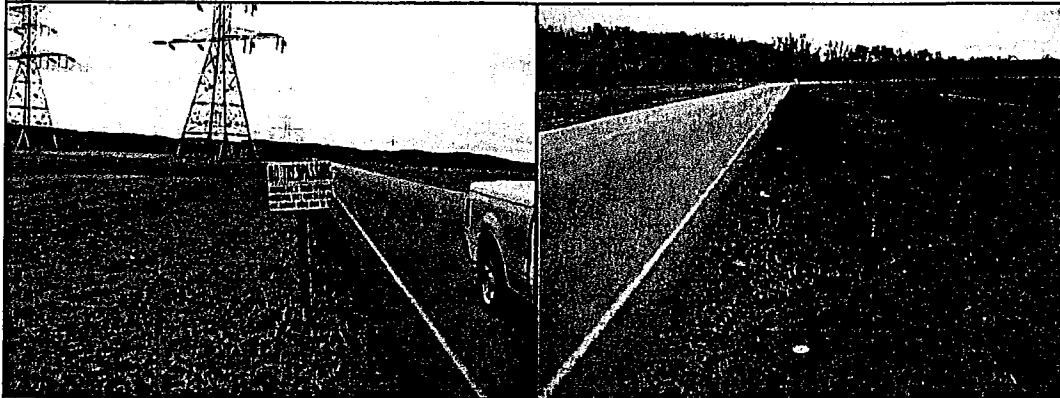
**REMARKS:** TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH AN ORANGE CARSONITE POST.

**PHOTOGRAPHS**

ORIENTATION PHOTO		CLOSE-UP PHOTO	
DATE: NOVEMBER 2008		DATE: NOVEMBER 2008	
DISTANCE FROM MONUMENT: 20'		REMARKS:	
BEARING FROM CAMERA NORTH AND SOUTH			

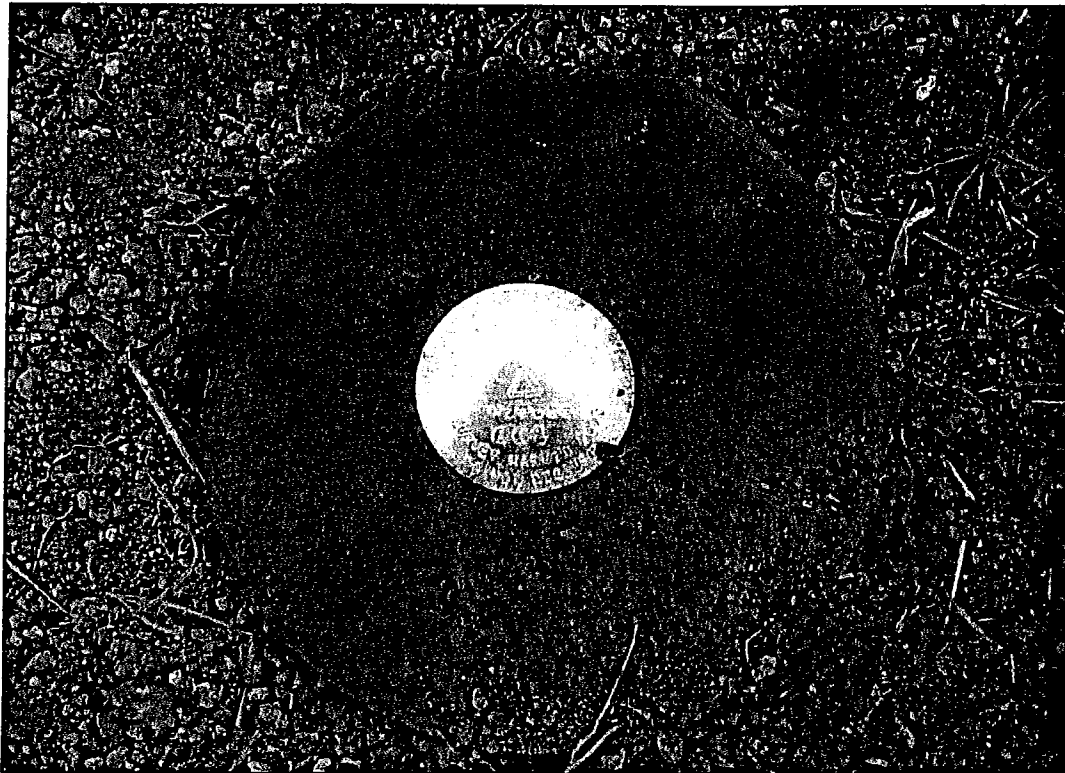
**MONUMENT ID:** AUELBE 001

**DATE:** NOVEMBER 2008



**LOOKING NORTH FROM MONUMENT**

**LOOKING SOUTH FROM MONUMENT**



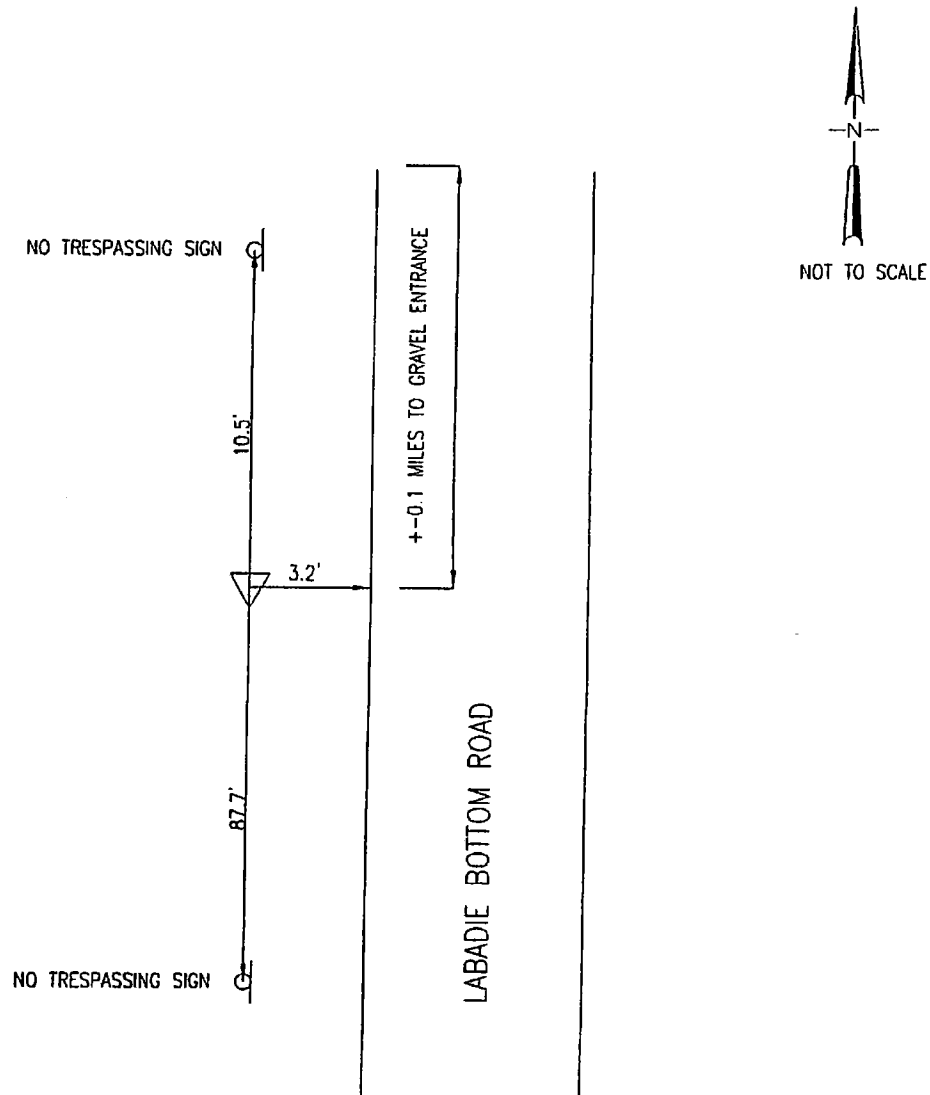
**DESCRIPTION:** 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 001 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.1 MILE NORTH OF CURVE IN ROAD, AND APPROXIMATELY 0.1 MILE SOUTH OF A GRAVEL ENTRANCE, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS 3.2' WEST OF WEST EDGE OF LABADIE BOTTOM ROAD, 10.5' SOUTH OF NO TRESPASSING SIGN, AND 87.7' NORTH OF NO TRESPASSING SIGN. MONUMENT IS WITNESSED BY AN ORANGE CARSONITE POST.

AMEREN LABADIE MONUMENT # 001	MISSOURI STATE PLANE COORDINATES N 990484.82      E 726569.78	ELEVATION 467.19
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# AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE001



**AMEREN LABADIE PLANT  
MONUMENT RECOVERY SHEET**

**MONUMENT ID:** AUELBE 002

**DATE SET:** NOVEMBER 2008

**DESCRIPTION OF MONUMENT:** 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 002 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG DIRT ROAD, APPROXIMATELY 0.3 MILE NORTH OF LABADIE BOTTOM ROAD, BEING NORTHEAST OF EXISTING POWER PLANT. MONUMENT IS 5.0' EAST OF EAST EDGE OF DIRT ROAD, AND 3.5' SOUTHWEST OF PIEZOMETER.

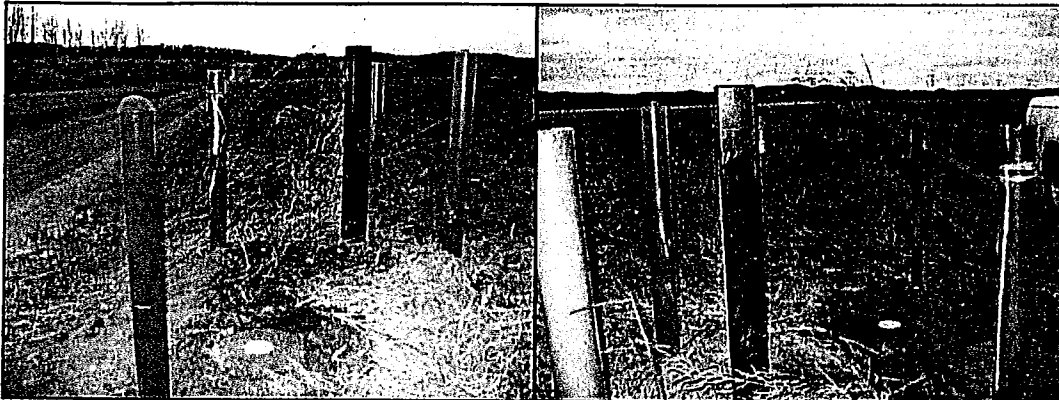
**REMARKS:** TOP OF MONUMENT IS FLUSH WITH GROUND. MONUMENT AND PIEZOMETER ARE SURROUNDED BY FOUR ORANGE BOLLARDS 6" IN DIAMETER.

**PHOTOGRAPHS**

ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: NOVEMBER 2008	DATE: NOVEMBER 2008
DISTANCE FROM MONUMENT: 20'	REMARKS:
BEARING FROM CAMERA: NORTH AND SOUTH	

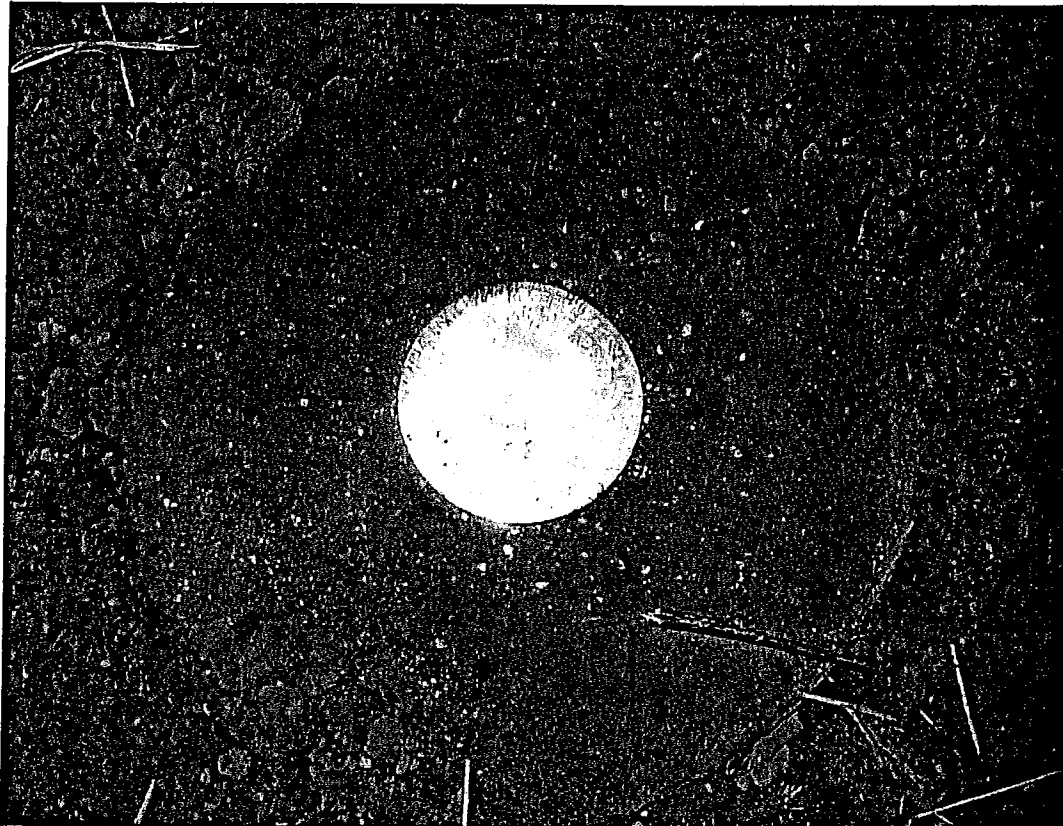
**MONUMENT ID: AUELBE 002**

**DATE: NOVEMBER 2008**



**LOOKING NORTH FROM MONUMENT**

**LOOKING SOUTH FROM MONUMENT**



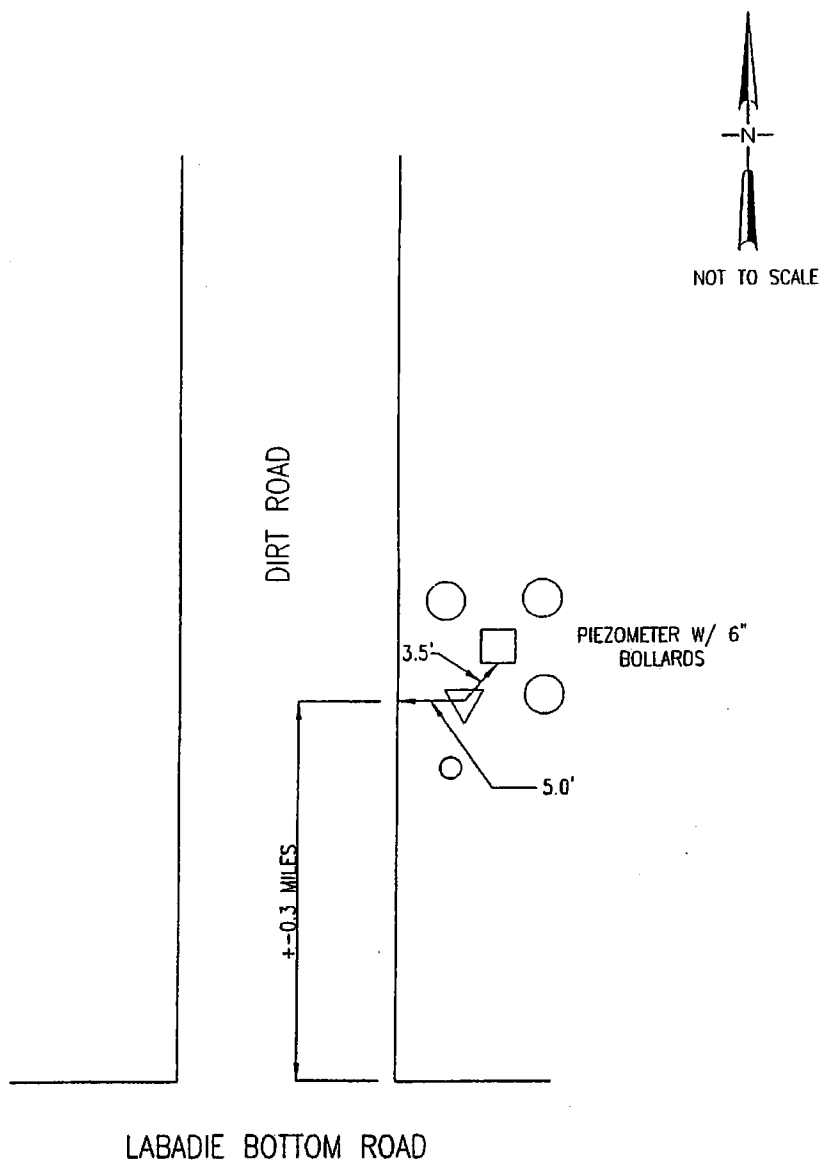
**DESCRIPTION:** 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 002 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG DIRT ROAD, APPROXIMATELY 0.3 MILE NORTH OF LABADIE BOTTOM ROAD, BEING NORTHEAST OF EXISTING POWER PLANT. MONUMENT IS 5.0' EAST OF EAST EDGE OF DIRT ROAD, AND 3.5' SOUTHWEST OF PIEZOMETER. MONUMENT AND PIEZOMETER ARE SURROUNDED BY FOUR ORANGE BOLLARDS 6" IN DIAMETER.

AMEREN LABADIE MONUMENT # 002	MISSOURI STATE PLANE COORDINATES N 996166.50      E 727588.30	ELEVATION 470.70
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# AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE002



**AMEREN LABADIE PLANT  
MONUMENT RECOVERY SHEET**

**MONUMENT ID:** AUELBE 003

**DATE SET:** NOVEMBER 2008

**DESCRIPTION OF MONUMENT:** 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 003 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG A FIELD ROAD, APPROXIMATELY 0.9 MILE SOUTH OF LABADIE BOTTOM ROAD, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS WEST OF WEST EDGE OF FIELD ROAD. APPROXIMATELY 150' SOUTH OF A PIEZOMETER SURROUNDED BY THREE 6" BOLLARDS. AND APPROXIMATELY 280' NORTHWEST OF AN IRON PIN WITH A 2" ALUMINUM CAP.

**REMARKS:** TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH AN ORANGE CARSONITE POST.

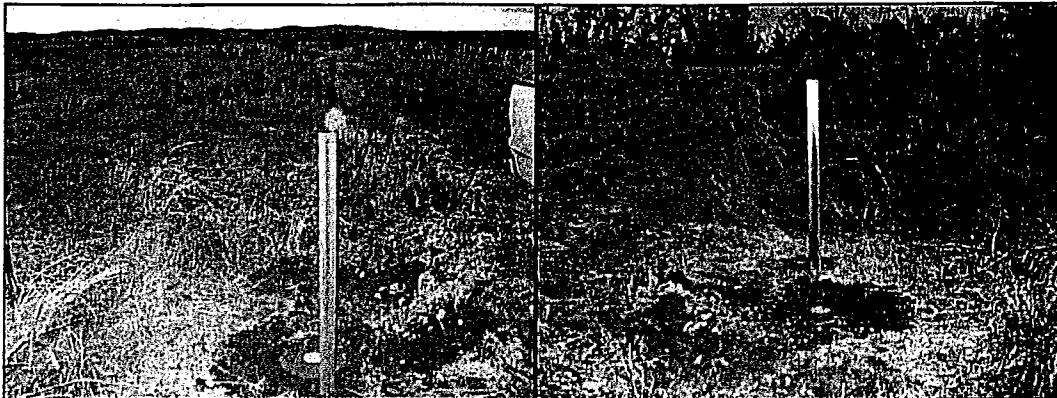
**PHOTOGRAPHS**

PHOTOGRAPHS	
ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: NOVEMBER 2008	DATE: NOVEMBER 2008
DISTANCE FROM MONUMENT: 20'	REMARKS:
BEARING FROM CAMERA NORTH AND SOUTH	



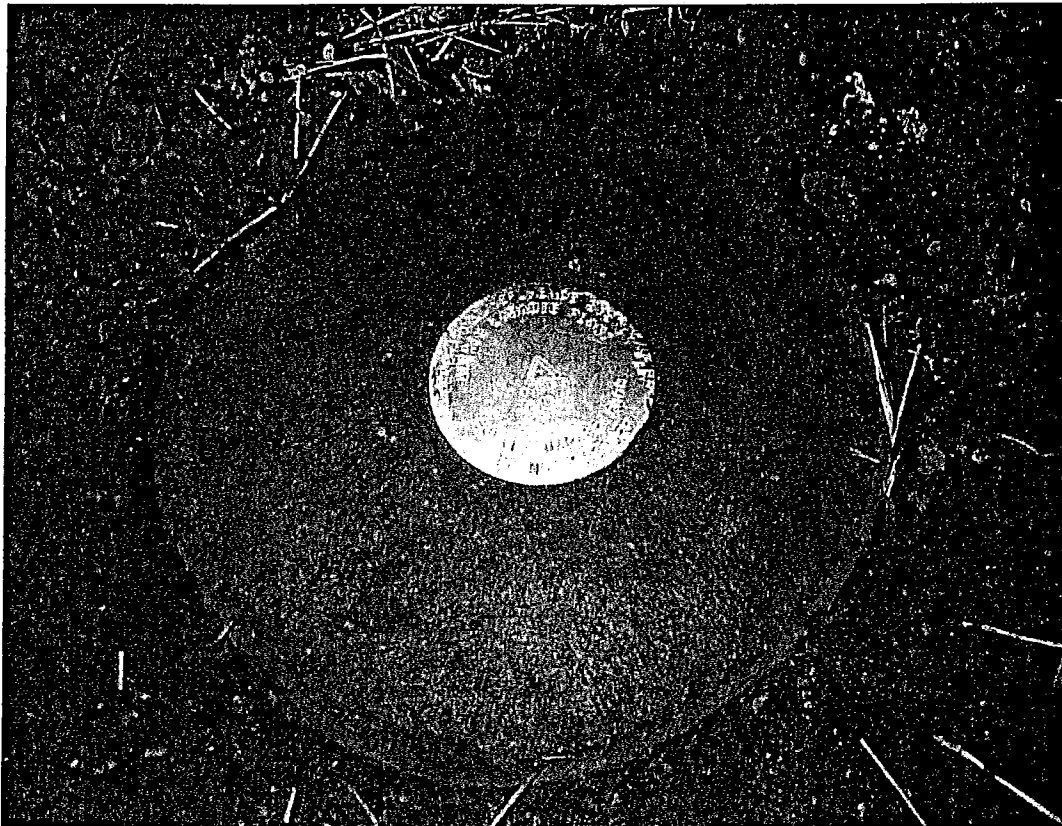
**MONUMENT ID: AUELBE 003**

**DATE: NOVEMBER 2008**



**LOOKING NORTH FROM MONUMENT**

**LOOKING SOUTH FROM MONUMENT**



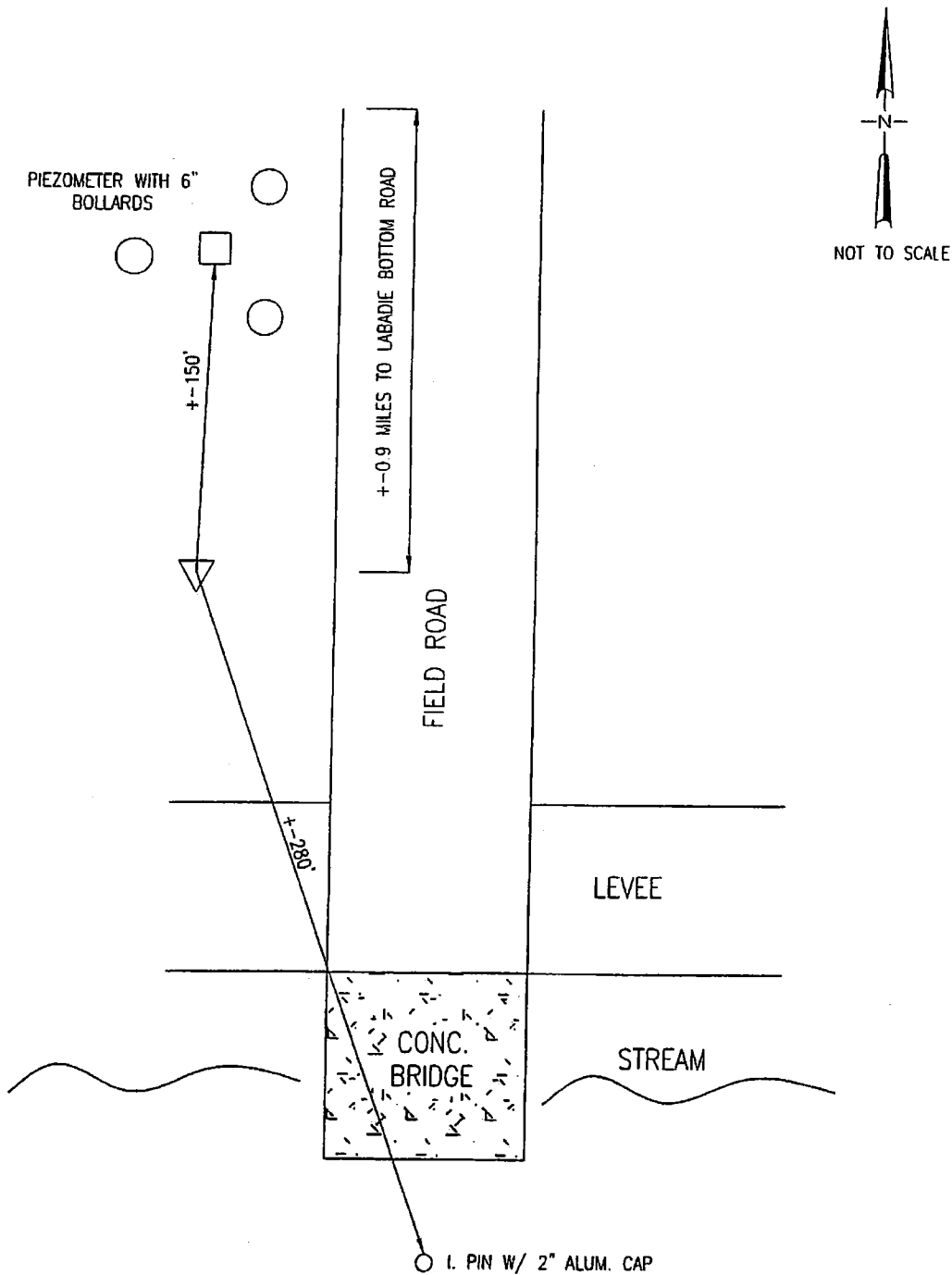
**DESCRIPTION:** 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 003 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG A FIELD ROAD, APPROXIMATELY 0.9 MILE SOUTH OF LABADIE BOTTOM ROAD, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS WEST OF WEST EDGE OF FIELD ROAD, APPROXIMATELY 150' SOUTH OF A PIEZOMETER SURROUNDED BY THREE 6" BOLLARDS, AND APPROXIMATELY 280' NORTHWEST OF AN IRON PIN WITH A 2" ALUMINUM CAP. MONUMENT IS WITNESSED BY AN ORANGE CARSONITE POST.

AMEREN LABADIE MONUMENT # 003	MISSOURI STATE PLANE COORDINATES	ELEVATION
	N 989921.39      E 728508.32	467.59

# AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE003



**AMEREN LABADIE PLANT  
MONUMENT RECOVERY SHEET**

**MONUMENT ID:** AUELBE 004

**DATE SET:** APRIL 2009

**DESCRIPTION OF MONUMENT:** 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 004 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.4 MILE WEST OF DAVIS ROAD, BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' SOUTH OF THE SOUTH EDGE OF LABADIE BOTTOM ROAD AND 705' EAST OF A 42" DIAMETER TREE.

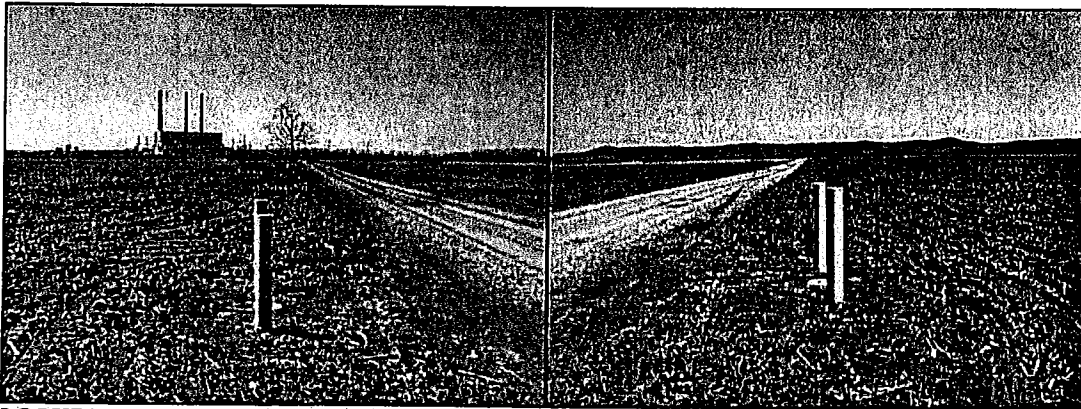
**REMARKS:** TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

**PHOTOGRAPHS**

ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: APRIL 2009	DATE: APRIL 2009
DISTANCE FROM MONUMENT: 20'	REMARKS:
BEARING FROM CAMERA: WEST AND EAST	

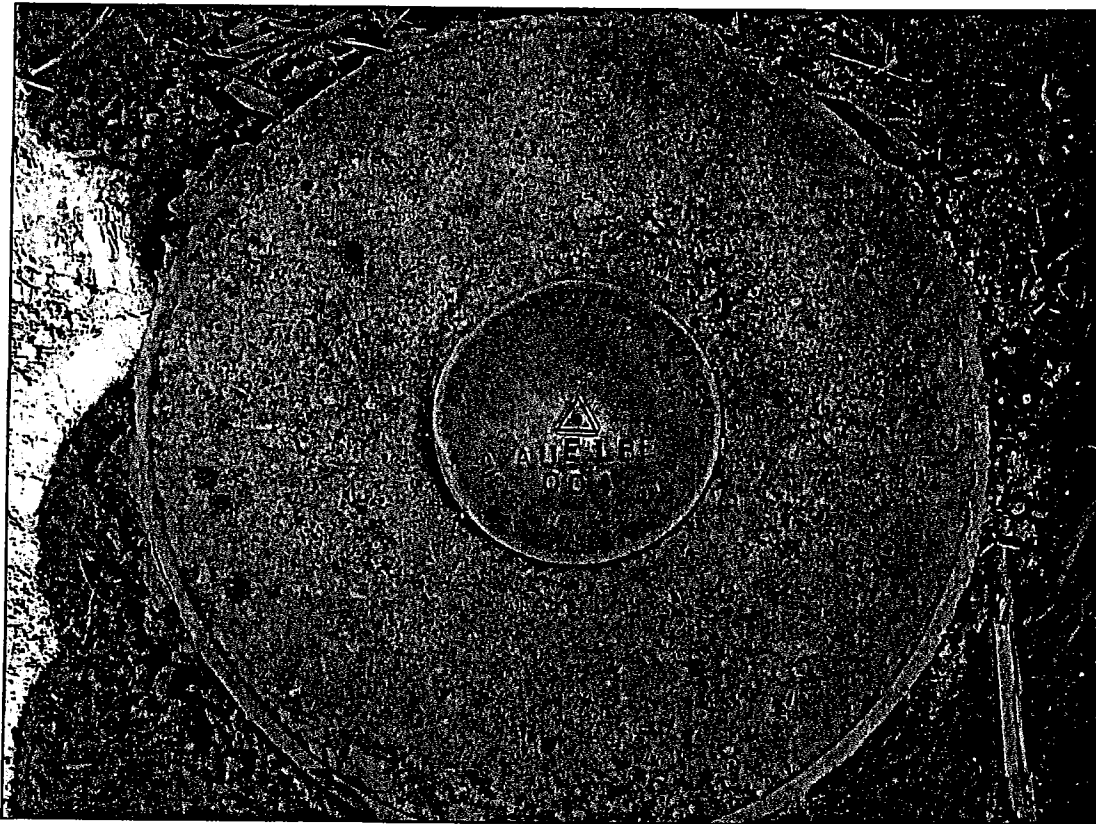
**MONUMENT ID:** AUELBE 004

**DATE:** APRIL 2009



LOOKING WEST FROM MONUMENT

LOOKING EAST FROM MONUMENT



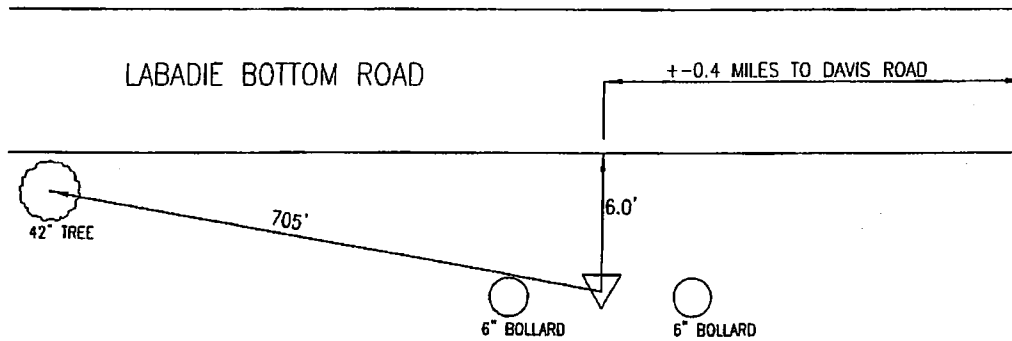
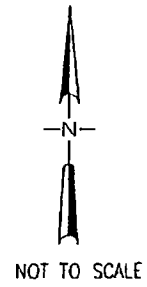
**DESCRIPTION:** 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 004 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.4 MILE WEST OF DAVIS ROAD, BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' SOUTH OF THE SOUTH EDGE OF LABADIE BOTTOM ROAD AND 705' EAST OF A 42" DIAMETER TREE. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE MONUMENT # 004	MISSOURI STATE PLANE COORDINATES N 994487.79      E 729353.29	ELEVATION 467.02
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# AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE004



**AMEREN LABADIE PLANT  
MONUMENT RECOVERY SHEET**

**MONUMENT ID:** AUELBE 005

**DATE SET:** APRIL 2009

**DESCRIPTION OF MONUMENT:** 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 005 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG DAVIS ROAD, APPROXIMATELY 0.5 MILE SOUTH OF LABADIE BOTTOM ROAD, AND APPROXIMATELY 0.25 MILE NORTH OF RAILROAD TRACKS. MONUMENT BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' WEST OF THE WEST EDGE OF DAVIS ROAD, 26.5' NORTH OF THE WEST END OF A 24" CMP, AND 47.1' NORTHWEST OF THE EAST END OF A 24" CMP.

**REMARKS:** TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

**PHOTOGRAPHS**

ORIENTATION PHOTO		CLOSE-UP PHOTO	
DATE: APRIL 2009		DATE: APRIL 2009	
DISTANCE FROM MONUMENT: 20'		REMARKS:	
BEARING FROM CAMERA: SOUTH AND WEST			

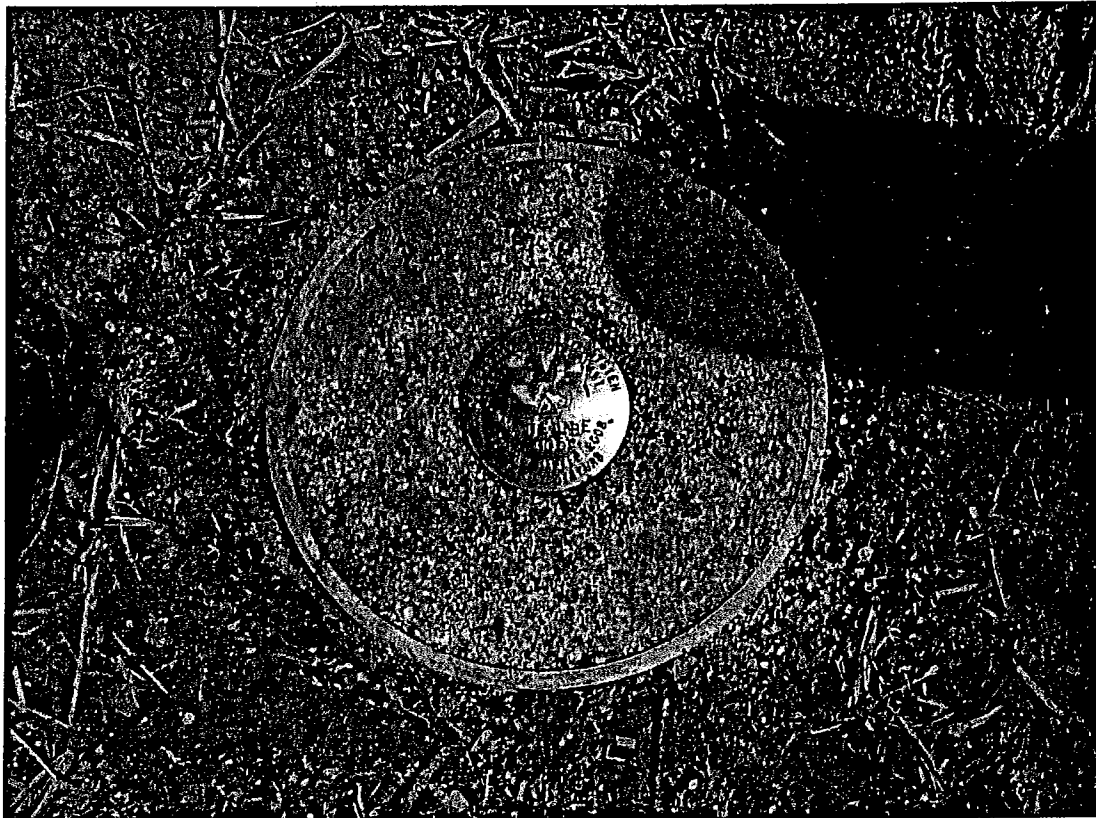
**MONUMENT ID: AUELBE 005**

**DATE: APRIL 2009**



**LOOKING SOUTH FROM MONUMENT**

**LOOKING WEST FROM MONUMENT**



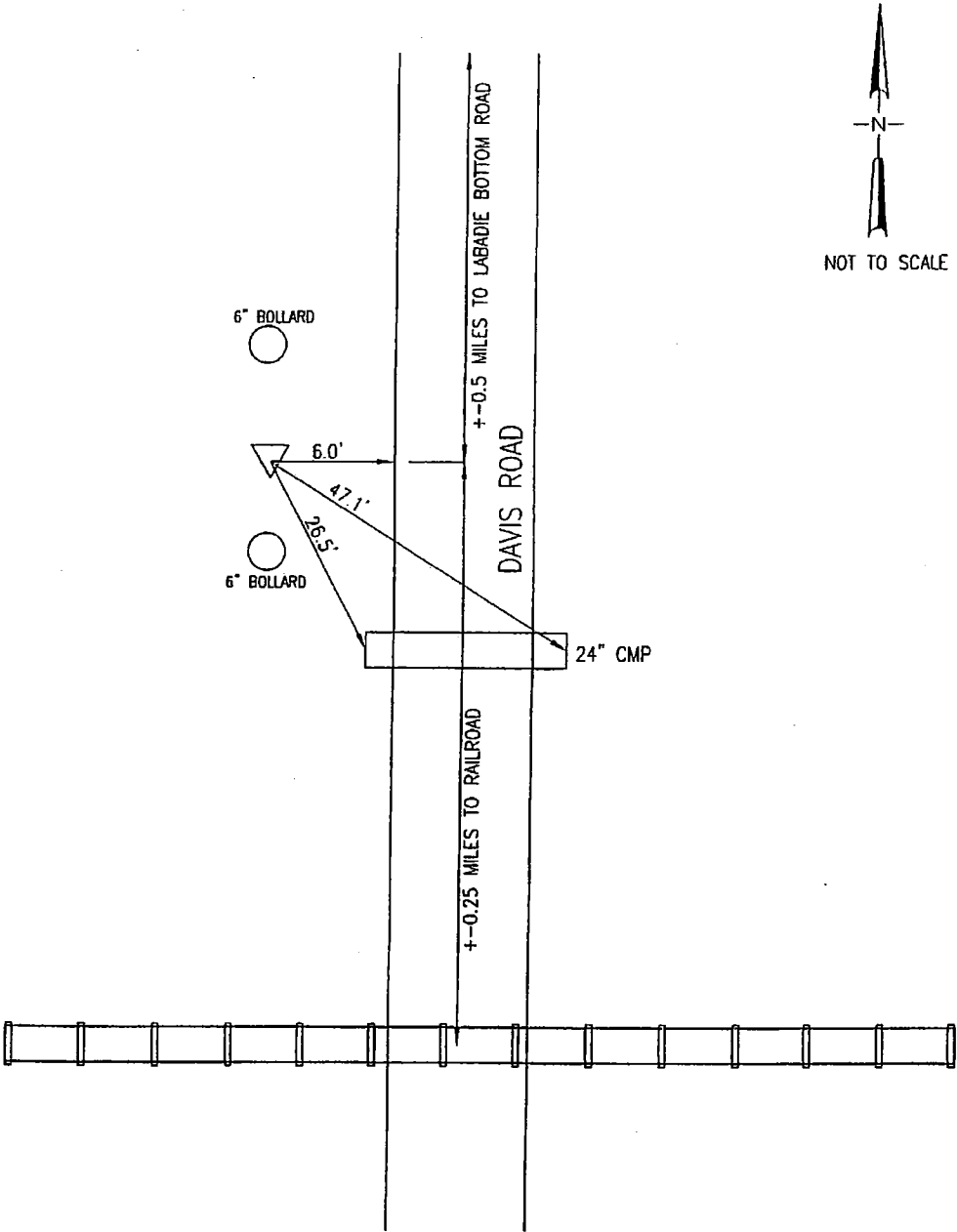
**DESCRIPTION:** 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 005 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG DAVIS ROAD, APPROXIMATELY 0.5 MILE SOUTH OF LABADIE BOTTOM ROAD, AND APPROXIMATELY 0.25 MILE NORTH OF RAILROAD TRACKS. MONUMENT BEING EASTERLY OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' WEST OF THE WEST EDGE OF DAVIS ROAD, 26.5' NORTH OF THE WEST END OF A 24" CMP, AND 47.1' NORTHWEST OF THE EAST END OF A 24" CMP. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE MONUMENT # 005	MISSOURI STATE PLANE COORDINATES N 991746.97 E 731438.28	ELEVATION 462.78
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AMEREN LABADIE  
MONUMENT RECOVERY TIES

AUELBE005





**AMEREN LABADIE PLANT  
MONUMENT RECOVERY SHEET**

**MONUMENT ID:** AUELBE 006

**DATE SET:** APRIL 2009

**DESCRIPTION OF MONUMENT:** 12" DIAMETER CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 006 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG A DIRT ROAD LOCATED APPROXIMATELY 0.5 MILE NORTH FROM THE INTERSECTION OF DAVIS ROAD AND LABADIE BOTTOM ROAD, BEING NORTHEAST OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' EAST OF THE EAST EDGE OF DIRT ROAD, AND APPROXIMATELY 0.15 MILE SOUTH OF THE INTERSECTION WITH ANOTHER DIRT ROAD.

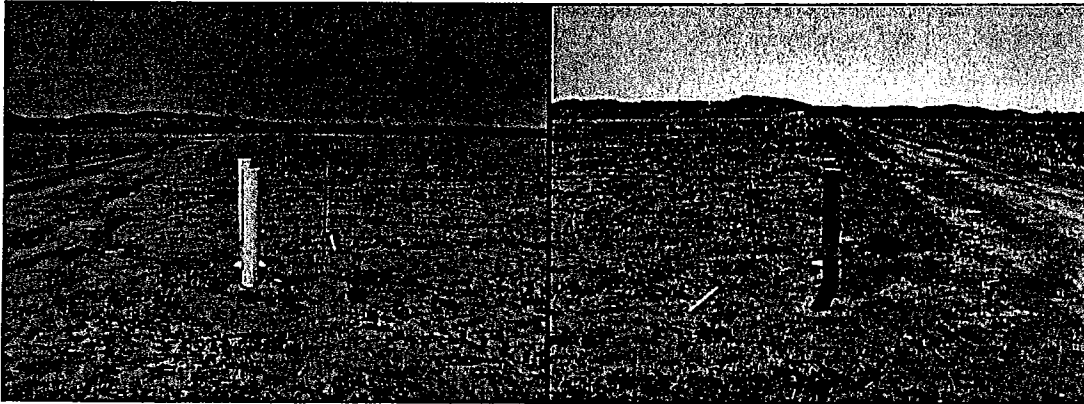
**REMARKS:** TOP OF MONUMENT IS FLUSH WITH GROUND AND MARKED WITH TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

**PHOTOGRAPHS**

ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: APRIL 2009	DATE: APRIL 2009
DISTANCE FROM MONUMENT: 20'	REMARKS:
BEARING FROM CAMERA: NORTH AND SOUTH	

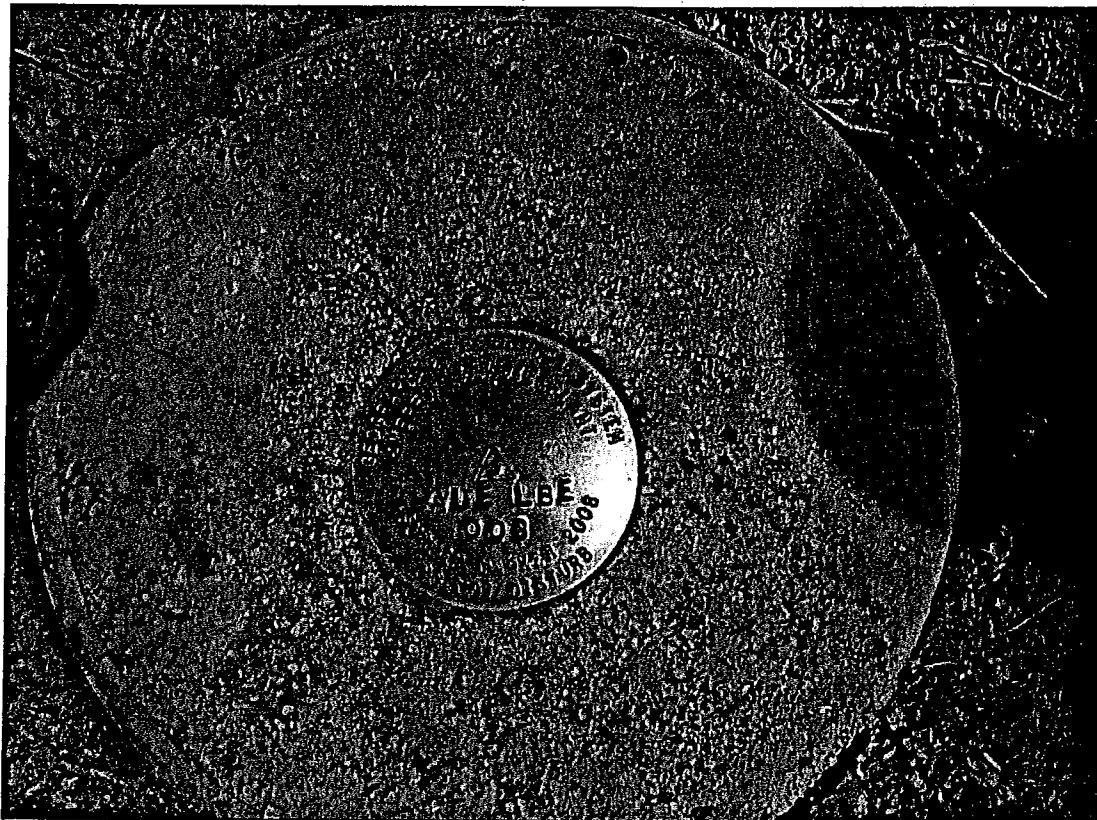
**MONUMENT ID: AUELBE 006**

**DATE: APRIL 2009**



**LOOKING NORTH FROM MONUMENT**

**LOOKING SOUTH FROM MONUMENT**



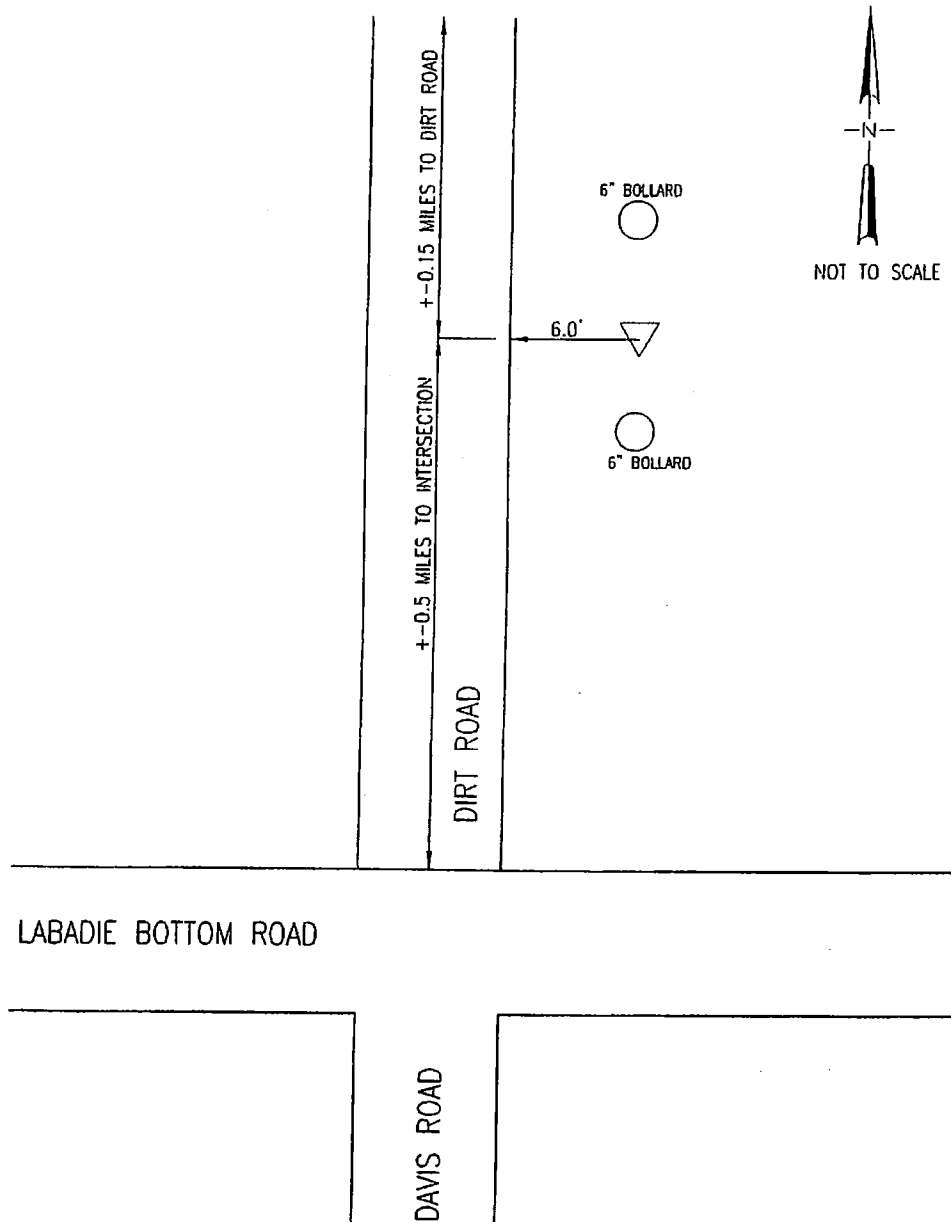
**DESCRIPTION:** 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 006 / 2008 / SURVEY MARKER / DO NOT DISTURB

**LOCATION:** ALONG A DIRT ROAD LOCATED APPROXIMATELY 0.5 MILE NORTH FROM THE INTERSECTION OF DAVIS ROAD AND LABADIE BOTTOM ROAD, BEING NORTHEAST OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' EAST OF THE EAST EDGE OF DIRT ROAD, AND APPROXIMATELY 0.15 MILE SOUTH OF THE INTERSECTION WITH ANOTHER DIRT ROAD. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE MONUMENT # 006	MISSOURI STATE PLANE COORDINATES N 996729.00      E 731621.70	ELEVATION 467.67
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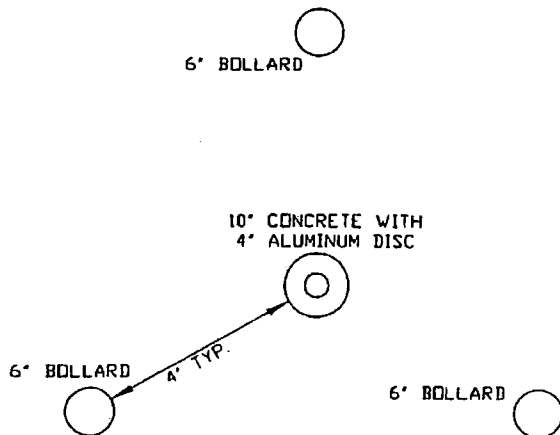
AMEREN LABADIE  
MONUMENT RECOVERY TIES

AUELBE006

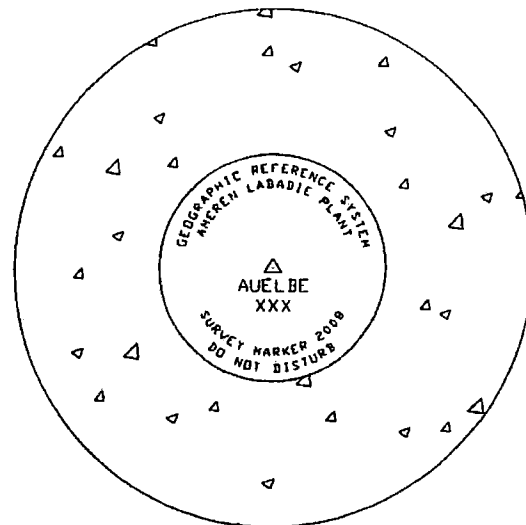
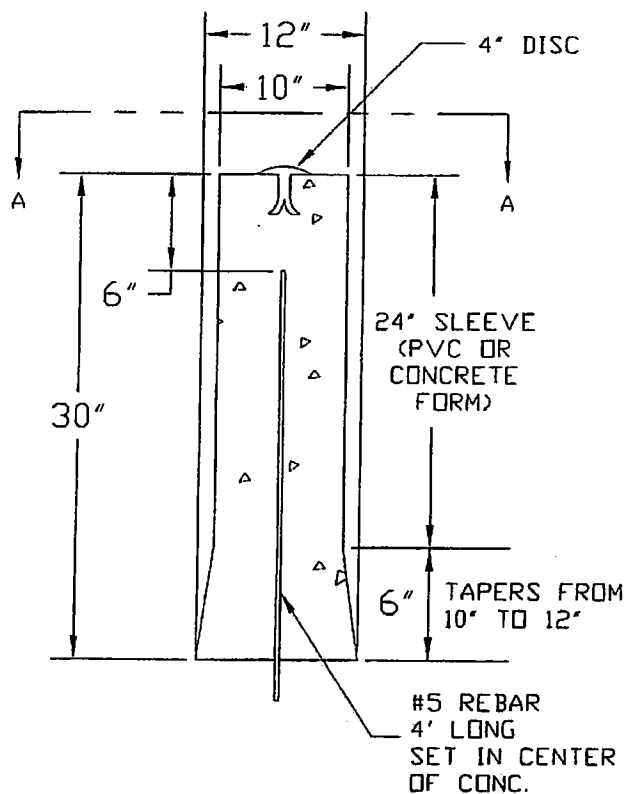
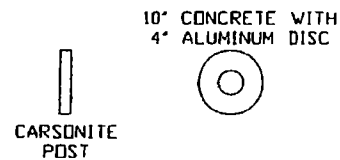


# AMEREN LABADIE PLANT GRS CONTROL MONUMENT

ON-SITE  
VIEW FROM ABOVE



OFF-SITE  
VIEW FROM ABOVE



SECTION A-A

DATE:  
1-8-09

SHEET 1 OF 1

**KdG**

Kuhlmann  
Design  
Group, Inc.

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66 Progress Parkway  
St. Louis, Missouri 63043-3706  
Tel: (314) 621-8898  
(618) 234-8898

St. Louis, Missouri  
Belleville, Illinois

## Mike Carlson

---

**From:** Tom Gredell  
**Sent:** Thursday, June 25, 2009 8:01 AM  
**To:** Mike Carlson; Theron Broadfoot; Bill Adams  
**Cc:** Tom Gredell  
**Subject:** FW: Labadie Survey Monument Record Book  
**Attachments:** Labadie Survey Monument Book -061109.pdf

FYI – all of you may need to be aware of this information at some point in time. Please see that a hard copy and an electronic copy are filed in the Labadie file where it can be retrieved over the next three to four years (the anticipated length of the Labadie Project).

Thomas R. Gredell, P.E.  
GREDELL Engineering Resources, Inc.  
573-659-9078 (office)  
866-892-0727 (office - toll free)  
573-659-9079 (fax)  
573-645-9078 (cell phone)  
[tomg@ger-inc.biz](mailto:tomg@ger-inc.biz) (e-mail)

---

**From:** Paul Reitz [<mailto:preitz@reitzjens.com>]  
**Sent:** Wednesday, June 24, 2009 8:35 AM  
**To:** Thee, JoAnn ; Tom Gredell  
**Cc:** Jeff Fouse; Michael Fink  
**Subject:** Labadie Survey Monument Record Book

KdG prepared the attached book for use at the Labadie UWL. A hard copy will be given to JoAnn later today. If you have questions let me know.

Paul H. Reitz, P.E., C.F.M.  
Principal  
Reitz & Jens, Inc.

Visit us on the web at [www.ReitzJens.com](http://www.ReitzJens.com)



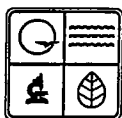
Please consider the environment before printing.

# **Appendix 7**

## **Certification Records**

Detailed Site Investigation  
Proposed Utility Waste Disposal Area  
Ameren Labadie Power Plant

Prepared by: GREDELL Engineering Resources, Inc.

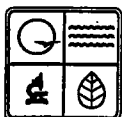


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>9</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST			
LOCATION OF WELL Lat. 38 ° 34 ' 8 " N Long. 90 ° 49 ' 33 " W				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>4 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.85 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other BENTONITE SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH FROM TO		FORMATION DESCRIPTION	
PRIMARY FILTER PACK LENGTH <b>13.5 ft.</b> DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b> SECONDARY FILTER PACK LENGTH <b>2.0 ft.</b>		ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>16.3 ft.</b>		WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>4" ft.</b> DIAMETER OF DRILL HOLE <b>10.3 in.</b> DEPTH TO TOP OF SCREEN <b>24.5 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		Silt and VF sand	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes		TD: 35ft		Fine Sand	
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.		DATE WELL DRILLING WAS COMPLETED <b>10-22</b>		PERMIT NUMBER <b>2876M</b>		Coarse Sand	
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>		SIGNATURE (WELL DRILLER) <i>[Signature]</i>		SIGNATURE (APPRENTICE) <i>[Signature]</i>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.		PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>		TOTAL DEPTH:	

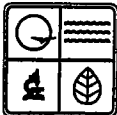


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		STATE WELL NUMBER	
ENTERED		APPROVED BY	
PH1	PH2	PH3	DATE
ROUTE			

<b>INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR</b>																					
OWNER NAME <b>Ameren</b>					WELL NUMBER <b>12</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.														
OWNER ADDRESS <b>1901 Chouteau Ave.</b>				CITY <b>St. Louis</b>		STATE <b>MO</b>		ZIP CODE <b>63166</b>													
SITE NAME <b>Labadie Power Plant</b>					CONTACT NAME <b>Paul Pike</b>																
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>					CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>												
PROPOSED USE OF WELL					TYPE OF POTENTIAL SITE		MONITORING FOR: (CHECK ALL THAT APPLY)														
<input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring					<input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill		<input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only														
<input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers					<input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T.		<input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC														
					<input type="checkbox"/> Water Level Drawdown		<input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides														
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST    LARGEST															
LOCATION OF WELL						Section 17    Township 44 North    Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West															
Lat. 38    °    34    '    11    "																					
Long. 90    °    49    '    17    "																					
TYPE OF SURFACE COMPLETION		<input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other											
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL <b>3 ft.</b>		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips					
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK										DEPTH		FORMATION DESCRIPTION					
				<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										FROM		TO					
				<input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No										10		10					
														25		25					
														35		35					
PRIMARY FILTER PACK		LENGTH <b>12.8 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.0 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>															
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry		<input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used		<input type="checkbox"/> % of Bentonite Used		<input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.5 ft.</b>											
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>23.5 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other											
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No    Pump Installed for Remediation <input type="checkbox"/> Yes																					
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																					
STATIC WATER LEVEL <b>NA</b> FEET FROM MEASURING POINT														DATE WELL DRILLING WAS COMPLETED <b>9-18</b>							
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>														PERMIT NUMBER <b>2876M</b>							
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																					
SIGNATURE (WELL DRILLER) <i>[Signature]</i>														PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE) <i>[Signature]</i>														PERMIT NUMBER		DATE		TOTAL DEPTH:			





MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

15

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY  
Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCs

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38° 34' 6"

Long. 90° 49' 32"

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground  
☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING  
5 ft.

DIAMETER OF  
PROTECTIVE CASING  
4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED  
12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel  
☐ Aluminum  
☐ Plastic

LOCKING CAP?  
☒ Yes  
☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in. ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete  
☐ Other

RISER  
PIPE  
DETAIL

LENGTH  
28 ft.

DIAMETER  
2 in.

WEIGHT  
OR SDR#  
40

DIAMETER OF  
DRILL HOLE  
0.69 ft.

MATERIAL  
☐ Steel ☒ Thermoplastic (PVC)  
☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL  
3 ft.

MATERIAL  
☒ Slurry ☐ Pellets  
☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No  
☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM TO  
0 11.5  
11.5 25  
25 35

FORMATION DESCRIPTION

Clay and Silt  
Fine Sand  
Medium Sand

PRIMARY  
FILTER  
PACK

LENGTH  
12.7 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK  
22.3 ft.

SECONDARY FILTER PACK LENGTH  
1.5 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

17.8 ft.

WELL  
SCREEN

LENGTH  
10 ft.

DIAMETER  
2" ft.

DIAMETER  
OF DRILL  
HOLE  
8.25 in.

DEPTH TO  
TOP OF  
SCREEN  
24.7 ft.

MATERIAL  
☐ Steel ☒ Thermoplastic (PVC)  
☐ Other

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-18

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:

TD:  
35ft

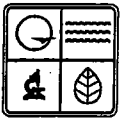


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>			DATE RECEIVED		
REF NO.			CHECK NO.		
CR NO.			REVENUE NO.		
STATE WELL NUMBER			APPROVED BY		
ENTERED			DATE		
Ph1 Ph2 Ph3			ROUTE		

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>17</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST			
LOCATION OF WELL Lat. 38 ° 34 ' 6 " NW Long. 90 ° 49 ' 21 "				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO <b>0 4.6</b> <b>4.6 35</b>	
PRIMARY FILTER PACK LENGTH <b>12.6 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.4 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>			
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.9 ft.</b>		FORMATION DESCRIPTION <b>Clay and Silt Fine Sand</b>			
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-18</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>	
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE	
TOTAL DEPTH:							

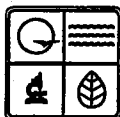


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>19</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	
PROPOSED USE OF WELL				TYPE OF POTENTIAL SITE		MONITORING FOR: (CHECK ALL THAT APPLY)	
<input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring				<input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill		<input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only	
<input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				<input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T.		<input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC	
				<input type="checkbox"/> Water Level Drawdown		<input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST LARGEST	
LOCATION OF WELL				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
Lat. 38° 34' 7"		Long. 90° 49' 14"					
TYPE OF SURFACE COMPLETION		<input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	
				DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	
LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
				DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other	
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>	
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	
				BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>	
						MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
				SECONDARY FILTER PACK		DEPTH	
				<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		FROM TO	
				<input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		0 7	
PRIMARY FILTER PACK		LENGTH <b>13.7 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.1 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>	
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry		LENGTH <b>16.9 ft.</b>		20 30	
		<input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used				30 35	
		<input type="checkbox"/> % of Bentonite Used					
		<input checked="" type="checkbox"/> Water Used/Bag 25 gal.					
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>	
				DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10-19</b>			
SIGNATURE (PRIMARY CONTRACTOR)				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER)				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>20</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.					
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>							
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>			
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38    °    34    '    2    " Long. 90   °    49    '    36    "				Section 17    Township 44 North    Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West							
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____	
RISER PIPE DETAIL GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	
						BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
										FORMATION DESCRIPTION <b>Clay and Silt Very Fine - Fine Sand</b>	
PRIMARY FILTER PACK LENGTH <b>12.8 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.0 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.9 ft.</b>							
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>17.1 ft.</b>							
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No        Pump Installed for Remediation <input type="checkbox"/> Yes											
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.											
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>						DATE WELL DRILLING WAS COMPLETED <b>9-18</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>						PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.											
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE		TOTAL DEPTH:			



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

APPROVED BY

DATE

ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

22

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCs

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 34 ' 2.2 "

Long. 90 ° 49 ' 26.4 "

Section 17 Township 44 North Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

6x6 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

4 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.85 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

PRIMARY  
FILTER  
PACK

LENGTH

14 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.5 ft.

SECONDARY FILTER PACK LENGTH

1.7 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

16.8

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

4" ft.

DIAMETER OF  
DRILL HOLE

10.3 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

\_\_\_\_ FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

10-07

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

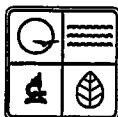
DATE

TOTAL DEPTH:

TD:  
35ft

FORMATION DESCRIPTION

Fine sand, silt & clay  
Very fine sand, fine sand,  
silt, and clay  
Coarse sand, medium sand  
fine sand, trace gravel



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

APPROVED BY

DATE

ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>24</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>	STATE <b>MO</b>	

SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>		
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>

PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers		TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown	MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides
--	--	---	---

AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____	
LOCATION OF WELL Lat. 38 ° 34 ' 2 " NW Long. 90 ° 49 ' 18 " NW			Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West	

TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	---	---	--	--	--

WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
--	---	-------------------------------------	---------------------------------------	---	--

RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

PRIMARY FILTER PACK	LENGTH <b>13.0 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.0 ft.</b>	SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>	FORMATION DESCRIPTION <b>Clay and Silt Fine - Medium Sand Coarse Sand</b>
	ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>17.8 ft.</b>			

WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____
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Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes	
--	--	---	--

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.	
---	--

STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>	DATE WELL DRILLING WAS COMPLETED <b>9-18</b>
---	---

SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>	PERMIT NUMBER <b>2876M</b>
--	-------------------------------

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.	
--	--

SIGNATURE (WELL DRILLER) <i>[Signature]</i>	PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>
SIGNATURE (APPRENTICE) <i>[Signature]</i>	PERMIT NUMBER	DATE

TD:  
35ft

**TOTAL DEPTH:**

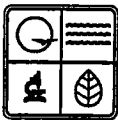


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		<b>DATE RECEIVED</b>	
<b>REF. NO.</b>			
<b>C.R. NO.</b>		<b>CHECK NO.</b>	
<b>STATE WELL NUMBER</b>		<b>REVENUE NO.</b>	
<b>ENTERED</b>	<b>APPROVED BY</b>	<b>DATE</b>	<b>ROUTE</b>
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

<b>OWNER NAME</b> Ameren				<b>WELL NUMBER</b> 27		<b>VARIANCE GRANTED BY DNR</b> <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
<b>OWNER ADDRESS</b> 1901 Chouteau Ave.			<b>CITY</b> St. Louis		<b>STATE</b> MO	<b>ZIP CODE</b> 63166		
<b>SITE NAME</b> Labadie Power Plant				<b>CONTACT NAME</b> Paul Pike				
<b>SITE ADDRESS</b> 226 Labadie Power Plant Rd., MC LBD-645				<b>CITY</b> Labadie		<b>STATE</b> MO	<b>ZIP CODE</b> 63055	
<b>PROPOSED USE OF WELL</b> <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				<b>TYPE OF POTENTIAL SITE</b> <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		<b>MONITORING FOR: (CHECK ALL THAT APPLY)</b> <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
<b>AREA</b> 1	<b>COUNTY</b> Franklin	<b>ELEVATION</b> @465'		<b>SMALLEST</b> _____ <b>LARGEST</b> _____				
<b>LOCATION OF WELL</b> Lat. 38 _____ ° 33 _____ ' 59 _____ " Long. 90 _____ ° 49 _____ ' 31 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
<b>TYPE OF SURFACE COMPLETION</b> <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		<b>LENGTH OF PROTECTIVE CASING</b> 5 ft.		<b>DIAMETER OF PROTECTIVE CASING</b> 4x4 in.	<b>DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED</b> 12 in. 2 ft.	<b>PROTECTIVE CASING MATERIAL</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	<b>LOCKING CAP?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>WEEP HOLE?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>VENTED CAP?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>LENGTH OF FLUSH MOUNT</b> ft.	<b>DIAMETER OF FLUSH MOUNT</b> ft.	<b>DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED</b> in. ft.		<b>SURFACE COMPLETION GROUT</b> <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
<b>RISER PIPE DETAIL</b>	<b>LENGTH</b> 28 ft.	<b>DIAMETER</b> 2 in.	<b>WEIGHT OR SDR#</b> 40	<b>DIAMETER OF DRILL HOLE</b> 0.69 ft.	<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	<b>BENTONITE SEAL</b>	<b>LENGTH OF SEAL</b> 3 ft.	<b>MATERIAL</b> <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	<b>GLUED</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>SECONDARY FILTER PACK</b> <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			<b>DEPTH</b> <b>FROM</b> 0 <b>TO</b> 10 10 21 21 35		<b>FORMATION DESCRIPTION</b> Clay and Silt Very Fine Sand Fine Sand
<b>PRIMARY FILTER PACK</b>	<b>LENGTH</b> 13.3 ft.	<b>DEPTH TO TOP OF PRIMARY FILTER PACK</b> 21.9 ft.		<b>SECONDARY FILTER PACK LENGTH</b> 1.6 ft.				
<b>ANNULAR SEAL</b>	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				<b>LENGTH</b> 17.3 ft.			
<b>WELL SCREEN</b>	<b>LENGTH</b> 10 ft.	<b>DIAMETER</b> 2" ft.	<b>DIAMETER OF DRILL HOLE</b> 8.25 in.	<b>DEPTH TO TOP OF SCREEN</b> 24.9 ft.	<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
<b>Multiple Cased Wells</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Pump Installed for Remediation</b> <input type="checkbox"/> Yes						<b>TD:</b> 35ft		
<b>Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.</b>								
<b>STATIC WATER LEVEL</b> NA FEET FROM MEASURING POINT				<b>DATE WELL DRILLING WAS COMPLETED</b> 9-18				
<b>SIGNATURE (PRIMARY CONTRACTOR)</b> 				<b>PERMIT NUMBER</b> 2876M				
<b>I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.</b>								
<b>SIGNATURE (WELL DRILLER)</b> 			<b>PERMIT NUMBER</b> 2836	<b>DATE</b> 10-12-09				
<b>SIGNATURE (APPRENTICE)</b> 			<b>PERMIT NUMBER</b>	<b>DATE</b>				
<b>TOTAL DEPTH:</b>								



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1 Ph2 Ph3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>29</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.													
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>											
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>															
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>											
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides											
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____													
LOCATION OF WELL Lat. 38 _____ ° 34 _____ ' 0 _____ " NW _____ Long. 90 _____ ° 49 _____ ' 20 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West															
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____									
RISER PIPE DETAIL GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips			
		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH <b>0</b>		TO <b>10.2</b>		FORMATION DESCRIPTION <b>Clay and Silt Blue Clay Clay-Silt-Very Fine Sand Fine Sand Coarse Sand</b>											
PRIMARY FILTER PACK <b>12.7 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.8 ft.</b>		WELL SCREEN <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes																			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																			
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>																			
DATE WELL DRILLING WAS COMPLETED <b>9-18</b>																			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>																			
PERMIT NUMBER <b>2876M</b>																			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																			
SIGNATURE (WELL DRILLER) <i>[Signature]</i>																			
PERMIT NUMBER <b>2836</b>																			
DATE <b>10-12-09</b>																			
SIGNATURE (APPRENTICE) <i>[Signature]</i>																			
TOTAL DEPTH:																			



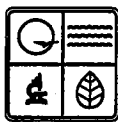


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO		CHECK NO	
STATE WELL NUMBER		REVENUE NO	
ENTERED	APPROVED BY	DATE	ROUTE
PH1	PH2	PH3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

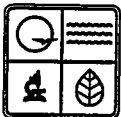
OWNER NAME <b>Ameren</b>				WELL NUMBER <b>31</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 57      " Long. 90     ° 49      ' 34      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in.      ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM      TO	
PRIMARY FILTER PACK LENGTH <b>13.8 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.2 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>		FORMATION DESCRIPTION	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.0 ft.</b>		21      32		Sand w/Plastic Clay	
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes		TD: 35ft	
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

<b>INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR</b>													
OWNER NAME <b>Ameren</b>					WELL NUMBER <b>33</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.						
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>		ZIP CODE <b>63166</b>						
SITE NAME <b>Labadie Power Plant</b>					CONTACT NAME <b>Paul Pike</b>								
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>					CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>				
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides							
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____							
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 56 _____ " Long. 90 _____ ° 49 _____ ' 27 _____ "						Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West							
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____			
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips									
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No								DEPTH FROM TO <b>0 11.6</b> <b>11.6 26.5</b> <b>26.5 35</b>		FORMATION DESCRIPTION <b>Clay and Silt</b> <b>Fine Sand</b> <b>Coarse Sand</b>	
PRIMARY FILTER PACK		LENGTH <b>13.1 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>							
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.5 ft.</b>									
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes										TD: <b>35ft</b>			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.													
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>						DATE WELL DRILLING WAS COMPLETED <b>9-18</b>							
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>						PERMIT NUMBER <b>2876M</b>							
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.													
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>							
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE		TOTAL DEPTH:					



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY  
REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

PH1

PH2

PH3

APPROVED BY

DATE

ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

35

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 57 "

Long. 90 ° 49 ' 18 "

Section 17 Township 44 North Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

PRIMARY  
FILTER  
PACK

LENGTH

12.4 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

20.6 ft.

SECONDARY FILTER PACK LENGTH

1.3 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

16.3 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

22.7 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-18

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

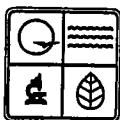
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

APPROVED BY

DATE

ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

36

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 34 ' 0 "

Long. 90 ° 49 ' 15 "

Section 17 Township 44 North Range 2

☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in. ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated ☒ Yes ☐ No

☐ Both Zones

If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

10

32

35

FORMATION DESCRIPTION

Clay and Silt  
Fine Sand  
Medium Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.3 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

22.0 ft.

SECONDARY FILTER PACK LENGTH

2.0 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

17.0

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

25.0 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-18

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

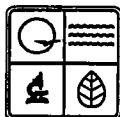
10-12-09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:

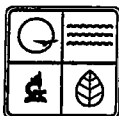


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>38</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38    °    33    '    52    " Long. 90   °    49    '    31    "				Section 17    Township    44    North    Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in.    ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL LENGTH <b>27 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.69 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL LENGTH OF SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips					
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH FROM    TO <b>0    15</b>			
PRIMARY FILTER PACK LENGTH <b>13.1 ft.</b> DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b> SECONDARY FILTER PACK LENGTH <b>2 ft.</b>		ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>16.3 ft.</b>		FORMATION DESCRIPTION <b>Interbedded Silt, Clay and Fine Sand Fine Sand Fine, Medium and Coarse Sand</b>			
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>24.3 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No    Pump Installed for Remediation <input type="checkbox"/> Yes		TD: <b>35ft</b>			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-22</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>10/12/09</b>			
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE		TOTAL DEPTH:	



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

CR NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

40

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 53 "

Long. 90 ° 49 ' 23 "

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry

☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated ☒ Yes ☐ No

☐ Both Zones

If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

15

15

20

20

35

FORMATION DESCRIPTION

Interbedded Clay, Silt, VF  
Sand

Fine Sand

Medium - Coarse Sand

PRIMARY  
FILTER  
PACK

LENGTH

14.3 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

20.5 ft.

SECONDARY FILTER PACK LENGTH

1.7 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

15.8

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.5 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

10-16

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-26-09

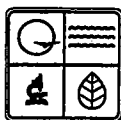
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

TOTAL DEPTH:

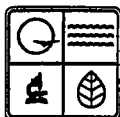


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>42</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.											
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>									
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>													
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>									
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides									
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____											
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 52 _____ " Long. 90 _____ ° 49 _____ ' 15.3 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West													
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6x6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No													
PRIMARY FILTER PACK		LENGTH <b>14 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>				SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>				DEPTH FROM TO <b>0 8</b> <b>8 20</b> <b>20 35</b>		FORMATION DESCRIPTION <b>Fine sand, silt &amp; clay Very fine sand, fine sand, silt, and clay Coarse sand, medium sand fine sand, trace gravel</b>			
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>17 ft.</b>											
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes																	
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																	
STATIC WATER LEVEL _____ FEET FROM MEASURING POINT								DATE WELL DRILLING WAS COMPLETED <b>10-06</b>									
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>								PERMIT NUMBER <b>2876M</b>									
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																	
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>		TOTAL DEPTH:									
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE											



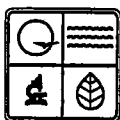
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1 Ph2 Ph3			

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>43</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.							
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>					
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>									
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>					
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides					
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____							
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 51 _____ " Long. 90 _____ ° 49 _____ ' 36 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West									
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____			
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No											
PRIMARY FILTER PACK LENGTH <b>13.0 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.8 ft.</b>				SECONDARY FILTER PACK LENGTH <b>1.7 ft.</b>							
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>											
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____					
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes													
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.													
STATIC WATER LEVEL NA FEET FROM MEASURING POINT						DATE WELL DRILLING WAS COMPLETED <b>9-18</b>							
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>						PERMIT NUMBER <b>2876M</b>							
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.													
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>							
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE							
TOTAL DEPTH: <b>35ft</b>													

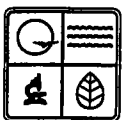




MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

<b>INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR</b>									
OWNER NAME <b>Ameren</b>					WELL NUMBER <b>45</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 51 _____ " Long. 90 _____ ° 49 _____ ' 27 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____	
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO <b>0 15</b> <b>15 25</b> <b>25 35</b>		FORMATION DESCRIPTION <b>Clay and Silt</b> <b>Very Fine Sand</b> <b>Fine Sand</b>
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.9 ft.</b>				
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>16.6 ft.</b>				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-18</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE					
TOTAL DEPTH: <b>TD: 35ft</b>									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY  
REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

47

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 50 "  
Long. 90 ° 49 ' 19 "

Section 17 Township 44 North Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM TO

0 7.2  
7.2 22  
22 35

FORMATION DESCRIPTION

Clay and Silt  
Very Fine Sand  
Coarse Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.1 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.8 ft.

SECONDARY FILTER PACK LENGTH

1.4 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

17.4 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-18

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

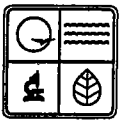
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

APPROVED BY

DATE

ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

49

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 52 "

Long. 90 ° 49 ' 9 "

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated ☒ Yes ☐ No

☐ Both Zones

If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

15

27

35

FORMATION DESCRIPTION

Interbedded Clay, Silt, VF  
Sand  
Fine Sand  
Coarse Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.7 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.3 ft.

SECONDARY FILTER PACK LENGTH

1.8 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

16.5 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.7 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

10-19

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

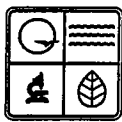
10-26-07

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:

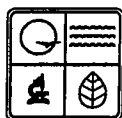


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>51</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 51 _____ " Long. 90 _____ ° 49 _____ ' 3 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 10</b>			FORMATION DESCRIPTION <b>Interbedded Clay, Silt, VF Sand Fine Sand</b>
PRIMARY FILTER PACK	LENGTH <b>14.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>20.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2.0 ft.</b>		10 35			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>15.7 ft.</b>					
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE			
TOTAL DEPTH:									

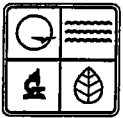


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>53</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.													
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>											
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>															
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>											
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides											
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____													
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 51 _____ " Long. 90 _____ ° 48 _____ ' 55 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West															
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____									
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips			
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No										DEPTH FROM TO		FORMATION DESCRIPTION			
PRIMARY FILTER PACK		LENGTH <b>13.8 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.2 ft.</b>				SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>				6		32		Clay & Silt  Fine Sand			
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>17.0 ft.</b>		32		35		Coarse Sand w/ Gravel							
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		TD: 35ft							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes																			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																			
STATIC WATER LEVEL NA FEET FROM MEASURING POINT								DATE WELL DRILLING WAS COMPLETED <b>10-16</b>											
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>								PERMIT NUMBER <b>2876M</b>											
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																			
SIGNATURE (WELL DRILLER) <i>[Signature]</i>								PERMIT NUMBER <b>2836</b>				DATE <b>10-26-09</b>							
SIGNATURE (APPRENTICE) <i>[Signature]</i>								PERMIT NUMBER				DATE				TOTAL DEPTH:			



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>55</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>					
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>			
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 ° 33 ' 51 " NW Long. 90 ° 48 ' 47 "				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>			
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.			
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO		FORMATION DESCRIPTION
							0 7		
PRIMARY FILTER PACK LENGTH <b>13.3 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>		7 30			
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.7 ft.</b>				30 35		Clay & Silt  Fine Sand  Medium Sand	
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>		TOTAL DEPTH:			
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE					

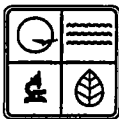


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1 Ph2 Ph3			

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>57</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.											
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>									
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>													
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>									
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides									
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST                      LARGEST											
LOCATION OF WELL Lat. 38      °    33      '    51      " Long. 90     °    48      '    39      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West													
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No										DEPTH FROM TO		FORMATION DESCRIPTION	
PRIMARY FILTER PACK		LENGTH <b>13.4 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.4 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2.0 ft.</b>											
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>16.4 ft.</b>											
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes														TD: 35ft			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																	
STATIC WATER LEVEL <b>NA</b> FEET FROM MEASURING POINT																	
DATE WELL DRILLING WAS COMPLETED <b>10-16</b>																	
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>																	
PERMIT NUMBER <b>2876M</b>																	
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																	
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>				DATE <b>10-26-09</b>									
SIGNATURE (APPRENTICE)				PERMIT NUMBER				DATE				TOTAL DEPTH:					



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>59</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 48 _____ " Long. 90 _____ ° 49 _____ ' 32 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>			
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.			
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO <b>0 15</b>		FORMATION DESCRIPTION <b>Interbedded Silt, Clay and Fine Sand Fine Sand Fine, Medium and Coarse Sand, trace Gravel</b>
PRIMARY FILTER PACK	LENGTH <b>13.1 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.2 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		15 25			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>17.7 ft.</b>				LENGTH				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>25 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-22</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE		TOTAL DEPTH:	





MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO		CHECK NO	
STATE WELL NUMBER		REVENUE NO	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>61</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38      ° 33      ' 47N Long. 90     ° 49      ' 22W			Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <b>PVC</b> <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other			
RISER PIPE DETAIL	LENGTH <b>27 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO	FORMATION DESCRIPTION	
PRIMARY FILTER PACK	LENGTH <b>14.7 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.2 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>		21	30	Clay, Silt, Fine & Very Fine Sand Very Fine, Fine & Medium Sand Very Fine, Fine, Medium & Coarse Sand; Fine & Coarse Gravel
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17 ft.</b>		30	35		
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.3 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10/26</b>				
SIGNATURE (PRIMARY CONTRACTOR)				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER)		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>				
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE		TOTAL DEPTH:		

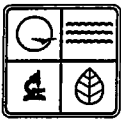


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1      Ph2      Ph3			

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>63</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST                      LARGEST						
LOCATION OF WELL Lat. 38      °    33      '    48      " Long. 90     °    49      '    20      "			Section 17      Township    44    North      Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West						
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in.      ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM    TO <b>0      15</b>	FORMATION DESCRIPTION <b>Interbedded Silt, Clay and Fine Sand Fine Sand Fine, Medium and Coarse Sand, trace Gravel</b>		
PRIMARY FILTER PACK	LENGTH <b>12.9 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>22 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2 ft.</b>		<b>15</b>	<b>20</b>	TD: <b>35ft</b>	
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>16.8 ft.</b>	<b>20</b>	<b>35</b>			
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>			DATE WELL DRILLING WAS COMPLETED <b>9-22</b>						
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>			PERMIT NUMBER <b>2876M</b>						
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE					
TOTAL DEPTH:									

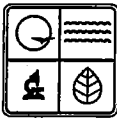


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>65</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____				
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 48 _____ " NW _____ Long. 90 _____ ° 49 _____ ' 8 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO	FORMATION DESCRIPTION	
PRIMARY FILTER PACK	LENGTH <b>13.2 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.4 ft.</b>		0	15	Interbedded Clay, Silt, VF Sand Fine Sand  Coarse Sand w/ Gravel
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17.3 ft.</b>	15	22		
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	22	35	
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-26-09</b>				
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE				
						TOTAL DEPTH: <b>TD: 35ft</b>		



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3	DATE	ROUTE	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>67</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Plezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____				
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 48 _____ " NW _____ Long. 90 _____ ° 49 _____ ' 1 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____	
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO	
PRIMARY FILTER PACK	LENGTH <b>13.6 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.4 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.1 ft.</b>		16 22		
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.2 ft.</b>		22 27			
	27 35							
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	TD: 35ft		
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-26-09</b>		TOTAL DEPTH:		
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE				

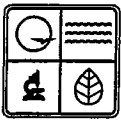


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		STATE WELL NUMBER	
REVENUE NO.		ENTERED	
Ph1	Ph2	Ph3	APPROVED BY
DATE		ROUTE	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>69</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 47      " Long. 90     ° 48      ' 50      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.69 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL LENGTH OF SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips					
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		FORMATION DESCRIPTION			
PRIMARY FILTER PACK LENGTH <b>13.7 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.0 ft.</b>		DEPTH FROM TO	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.3 ft.</b>		0		12	
				12		27	
				27		35	
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>24.7 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other							
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>	
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE	
TOTAL DEPTH:							

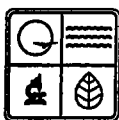


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY:	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>71</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.									
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>							
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>											
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>							
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides							
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST                      LARGEST									
LOCATION OF WELL Lat. 38      ° 33      ' 48      " Long. 90     ° 48      ' 43      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West											
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No										DEPTH FROM TO <b>0 17</b>		FORMATION DESCRIPTION <b>Interbedded Clay, Silt, VF Sand Fine Sand</b>	
PRIMARY FILTER PACK LENGTH <b>13.2 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>		TD: 35ft									
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>													
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>				DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____					
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes															
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.															
STATIC WATER LEVEL NA FEET FROM MEASURING POINT						DATE WELL DRILLING WAS COMPLETED <b>10-22</b>									
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>						PERMIT NUMBER <b>2876M</b>									
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.															
SIGNATURE (WELL DRILLER) <i>[Signature]</i>						PERMIT NUMBER <b>2836</b>		DATE <b>10-21-09</b>							
SIGNATURE (APPRENTICE)						PERMIT NUMBER		DATE		TOTAL DEPTH:					

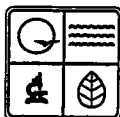


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
CR NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>73</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.											
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>									
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>													
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>									
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides											
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____											
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 43N _____ " Long. 90 _____ ° 49 _____ ' 35W _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West													
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No										DEPTH FROM TO <b>0 6.5</b> <b>6.5 31</b> <b>31 35</b>		FORMATION DESCRIPTION <b>Clay/Silt/VF Sand</b> <b>VF-F Sand</b> <b>Coarse Sand</b>	
PRIMARY FILTER PACK		LENGTH <b>13.0 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.0 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.7 ft.</b>		TD: 35ft									
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>16.3 ft.</b>											
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>						DEPTH TO TOP OF SCREEN <b>23.7 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes																	
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																	
STATIC WATER LEVEL <b>NI</b> FEET FROM MEASURING POINT								DATE WELL DRILLING WAS COMPLETED <b>11/13</b>									
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>								PERMIT NUMBER <b>2876M</b>									
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																	
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>				DATE <b>11-20-09</b>									
SIGNATURE (APPRENTICE)				PERMIT NUMBER				DATE				TOTAL DEPTH:					



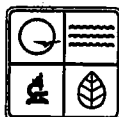
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>75</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST					
LOCATION OF WELL Lat. 38 ° 33 ' 44.8 " Long. 90 ° 49 ' 26.8 "				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 9</b> <b>9 30</b> <b>25 35</b>			FORMATION DESCRIPTION <b>Very fine sand, Clay and Silt Fine Sand and Clay Fine, Medium and Coarse Sand</b>
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>					
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17.2 ft.</b>					
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-28</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE					
TOTAL DEPTH:									





MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

77

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 44.6 "

Long. 90 ° 49 ' 20.6 "

Section 17 Township 44 North Range 2

☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

0

TO

20

FORMATION DESCRIPTION

Very fine sand, Clay and  
Silt  
Fine, Medium, Coarse  
Sand and gravel

PRIMARY  
FILTER  
PACK

LENGTH

13.4 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.6 ft.

SECONDARY FILTER PACK LENGTH

1.7 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

16.9

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.7 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-28

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:

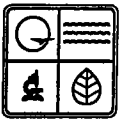


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
PH1	PH2	PH3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>79</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>				
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST                      LARGEST						
LOCATION OF WELL Lat. 38      ° 33      ' 43N Long. 90     ° 49      ' 12W			Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West						
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL <b>3 ft.</b>	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM    TO		FORMATION DESCRIPTION <b>Very Fine Sand, Silt &amp; Clay Fine Sand, Medium Sand, Coarse Sand &amp; Fine Gravel</b>
	PRIMARY FILTER PACK LENGTH <b>13.4 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.35 ft.</b>		30    35		
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.25 ft.</b>							
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10/28</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) * <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>				
SIGNATURE (APPRENTICE)			PERMIT NUMBER		DATE		TOTAL DEPTH:		

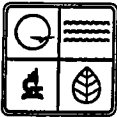


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>81</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 43N Long. 90     ° 49      ' 8W				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <b>PVC</b>		<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>27 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips			
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM    TO	
PRIMARY FILTER PACK LENGTH <b>13.55 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.25 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.25 ft.</b>		FORMATION DESCRIPTION <b>Clay, Silt, &amp; Very Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17 ft.</b>					
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10/28</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>11/20/12</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.F. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>83</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38      °    33      '    43N      " Long. 90     °    49      '    4W      "			Section 17      Township    44    North      Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in.      ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other			
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL <b>3 ft.</b>	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones      If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM    TO		
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		<b>10</b>	<b>21</b>	
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17 ft.</b>		<b>21</b>	<b>35</b>	
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/10</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>				
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE		TOTAL DEPTH:		

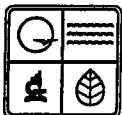


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C/R NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	
Ph1	Ph2	Ph3	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>85</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	
ZIP CODE <b>63055</b>							
PROPOSED USE OF WELL				TYPE OF POTENTIAL SITE		MONITORING FOR: (CHECK ALL THAT APPLY)	
<input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				<input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		<input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ 1/4 _____ 1/4 NW _____ 1/4	
LOCATION OF WELL				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
Lat. 38 _____ ° 33 _____ ' 43N _____ "		Long. 90 _____ ° 49 _____ ' 0W _____ "					
TYPE OF SURFACE COMPLETION		<input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	
				DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <b>PVC</b>	
						<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	
LOCKING CAP?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
LENGTH OF FLUSH MOUNT		DIAMETER OF FLUSH MOUNT		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED		SURFACE COMPLETION GROUT	
						<input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____	
RISER PIPE DETAIL		LENGTH <b>27 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>	
		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL	
						LENGTH OF SEAL <b>3 ft.</b>	
						MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK		DEPTH	
				<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		FROM TO	
						0 26	
PRIMARY FILTER PACK		LENGTH <b>13.5 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>20.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>	
						26 35	
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>15.7 ft.</b>			
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>	
				DEPTH TO TOP OF SCREEN <b>23.6 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL _____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/10</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

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APPROVED BY

DATE

ROUTE

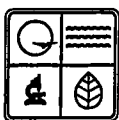
PM1

PM2

PM3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>87</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.											
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>									
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>													
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>									
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCs <input type="checkbox"/> Pesticides/Herbicides									
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST                      LARGEST											
LOCATION OF WELL Lat. 38      °    33      '    43N      " Long. 90     °    48      '    56W      "				Section 17      Township    44    North      Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West													
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in.      ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips			
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones      If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No										DEPTH FROM    TO		FORMATION DESCRIPTION			
PRIMARY FILTER PACK		LENGTH <b>13.6 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.4 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>		ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>16.6 ft.</b>		12		21		Clay, Silt & Very Fine Sand			
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		21		35		Very Fine & Fine Sand, Silt, Clay Very Fine, Fine, Medium & Coarse Sand; Coarse Gravel	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes														TD: 35ft			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																	
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT      DATE WELL DRILLING WAS COMPLETED <b>10/26</b>																	
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i> PERMIT NUMBER <b>2876M</b>																	
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.														TOTAL DEPTH:			
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>											
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE											



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>88</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.				
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>						
SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>								
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>				
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers		TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides						
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____							
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 41N _____ " Long. 90 _____ ° 49 _____ ' 33W _____ "			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West							
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips		
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 5</b> <b>5 10</b> <b>10 30</b> <b>30 35</b>				
PRIMARY FILTER PACK	LENGTH <b>12.8 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.0 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>		FORMATION DESCRIPTION <b>Clay/Silt</b> <b>VF-F Sand</b> <b>Fine Sand</b> <b>Gravelly Sand</b>				
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 2.5 gal.			LENGTH <b>17.8 ft.</b>						
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____					
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes										
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.										
STATIC WATER LEVEL <b>NI</b> FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/13</b>						
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>						
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.										
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>						
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE		TOTAL DEPTH:				



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY  
REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

APPROVED BY

DATE

ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

90

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCs

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 41.3 "

Long. 90 ° 49 ' 24.9 "

Section 17 Township 44 North Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated ☒ Yes ☐ No

☐ Both Zones

If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

10

10

15

31

31

35

FORMATION DESCRIPTION

Very Fine Sand, Clay and  
Silt  
Medium and Fine Sand  
Fine and Very Fine Sand,  
Clay  
Coarse, Medium, Fine, and  
Very Fine Sand, Trace  
Gravel

PRIMARY  
FILTER  
PACK

LENGTH

13.8 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.2 ft.

SECONDARY FILTER PACK LENGTH

1.2 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

17 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.7 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-28

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

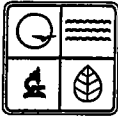
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:





MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

93

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 42 " N  
Long. 90 ° 49 ' 8 " W

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

12

12

20

20

35

FORMATION DESCRIPTION

Interbedded Clay, Silt, VF  
Sand

Fine Sand

Coarse Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.3 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.6 ft.

SECONDARY FILTER PACK LENGTH

1.3 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

17.3

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☐ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

10-22

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-26-09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

**TOTAL DEPTH:**



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY  
REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

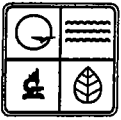
APPROVED BY

DATE

ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>95</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      °    33      '    42      " Long. 90     °    48      '    59      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>
	SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones        If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No						FORMATION DESCRIPTION <b>Interbedded Clay, Silt, VF Sand Fine Sand Coarse Sand</b>
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.3 ft.</b>				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-22</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>		PERMIT NUMBER		DATE		TOTAL DEPTH:	

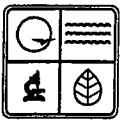


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>97</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 42 _____ " Long. 90 _____ ° 48 _____ ' 51 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		
LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.			
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No						
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>					
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.0 ft.</b>						
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-22</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-07</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE			
TOTAL DEPTH:									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		STATE WELL NUMBER	
ENTERED Ph1 Ph2 Ph3		APPROVED BY	DATE
		ROUTE	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>99</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 41      " Long. 90     ° 48      ' 43      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.69 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL LENGTH OF SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips					
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH FROM    TO <b>0            7</b>		FORMATION DESCRIPTION <b>Interbedded Silt and Clay</b>	
PRIMARY FILTER PACK LENGTH <b>13.5 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>20.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		7      22 22      35 <b>Fine Sand</b> <b>Coarse Sand</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.1 ft.</b>					
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>23.8 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other							
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL NA FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10-22</b>			
SIGNATURE (PRIMARY CONTRACTOR)				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER)				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							

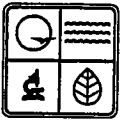


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3	DATE		ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>102</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 39.1 _____ " Long. 90 _____ ° 49 _____ ' 28.8 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 20</b> <b>20 25</b> <b>25 35</b>			FORMATION DESCRIPTION <b>Very Fine and Fine Sand, Clay and Silt Medium and Fine Sand, Silt, and Clay Coarse, Medium, Fine, and Very Fine Sand, Trace Gravel</b>
PRIMARY FILTER PACK	LENGTH <b>13.7 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>					
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>16.8 ft.</b>					
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-29</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE					
TOTAL DEPTH:									

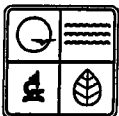


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>104</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____			
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 39 _____ " Long. 90 _____ ° 49 _____ ' 21.9 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6x6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO	
PRIMARY FILTER PACK LENGTH <b>13.6 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.25 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		FORMATION DESCRIPTION <b>Very fine sand, fine sand, silt, and clay Coarse and Medium Sand</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.8 ft.</b>					
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL _____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10-05</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>	
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE	
TOTAL DEPTH: <b>TD: 35ft</b>							

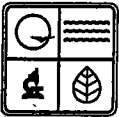


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>106</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST					
LOCATION OF WELL Lat. 38 ° 33 ' 38N Long. 90 ° 48 ' 24W				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>			
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>			
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other							
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO		FORMATION DESCRIPTION <b>Clay, Silt, Very Fine &amp; Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand Fine, Medium &amp; Coarse Sand, Fine Gravel</b>
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>		30 35			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>						
	WELL SCREEN		LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10/29</b>					
SIGNATURE (PRIMARY CONTRACTOR)				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER)				PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>				
SIGNATURE (APPRENTICE)				PERMIT NUMBER	DATE				
TOTAL DEPTH:									



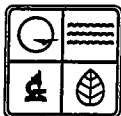
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.F. NO.	CHECK NO.		
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>108</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCs <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      °    33      '    38N      " Long. 90     °    48      '    28W      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips			
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM    TO	
PRIMARY FILTER PACK LENGTH <b>13.3 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>		FORMATION DESCRIPTION	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>				Clay & Silt Clay & Silt; Very Fine & Fine Sand Clay & Silt; Very Fine, Fine, Medium & Coarse Sand Very Fine, Fine, Medium & Coarse Sand; Gravel	
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Pump Installed for Remediation <input type="checkbox"/> Yes				TD: 35ft			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/4</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>	
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



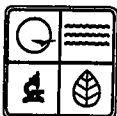


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		<b>DATE RECEIVED</b>	
<b>REF. NO.</b>			
<b>CR NO.</b>		<b>CHECK NO.</b>	
<b>STATE WELL NUMBER</b>		<b>REVENUE NO.</b>	
<b>ENTERED</b>		<b>APPROVED BY</b>	<b>DATE</b>
Ph1	Ph2	Ph3	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

<b>OWNER NAME</b> Ameren				<b>WELL NUMBER</b> 110		<b>VARIANCE GRANTED BY DNR</b> <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
<b>OWNER ADDRESS</b> 1901 Chouteau Ave.		<b>CITY</b> St. Louis		<b>STATE</b> MO	<b>ZIP CODE</b> 63166			
<b>SITE NAME</b> Labadie Power Plant				<b>CONTACT NAME</b> Paul Pike				
<b>SITE ADDRESS</b> 226 Labadie Power Plant Rd., MC LBD-645				<b>CITY</b> Labadie		<b>STATE</b> MO	<b>ZIP CODE</b> 63055	
<b>PROPOSED USE OF WELL</b> <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				<b>TYPE OF POTENTIAL SITE</b> <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		<b>MONITORING FOR: (CHECK ALL THAT APPLY)</b> <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
<b>AREA</b> 1	<b>COUNTY</b> Franklin	<b>ELEVATION</b> @465'		<b>SMALLEST</b> <b>LARGEST</b>				
<b>LOCATION OF WELL</b> Lat. 38    °    33    '    38N    " Long. 90    °    48    '    32W    "				Section 17    Township    44    North    Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
<b>TYPE OF SURFACE COMPLETION</b> <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		<b>LENGTH OF PROTECTIVE CASING</b> 5 ft.		<b>DIAMETER OF PROTECTIVE CASING</b> 4x4 in.	<b>DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED</b> 12 in.    2 ft.	<b>PROTECTIVE CASING MATERIAL</b> <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	<b>LOCKING CAP?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>WEEP HOLE?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>VENTED CAP?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>LENGTH OF FLUSH MOUNT</b> ft.	<b>DIAMETER OF FLUSH MOUNT</b> ft.	<b>DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED</b> in.    ft.		<b>SURFACE COMPLETION GROUT</b> <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
<b>RISER PIPE DETAIL</b>	<b>LENGTH</b> 28 ft.	<b>DIAMETER</b> 2 in.	<b>WEIGHT OR SDR#</b> 40	<b>DIAMETER OF DRILL HOLE</b> 0.69 ft.	<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	<b>BENTONITE SEAL</b>	<b>LENGTH OF SEAL</b> 3 ft.	<b>MATERIAL</b> <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	<b>GLUED</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>SECONDARY FILTER PACK</b> <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No					
<b>PRIMARY FILTER PACK</b>	<b>LENGTH</b> 13.5 ft.	<b>DEPTH TO TOP OF PRIMARY FILTER PACK</b> 21.75 ft.		<b>SECONDARY FILTER PACK LENGTH</b> 1.5 ft.		<b>FORMATION DESCRIPTION</b> Silt, Clay & Very Fine Sand Silt & Clay; Very Fine, Fine, Medium & Coarse Sand		
<b>ANNULAR SEAL</b>	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		<b>LENGTH</b> 17.25 ft.					
<b>WELL SCREEN</b>	<b>LENGTH</b> 10 ft.	<b>DIAMETER</b> 2" ft.	<b>DIAMETER OF DRILL HOLE</b> 8.25 in.	<b>DEPTH TO TOP OF SCREEN</b> 24.9 ft.	<b>MATERIAL</b> <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No        Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
<b>STATIC WATER LEVEL</b> ____ FEET FROM MEASURING POINT				<b>DATE WELL DRILLING WAS COMPLETED</b> 11/4				
<b>SIGNATURE (PRIMARY CONTRACTOR)</b> <i>[Signature]</i>				<b>PERMIT NUMBER</b> 2876M				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
<b>SIGNATURE (WELL DRILLER)</b> <i>[Signature]</i>			<b>PERMIT NUMBER</b> 2836	<b>DATE</b> 11/20/09				
<b>SIGNATURE (APPRENTICE)</b> <i>[Signature]</i>			<b>PERMIT NUMBER</b>	<b>DATE</b>				
<b>TOTAL DEPTH:</b>						TD: 35ft		



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
CR NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	
Ph1	Ph2	Ph3	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>112</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		
SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>		
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers		TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides

AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST		LARGEST	
LOCATION OF WELL Lat. 38° 33' 38N Long. 90° 48' 36W			Section 17 Township 44 North		Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West	

TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other
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RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No							

PRIMARY FILTER PACK	LENGTH <b>12.9 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.4 ft.</b>	SECONDARY FILTER PACK LENGTH <b>2.4 ft.</b>
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ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry		LENGTH <b>17 ft.</b>
	<input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		

WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>25 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other
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Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes					
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.					

STATIC WATER LEVEL ____ FEET FROM MEASURING POINT		DATE WELL DRILLING WAS COMPLETED <b>11/4</b>	
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>		PERMIT NUMBER <b>2876M</b>	

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.			
SIGNATURE (WELL DRILLER) <i>[Signature]</i>	PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>	TOTAL DEPTH:
SIGNATURE (APPRENTICE)	PERMIT NUMBER	DATE	

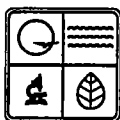


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY:	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>114</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 38N Long. 90     ° 48      ' 40W				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other		PROTECTIVE CASING MATERIAL <b>PVC</b>		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM    TO <b>0            25</b>	
PRIMARY FILTER PACK LENGTH <b>13.2 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		FORMATION DESCRIPTION <b>Clay &amp; Silt; Very Fine &amp; Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand; Gravel</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other			
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes		TD: <b>35ft</b>			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/12</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY  
REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

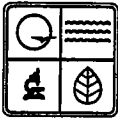
DATE

ROUTE

Ph1 Ph2 Ph3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>116</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 34 _____ " Long. 90 _____ ° 49 _____ ' 23.8 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		
LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.			
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No						
PRIMARY FILTER PACK	LENGTH <b>13.5 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.7 ft.</b>					
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.8 ft.</b>						
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>9-29</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-12-09</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE		TOTAL DEPTH:	



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

118

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 34 "

Long. 90 ° 49 ' 16.4 "

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry

☐ Pellets

☐ Granular

☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated ☒ Yes ☐ No

☐ Both Zones

If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

14

14

30

30

35

FORMATION DESCRIPTION

Very Fine Sand, Clay and  
Silt  
Fine and Very Fine Sand,  
Silt, and Clay  
Very Fine, Fine, Medium  
and Coarse Sand, Trace  
Gravel, Trace Silt and Clay

PRIMARY  
FILTER  
PACK

LENGTH

13.5 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.7 ft.

SECONDARY FILTER PACK LENGTH

1.8 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

16.9 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.9 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-29

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY  
REF. NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

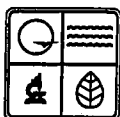
APPROVED BY

DATE

ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>120</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 36 _____ " NW Long. 90 _____ ° 49 _____ ' 8 _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 9</b>			FORMATION DESCRIPTION <b>Clay &amp; Silt</b> <b>Fine Sand</b> <b>Coarse Sand</b>
PRIMARY FILTER PACK	LENGTH <b>13.6 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>		9 27			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>16.7 ft.</b>	27 35			
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	TD: 35ft			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-22</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-26-09</b>					
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE					
TOTAL DEPTH:									

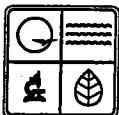


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
CR NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	
Ph1	Ph2	ROUTE	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>22 122</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____	
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 35N _____ " Long. 90 _____ ° 48 _____ ' 59W				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT _____ ft.		DIAMETER OF FLUSH MOUNT _____ ft.	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED _____ in. _____ ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b>		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO	
PRIMARY FILTER PACK LENGTH <b>13.8 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.4 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>		FORMATION DESCRIPTION <b>Silt/Clay/VF Sand Gley Clay/Silt VF-F Sand Coarse Sand</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>					
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.9 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>N1</b> FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/14</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>			
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE		TOTAL DEPTH:	



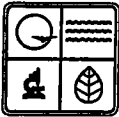
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>124</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 35N Long. 90     ° 48      ' 55W				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
PRIMARY FILTER PACK LENGTH <b>13.3 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>22 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.9 ft.</b>		FORMATION DESCRIPTION	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>		DEPTH FROM TO <b>0 16</b> <b>16 25</b> <b>25 35</b>		Clay & Silt; Very Fine Sand Very Fine & Fine Sand Very Fine, Fine, Medium & Coarse Sand; Gravel	
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>25 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		TD: 35ft			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/11</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>			
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE		TOTAL DEPTH:	



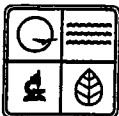


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO			
CR NO	CHECK NO		
STATE WELL NUMBER		REVENUE NO	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>126</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38      °    33      '    35N Long. 90     °    48      '    52W				Section 17      Township    44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <b>PVC</b> <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>27 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM    TO			FORMATION DESCRIPTION <b>Silt, Clay &amp; Very Fine Sand Silt &amp; Clay; Very Fine &amp; Fine Sand Very Fine, Find, Medium &amp; Coarse Sand; Gravel</b>
PRIMARY FILTER PACK	LENGTH <b>13.9 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>20.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>		20    30			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>16 ft.</b>		30    35			
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>23.8 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	TD: 35ft			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/11</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE					
TOTAL DEPTH:									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

CR NO

CHECK NO

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

128

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 32N "

Long. 90 ° 49 ' 32W "

Section 17 \_\_\_\_\_ Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

6 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

14 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☐ Steel

☐ Aluminum

☒ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

27 ft.

DIAMETER

4 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.85 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chlps

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

FORMATION DESCRIPTION

PRIMARY  
FILTER  
PACK

LENGTH

13.4 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.3 ft.

SECONDARY FILTER PACK LENGTH

1.8 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

16.5 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

4" ft.

DIAMETER  
OF DRILL  
HOLE

10.3 in.

DEPTH TO  
TOP OF  
SCREEN

24.3 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

\_\_\_\_\_ FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

11/7

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

11/20/09

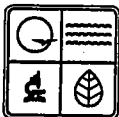
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY  
REF NO.**

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

APPROVED BY

DATE

ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

130

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 31.7 "

Long. 90 ° 49 ' 19.7 "

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in. ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

PRIMARY  
FILTER  
PACK

LENGTH

13.9 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21 ft.

SECONDARY FILTER PACK LENGTH

1.5 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

16.9

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NA FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

9-30

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

10-12-09

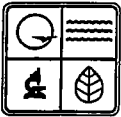
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

**TOTAL DEPTH:**

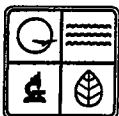


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED Ph1 Ph2 Ph3	APPROVED BY	DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>132</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCs <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      °    33      '    30      " Long. 90     °    49      '    11      "				Section 17      Township    44    North      Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in.      ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No						
PRIMARY FILTER PACK	LENGTH <b>13.7 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17.0 ft.</b>			
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>	
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE	
TOTAL DEPTH:							

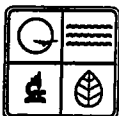


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>34 134</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____			
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 32N _____ " Long. 90 _____ ° 49 _____ ' 1W _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				
PRIMARY FILTER PACK	LENGTH <b>14.9 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>20.0 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.7 ft.</b>			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>15.3 ft.</b>			
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump installed for Remediation <input type="checkbox"/> Yes							TD: 35ft
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL NI FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/10</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>			TOTAL DEPTH:
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE			



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>30 136</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>	STATE <b>MO</b>	

SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>		
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>

PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers		TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
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AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____	
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 32N _____ " Long. 90 _____ ° 48 _____ ' 56W _____ "			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West	

TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
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RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
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GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SECONDARY FILTER PACK		DEPTH		FORMATION DESCRIPTION
	<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		FROM	TO	

PRIMARY FILTER PACK	LENGTH <b>13.1 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>	SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>
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ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.0 ft.</b>
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WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____
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Multiple Cased Wells ☐ Yes ☒ No Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL  
NI FEET FROM MEASURING POINT

SIGNATURE (PRIMARY CONTRACTOR)

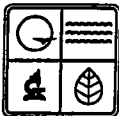
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

SIGNATURE (APPRENTICE)

TD:  
35ft

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>28-138</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.					
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>							
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>			
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38 ° 33 ' 32N Long. 90 ° 48 ' 52W						Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other	
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.69 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL LENGTH OF SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH FROM <b>0</b> <b>8</b> <b>16</b> TO <b>8</b> <b>16</b> <b>35</b>		FORMATION DESCRIPTION <b>Silt/Clay Gley Clay/VF Silty Sand VF-F Sand, Gley, Carb.</b>			
PRIMARY FILTER PACK LENGTH <b>13.2 ft.</b> DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.2 ft.</b> SECONDARY FILTER PACK LENGTH <b>1.9 ft.</b>		ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>16.3 ft.</b>		WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>24.1 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Pump Installed for Remediation <input type="checkbox"/> Yes		TD: <b>35ft</b>			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.											
STATIC WATER LEVEL NI FEET FROM MEASURING POINT						DATE WELL DRILLING WAS COMPLETED <b>11/12</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>						PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.											
SIGNATURE (WELL DRILLER) <i>[Signature]</i>						PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>			
SIGNATURE (APPRENTICE)						PERMIT NUMBER		DATE		TOTAL DEPTH:	



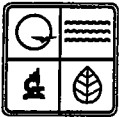
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY:	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>140</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST			
LOCATION OF WELL Lat. 38 ° 33 ' 32N Long. 90 ° 48 ' 49W				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
RISER PIPE DETAIL LENGTH <b>27 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO	
PRIMARY FILTER PACK LENGTH <b>13.5 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.25 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>		FORMATION DESCRIPTION <b>Clay &amp; Silt; Very Fine &amp; Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand; Gravel</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>		TD: 35ft			
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes					
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10/27</b>			
SIGNATURE (PRIMARY CONTRACTOR)				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER)				PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>	
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE	
TOTAL DEPTH:							



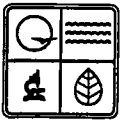


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.	CHECK NO.		
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>42 142</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____			
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 29N _____ " Long. 90 _____ ° 49 _____ ' 26W _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT ft.		DIAMETER OF FLUSH MOUNT ft.	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____					
RISER PIPE DETAIL LENGTH <b>28 ft.</b>		DIAMETER <b>2 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO	
PRIMARY FILTER PACK LENGTH <b>13.0 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>22.1 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2.0 ft.</b>		FORMATION DESCRIPTION <b>Clay/Silt/SC Fine Sand Very Coarse Sand</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.1 ft.</b>					
WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>2" ft.</b>		DIAMETER OF DRILL HOLE <b>8.25 in.</b>		DEPTH TO TOP OF SCREEN <b>24.8 ft.</b>	
MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NI</b> FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/13</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>		PERMIT NUMBER		DATE		TOTAL DEPTH:	

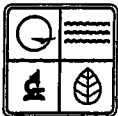


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED Ph1 Ph2 Ph3		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>144</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 28.7 _____ " Long. 90 _____ ° 49 _____ ' 16.3 _____ "			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6x6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____			
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO <b>0 10</b> <b>10 31</b> <b>31 35</b>	FORMATION DESCRIPTION <b>Silt and Clay Fine and Very Fine Sand, Silt and Clay Coarse, Medium, Fine and Very Fine Sand, Trace Gravel and Clay Balls</b>	
PRIMARY FILTER PACK	LENGTH <b>13 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.7 ft.</b>				
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17 ft.</b>				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.3 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL FEET FROM MEASURING POINT <b>9-30</b>				DATE WELL DRILLING WAS COMPLETED <b>9-30</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>				
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE				
TOTAL DEPTH:								



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

46 146

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well ☐ Monitoring  
☐ Extraction Well ☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material ☒ Landfill  
☐ Initial Site Assessment ☐ L.U.S.T.  
☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides ☐ Petroleum Products Only  
☐ Explosives ☒ Metals ☐ VOC  
☐ SVOCS ☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 29N  
Long. 90 ° 49 ' 10W

Section 17 Township 44 North Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground  
☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel  
☐ Aluminum  
☐ Plastic

LOCKING CAP?

☒ Yes  
☐ No

WEEP HOLE?

☒ Yes  
☐ No

VENTED CAP?

☒ Yes  
☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in. ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete  
☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)  
☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets  
☐ Granular ☐ Chips

GLUED

☐ Yes  
☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☐ Yes ☐ No  
☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

FORMATION DESCRIPTION

PRIMARY  
FILTER  
PACK

LENGTH

15.3 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

19.5 ft.

SECONDARY FILTER PACK LENGTH

1.5 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry  
☐ Non Slurry Bentonite Type

☐ Cement/Bentonite Slurry  
☐ Bags of Cement Used  
☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

15.0 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.5 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)  
☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

11/14

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

11/20/09

SIGNATURE (APPRENTICE)

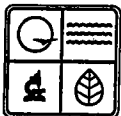
PERMIT NUMBER

DATE

TOTAL DEPTH:

TD:  
35ft

Clay  
VF Silty Sand  
VF-F Sand  
Gravelly Sand



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**

REF. NO.

DATE RECEIVED

CR. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

WELL NUMBER

48 148

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 29N  
Long. 90 ° 49 ' 2W

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other \_\_\_\_\_

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry

☐ Pellets

☐ Granular

☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☐ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

5

10

25

35

FORMATION DESCRIPTION

Clay/Silt/SC  
VF Silty Sand  
VF-F Sand, Gley  
Gravelly Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.2 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.5 ft.

SECONDARY FILTER PACK LENGTH

1.2 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used \_\_\_\_\_

☐ % of Bentonite Used \_\_\_\_\_

☒ Water Used/Bag 25 gal.

LENGTH

17.3

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.4 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other \_\_\_\_\_

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

11/9

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

11/20/09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

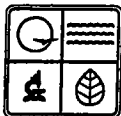
TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

<b>INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR</b>									
OWNER NAME <b>Ameren</b>					WELL NUMBER <b>150</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>		ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>					CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>					CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38      °    33      '    29N      " Long. 90      °    48      '    52W      "				Section 17      Township    44    North      Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in.      ft.</b>	
SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____									
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM    TO <b>0      16</b>		FORMATION DESCRIPTION <b>Clay, Silt, &amp; Very Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand; Gravel</b>
PRIMARY FILTER PACK	LENGTH <b>13.1 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>22 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2 ft.</b>		16      35			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17 ft.</b>						
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.8 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/14</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>		TOTAL DEPTH:			
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE					

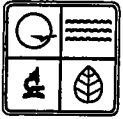


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>152</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE ZIP CODE <b>MO 63166</b>				
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE ZIP CODE <b>MO 63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST				
LOCATION OF WELL Lat. 38 ° 33 ' 29N Long. 90 ° 48 ' 49W				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other						
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No					
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2 ft.</b>		FORMATION DESCRIPTION		
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry		LENGTH <b>16.5 ft.</b>		Silt & Clay; Very Fine Sand Very Fine, Fine & Medium Sand Very Fine, Fine, Medium & Coarse Sand; Gravel			
	<input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.							
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/12</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>		TOTAL DEPTH:		
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE				



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>155</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>

SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>

PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers		TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
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AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST                      LARGEST		
LOCATION OF WELL Lat. 38      ° 33      ' 26      " Long. 90      ° 49      ' 19.3      "			Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West		

TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	---	---	--	--	--

WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
--	---	-------------------------------------	---------------------------------------	---	--

RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							

PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>	SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>	FORMATION DESCRIPTION
	SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			

ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.9 ft.</b>	FORMATION DESCRIPTION <b>Very Fine Sand, Fine Sand Silt and Clay Very Fine, Fine, Medium, and Coarse Sand Very Fine, Fine, Medium, and Coarse Sand, Trace Gravel</b>

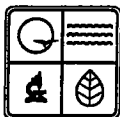
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____

Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Pump Installed for Remediation <input type="checkbox"/> Yes					
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.					

STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>		DATE WELL DRILLING WAS COMPLETED <b>9-30</b>	
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>		PERMIT NUMBER <b>2876M</b>	

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.			
SIGNATURE (WELL DRILLER) <i>[Signature]</i>	PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>	
SIGNATURE (APPRENTICE)	PERMIT NUMBER	DATE	

TOTAL DEPTH:			
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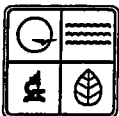
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>156</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 26N      " Long. 90     ° 49      ' 10W      "				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.69 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL LENGTH OF SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips					
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH FROM    TO			
PRIMARY FILTER PACK LENGTH <b>13.3 ft.</b> DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b> SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>		ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>17.3 ft.</b>		FORMATION DESCRIPTION <b>Clay, Silt &amp; Very Fine Sand Clay &amp; Silt; Very Fine &amp; Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand; Gravel</b>			
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>24.5 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Pump Installed for Remediation <input type="checkbox"/> Yes		TD: 35ft			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.		STATIC WATER LEVEL FEET FROM MEASURING POINT		DATE WELL DRILLING WAS COMPLETED <b>11/9</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>		PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>11/20/09</b>			
SIGNATURE (APPRENTICE)		PERMIT NUMBER		DATE			
				TOTAL DEPTH:			





MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF. NO.**

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY:

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

158

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 26N  
Long. 90 ° 49 ' 2W

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry

☐ Pellets

☐ Granular

☐ Chips

**SECONDARY FILTER PACK**

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No  
☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

12

12

35

FORMATION DESCRIPTION

Clay, Silt & Very Fine  
Sand  
Very Fine, Fine, Medium  
& Coarse Sand; Gravel

PRIMARY  
FILTER  
PACK

LENGTH

13.5 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.4 ft.

SECONDARY FILTER PACK LENGTH

1.2 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

11/13

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

11/22/09

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

**TOTAL DEPTH:**



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

PH1

PH2

PH3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

WELL NUMBER

160

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 26N

Long. 90 ° 48 ' 56W

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

TO

0

5

5

25

25

35

FORMATION DESCRIPTION

Silt and Clay  
Very Fine Sand  
Medium Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.5 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.5 ft.

SECONDARY FILTER PACK LENGTH

1.5 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

17.0 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.7 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

12/17

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

1/4/10

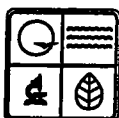
SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TD:  
35ft

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY		DATE RECEIVED	
REF NO.			
CHECK NO.			
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>162</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>	STATE <b>MO</b>	

SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>		
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>

PROPOSED USE OF WELL		TYPE OF POTENTIAL SITE		MONITORING FOR: (CHECK ALL THAT APPLY)	
<input type="checkbox"/> Gas Monitoring Well	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Hazardous Material	<input checked="" type="checkbox"/> Landfill	<input type="checkbox"/> Radionuclides	<input type="checkbox"/> Petroleum Products Only
<input type="checkbox"/> Extraction Well	<input checked="" type="checkbox"/> Piezometers	<input type="checkbox"/> Initial Site Assessment	<input type="checkbox"/> L.U.S.T.	<input type="checkbox"/> Explosives	<input checked="" type="checkbox"/> Metals
		<input type="checkbox"/> Water Level Drawdown		<input type="checkbox"/> SVOCs	<input type="checkbox"/> Pesticides/Herbicides

AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ % _____ % NW _____ %	
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 26N _____ ° Long. 90 _____ ° 48 _____ ' 47W _____ °			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West	

TYPE OF SURFACE COMPLETION	<input checked="" type="checkbox"/> Above Ground	LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <b>PVC</b>	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
----------------------------	--	---	---	--	--	--	--

WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
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RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips

GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SECONDARY FILTER PACK				DEPTH		FORMATION DESCRIPTION <b>Clay/Silt/VF Sand VF-F Sand</b>
	<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				FROM <b>0</b>	TO <b>10</b>	

PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>	SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>
---------------------	---------------------------	--	--

ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry		LENGTH <b>16.5 ft.</b>
	<input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		

WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.3 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____
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Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes	
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.			

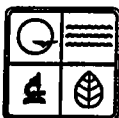
STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>	DATE WELL DRILLING WAS COMPLETED <b>12/17</b>
---	--

SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>	PERMIT NUMBER <b>2876M</b>
--	-------------------------------

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER) <i>[Signature]</i>	PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>
SIGNATURE (APPRENTICE) <i>[Signature]</i>	PERMIT NUMBER	DATE

TOTAL DEPTH:

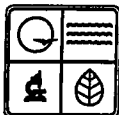


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO			
CR NO	CHECK NO		
STATE WELL NUMBER	REVENUE NO		
ENTERED	APPROVED BY	DATE	ROUTE
PH1	PH2	PH3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>164</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.									
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>				ZIP CODE <b>63166</b>							
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>											
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>		ZIP CODE <b>63055</b>							
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown				MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides							
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST				LARGEST							
LOCATION OF WELL Lat. 38° 33' 22N Long. 90° 48' 42W				Section 17 Township 44 North				Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West							
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <b>PVC</b> <input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
PRIMARY FILTER PACK LENGTH <b>13.3 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>		DEPTH FROM TO <b>0 5</b> <b>5 16</b> <b>16 30</b> <b>30 35</b>		FORMATION DESCRIPTION <b>Silt and Clay</b> <b>Fine-Very Fine Sand</b> <b>Fine-Very Fine Gley Sand</b> <b>Coarse Sand</b>							
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.8 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		WELL SCREEN LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Pump Installed for Remediation <input type="checkbox"/> Yes				TD: 35ft							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.															
STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>											
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>											
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.															
SIGNATURE (DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>1/4/10</b>									
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE		TOTAL DEPTH:							

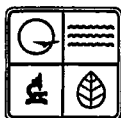


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>165</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 23N _____ " Long. 90 _____ ° 49 _____ ' 25W _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <b>PVC</b>	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO			FORMATION DESCRIPTION <b>Clay, Silt &amp; Very Fine Sand Very Fine &amp; Fine Sand Very Fine, Fine, Medium &amp; Coarse Sand; Gravel</b>
PRIMARY FILTER PACK	LENGTH <b>13.7 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.25 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		10 20 35			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>16.8 ft.</b>								
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL _____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/13</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE					
TOTAL DEPTH:									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

C.R. NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

Ph1

Ph2

Ph3

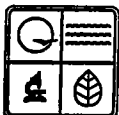
APPROVED BY

DATE

ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>167</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____						
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 22.9 _____ " Long. 90 _____ ° 49 _____ ' 16.1 _____ "			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West						
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 20</b> <b>20 30</b> <b>30 35</b>			FORMATION DESCRIPTION <b>Very Fine Sand, Fine Sand Silt and Clay Fine, Medium, and Coarse Sand, Clay and Silt Fine, Medium, and Coarse Sand, Trace Gravel and Clay Ball</b>
PRIMARY FILTER PACK	LENGTH <b>13.2 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.8 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>					
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17.2 ft.</b>					
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>10-05</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>10-12-09</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE					
TOTAL DEPTH:									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
PH1	PH2	PH3	

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>			WELL NUMBER <b>169</b>			VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.													
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>						STATE <b>MO</b>			ZIP CODE <b>63166</b>							
SITE NAME <b>Labadie Power Plant</b>						CONTACT NAME <b>Paul Pike</b>													
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>						CITY <b>Labadie</b>			STATE <b>MO</b>			ZIP CODE <b>63055</b>							
PROPOSED USE OF WELL						TYPE OF POTENTIAL SITE						MONITORING FOR: (CHECK ALL THAT APPLY)							
<input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring						<input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill						<input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only							
<input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers						<input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T.						<input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC							
						<input type="checkbox"/> Water Level Drawdown						<input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides							
AREA <b>1</b>		COUNTY <b>Franklin</b>		ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____													
LOCATION OF WELL						Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West													
Lat. 38 _____ ° 33 _____ ' 19N _____ "																			
Long. 90 _____ ° 49 _____ ' 7W _____ "																			
TYPE OF SURFACE COMPLETION		<input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <b>PVC</b>		<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT		<input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____							
RISER PIPE DETAIL		LENGTH <b>28 ft.</b>		DIAMETER <b>4 in.</b>		WEIGHT OR SDR# <b>40</b>		DIAMETER OF DRILL HOLE <b>0.85 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL		LENGTH OF SEAL <b>3 ft.</b>		MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips			
		GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK												DEPTH		FORMATION DESCRIPTION	
				<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No												FROM TO		Silt and Clay Very Fine Sand Very Fine Silty Sand Fine-Very Fine Sand	
PRIMARY FILTER PACK		LENGTH <b>13.5 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>				SECONDARY FILTER PACK LENGTH <b>2.0 ft.</b>											
ANNULAR SEAL		<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>16.5 ft.</b>													
WELL SCREEN		LENGTH <b>10 ft.</b>		DIAMETER <b>4" ft.</b>		DIAMETER OF DRILL HOLE <b>10.3 in.</b>		DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____									
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes																TD: 35ft			
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.																			
STATIC WATER LEVEL <b>NI</b> FEET FROM MEASURING POINT																			
DATE WELL DRILLING WAS COMPLETED <b>12/17</b>																			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>																			
PERMIT NUMBER <b>2876M</b>																			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.																			
SIGNATURE (WELLDOLLER) <i>[Signature]</i>																			
PERMIT NUMBER <b>2836</b>																			
DATE <b>1/4/10</b>																			
SIGNATURE (APPRENTICE) <i>[Signature]</i>																			
PERMIT NUMBER																			
DATE																			
TOTAL DEPTH:																			



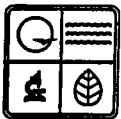
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.	CHECK NO.		
STATE WELL NUMBER	REVENUE NO.		
ENTERED	APPROVED BY	DATE	ROUTE
Permit	Permit	Permit	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>171</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>			
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 18N _____ ° Long. 90 _____ ° 48 _____ ' 60W _____ °				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 5</b> <b>5 35</b>			FORMATION DESCRIPTION <b>Clay Fine Sand</b>
PRIMARY FILTER PACK	LENGTH <b>13.4 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>					
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>17.0 ft.</b>				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>					
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE		TOTAL DEPTH:			





MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

CR NO

CHECK NO

STATE WELL NUMBER

REVENUE NO

ENTERED

APPROVED BY

DATE

ROUTE

PH1

PH2

PH3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

173

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCs

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 21N  
Long. 90 ° 48 ' 53W

Section 17 Township 44 North Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone ☐ Unsaturated Zone Hydrated ☒ Yes ☐ No

☐ Both Zones If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

0

10

20

TO

10

20

35

FORMATION DESCRIPTION

Clay/Silt/VF Sand  
VF-F Sand  
Fine-Medium Sand

PRIMARY  
FILTER  
PACK

LENGTH

12.9 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

22.1 ft.

SECONDARY FILTER PACK LENGTH

1.2 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

17.9 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.7 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

12/17

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

1/4/10

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

CR NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

PH1

PH2

PH3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

175

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides ☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 21N

Long. 90 ° 48 ' 45W

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated ☒ Yes ☐ No

☐ Both Zones

If Yes, Hydrated ☐ Yes ☐ No

DEPTH

FROM

0

6

TO

6

35

FORMATION DESCRIPTION

Silt and Clay  
VF-F Sand

PRIMARY  
FILTER  
PACK

LENGTH

14.7 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

20.3 ft.

SECONDARY FILTER PACK LENGTH

1.0 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

16.3 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER OF  
DRILL HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.7 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

12/17

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

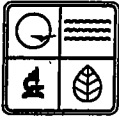
11/18

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:

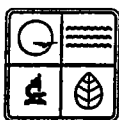


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY:	
ENTERED	DATE	ROUTE	
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>77 177</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____				
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 20N _____ " Long. 90 _____ ° 49 _____ ' 20W _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____			
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No					
PRIMARY FILTER PACK	LENGTH <b>13.0 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.6 ft.</b>				
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.0 ft.</b>					
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.3 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL NI FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>11/13</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>				
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE				
TOTAL DEPTH:								



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY

REF NO.

DATE RECEIVED

CR NO.

CHECK NO.

STATE WELL NUMBER

REVENUE NO.

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME

Ameren

WELL NUMBER

179

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCs

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38° 33' 15N  
Long. 90° 49' 11W

Section 17 Township 44 North  
Range 2 East West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

4x4 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

12 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

☒ Steel

☐ Aluminum

☐ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in.

ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

2 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.69 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry ☐ Pellets

☐ Granular ☐ Chips

PRIMARY  
FILTER  
PACK

LENGTH

14.2 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

20.7 ft.

SECONDARY FILTER PACK LENGTH

1.4 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 2.5 gal.

LENGTH

16.3

ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

2" ft.

DIAMETER  
OF DRILL  
HOLE

8.25 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel ☒ Thermoplastic (PVC)

☐ Other

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

12/17

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

1/4/10

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

TOTAL DEPTH:

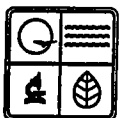


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF. NO.			
CR. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>181</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____						
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 17N _____ " Long. 90 _____ ° 49 _____ ' 3W _____ "			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West						
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>28 ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 7</b> <b>7 12</b> <b>12 23</b> <b>23 33</b> <b>33 35</b>			FORMATION DESCRIPTION <b>Silt and Clay</b> <b>Very Fine Sand</b> <b>Very Fine Gley Sand</b> <b>Fine Sand</b> <b>Gravelly Sand</b>
PRIMARY FILTER PACK	LENGTH <b>13.2 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.5 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.5 ft.</b>		TD: 35ft			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.			LENGTH <b>17.0 ft.</b>					
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.4 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>N1 FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE		TOTAL DEPTH:			

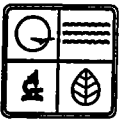


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.	CHECK NO.		
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
PH1	PH2	PH3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>183</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input checked="" type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      ° 33      ' 20N Long. 90     ° 48      ' 57W				Section 17      Township 44 North      Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM    TO <b>0      8</b> <b>8      30</b> <b>30     35</b>
PRIMARY FILTER PACK	LENGTH <b>13.6 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>		FORMATION DESCRIPTION <b>Silt and Clay VF-F Sand Medium Sand</b>	
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.8 ft.</b>				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.9 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	TD: <b>35 ft</b>	
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>1/4/10</b>		TOTAL DEPTH:	
SIGNATURE (APPRENTICE) <i>[Signature]</i>		PERMIT NUMBER		DATE			



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		STATE WELL NUMBER	
REVENUE NO.		ENTERED	
APPROVED BY		DATE	ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>185</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>	STATE <b>MO</b>	

SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>		
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>

PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers		TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown	MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides
--	--	---	---

AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____	
LOCATION OF WELL Lat. 38 ° 33 ' 19N Long. 90 ° 48 ' 47W			Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West	

TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
--	---	---	--	--	--

WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
--	---	------------------------------	--------------------------------	--	--

RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL <b>3 ft.</b>	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	SECONDARY FILTER PACK							

GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO <b>0 7</b> <b>7 35</b>	FORMATION DESCRIPTION <b>Clay and Silt Very Fine Sand</b>
---	--	--	--	--	---	--

PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.8 ft.</b>	SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>
---------------------	---------------------------	--	--

ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.6 ft.</b>
--------------	--	--	---------------------------

WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.8 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____
-------------	-------------------------	---------------------------	---	---	--

Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pump Installed for Remediation <input type="checkbox"/> Yes
--	---

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL NI FEET FROM MEASURING POINT	DATE WELL DRILLING WAS COMPLETED <b>12/17</b>
--	--

SIGNATURE (PRIMARY CONTRACTOR)	PERMIT NUMBER <b>2876M</b>
--------------------------------	-------------------------------

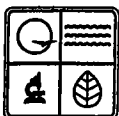
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)	PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>
--------------------------	------------------------------	-----------------------

SIGNATURE (APPRENTICE)	PERMIT NUMBER	DATE
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TOTAL DEPTH:

TD:  
35ft



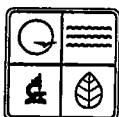
MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
C.R. NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED		DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>187</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.		
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>				
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides		
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST				
LOCATION OF WELL Lat. 38 ° 33 ' 20N Long. 90 ° 48 ' 40W				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West				
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>		
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones    If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO	
PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.8 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.1 ft.</b>		15 35		
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 25 gal.				LENGTH <b>17.7 ft.</b>			
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.8 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes								
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.								
STATIC WATER LEVEL ____ FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10/28</b>				
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>				
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.								
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>11/20/09</b>				
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE				
TOTAL DEPTH:								



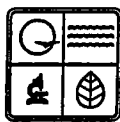


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED Ph1 Ph2 Ph3	APPROVED BY	DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>189</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>			
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST					
LOCATION OF WELL Lat. 38 ° 33 ' 18 " NW Long. 90 ° 49 ' 17 "				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>			
PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____			
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone    Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones        If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO		FORMATION DESCRIPTION <b>Interbedded Clay, Silt, VF Sand Fine Sand Medium Sand Coarse Sand</b>
							0 14		
						14 22			
PRIMARY FILTER PACK	LENGTH <b>13.8 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.0 ft.</b>		SECONDARY FILTER PACK LENGTH <b>2.0 ft.</b>		22 27			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.0 ft.</b>		27 35				
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NA</b> FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>10-16</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>10-26-09</b>			
SIGNATURE (APPRENTICE)				PERMIT NUMBER		DATE			
TOTAL DEPTH:									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.		CHECK NO.	
CR NO.		REVENUE NO.	
STATE WELL NUMBER		APPROVED BY	
ENTERED	DATE	ROUTE	
PH1	PH2	PH3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>191</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>			
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>					
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>		
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST _____ LARGEST _____					
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 16N _____ " Long. 90 _____ ° 49 _____ ' 17W _____ "				Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West					
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____				
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No				DEPTH FROM TO		FORMATION DESCRIPTION <b>Silt and Clay Fine-Very Fine Sand Medium Sand Gravelly Sand Fine Sand</b>
			PRIMARY FILTER PACK LENGTH <b>13.5 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.7 ft.</b>		
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type. <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>16.6 ft.</b>							
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.5 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	TD: <b>35ft</b>			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>					
SIGNATURE (APPRENTICE) <i>[Signature]</i>			PERMIT NUMBER	DATE		TOTAL DEPTH:			



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

**OFFICE USE ONLY**  
**REF NO.**

DATE RECEIVED

CR NO

CHECK NO

STATE WELL NUMBER

REVENUE NO

ENTERED

APPROVED BY

DATE

ROUTE

Ph1

Ph2

Ph3

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME

Ameren

WELL NUMBER

193

VARIANCE GRANTED  
BY DNR

☐ Yes. Attach a copy or  
provide number of variance.

OWNER ADDRESS

1901 Chouteau Ave.

CITY

St. Louis

STATE

MO

ZIP CODE

63166

SITE NAME

Labadie Power Plant

CONTACT NAME

Paul Pike

SITE ADDRESS

226 Labadie Power Plant Rd., MC LBD-645

CITY

Labadie

STATE

MO

ZIP CODE

63055

PROPOSED USE OF WELL

☐ Gas Monitoring Well

☐ Monitoring

☐ Extraction Well

☒ Piezometers

TYPE OF POTENTIAL SITE

☐ Hazardous Material

☒ Landfill

☐ Initial Site Assessment

☐ L.U.S.T.

☐ Water Level Drawdown

MONITORING FOR: (CHECK ALL THAT APPLY)

☐ Radionuclides

☐ Petroleum Products Only

☐ Explosives

☒ Metals

☐ VOC

☐ SVOCS

☐ Pesticides/Herbicides

AREA

1

COUNTY

Franklin

ELEVATION

@465'

SMALLEST

LARGEST

LOCATION OF WELL

Lat. 38 ° 33 ' 15N

Long. 90 ° 49 ' 9W

Section 17 Township 44 North

Range 2 ☒ East ☐ West

TYPE OF  
SURFACE  
COMPLETION

☒ Above Ground

☐ Flush Mount

LENGTH OF  
PROTECTIVE CASING

5 ft.

DIAMETER OF  
PROTECTIVE CASING

6 in.

DIAMETER AND DEPTH OF  
THE HOLE PROTECTIVE  
CASING WAS PLACED

14 in. 2 ft.

PROTECTIVE  
CASING  
MATERIAL

PVC

☐ Steel

☐ Aluminum

☒ Plastic

LOCKING CAP?

☒ Yes

☐ No

WEEP HOLE?

☒ Yes

☐ No

VENTED CAP?

☒ Yes

☐ No

LENGTH OF FLUSH  
MOUNT

ft.

DIAMETER OF FLUSH  
MOUNT

ft.

DIAMETER AND DEPTH OF THE  
HOLE FLUSH MOUNT WAS PLACED

in. ft.

SURFACE  
COMPLETION  
GROUT

☒ Concrete

☐ Other

RISER  
PIPE  
DETAIL

LENGTH

28 ft.

DIAMETER

4 in.

WEIGHT  
OR SDR#

40

DIAMETER OF  
DRILL HOLE

0.85 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

BENTONITE  
SEAL

LENGTH OF  
SEAL

3 ft.

MATERIAL

☒ Slurry

☐ Pellets

☐ Granular ☐ Chips

GLUED

☐ Yes

☒ No

SECONDARY FILTER PACK

☒ Saturated Zone

☐ Unsaturated Zone

Hydrated

☒ Yes

☐ No

☐ Both Zones

If Yes, Hydrated

☐ Yes ☐ No

DEPTH

FROM

TO

0

6

15

28

33

35

FORMATION DESCRIPTION

Silt and Clay

Very Fine Sand

Very Fine Silty Sand

Fine Sand

Medium Sand

PRIMARY  
FILTER  
PACK

LENGTH

13.5 ft.

DEPTH TO TOP OF PRIMARY FILTER PACK

21.4 ft.

SECONDARY FILTER PACK LENGTH

2.0 ft.

ANNULAR  
SEAL

☒ Bentonite Slurry

☐ Cement/Bentonite Slurry

☐ Non Slurry Bentonite Type

☐ Bags of Cement Used

☐ % of Bentonite Used

☒ Water Used/Bag 25 gal.

LENGTH

16.4 ft.

WELL  
SCREEN

LENGTH

10 ft.

DIAMETER

4" ft.

DIAMETER OF  
DRILL HOLE

10.3 in.

DEPTH TO  
TOP OF  
SCREEN

24.6 ft.

MATERIAL

☐ Steel

☒ Thermoplastic (PVC)

☐ Other

TD:

35ft

Multiple Cased Wells ☐ Yes ☒ No

Pump Installed for Remediation ☐ Yes

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.

STATIC WATER LEVEL

NI FEET FROM MEASURING POINT

DATE WELL DRILLING WAS COMPLETED

12/17

SIGNATURE (PRIMARY CONTRACTOR)

PERMIT NUMBER

2876M

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.

SIGNATURE (WELL DRILLER)

PERMIT NUMBER

2836

DATE

1/4/10

SIGNATURE (APPRENTICE)

PERMIT NUMBER

DATE

**TOTAL DEPTH:**

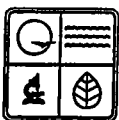


MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED		APPROVED BY	
PH1	PH2	PH3	
		DATE	ROUTE

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>			WELL NUMBER <b>195</b>			VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.			
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>						
SITE NAME <b>Labadie Power Plant</b>			CONTACT NAME <b>Paul Pike</b>						
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>			CITY <b>Labadie</b>			STATE <b>MO</b>		ZIP CODE <b>63166</b>	
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers			TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown			MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCs <input type="checkbox"/> Pesticides/Herbicides			
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ LARGEST _____						
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 17N _____ ° Long. 90 _____ ° 48 _____ ' 54W			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West						
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in. 2 ft.</b>		PROTECTIVE CASING MATERIAL <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT ft.	DIAMETER OF FLUSH MOUNT ft.	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED in. ft.		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____			
RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>2 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.69 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO <b>0 6</b> <b>6 35</b>			
PRIMARY FILTER PACK	LENGTH <b>13.4 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.7 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.2 ft.</b>		FORMATION DESCRIPTION <b>Clay w/Silt VF-F Sand</b>			
ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		LENGTH <b>17.5 ft.</b>						
WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>2" ft.</b>	DIAMETER OF DRILL HOLE <b>8.25 in.</b>	DEPTH TO TOP OF SCREEN <b>24.8 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____				
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pump Installed for Remediation <input type="checkbox"/> Yes									
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.									
STATIC WATER LEVEL NI FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>					
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>					
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.									
SIGNATURE (WELL DRILLER) <i>[Signature]</i>			PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>					
SIGNATURE (APPRENTICE)			PERMIT NUMBER	DATE					
TOTAL DEPTH:									



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
C.R. NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
Ph1	Ph2	Ph3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>197</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>			CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>	
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCS <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST LARGEST			
LOCATION OF WELL Lat. 38 ° 33 ' 14N Long. 90 ° 48 ' 50W				Section 17 Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>6 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	
PROTECTIVE CASING MATERIAL <b>PVC</b>		<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic		LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other					
RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>4 in.</b> WEIGHT OR SDR# <b>40</b> DIAMETER OF DRILL HOLE <b>0.85 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other		BENTONITE SEAL LENGTH OF SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips					
GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No		DEPTH FROM TO <b>0 6</b> <b>6 28</b> <b>28 33</b> <b>33 35</b>		FORMATION DESCRIPTION <b>Silt and Clay</b> <b>VF-F Sand</b> <b>Medium Sand</b> <b>VF-F Sand w/ Wood Fragments</b>	
PRIMARY FILTER PACK LENGTH <b>13.5 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.2 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.9 ft.</b>			
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used <input type="checkbox"/> % of Bentonite Used <input checked="" type="checkbox"/> Water Used/Bag 2.5 gal.		LENGTH <b>16.3 ft.</b>					
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>4" ft.</b> DIAMETER OF DRILL HOLE <b>10.3 in.</b> DEPTH TO TOP OF SCREEN <b>24.4 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other							
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes					
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NI</b> FEET FROM MEASURING POINT				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>		PERMIT NUMBER <b>2836</b>		DATE <b>1/4/10</b>			
SIGNATURE (APPRENTICE) <i>[Signature]</i>		PERMIT NUMBER		DATE		TOTAL DEPTH:	



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
MONITORING WELL  
CERTIFICATION RECORD

OFFICE USE ONLY		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED		APPROVED BY	
P11	P12	P13	ROUTE

INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR

OWNER NAME <b>Ameren</b>		WELL NUMBER <b>199</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>	STATE <b>MO</b>	

SITE NAME <b>Labadie Power Plant</b>		CONTACT NAME <b>Paul Pike</b>		
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>		CITY <b>Labadie</b>	STATE <b>MO</b>	ZIP CODE <b>63055</b>

PROPOSED USE OF WELL		TYPE OF POTENTIAL SITE		MONITORING FOR: (CHECK ALL THAT APPLY)	
<input type="checkbox"/> Gas Monitoring Well	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Hazardous Material	<input checked="" type="checkbox"/> Landfill	<input type="checkbox"/> Radionuclides	<input type="checkbox"/> Petroleum Products Only
<input type="checkbox"/> Extraction Well	<input checked="" type="checkbox"/> Piezometers	<input type="checkbox"/> Initial Site Assessment	<input type="checkbox"/> L.U.S.T.	<input type="checkbox"/> Explosives	<input checked="" type="checkbox"/> Metals
		<input type="checkbox"/> Water Level Drawdown		<input type="checkbox"/> SVOCs	<input type="checkbox"/> VOC
				<input type="checkbox"/> Pesticides/Herbicides	

AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>	SMALLEST _____ 1/4 _____ 1/4 NW _____ 1/4	
LOCATION OF WELL Lat. 38 _____ ° 33 _____ ' 14N _____ " _____ Long. 90 _____ ° 49 _____ ' 13W _____ " _____			Section 17 _____ Township 44 North Range 2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West	

TYPE OF SURFACE COMPLETION	<input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount	LENGTH OF PROTECTIVE CASING <b>5 ft.</b>	DIAMETER OF PROTECTIVE CASING <b>6 in.</b>	DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>14 in. 2 ft.</b>	PROTECTIVE CASING MATERIAL <b>PVC</b>	<input type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input checked="" type="checkbox"/> Plastic	LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	LENGTH OF FLUSH MOUNT <b>ft.</b>	DIAMETER OF FLUSH MOUNT <b>ft.</b>	DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in. ft.</b>	SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____
--	---	-------------------------------------	---------------------------------------	---	--

RISER PIPE DETAIL	LENGTH <b>28 ft.</b>	DIAMETER <b>4 in.</b>	WEIGHT OR SDR# <b>40</b>	DIAMETER OF DRILL HOLE <b>0.85 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____	BENTONITE SEAL	LENGTH OF SEAL <b>3 ft.</b>	MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips
	GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		SECONDARY FILTER PACK <input checked="" type="checkbox"/> Saturated Zone <input type="checkbox"/> Unsaturated Zone Hydrated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both Zones If Yes, Hydrated <input type="checkbox"/> Yes <input type="checkbox"/> No			DEPTH FROM TO	FORMATION DESCRIPTION	

PRIMARY FILTER PACK	LENGTH <b>13.3 ft.</b>	DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.6 ft.</b>	SECONDARY FILTER PACK LENGTH <b>1.8 ft.</b>	0 8 23 28	8 23 28 35	Silt and Clay VF-F Sand VF-F Gley Sand Coarse Sand
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ANNULAR SEAL	<input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry		LENGTH <b>16.8 ft.</b>
	<input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal.		

WELL SCREEN	LENGTH <b>10 ft.</b>	DIAMETER <b>4" ft.</b>	DIAMETER OF DRILL HOLE <b>10.3 in.</b>	DEPTH TO TOP OF SCREEN <b>24.6 ft.</b>	MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____
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Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Pump Installed for Remediation <input type="checkbox"/> Yes	
--	--	---	--

Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.	
---	--

STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>	DATE WELL DRILLING WAS COMPLETED <b>12/17</b>
---	--

SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>	PERMIT NUMBER <b>2876M</b>
--	-------------------------------

I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.		
SIGNATURE (WELL DRILLER) <i>[Signature]</i>	PERMIT NUMBER <b>2836</b>	DATE <b>1/4/10</b>
SIGNATURE (APPRENTICE) <i>[Signature]</i>	PERMIT NUMBER	DATE

TOTAL DEPTH:



MISSOURI DEPARTMENT OF  
NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
WELLHEAD PROTECTION SECTION  
**MONITORING WELL  
CERTIFICATION RECORD**

<b>OFFICE USE ONLY</b>		DATE RECEIVED	
REF NO.			
CR NO.		CHECK NO.	
STATE WELL NUMBER		REVENUE NO.	
ENTERED	APPROVED BY	DATE	ROUTE
PH1	PH2	PH3	

**INFORMATION SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR**

OWNER NAME <b>Ameren</b>				WELL NUMBER <b>201</b>		VARIANCE GRANTED BY DNR <input type="checkbox"/> Yes. Attach a copy or provide number of variance.	
OWNER ADDRESS <b>1901 Chouteau Ave.</b>		CITY <b>St. Louis</b>		STATE <b>MO</b>	ZIP CODE <b>63166</b>		
SITE NAME <b>Labadie Power Plant</b>				CONTACT NAME <b>Paul Pike</b>			
SITE ADDRESS <b>226 Labadie Power Plant Rd., MC LBD-645</b>				CITY <b>Labadie</b>		STATE <b>MO</b>	ZIP CODE <b>63055</b>
PROPOSED USE OF WELL <input type="checkbox"/> Gas Monitoring Well <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction Well <input checked="" type="checkbox"/> Piezometers				TYPE OF POTENTIAL SITE <input type="checkbox"/> Hazardous Material <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Initial Site Assessment <input type="checkbox"/> L.U.S.T. <input type="checkbox"/> Water Level Drawdown		MONITORING FOR: (CHECK ALL THAT APPLY) <input type="checkbox"/> Radionuclides <input type="checkbox"/> Petroleum Products Only <input type="checkbox"/> Explosives <input checked="" type="checkbox"/> Metals <input type="checkbox"/> VOC <input type="checkbox"/> SVOCs <input type="checkbox"/> Pesticides/Herbicides	
AREA <b>1</b>	COUNTY <b>Franklin</b>	ELEVATION <b>@465'</b>		SMALLEST                      LARGEST			
LOCATION OF WELL Lat. 38      °    33      '    12N      ° Long. 90     °    49      '    6W      °				Section 17      Township    44    North      Range    2 <input checked="" type="checkbox"/> East <input type="checkbox"/> West			
TYPE OF SURFACE COMPLETION <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Flush Mount		LENGTH OF PROTECTIVE CASING <b>5 ft.</b>		DIAMETER OF PROTECTIVE CASING <b>4x4 in.</b>		DIAMETER AND DEPTH OF THE HOLE PROTECTIVE CASING WAS PLACED <b>12 in.    2 ft.</b>	
WEEP HOLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		VENTED CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		LENGTH OF FLUSH MOUNT <b>ft.</b>		DIAMETER OF FLUSH MOUNT <b>ft.</b>	
DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACED <b>in.      ft.</b>		SURFACE COMPLETION GROUT <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Other _____		PROTECTIVE CASING MATERIAL <b>PVC</b>		<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Aluminum <input type="checkbox"/> Plastic	
LOCKING CAP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		RISER PIPE DETAIL LENGTH <b>28 ft.</b> DIAMETER <b>2 in.</b> WEIGHT OR SDR# <b>40</b> GLUED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DIAMETER OF DRILL HOLE <b>.69 ft.</b> MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		BENTONITE SEAL <b>3 ft.</b> MATERIAL <input checked="" type="checkbox"/> Slurry <input type="checkbox"/> Pellets <input type="checkbox"/> Granular <input type="checkbox"/> Chips	
PRIMARY FILTER PACK LENGTH <b>13.7 ft.</b>		DEPTH TO TOP OF PRIMARY FILTER PACK <b>21.3 ft.</b>		SECONDARY FILTER PACK LENGTH <b>1.3 ft.</b>		DEPTH FROM    TO <b>0      10</b> <b>10     23</b> <b>23     28</b> <b>28     35</b>	
ANNULAR SEAL <input checked="" type="checkbox"/> Bentonite Slurry <input type="checkbox"/> Cement/Bentonite Slurry <input type="checkbox"/> Non Slurry Bentonite Type <input type="checkbox"/> Bags of Cement Used _____ <input type="checkbox"/> % of Bentonite Used _____ <input checked="" type="checkbox"/> Water Used/Bag 25 gal. <b>17.0 ft.</b>		LENGTH <b>17.0 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		FORMATION DESCRIPTION <b>Silt and Clay</b> <b>Very Fine Silty Gley Sand</b> <b>Very Fine Sand</b> <b>Medium Sand</b>	
WELL SCREEN LENGTH <b>10 ft.</b> DIAMETER <b>2" ft.</b> DIAMETER OF DRILL HOLE <b>8.25 in.</b> DEPTH TO TOP OF SCREEN <b>24.7 ft.</b>		MATERIAL <input type="checkbox"/> Steel <input checked="" type="checkbox"/> Thermoplastic (PVC) <input type="checkbox"/> Other _____		TD: <b>35ft</b>			
Multiple Cased Wells <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      Pump Installed for Remediation <input type="checkbox"/> Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.							
STATIC WATER LEVEL <b>NI FEET FROM MEASURING POINT</b>				DATE WELL DRILLING WAS COMPLETED <b>12/17</b>			
SIGNATURE (PRIMARY CONTRACTOR) <i>[Signature]</i>				PERMIT NUMBER <b>2876M</b>			
I hereby certify that the monitoring well herein described was constructed in accordance with the Department of Natural Resources requirements for the construction of monitoring wells.							
SIGNATURE (WELL DRILLER) <i>[Signature]</i>				PERMIT NUMBER <b>2836</b>		DATE <b>1/4/10</b>	
SIGNATURE (APPRENTICE) <i>[Signature]</i>				PERMIT NUMBER		DATE	
<b>TOTAL DEPTH:</b>							

# **Appendix 8**

## **Development Records**

Detailed Site Investigation  
Proposed Utility Waste Disposal Area  
Ameren Labadie Power Plant

Prepared by: GREDELL Engineering Resources, Inc.



## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/02/09			
Piezometer:			P-9			Initial Depth to Groundwater (ft, btoc): 7.65 ft			
Borehole Diameter:			10.25"			Base of Well (ft, btoc): 37.97 ft			
Casing Diameter:			4"			Filter Pack Hgt (ft): 15.5 ft			
Development method:			Submersible Pump/Bailer			Screened Interval Lithology: Coarse sand			
Date/Time of each purge	Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)	
11/2/09	2:34	171	19.7	16.9	56	166	clear	7.65	same
Comments:									
Name:	Mike Carlson					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/13/09			
Piezometer: P-15						Initial Depth to Groundwater (ft, btoc): 13.89 ft			
Borehole Diameter: 8.25"						Base of Well (ft, btoc): 37.55 ft			
Casing Diameter: 2"						Filter Pack Hgt (ft): 14.2 ft			
Development method: Submersible Pump/Bailer						Screened Interval Lithology: Medium sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/7	10:39							17.17	
10/13	9:46		3.8	6.1	30	60		13.89	
10/13	9:59 - 10:12	20						13.89	
10/13	10:17 - 10:29	20 (40)							
10/13	10:35 - 10:47	20 (60)							13.89
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/13/09			
Piezometer:		P-17				Initial Depth to Groundwater (ft, btoc):		14.22 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.59 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		14.1 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Fine sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/7	10:20							16.72	
10/13	11:19		3.7	6.1	30	59		14.22	
10/13	11:27 - 11:39	20						14.22	
10/13	11:43 - 11:56	20 (40)							
10/13	12:01 - 12:13	20 (60)							14.21
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/13/09			
Piezometer:		P-20				Initial Depth to Groundwater (ft, btoc):		13.46 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.50 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		14.7 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Fine sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/13	8:27		3.8	6.3	25	56		13.46	
10/13	8:40 - 8:52	20							
10/13	8:57 - 9:09	20 (40)							
10/13	9:15 - 9:25	15 (55)							13.44
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/14/09			
Piezometer: P-22						Initial Depth to Groundwater (ft, btoc): 13.21 ft			
Borehole Diameter: 10.25"						Base of Well (ft, btoc): 37.50 ft			
Casing Diameter: 4"						Filter Pack Hgt (ft): 13.5 ft			
Development method: Submersible Pump/Bailer						Screened Interval Lithology: Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/14	2:11		15.8	14.7	36	128		13.21	
10/14	2:20 - 2:34	20							
10/14	2:40 - 3:05	20 (40)							
10/14	3:14 - 3:28	20 (60)							
10/14	3:54 - 4:20	20 (80)						13.18	
10/14	4:28 - 4:46	20 (100)							
10/14	5:00 - 5:14	20 (120)							
10/14	5:17 - 5:34	15 (135)							13.15
Comments: Pump Clogged									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/12/09			
Piezometer:		P-24				Initial Depth to Groundwater (ft, btoc):		13.78 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.61 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		14.2 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Fine-Medium sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/7								15.70	
10/12	1:48		3.8	6.1	35	65		13.78	
10/12	2:01 - 2:13	20						13.78	
10/12	2:20 - 2:33	20 (40)							
10/12	2:39 - 2:50	20 (60)							
10/12	2:53 - 2:56	5 (65)							13.78
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		



## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/11/09			
Piezometer:		P-31				Initial Depth to Groundwater (ft, btoc):		7.81 ft	
Borehole Diameter:		10.25"				Base of Well (ft, btoc):		37.09 ft	
Casing Diameter:		4"				Filter Pack Hgt (ft):		15.0 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Very Fine sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/11	5:04 - 5:10	72	19.0	16.4	50	156		7.81	
11/11	5:10 - 5:18	48 (120)							
11/11	5:18 - 5:24	45 (165)							8.61
Comments:									
Name:	Mike Carlson & Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/12/09			
Piezometer:		P-35				Initial Depth to Groundwater (ft, btoc):		12.36 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		36.41 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		13.7 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Gravelly sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/7	10:50							14.68	
10/12	5:35		3.8	5.9	50	79			
	5:40 - 5:51	20						12.36	
	5:55 - 6:06	20 (40)							
	6:11 - 6:22	20 (60)							
	6:28 - 6:40	20 (80)							12.36
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI					Date: 10/12/09				
Piezometer:		P-38			Initial Depth to Groundwater (ft, btoc):		11.34 ft		
Borehole Diameter:		8.25"			Base of Well (ft, btoc):		37.16 ft		
Casing Diameter:		2"			Filter Pack Hgt (ft):		15.3 ft		
Development method:		Submersible Pump/Bailer			Screened Interval Lithology: sand				
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/12	9:20		4.1	6.6	40	72		11.34	
10/12	9:39							11.34	
10/12	9:39 - 9:51	20							
10/12	9:57 - 10:11	20 (40)							
10/12	10:18 - 10:32	20 (60)							
10/12	10:37 - stop								
10/12	11:41 - start							11.32	
10/12	11:42 - 11:51	12 (72)							11.28
Comments:									
Name: Scott King Company: Gredell Engineering Resources, Inc.									

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/02/09			
Piezometer:		P-40				Initial Depth to Groundwater (ft, btoc):		5.01 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.73 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		16.0 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Medium-Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/2	10:08		5.2	6.9	38	74		5.01	
	10:12 - 10:58	5							
	10:58 - 11:18	5 (10)							
	11:18 - 11:38	5 (15)							
	11:53 - 12:05	20 (35)							
	12:20 - 12:31	20 (55)							
	12:36 - 12:47	19.5 (74.5)							5.02
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		



## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/02/09			
Piezometer:		P-49				Initial Depth to Groundwater (ft, btoc):		6.07 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.81 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		15.5 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/2	1:22		5.1	6.7	38	73		6.07	
	1:23 - 1:50	5							
	1:52 - 2:01	20 (25)							
	2:06 - 2:19	20 (45)							
	2:24 - 2:34	20 (65)							
	2:42 - 2:48	8.5 (73.5)							6.08
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/29/09			
Piezometer:		P-53				Initial Depth to Groundwater (ft, btoc):		7.57 ft	
Borehole Diameter:		10.25"				Base of Well (ft, btoc):		37.10 ft	
Casing Diameter:		4"				Filter Pack Hgt (ft):		15.0 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Very Fine-Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/29	8:17	122	19.2	16.4	53	160		7.57	7.57
11/2	10:00	48 (170)						5.08	5.08
Comments:									
Name:	Mike Carlson					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]



## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/19/09			
Piezometer:			P-59			Initial Depth to Groundwater (ft, btoc):			7.87 ft
Borehole Diameter:			8.25"			Base of Well (ft, btoc):			37.37 ft
Casing Diameter:			2"			Filter Pack Hgt (ft):			14.6 ft
Development method:			Submersible Pump/Bailer			Screened Interval Lithology: Medium-Gravelly sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/19	11:19		4.7	6.3	38	71		7.87	
	11:25 - 11:39	20							
	11:45 - 11:59	20 (40)							
	12:06 - 12:21	20 (60)							
	12:26 - 12:34	11.5 (71.5)							7.86
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

Location: Ameren Labadie Plant DSI					Date: 11/12/09				
Piezometer:		P-61			Initial Depth to Groundwater (ft, btoc):		6.41 ft		
Borehole Diameter:		10.25"			Base of Well (ft, btoc):		37.53 ft		
Casing Diameter:		4"			Filter Pack Hgt (ft):		14.7 ft		
Development method:		Submersible Pump/Bailer			Screened Interval Lithology: Medium-Coarse sand				
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/12	8:15		20.2	16	50	159		6.41	
	8:24 - 8:41	170							6.81
Comments:									
Name: Mike Carlson & Scott King					Company: Gredell Engineering Resources, Inc.				

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/04/09			
Piezometer:		P-69				Initial Depth to Groundwater (ft, btoc):		3.94 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.54 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		14.7 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Fine-Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/4	2:45		5.4	6.3	40	75		3.94	
11/4	2:46 - 3:00	2							
11/4	3:00 - 3:12	20 (22)							
11/4	3:17 - 3:29	20 (42)							
11/4	3:35 - 3:47	20 (62)							
11/4	3:51 - 3:58	13 (75)							3.98
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]



## Piezometer Development Record

Location: Ameren Labadie Plant DSI					Date: 11/12/09				
Piezometer: P-73					Initial Depth to Groundwater (ft, btoc): 7.51 ft				
Borehole Diameter: 10.25"					Base of Well (ft, btoc): 36.84 ft				
Casing Diameter: 4"					Filter Pack Hgt (ft): 14.7 ft				
Development method: Submersible Pump/Bailer					Screened Interval Lithology: Fine-Gravelly sand				
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/12	8:56		19.1	16	40	145		7.51	
11/12	9:04 - 9:20	160							7.99
Comments:									
Name: Mike Carlson & Scott King					Company: Gredell Engineering Resources, Inc.				

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 10/19/09			
Piezometer:		P-77				Initial Depth to Groundwater (ft, btoc):		8.01 ft.	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.45 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		15.1	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Coarse-Very Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
10/19	3:15		4.7	6.5	31	65		8.01	
10/19	3:18 - 3:31	20							
10/19	3:35 - 3:48	20 (40)							
10/19	3:53 - 4:04	20 (60)							
10/19	4:09 - 4:12	5 (65)							8.01
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI					Date: 11/11/09				
Piezometer: P-81					Initial Depth to Groundwater (ft, btoc): 7.66 ft				
Borehole Diameter: 10.25"					Base of Well (ft, btoc): 37.43 ft				
Casing Diameter: 4"					Filter Pack Hgt (ft): 14.8 ft				
Development method: Submersible Pump/Bailer					Screened Interval Lithology: sand				
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/11	2:07		19.4	16.1	53	159		7.66	
11/11	2:22 - 2:35	162							7.70
Comments:									
Name: Mike Carlson & Scott King					Company: Gredell Engineering Resources, Inc.				

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/30/09			
Piezometer:		P-85				Initial Depth to Groundwater (ft, btoc):		4.61 ft	
Borehole Diameter:		10.25"				Base of Well (ft, btoc):		36.71 ft	
Casing Diameter:		4"				Filter Pack Hgt (ft):		15.3 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Very Fine-Medium sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/30	2:08		20.9	16.7	50	163		4.61	
11/30	2:15 - 2:34	165							4.91
Comments:									
Name:	Travis Doll & Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]



## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/06/09			
Piezometer:		P-93				Initial Depth to Groundwater (ft, btoc):		4.88 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		36.90 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		14.5 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Coarse sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/6	11:16		5.1	6.2	69	103		4.88	
11/6	11:17 - 11:43	4							
11/6	11:45 - 11:57	20 (24)							
11/6	12:02 - 12:13	20 (44)							
11/6	12:18 - 12:29	20 (64)							
11/6	12:34 - 12:46	20 (84)							
11/6	12:53 - 1:04	19 (103)							4.88
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/09/09			
Piezometer:		P-99				Initial Depth to Groundwater (ft, btoc):		4.36 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		36.55 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		15.0 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Coarse-Gravelly sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/9	1:47		5.2	6.5	60	95		4.36	
11/9	1:49 - 2:09	5							
11/9	2:11 - 2:22	20 (25)							
11/9	2:26 - 2:37	20 (45)							
11/9	2:45 - 2:56	20 (65)							
11/9	2:59 - 3:09	20 (85)							
11/9	3:14 - 3:20	10 (95)							4.38
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/11/09			
Piezometer:		P-104				Initial Depth to Groundwater (ft, btoc):		5.14 ft	
Borehole Diameter:		10.25"				Base of Well (ft, btoc):		37.34 ft	
Casing Diameter:		4"				Filter Pack Hgt (ft):		15.0 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Very Fine-Fine sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/11	2:47		20.9	16.4	39	151		5.14	
11/11	4:27							5.17	
11/11	4:29 - 4:42	156							6.25
Comments:									
Name:	Mike Carlson & Scott King					Company:	Gredell Engineering Resources, Inc.		



## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

[illegible]

## Piezometer Development Record

Location: Ameren Labadie Plant DSI						Date: 11/02/09			
Piezometer:		P-118				Initial Depth to Groundwater (ft, btoc):		5.16 ft	
Borehole Diameter:		8.25"				Base of Well (ft, btoc):		37.96 ft	
Casing Diameter:		2"				Filter Pack Hgt (ft):		15.3 ft	
Development method:		Submersible Pump/Bailer				Screened Interval Lithology: Fine-Medium sand			
Date/Time of each purge		Purge Volume (cummulative) (gallons)	Casing Volume (gallons)	Annular Volume (gallons)	Tremie Volume (gallons)	Total Purge Volume (gallons)	Turbidity (visual)	Initial Water Level (ft., btoc)	Ending Water Level (ft., btoc)
11/12	11:16		5.2	6.6	28	63		5.16	
11/12	11:21 - 11:45	4							
11/12	11:47 - 11:58	20 (24)							
11/12	12:03 - 12:14	20 (44)							
11/12	12:19 - 12:30	20 (64)							5.09
Comments:									
Name:	Scott King					Company:	Gredell Engineering Resources, Inc.		