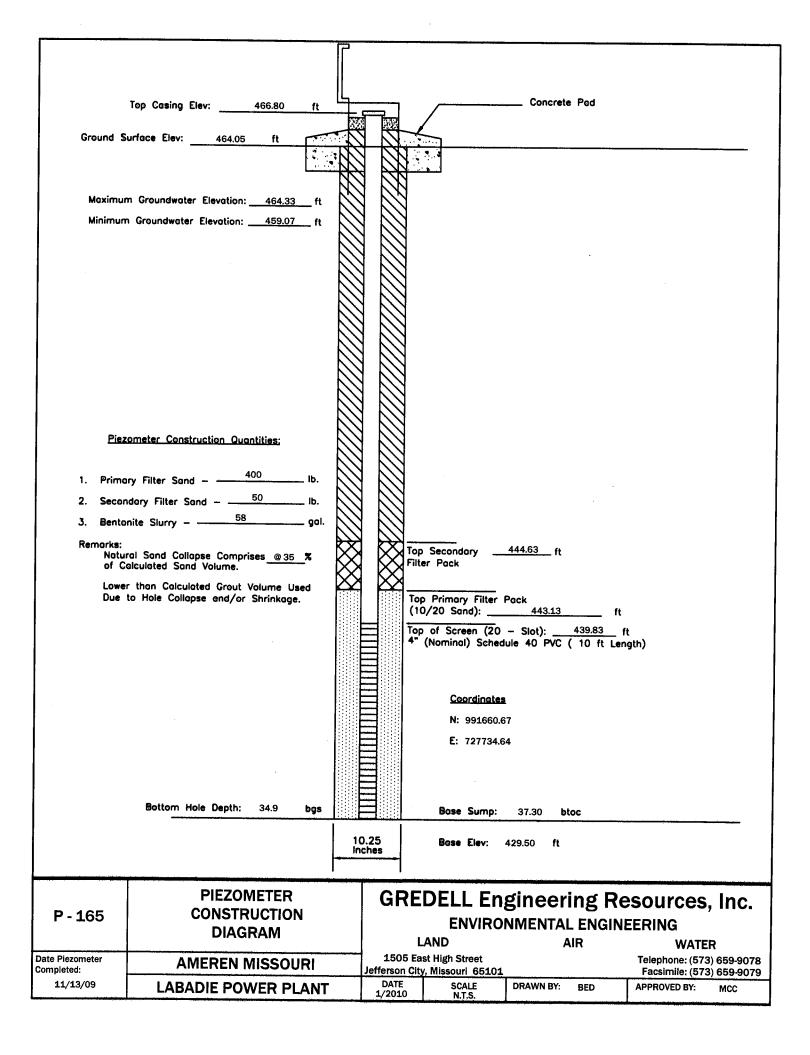
1	79-27				
	Top Cosing Elev: 467.60 ft			Concrete Pad	
Ground	Surface Elev: 464.89 ft	2 2			
		3 13			
1	um Groundwater Elevation: 463.72 ft				
Minimu	m Groundwater Elevation: 459.30 ft				
<u>Pie</u>	zometer Construction Quantities;				
1	ary Filter Sand – 250 lb.				
	ndary Filter Sand $-\frac{50}{49}$ lb. onite Slurry $-\frac{49}{9}$ gal.				
Remarks:		\emptyset	Top Secondary	_444.89 ft	
of C	Calculated Sand Volume.	\aleph	Filter Pack		
			Top Primary Filter (20/40 Sand):		ŧ
			Top of Screen (10 2" (Nominal) Schee	- Slot): 440.69	ft enath)
				, -	•
			Coordingter	i	
			N: 991964.3 E: 728791.3		
			C. 720791.3	5 0	
	Bottom Hole Depth: 34.8 bgs		Base Sump:	37.24 btoc	
	-	8.25 Inches	Bose Elev:	430.36 ft	
	PIEZOMETER	GR	EDELL En	gineering R	esources, Inc.
P - 156	CONSTRUCTION DIAGRAM		ENVIRO	NMENTAL ENGIN	
Date Piezometer	AMEREN MISSOURI	1505	LAND East High Street	AIR	WATER Telephone: (573) 659-9078
Completed: 11/09/09	LABADIE POWER PLANT	Jefferson DATE 1/2010	City, Missouri 65101 SCALE N.T.S.	DRAWN BY: BED	Facsimile: (573) 659-9079 APPROVED BY: MCC

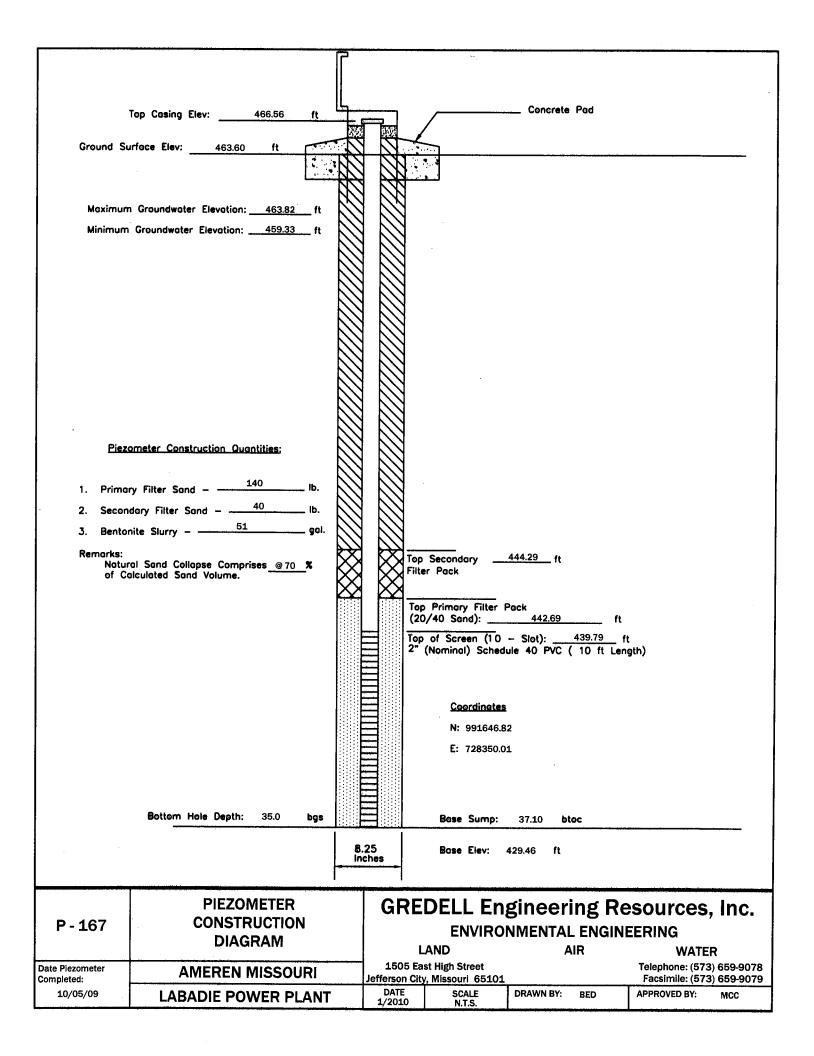
		1				
	Top Casing Elev: 467.63 ft	Ц		<i></i>	Concrete Pad	
		878	20%			
Ground Su	urface Elev: 464.72 ft	7				
Maximum	Groundwater Elevation: 463.51 ft			\$		
Minimum	Groundwater Elevation: 459.47 ft					
				3		
				3		
				3		
				1		
				1		
Piez	ometer Construction Quantities:					
	THE TOTAL STATE OF THE STATE OF					
1. Prima	ry Filter Sand - 250 lb.			}		
	dary Filter Sand - 50 lb.					
	nite Slurry – 41 gol.					
Remarks:	•		\longrightarrow	To Secondary	444.62 ft	
Notur	al Sand Collapse Comprises @ 45 %	\bowtie	\otimes	Top Secondary Filter Pack	11	
	than Calculated Grout Volume Used	\boxtimes	\boxtimes			
Due t	to Hole Collapse and/or Shrinkage.			Top Primory Filter P (20/40 Sand):		ft
			=	Top of Screen (10	- Slot): 440.32	ft
			=	2" (Nominal) Schedu	ule 40 PVC (10 ft L	ength)
			3			
			=	Coordinates		
				N: 991945.43	4	
				E: 729368.05		
			3		,	
			=			
	Ballon Hala Dartha 040		3			iq.
	Bottom Hole Depth: 34.9 bgs			Base Sump:	37.64 btoc	
		8.	25 ches	Base Elev: 4	129.99 ft	
	PIEZOMETER		\sim 1	DEDELL Ex	dinocrind D	Occursos Inc
P-158 CONSTRUCTION			G			Resources, Inc.
. 100	DIAGRAM			ENVIROI LAND	NMENTAL ENGII AIR	
Date Plezometer	AMEDEN MICCOLLO		150	LAND 05 East High Street	AIR	WATER Telephone: (573) 659-9078
Completed:	AMEREN MISSOURI			n City, Missouri 65101	DDAWN BY:	Facsimile: (573) 659-9079
11/13/09	LABADIE POWER PLANT		1/20:	SCALE LO N.T.S.	DRAWN BY: BED	APPROVED BY: MCC

			Concrete Pad
	Top Casing Elev: 466.42 ft	920 (13)	Concrete Fgg
Ground Si	urface Elev: 463.70 ft	ŽŽ	
		3 2	
	n Groundwater Elevation: 463.11 ft		
Minimum	Groundwater Elevation: 459.60 ft	3 8	
		3 1	
		3 8	
		3 13	
		3 8	
		3 1	
Piez	ometer Construction Quantities:	3 ()	
	275		
1. Prima	ry Filter Sand - 275 lb.		
	olto Sture and - 40 lb.	3 1	
	nite Slurry – 33 gal.	2 6	
Remarks: Natur	ral Sand Collapse Comprises @40 %	\otimes	Top Secondary <u>443.55</u> ft Filter Pack
	alculated Sand Volume. r than Calculated Grout Volume Used	ЯХ	X
Due	to Hole Collapse and/or Shrinkage.		Top Primary Filter Pack (20/40 Sand): 442.05 ft
			Top of Screen (10 - Slot): 438.85 ft
			2" (Nominal) Schedule 40 PVC (10 ft Length)
		E	Coordinates
			N: 991884.45
			E: 729979.25
	Bottom Hole Depth: 35.0 bgs		Base Sump: 37.90 btoc
		8.25	Bose Elev: 428.52 ft
	-	Inches	-
	PIEZOMETER		DEDELL Fordings also de Deserver de
P - 160	CONSTRUCTION	6	REDELL Engineering Resources, Inc.
. ===	DIAGRAM		ENVIRONMENTAL ENGINEERING LAND AIR WATER
Date Piezometer	AMEREN MISSOURI		05 East High Street Telephone: (573) 659-9078
Completed: 12/11/09	LABADIE POWER PLANT	DAT	
	PURULI ALLEU LEVILI	1/20	010 N.T.S.

Maximu Minimur 1. Prima 2. Secon 3. Benta Remarks: Natu of C	Top Casing Elev: 465.98 ft Surface Elev: 463.28 ft Image: 463.07 ft	Top Secondary 443.40 ft Filter Pack Top Primary Filter Pack (20/40 Sand): 441.60 ft Top of Screen (10 – Slot): 438.60 ft 4" (Nominal) Schedule 40 PVC (10 ft Length) Capardinates N: 991801.20 E: 730861.78 Base Sump: 37.71 blac 10.25 fnches Rose Elev: 428.27 ft
	PIEZOMETER	GREDELL Engineering December 1
P - 162 Date Piezometer	CONSTRUCTION DIAGRAM AMEREN MISSOURI	GREDELL Engineering Resources, Inc. ENVIRONMENTAL ENGINEERING LAND AIR WATER 1505 East High Street Telephone: (573) 659-9078
Completed: 12/10/09	LABADIE POWER PLANT	Jefferson City, Missouri 65101 Facsimile: (573) 659-9079 DATE
		1 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

·								
Te	op Cosing Elev: 465.83 ft			/	<u> </u>	_ Concrete	Ped	
Ground Sur	*			<u> </u>	<u> </u>	,, 		
								•
	Groundwater Elevation: 462.86 ft							
Minimum	Groundwater Elevation: <u>459.67</u> ft							
Piezo	meter Construction Quantities:							
	275							
	y Filter Sand — 375 lb. lary Filter Sand — 100 lb.							
3. Benton	ite Slurry – 57 gol.							
Remarks: Nature of Ca	al Sand Collapse Comprises @40 % Iculated Sand Volume.		\bigotimes	Top Filt e r	Secondary Pack	<u>444.10</u> ft		
	than Calculated Grout Volume Used o Hole Collapse and/or Shrinkage.	\times	XX		Primary Filter P	' ock 442,10	44	
				l . ' . '	/20 Sand): of Screen (20 Nominal) Schedu		ft 438.90 ft	orb)
					Nonimary Schedu	116 40 FVC V	(TO IC CBIN	, <i>,</i>
					<u>Goordinates</u>			
					N: 991871.12 E: 731169.33			
					E. 7311 03 .33	•		
					·			
	Bottom Hole Depth: 34.8 bgs			<u> </u>	Base Sump:		toc	
		In	0.25 ches		Base Elev: 4	428.57 ft		
	PIEZOMETER		GI	RE		_	_	sources, Inc.
P - 164	CONSTRUCTION DIAGRAM			L	ENVIROI AND	NMENTA	L ENGINI AIR	EERING WATER
Date Piezometer Completed:	AMEREN MISSOURI			05 Eas	st High Street , Missouri 65101	·-··		Telephone: (573) 659-9078 Facsimile: (573) 659-9079
12/04/09	LABADIE POWER PLAN	Γ	DAT 1/20:		SCALE N.T.S.	DRAWN BY:	BED	APPROVED BY: MCC





	Top Casing Elev: 46	7.42 ft	<u> </u>	 _		Concrete Pad			
Ground Su	orface Elev: 464.75	ft Park			/ 			_	
Maximum	Groundwater Elevation:	463.62 ft							
	Groundwater Elevation:	459.50 ft							
		Ì							
<u>Piezo</u>	ometer Construction Quantit	ies:					•		
1. Prima	ry Filter Sand - 400	lb.							
	dary Filter Sand - 90	ib. gal.							
Remarks:	inte Siurry –				Secondary	445.02 ft			
	al Sand Collapse Comprises siculated Sand Volume.	<u>@35</u> %	\boxtimes		er Pack	π			
Lower Due 1	than Calculated Grout Volu to Hole Collapse and/or Sh	ıme Used rinkage.	$\stackrel{\sim}{}$		Primary Filter F				
				1000001	· · —	- Slot): 439.82 f	·		
					(Nominal) Schedu	ule 40 PVC (10 ft Len	gth)		
			E		Coordinates				
			E		N: 991653.9	7			
					E: 729053.82	2			
							•		
	Bottom Høle Depth: 3	5.0 bgs			Base Sump:	37.93 btoc			
			8.25	8	Base Elev: 4	429.49 ft			
· · · · · · · · · · · · · · · ·									
D 460	PIEZOME			GRE		gineering Re	•	c.	
P - 169 CONSTRUCTION DIAGRAM				ENVIRONMENTAL ENGINEERING LAND AIR WATER					
Date Piezometer Completed:	AMEREN MI	SSOURI	Jei	1505 Ea	st High Street y, Missouri 65101	AIII	Telephone: (573) 659-9 Facsimile: (573) 659-9		
12/02/09	LABADIE POWE	R PLANT	1	DATE 1/2010	SCALE N.T.S.	DRAWN BY: BED	APPROVED BY: MCC		

ļ	Top Casing Elev: 466.87 ft	هـــ			Concrete Ped	
		325	W.			
Ground S	urface Elev: 463.97 ft		Z		· · · · · · · · · · · · · · · · · · ·	
		:100				
						
Maximun	n Groundwater Elevation: 463.38 ft					
Minimum	Groundwater Elevation: <u>459.57</u> ft					
				3		
				3		
				3		
				}		
-				3		
				\$		
©:	complex Construction O and the			\$		
: <u></u>	ometer Construction Quantities:			3		
1. Primo	ery Filter Sand – 275 lb.			3		
	ndary Filter Sand - 50 lb.			3		
	nite Slurry - 56 gol.			3		
Remarks:	July -					
Notur	ral Sand Collapse Comprises @40 % alculated Sand Volume.	\bowtie	\otimes	Top Secondary Filter Pack	444.20 ft	
	elculated Sand Yoldme.	\bowtie	\otimes			
				Top Primary Filter		
		_	_	(20/40 Send):	442.60 ft	
			3	2" (Nominal) Sched	- Slot): <u>439.50</u> Jule 40 PVC (10 ft Le	ngth)
		E	3			
			∄			
		E	3	<u>Conglinate</u>	_	
		=		N: 991629.		
			3	E: 729636.7	72	
			=			
	Sottom Hole Depth: 35.0 bgs		3	Base Sump:	37.70 btoc	
		8.2	25	Base Elev:	429.17 ft	
		Inc	hes	2000 2.000		
		· · · · · · · · · · · · · · · · · · ·	•			
	PIEZOMETER	- 1	Gl	REDELL En	gineering Re	esources, Inc.
P-171	CONSTRUCTION DIAGRAM			ENVIRO	NMENTAL ENGIN	EERING
		لغاسورس	<u></u>	LAND	AIR	WATER
Date Piezometer Completed:	AMEREN MISSOURI].		05 East High Street in City, Missouri 65101		Telephone: (573) 659-9078 Facsimile: (573) 659-9079
12/02/09	LABADIE POWER PLANT	T	DAT 1/20:	E SCALE LO N.T.S.	DRAWN BY: BED	APPROVED BY: MCC

	Top Casing Elev: 466.33 ft		1 /		Concrete	Pad		
Ground Su	urface Elev: 463.40 ft							_
	n Groundwater Elevation: <u>463.15</u> ft n Groundwater Elevation: <u>459.67</u> ft							
1. Prima 2. Secon 3. Bento Remorks: Notur	ometer Construction Quantities: ry Filter Sand — 300 lb. Idary Filter Sand — 50 lb. Inite Slurry — 50 gal. ral Sand Collapse Comprises <u>@ 30</u> % alculated Sand Volume.		Top Sec Filter Po	 ondary ick	<u>442.55</u> ft			
	Bottom Hole Depth: 35.0 bgs		(20/40 Top of 2" (Non		441.35 - Slot): ule 40 PVC (ft 438,75 f (10 ft Len	t gth)	-
		8.25 Inches	8	ise Elev:	428.42 ft			
P - 173	PIEZOMETER CONSTRUCTION DIAGRAM		LAND	ENVIRO	NMENTAL	_	EERING WATER Telephone: (573) 659-	
Date Piezometer Completed:	AMEREN MISSOURI	Jeffer	son City, Mis	souri 65101		· • · · · · · · · · · · · · · · · · · ·	Facsimile: (573) 659-	9079
12/12/09	LABADIE POWER PLANT		ATE 010	SCALE	DRAWN BY:	BED	APPROVED BY: MCC	; [

•		Ĺ		Consider Bod
	Top Casing Elev: 466.06 ft		733	Concrete Pad
Ground Su	urface Elev: 463.57 ft	代	N	
		1	14	
	L		1	(
Meximun	n Groundwater Elevation: 462.98 ft			
	Groundwater Elevation: 459.70 ft			
,				
		M		
Piez	ometer Construction Quantities:			
1. Prima	ry Filter Sand - 250 lb.	M		
2. Secon	idary Filter Sand — 40 lb.			
3. Bento	nite Slurry – 42. gal.			
Remarks:	and Good College Country of the	$\langle \chi \rangle$	\Rightarrow	Top Secondary 444.00 ft
of Co	ral Sand Collapse Comprises @ 50 % olculated Sand Volume.	\boxtimes	\bowtie	Filter Pack
	r than Calculated Grout Volume Used to Hole Collapse and/or Shrinkage.	XX	\sim	Top Primary Filter Pack
<i>D</i> 06	to hole consepse unayor simmage.			(20/40 Sond): 443.00
			3	Top of Screen (10 - Slot): 438.60 ft 2" (Nominal) Schedule 40 PVC (10 ft Length)
			\exists	- (Nonline) Schedule 40 F4C (10 It Length)
				Coordinates
				N: 991556.51
				E : 730873.59
			=	
			\equiv	
	Bottom Hole Depth: 35.0 bgs			Base Sump: 37.79 btoc
		R	25	Bose Elev: 428.27 ft
		In:	hes	5056 Elev: 428.27 R
		·\$240, ir		I
	PIEZOMETER		GI	REDELL Engineering Resources, Inc.
P-175	P - 175 CONSTRUCTION DIAGRAM			ENVIRONMENTAL ENGINEERING
	DIAGRAM			LAND AIR WATER
Date Piezometer Completed:	AMEREN MISSOURI			05 East High Street Telephone: (573) 659-9078 on City, Missouri 65101 Facsimile: (573) 659-9079
12/15/09	LABADIE POWER PLANT		DAT	

	· · · · · · · · · · · · · · · · · · ·								
						Consesso B			
·	Top Casing Elev:	466.87 ft	220 102	v.		Concrete P	<u>a</u>		
Ground S	urface Elev: 464.07	ft Foot		1					
				N:	53 N3				
		 							
	m Groundwater Elevation: _								
Minimum	n Groundwater Elevation: _	<u>459.40</u> ft							
				\mathcal{Y}					
	•								
							-		
<u>Piez</u>	ometer Construction Quar	itities:							
1. Primo	ry Filter Sand – 1	75 lb.							
2. Secon	idary Filter Sand	50 lb.							
3. Bento	nite Slurry - 21	gal.							
Remarks: Natui	ral Sand Collapse Compris	es @ 60 %				444.34ft			
of Co	alculated Sand Volume.		\bowtie	X Filto	er Pack				
Lowe: Due	r than Calculated Grout V to Hole Collapse and/or :	olume Used Shrinkage.			Primary Filter I		•		
				331)/40 Sand):		ft		
				2"	of Screen (10 (Nominal) Sched	- Slot): <u>44</u> ule 40 PVC (1	0.04 f 0 ft Len	t gth)	
•					Consideration				
					<u>Coordinates</u> N: 991336.7				
					E: 728049.8				
						-			4.
	Bottom Hole Depth:	34.6 bgs			Base Sump:	37.16 btoc			
	**************************************			<u> </u>		07.20		· · · · · · · · · · · · · · · · · · ·	
			8.25 Inches		Bose Elev:	429.71 ft			
		ſ						and the second of the second o	
	PIEZOM		G	RE	DELL En	gineerin	g Re	sources	. Inc.
P - 177 CONSTRUCTION DIAGRAM				GREDELL Engineering Resources, Inc. ENVIRONMENTAL ENGINEERING					
	DIAGE	KAIVI			AND	AIR		WATE	
Date Piezometer Completed:	AMEREN M	ISSOURI	19 Jeffers	505 Eas	st High Street , Missouri 65101			Telephone: (573 Facsimile: (573	659-9078 659-9079
11/13/09	LABADIE POW	ER PLANT		TE	SCALE N.T.S.	DRAWN BY: BI	ED	APPROVED BY:	MCC

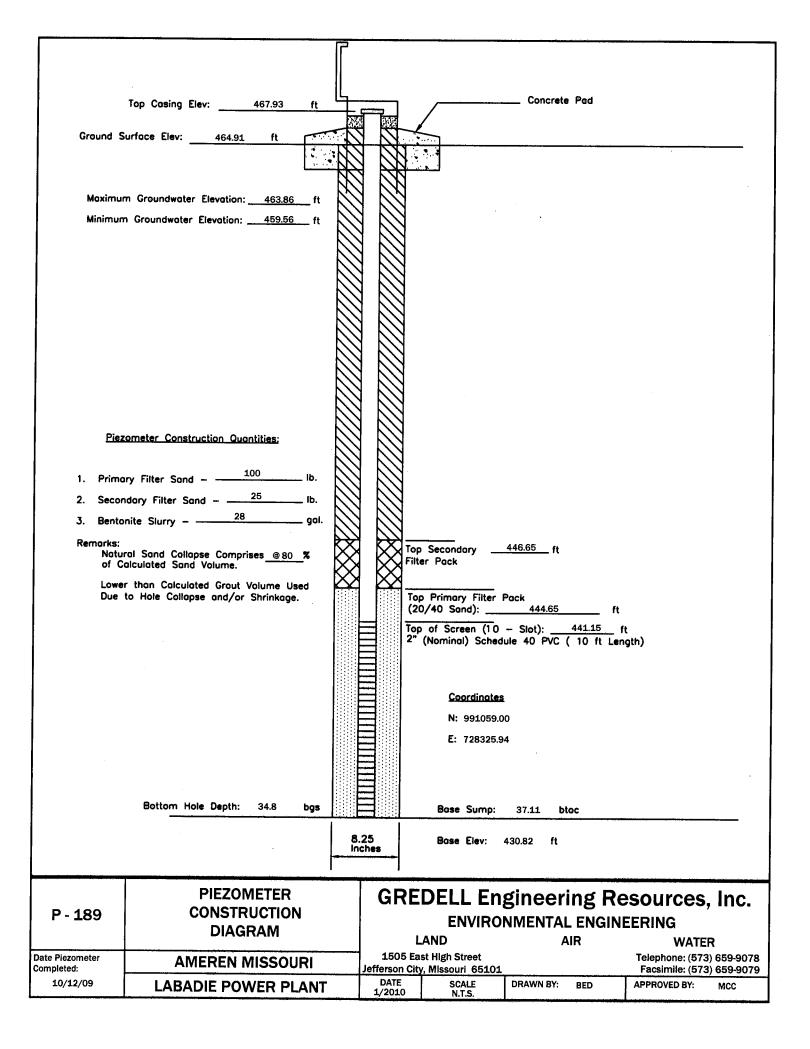
1	Top Casing Elev: 466.93 ft	ra as	֚֓֞֝֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֓֡		Concrete Pad	
Ground Su	rfoce Elev: 464.19 ft					
	Groundwater Elevation: 463.69 ft Groundwater Elevation: 459.54 ft					
Riezo	ometer Construction Quantities:					
1. Primer	ry Filter Sand - 250 lb.					
2. Secon	dary Filter Sand - 50 lb.	3 8				
3. Bentor	nite Slurry – 44 gol.					
Remarks: Natur	al Sand Collapse Comprises @ 50 %	88		Secondary	444.59 ft	
	Ilculated Sand Volume. than Calculated Grout Volume Used	XX	X			
	o Hole Collapse and/or Shrinkage.			Primary Filter F /40 Sand):	Pack 443.19	ft
			1.0	• •	- Slot): 439.29	
			2"	(Nominal) Schedu	ule 40 PVC (10 ft	Length)
				Coordinates		
				N: 991350.8	6	
				E: 728780.93	2	
		E				
	Bottom Hole Depth: 34.9 bgs		<u> </u>	Bose Sump:	37.97 btoc	
		8.25 Inches	-	Base Elev:	428.96 ft	
,	PIEZOMETER		DE	DELL En	dinocrind	Posouroos Ino
P-179	CONSTRUCTION	"			NMENTAL ENG	Resources, Inc.
. —. .	DIAGRAM		L	AND	NIVIENTAL ENG AIR	WATER
Date Piezometer	AMEREN MISSOURI		L505 Ea	st High Street		Telephone: (573) 659-9078 Facsimile: (573) 659-9079
Completed: 12/03/09	LABADIE POWER PLANT	D	ATE 2010	y, Missouri 65101 SCALE N.T.S.	DRAWN BY: BED	APPROVED BY: MCC
				17.1.3,	L	

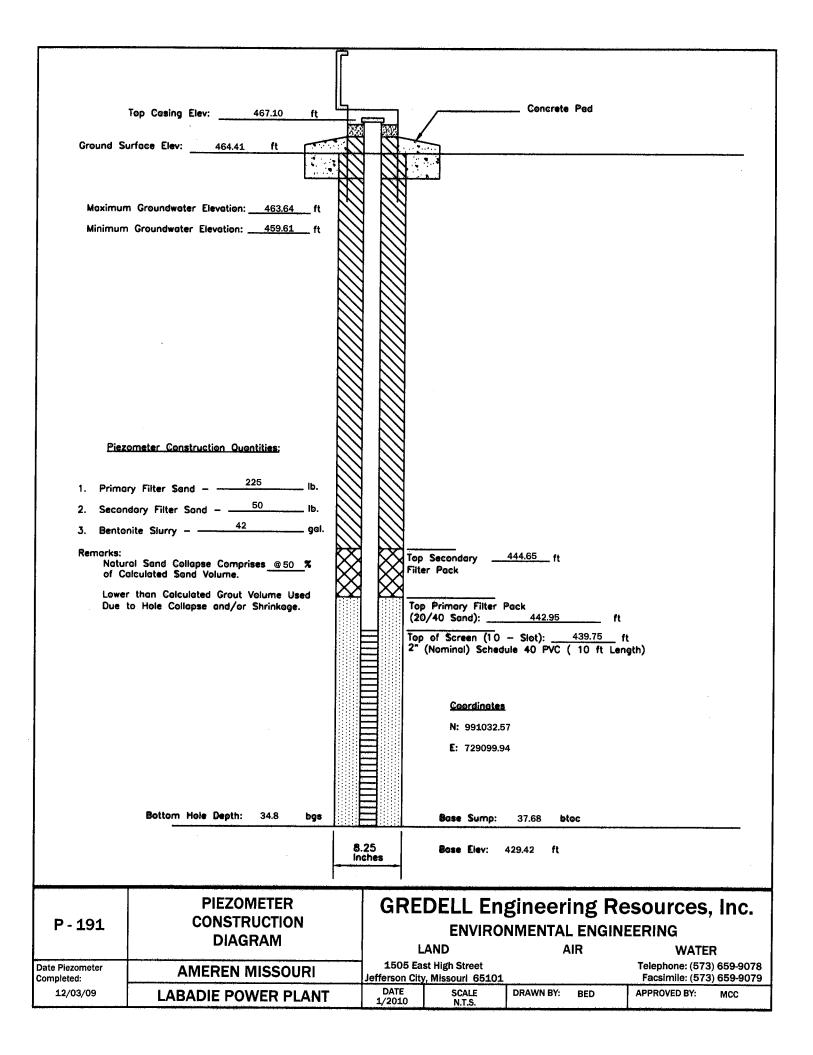
					· · · · · · · · · · · · · · · · · · ·			
		IL				0	5 4	
	Top Casing Elev: 467.35 ft				/ 	Concrete	Pad	
	_		200	\checkmark				
Ground Su	urface Elev: 464.42 ft	1]			· · · · · · · · · · · · · · · · · · ·
		· <i>M</i>			1			
		W		<u></u>	J			
Maximun	Groundwater Elevation: 463.55 ft			1				
				1				
Minimum	Groundwater Elevation: 459.62 ft							
Piez	ometer Construction Quantities:							
- ,								
	225 lb							•
1. Prima	ry Filter Sana							
2. Se con	dary Filter Sand - 50 lb.							
3. Bentoi	nite Slurry – 33 gal.							
Remarks:		<i>>>></i>	\sim			444 50		
Natur	al Sand Collapse Comprises @ 50 %	\times		Top S	econdary Pack	444.58 ft		
of Co	alculated Sand Volume.							
	than Calculated Grout Volume Used to Hole Collapse and/or Shrinkage.	\mathcal{M}	\sim	Too	Primary Filter F	Pack		
	to hole conspie shay of Similarge.				10 Send):	443.08	ft	
			=	Top o	f Screen (10	- Siot):	440.18	<u>t</u>
				2" (N	f Screen (10 Iominal) Sched	ule 40 PVC	(10 ft Len	gth)
								•
					Coordinates			
					N: 991334.4			
			\exists		E: 729380.2	3		
								•
	Sollow Male Coathy 247 has		=		_			
	Bottom Hole Depth: 34.7 bgs				Base Sump:	37.50 b	loc	······
		8.	.25		Base Elev:	429.85 ft		
		In	ches		2000 2.00	425.00		
and the second s		1	1					
	PIEZOMETER		\ \C_{\text{\tin}\\ \text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\titt{\texi}\tilint{\text{\text{\text{\texi{\text{\texi}\text{\texi}\texit{\text{\		ELL P.	dir	ind D	00114600 1-0
D 404	CONSTRUCTION		j Gr	KEL		_	_	esources, Inc.
P - 181			ĺ		ENVIRO	NMENTA	L ENGIN	EERING
	DIAGRAM			LA	ND	Į.	NR	WATER
Date Piezometer	AMEREN MISSOURI				High Street			Telephone: (573) 659-9078
Completed:	the state of the s		Jefferson DATE		Missouri 65101	DRAWNEY		Facsimile: (573) 659-9079
12/03/09	LABADIE POWER PLAN	Γ	1/2010		SCALE N.T.S.	DRAWN BY:	BED	APPROVED BY: MCC

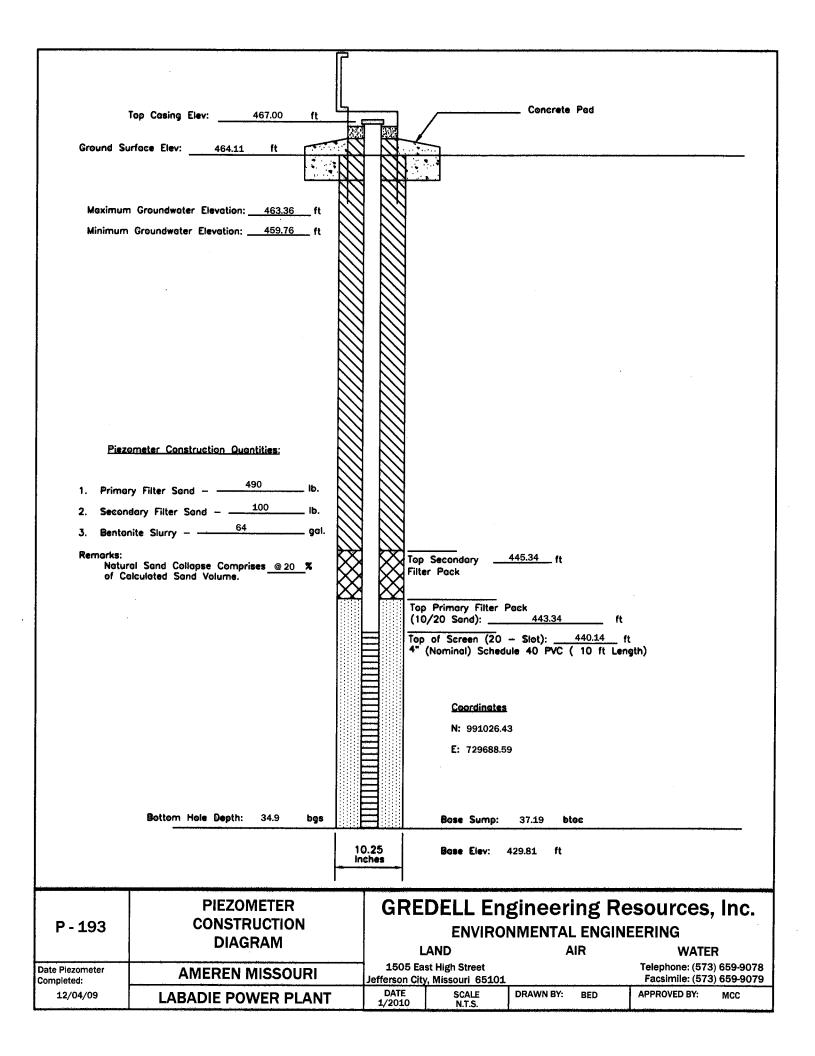
,		r				4
1		\parallel				
	Top Casing Elev: 465.96 ft	4			Concrete Pad	
		3%	W.			
Ground Si	urface Elev: 463.40 ft					
	(\$, 1) (1)	M				
Meximun	n Groundwater Elevation: 463.15 ft					
Minimum	Groundwater Elevation: <u>459.74</u> ft					
						:
Piez	ometer Construction Quantities:					
1. Prima	ry Filter Sand - 175 lb.					
	dary Filter Sand - 45 lb.					
	nite Slurry - 26 gal.					
Remarks:	·	\longrightarrow	- 		443.67 ft	
Netur	ral Sand Collapse Comprises @60 %	\times		op Secondary <u> </u>	443.07 11	,
	than Calculated Grout Volume Used	\boxtimes				
Due 1	to Hole Collapse and/or Shrinkage.			op Primary Filter F 20/40 Sand):	Pack 441.87 ft	
			1090909		- Slot): 438.57 fi	:
			²	" (Nominal) Schedu	ule 40 PVC (10 ft Len	gth)
				Coordinates		
				N: 991309.5		
				E: 729980.8		
				E. 123360.6	,	
	Ballian IIII Balli ana					
	Bottom Hole Depth: 35.2 bgs			Base Sump:	37.72 btoc	
		8.	.25 ches	Base Elev:	428.24 ft	
		- "				
	PIEZOMETER	*************	CD	DEII EM	dingering De	SOURCE INC
P - 183	CONSTRUCTION		GRI		_	esources, Inc.
	DIAGRAM			ENVIROI LAND	NMENTAL ENGINE AIR	· · · · · · · · · · · · · · · · · · ·
Date Piezometer	AMEDEN MICCOUR	· 		ast High Street	AIR	WATER Telephone: (573) 659-9078
Completed:	AMEREN MISSOURI	,		ity, Missouri 65101	DDAWN DV: PP	Facsimile: (573) 659-9079
12/11/09	LABADIE POWER PLANT	-	1/2010	SCALE N.T.S.	DRAWN BY: BED	APPROVED BY: MCC

			· · · · · · · · · · · · · · · · · · ·			
	Ton Coolea Flau ACC 2C 41	<u>L</u>			Concrete Pad	
	Top Casing Elev: 466.26 ft	7327	TURE.			
Ground Su	urface Elev: 463.75 ft	1	N			
		1/1	-14	1		······································
	<u> </u>	M	\mathcal{H}	4		
Maulania	Considerate Flourism 400.00 to	M		3		
	Groundwater Elevation: 463.08 ft			3		
Minimum	Groundwater Elevation: 459.72 ft			3		
				}		
		M		3		
·		M		3		
				3		
		\mathbb{N}		3		
		M				
		\square				
				3		
		\square		1		
		\mathbb{N}		3		
Piez	ometer Construction Quantities:					
ı				3		
1. Prima	ry Filter Sand - 275 lb.			.		
	dary Filter Sand - 40 lb.			1		
	AF	M		}		
	nite Slurry – 45 gal.			3		
Remørks: Natur	al Sand Collapse Comprises @40 %	\boxtimes	\boxtimes	Top Secondary _	442.99 ft	
of Co	alculated Sand Volume.	\bowtie	\otimes	Filter Pack		
	than Calculated Grout Volume Used to Hole Collapse and/or Shrinkage.	\sim	\sim	Top Primary Filter	Pack	
	to flote collapse dita, of sill likelye.			(20/40 Send):	441.79 ft	!
		 	=	Top of Screen (10) - Slot): <u>438.79</u> dule 40 PVC (10 ft Le	ft
		E	=	2" (Nominal) Sche	dule 40 PVC (10 ft Le	ngth)
		E	\exists			
		E	3			
		E	3	Goordinate		
		E	3	N: 991289	.70	
		E	3	E : 730564.	.03	
	•	E	3			
		E	=			
	Bottom Hole Depth: 35.1 bgs	Ε	3	Base Sump:	37.80 btoc	
		*1*1*11				to the first to th
		8.2 Inc	25 :hes	Base Elev:	428.46 ft	
	1			1		
	DICZONACTED	· ·	~	DEDEL : =		<u> </u>
.	PIEZOMETER	- [Gl	KEDELL Er	ngineering R	esources, Inc.
P - 185	CONSTRUCTION			ENVIRO	NMENTAL ENGIN	IEERING
	DIAGRAM			LAND	AIR	WATER
Date Piezometer Completed:	AMEREN MISSOURI			05 East High Street on City, Missouri 6510	1	Telephone: (573) 659-9078 Facsimile: (573) 659-9079
12/15/09	LABADIE POWER PLANT		DAT 1/20:	E SCALE	DRAWN BY: BED	APPROVED BY: MCC

Pie: 1. Prime 2. Secon 3. Bente Remarks: Naturof C	Top Casing Elev: 462.85 ft Surface Elev: 462.85 ft Im Groundwater Elevation: 462.82 ft Im Groundwater Elevation: 459.76 ft Top Casing Elev: 462.85 ft Im Groundwater Elevation: 459.76 ft Top Casing Elev: 462.85 ft Im Groundwater Elevation: 459.76 ft Top Casing Elev: 462.85 ft Im Groundwater Elevation: 459.76 ft Top Casing Elev: 462.85 ft Top Casing Elevity Elevation: 462.82 ft Top Casing Elevation: 462.82 ft Top Ca		Top Secondary Tilter Pack Top Primary Filter (20/40 Sand): Top of Screen (10) Top of Scr	442.58 fi - Slot): 439.58 ule 40 PVC (10 ft Le	ft	
	Bottom Hole Depth: 35.1 bgs	8.25 Inches		36.42 btoc 429.25 ft		
P - 187	PIEZOMETER CONSTRUCTION DIAGRAM	GR		gineering Ronnell Ronn	esources, Inc. IEERING WATER	
Date Piezometer Completed:	AMEREN MISSOURI	1505 Jefferson (East High Street City, Missouri 65101	· · · · · ·	Telephone: (573) 659-9078 Facsimile: (573) 659-9079	
10/28/09	LABADIE POWER PLANT	DATE 1/2010	SCALE N.T.S.	DRAWN BY: BED	APPROVED BY: MCC	1



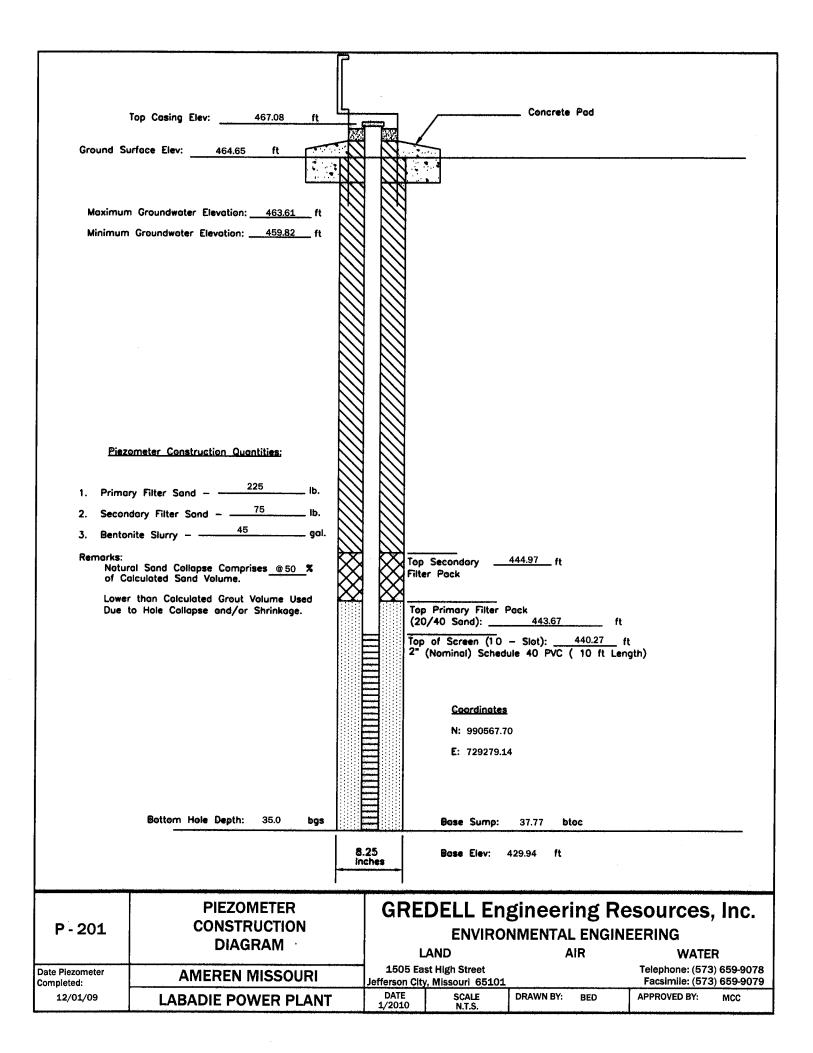




							The second secon
	Top Casing Elev: 466.07	<u> </u>	(market)		Concrete	Ped	
Ground St	urface Elev:463.44 ft						
ordana si	403,44 1	1: 18					
			3 199	لنحث			
Maximun	n Groundwater Elevation: 463,1	_n 🛚	3 83				
Minimum	Groundwater Elevation: 459.7	<u>.</u> n					
Piez	ometer Construction Quantities:						
	350						
	ry Filter Sand —	— Ib.					
	odry rinter sand -	— lb.					
	nite Slurry - 52	gal.			-		
Remarks: Natur	ral Sand Collapse Comprises @ 20 alculated Sand Volume.	_* 🌣		p Secondary ter Pack	_442.56 ft		
01 01	piculated Sand Volume.	\otimes	\mathbb{R}^{2}				
			Te (2	p Primary Filter (0/40 Sand):	P ock 441.36	ft	
							l
			2"	p of Screen (10 (Nominal) Sched	ule 40 PVC (10 ft Len	gth)
				Coordinates			
				N: 991065.8	1		
				E: 730256.0	4		
	Bottom Hole Depth: 35.1	bgs		Base Sump:	38.14 bto	E	
			3.25	Book Et-	497.00 **		
		İr	nches	Base Elev:	427.93 ft		
· · · · · · · · · · · · · · · · · · ·		<u> </u>	1			· · · · · · · · · · · · · · · · · · ·	
	PIEZOMETER		GRE	DELL En	gineerii	ng Re	sources, Inc.
P - 195	CONSTRUCTION DIAGRAM	IN			NMENTAL	ENGINE	EERING
Data Blazzari			1	LAND ast High Street	All	R	WATER
Date Piezometer Completed:	AMEREN MISSO		Jefferson Ci	y, Missouri 65101	r ************************************	*******************************	Telephone: (573) 659-9078 Facsimile: (573) 659-9079
12/11/09	LABADIE POWER P	LANT	DATE 1/2010	SCALE N.T.S.	DRAWN BY:	BED	APPROVED BY: MCC

and the second second				
	Top Casing Elev: 466.10 ft			Concrete Pad
	Groundwater Elevation: <u>462.98</u> ft Groundwater Elevation: <u>459.81</u> ft			
 Prima Secon Bentor Remarks: Natur of Co Lower 	orneter Construction Quantities: Ty Filter Sand — 375 lb. dary Filter Sand — 100 lb. nite Slurry — 57 gal. Tal Sand Collapse Comprises @ 40 % pliculated Sand Volume. Than Calculated Grout Volume Used to Hole Collapse and/or Shrinkage.			Top Secondary 444.41 ft Filter Pack Top Primary Filter Pack (10/20 Sand): 442.51 ft Top of Screen (20 - Slot): 439.31 ft 4" (Nominal) Schedule 40 PVC (10 ft Length)
	Bottom Hole Depth: 34.7 bgs			Coordinates N: 990891.95 E: 730883.14 Base Sump: 37.12 btoc
	-	10 Inc).25 shes	Base Elev: 428.9§ ft
P - 197	PIEZOMETER CONSTRUCTION DIAGRAM			REDELL Engineering Resources, Inc. ENVIRONMENTAL ENGINEERING LAND AIR WATER 05 East High Street Telephone: (573) 659-9078
Date Piezometer Completed:	AMEREN MISSOURI		Jefferso	on City, Missouri 65101 Facsimile: (573) 659-9079
12/05/09	LABADIE POWER PLANT		DAT 1/201	

	Top Casing Elev: 468.13 ft	500 E	W.E.		Concrete Ped	
Ground Su	irface Elev: 465.28 ft				·	
Maria				<u>4</u>		
	Groundwater Elevation: 463.79 ft Groundwater Elevation: 459.72 ft					
						:
<u>Piez</u>	ometer Construction Quantities:					
1. Primo	ry Filter Sand — 450 lb.	i				
2. Secon	dary Filter Sand — 90 lb.					
3. Bentoi	nite Slurry - 84 gal.					
Remarks: Natur	ral Sand Collapse Comprises @ 25 %			p Secondary	445.54 ft	
of Co	alculated Sand Volume.	81 18	XX''	ter Pack		
	or than Calculated Grout Volume Used Coutable to Apparent Washouts in noie.		C	p Primary Filter 20/40 Sand):	443.74	ft
			To 4	p of Screen (10 (Nominal) Sched	- Slot): 440.74 Jule 40 PVC (10 ft	_ ft Length)
		目		Coordinates	ı	
		E		N: 990738.7	72	
				E: 728782.0	95	
	Bottom Hole Depth: 34.9 bgs			Base Sump:	37.32 btoc	
	-	10.25 Inches		Sose Elev:	430.41 ft	
	PIEZOMETER		C DI	DEII Ex	dinearing 5	Pecuroe Inc
P - 199	CONSTRUCTION	'	arı		MENTAL ENGI	Resources, Inc.
	DIAGRAM			LAND	AIR	WATER
Date Piezometer Completed:	AMEREN MISSOURI			ast High Street ity, Missouri 65101		Telephone: (573) 659-9078 Facsimile: (573) 659-9079
12/01/09	LABADIE POWER PLANT		DATE /2010	SCALE N.T.S.	DRAWN BY: BED	APPROVED BY: MCC



Appendix 6

Survey Data

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

Prepared by: GREDELL Engineering Resources, Inc.

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

Designation	Northing	ionating.	nofityel(Himmeis)	181523Barriton
P-9	996108.40	726981.78	469.90	473.26
B-10	996103.24	727271,42	469.4	***
C-11	996087.44	727863.35	468,6	***
P-12	996215.71	728171.12	468.95	472.14
B-13	996065.73	728454.79	468.4	***
C-13	996064.70	728453.55	468.1	***
B-14	995811.17	726971.86	470.0	***
P-15	995802.44	727271.36	469.35	472.40
C-16	995796.01	727587.85	469.5	***
P-17	995789.75	727851.61	469.30	472.19
C-18	995781.84	728155.08	468.0	***
P-19	995768.95	728438.40	467.90	470.84
P-20	995510.59	726856.24	469.35	472.28
C-21	995508.43	727263.08	469.1	***
P-22	995503.30	727579.54	468.40	471.27
C-23	995493.86	727854.19	468.5	***
P-24	995476.21	728133.29	468.50	471.44
C-25	995479.57	728426.49	467.0	***
B-26	995220.60	726964.14	468.5	***
P-27	995206.06	727247.55	469.07	471.99
C-28	995191.80	727570.51	468.0	***
P-29	995188.03	727844.69	467.73	470.83
C-30	995181.54	728136.93	468.2	***
P-31	994921.76	726950.89	467.67	470.22
C-32	994919.82	727239.84	468.1	***
P-33	994910.34	727559,71	468.44	471.18
C-34	994906.91	727840.02	467.1	***
P-35	994886.38	728125.58	467.61	470.61
P-36	995058.28	728509.44	468.20	471.23
C-37	994633,32	726940.78	466.8	***
P-38	994618.74	727238.62	467.15	470.11
C-39	994610.37	727532.49	467.0	***
P-40	994582.15	727832.47	467.05	469,93
C-41	994571.00	728120.73	467.0	***
P-42	994538.42	728420.83	467.74	470.60
P-43	994333.02	726945.21	466.07	469.20
C-44	994339.91	727235.79	466.5	***
P-45	994324.97	727532.26	467.12	470.07
C-46	994335.16	727828.30	466.5	***
C-46A	994335.45	727834.36	466.4	***

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

Vertical Datum: NAVD 88 (Feet)

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

- क्रुअंतिम्भाग्रा	Storthing	Pesing	Gramat Blazition	Rips Blazziton
P-47	994320.66	728124.52	467.10	469.86
C-48	994317.23	728416.23	466.7	***
P-49	994499.84	728938.97	467.58	470.56
B-50	994279.71	729167.67	467.7	***
C-50	994279.51	729171.66	467.6	***
P-51	994463.37	729490.00	466.25	469.06
B-52	994257.04	729758.59	465.3	***
P-53	994428.21	730049.96	466.46	469.10
B-54	994252.30	730351.55	467.1	***
P-55	994395.43	730584.11	467.33	470.02
B-56	994240.10	730939.28	467.4	***
P-57	994356.77	731212.53	465.99	468.87
B-58	994038.11	726928.67	464.3	***
P-59	994039.34	727225.40	465.36	467.94
C-60	994027.11	727521.57	466.4	***
P-61	994020.22	727813.31	465.92	468.87
C-62	994016.40	728113.05	466.2	***
P-63	994004.98	728407.71	466.20	469.10
C-64	993995.34	728865.99	466.6	***
P-65	993990.81	729165.61	468.06	471.31
C-66	993980.14	729457.50	467.7	***
C-66A	993983.55	729455.30	467.6	***
P-67	993985.65	729758.28	465.52	468.28
C-68	993969.55	730078.53	466.1 461.6	***
P-69	993965.46	730346.87	465.05	467.73
C-70	993949.84	730636.69	466.0	***
P-71	993948.36	730927.90	467.42	470.70
B-72	993933.70	731225.42	467.3	***
P-73	993742.59	726924.60	467.06	469.94
C-74	993741.15	727218.57	464.6	***
P-75	993730.50	727511.13	466.12	468.75
C-76	993720.40	727809.69	465.7	***
P-77	993714.81	728102.38	465.41	468.05
C-78	993707.27	728399.78	465.3	***
P-79	993695.02	728850.48	467.01	469.84
C-79	993690.91	728845.97	466.7	***
C-80	993682.86	729155.13	466.6	***
P-81	993679.30	729444.97	467.64	470.31
C-81	993687.41	729445.36	467.3	***
C-82	993677.60	729741.30	467.5	***

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

Vertical Datum: NAVD 88 (Feet)

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

ा)आंधुतार्वाकत	Routhing	Obsting	Croppall Blayation	epre plezamon
P-83	993664.23	730089.18	464.74	467.55
C-84	993657.32	730332.48	465.1	***
P-85	993647.31	730619.20	464.41	466.75
C-86	993650.66	730924.62	465.7	***
P-87	993693.54	731420.88	466.69	469.64
P-88	993401.94	727072.92	466.25	469.13
C-89	993438.19	727504.02	465.1	***
P-90	993427.80	727804.04	465.38	468.10
C-91	993413.86	728094.56	465.1	***
C-92	993398.00	728843.81	465.6	***
B-92	993398.38	728845.92	465.7	***
P-93	993388.35	729062.32	465.91	468.82
C-94	993375,69	729434.37	466.5	***
P-95	993368.45	729725.06	467.22	469.92
C-96	993362.59	730021.06	467.9	***
P-97	993349.44	730302.43	467.05	469.67
C-98	993346.95	730622.85	465.2	***
P-99	993336.45	730887.27	464.38	467.21
B-100	993325.31	731204.95	465.7	***
C-100	993325.31	731205.45	465.7	***
B-101	993154.88	727200.58	466.0	***
P-102	993140.49	727503.68	464.29	467.27
C-103	993136.62	727785.53	464.5	***
P-104	993125.75	728085.40	465.00	467.78
C-105	993135.15	728390.05	464.7	***
P-106	993103.56	728837.82	465.11	468.10
C-106	993109.35	728836.44	464.9	***
C-107	993103.27	729135.70	465.0	***
C-107A	993103.10	729146.13	464.9	***
P-108	993084.09	729427.93	465.71	468.55
C-109	993088.06	729726.68	466.3	***
P-110	993066.85	730012.30	466.14	468,99
C-111	993063.54	730316.44	466.3	***
P-112	993051.48	730620.74	465.92	468,92
C-113	993055.00	730901.31	463.5	***
P-114	993026.22	731203.72	463.94	466.78
B-115	992864.44	727489.17	465,3	***
P-116	992841.30	727788.60	464.82	467,55
C-117	992838.23	728076.07	465.3	***
P-118	992825.03	728377.28	464.81	467.70

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

Vertical Datum: NAVD 88 (Feet)

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

Designation	Modifing	Desting	Chountle Alayattan	PjparMtavriion
C-119	992807.06	728831.40	465.1	***
P-120	992787.68	729145.90	464.75	467.65
C-121	992788.41	729418.06	464.1	***
P-122	992758.84	729781.01	464.74	467.71
C-123	992783.29	730008.50	464.9	***
P-124	992775.57	730303.49	464.92	467.99
C-125	992770.51	730600.29	466.0	***
P-126	992667.51	730879.77	465.77	468.83
B-127	992782.41	731193.33	463.4	***
P-128	992561.87	727385.52	465.74	468.60
C-129	992541.28	727767.11	464.1	***
P-130	992537.68	728075.04	465.15	468.13
C-131	992547.91	728365.33	465.0	***
P-132	992536.17	728817.00	465.36	468.47
C-133	992516.71	729146.50	464.6	***
P-134	992491.31	729438.21	464.10	466.82
C-135	992494.22	729732.31	463.7	***
C-135A	992494.17	729740.20	463.9	***
P-136	992488.64	730004.49	463.71	466.73
C-137	992490.70	730304.63	463.6	***
P-138	992469.33	730675.26	464.10	466.99
C-139	992467.71	730891.11	464.4	***
C-139A	992473.22	730892.04	464.5	***
P-140	992404.70	731394.93	465.72	468.57
B-141	992258.30	727479.78	466.2	***
P-142	992250.72	727764.69	464.83	467.66
C-143	992247.00	728062.44	463.9	***
P-144	992236.95	728361.22	464.56	467.74
C-145	992222.70	728823.71	465.0	***
C-145A	992218.35	728823.23	465.0	***
P-146	992265.54	729102.62	464.80	467.48
C-147	992208.03	729416.58	464.5	***
C-147A	992202.60	729416.37	464.5	***
P-148	992252.64	729630.10	463.86	466.84
C-149	992190.52	730004.82	463.3	***
P-150	992189.21	730256.27	463.22	465.91
C-151	992180.61	730603.47	463.0	***
P-152	992168.58	730889.93	463.55	466.31
B-153	992163.20	731176.80	463.7	***
B-154	991956.86	727759.71	465.1	***

Horizontal Datum: Missouri State Plane Coordinates - NAD 83 (Feet) Vertical Datum: NAVD 88 (Feet)

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

Designation	हेनांगीकवांत्रः	Tensilny	Committed artifon	Ripoldlagation
P-155	991943.98	728065.97	المالية المستنبذ المالية المالية المالية المالية	Below the transfer of a large of the first of the same for a series of the same
P-156			463,44	466.27
C-157	991964.30	728791.30	464.89	467.60 ***
	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)

Piezometer and Boring Locations/Elevations KdG Project 080086-0005

Designation	Storthing	Desting	Committeeston	adinyelli eqist
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)

ST. LOUIS | BELLEVILLE

AMEREN LABADIE PLANT MONUMENT RECORD BOOK

KdG Project No. 080086-0001 and 080086-0004

RECEIVED

JUN 2 3 2009

REITZ&JENS, SIC.

Kuhlmann design Group, Inc. 2008-2009

Telephone: 314.434.8898 Fax: 314.434.8280

кdG

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

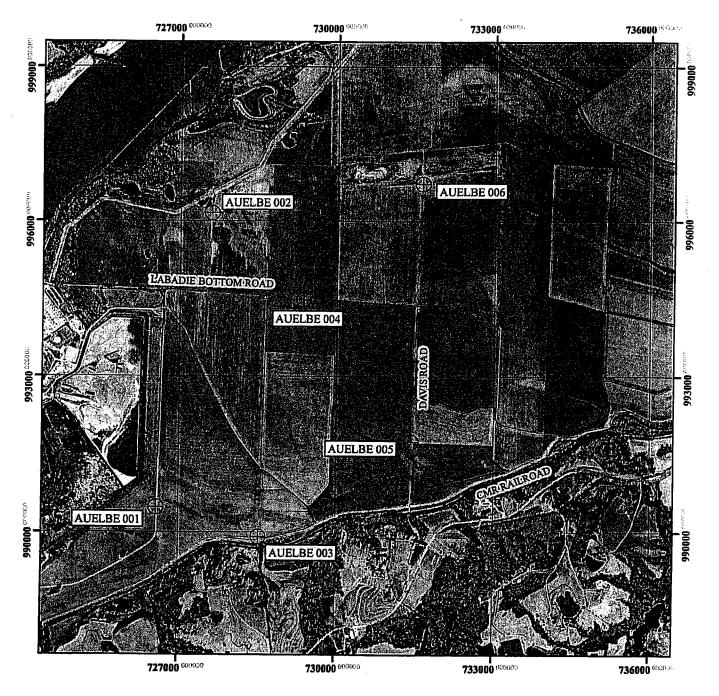
Expires: 12/31/2009

MSH:lma

cc: Mr. Paul Reitz w/Enclosures

1:\2008\080086\0004\Thee 061109 lit.doc

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

1,500	750	0	1,500	3,000	4,500 Feet
<u> </u>					

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
	S: GEOGRAPHIC REFERENCE SYSTEM / AMEREN
	SURVEY MARKER / DO NOT DISTURB

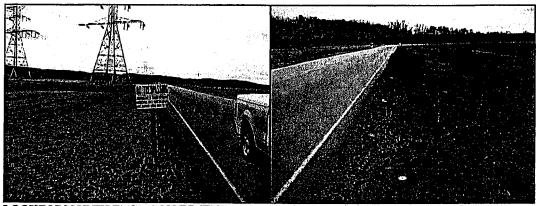
LOCATION: ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.1 MILE NORTH OF CURVE IN ROAD, AND APPROXIMATELY 0.1 MILE SOUTH OF GRAVEL ENTRANCE. BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS 3.2' WEST OF WEST EDGE OF LABADIE BOTTOM ROAD. 10.5' SOUTH OF NO TRESPASSING SIGN. AND 87.7' NORTH OF NO TRESPASSING 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	7			

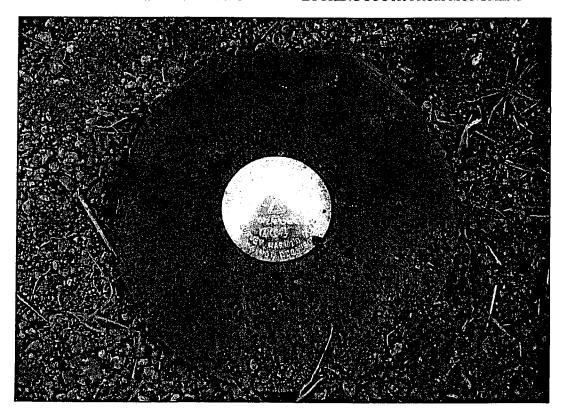
MONUMENT ID: AUELBE 001

DATE: NOVEMBER 2008



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT



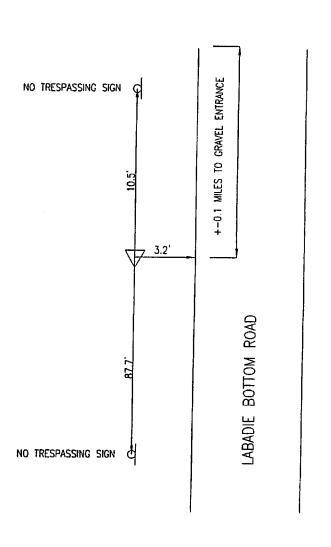
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 001 / 2008 / SURVEY MARKER / DO NOT DISTURB

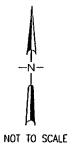
LOCATION: ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.1 MILE NORTH OF CURVE IN ROAD, AND APPROXIMATELY 0.1 MILE SOUTH OF A GRAVEL ENTRANCE, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS 3.2' WEST OF WEST EDGE OF LABADIE BOTTOM ROAD, 10.5' SOUTH OF NO TRESPASSING SIGN, AND 87.7' NORTH OF NO TRESPASSING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

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

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE001





AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT ID: AUELBE 0	. 002	BE	AUEL	ID:	T	MEN	UN	N	O	M	ľ
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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

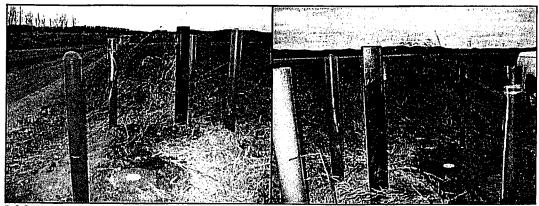
LOCATION: ALONG DIRT ROAD, APPROXIMATELY 0.3 MILE NORTH OF LABADIE BOTTOM ROAD, BEING NORTHEAST OF EXISTING POWER PLANT. MONUMENT IS 5.0' EAST OF EAST EDGE OF DIRT ROAD, AND 3.5' SOUTHWEST OF PIEZOMETER.

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	7				

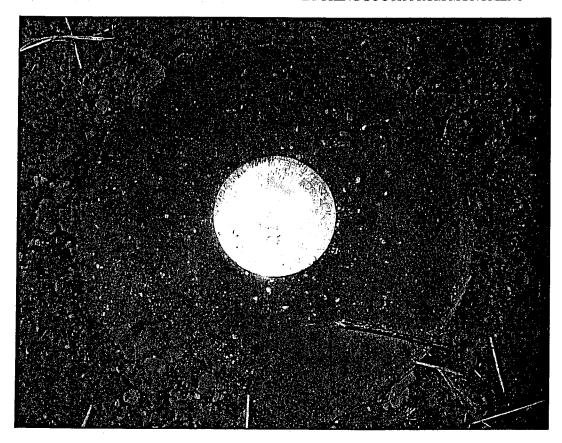
MONUMENT ID: AUELBE 002

DATE: NOVEMBER 2008



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT



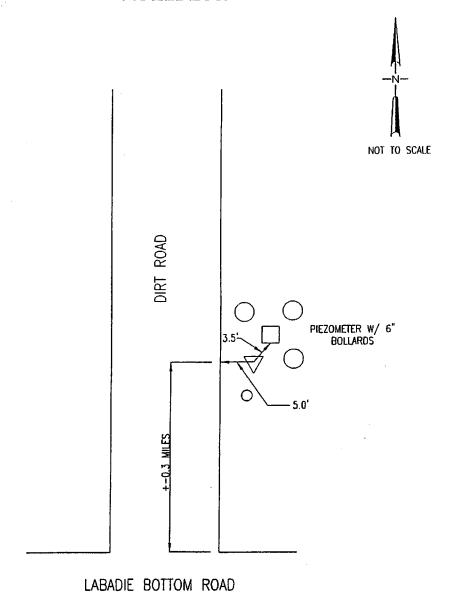
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 002 / 2008 / SURVEY MARKER / DO NOT DISTURB

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	MISSOLIDI STATE DI	LANE COORDINATES	ELEVATION
MONUMENT # 002	N 996166.50	E 727588.30	470.70
		2 12,000,00	1.0.70

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE002



AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT	'ID: Al	JELBE	003
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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

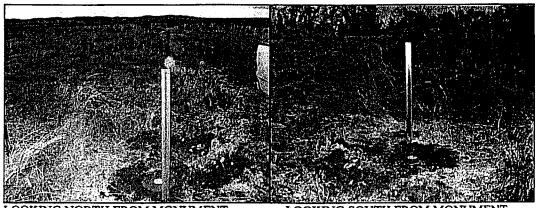
LOCATION: ALONG A FIELD ROAD, APPROXIMATELY 0.9 MILE SOUTH OF LABADIE BOTTOM ROAD, BEING SOUTHEAST OF EXISTING POWER PLANT. MONUMENT IS WEST OF WEST EDGE OF FIELD ROAD, APPROXIMAELY 150' SOUTH OF A PIEZOMETER SURROUNDED BY THREE 6" BOLLARDS, AND APPROXIMATELY 280' NORTHWEST OF AN IRON PIN WITH A 2" ALUMINUM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

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

PHOTOGRAPHS				
ORIENTATION PHOTO	CLOSE-UP PHOTO			
DATE: NOVEMBER 2008	DATE: NOVEMBER 2008			
DISTANCE FROM MONUMENT: 20'	REMARKS:			
BEARING FROM CAMERA NORTH AND SOUTH	7			

MONUMENT ID: AUELBE 003

DATE: NOVEMBER 2008



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT

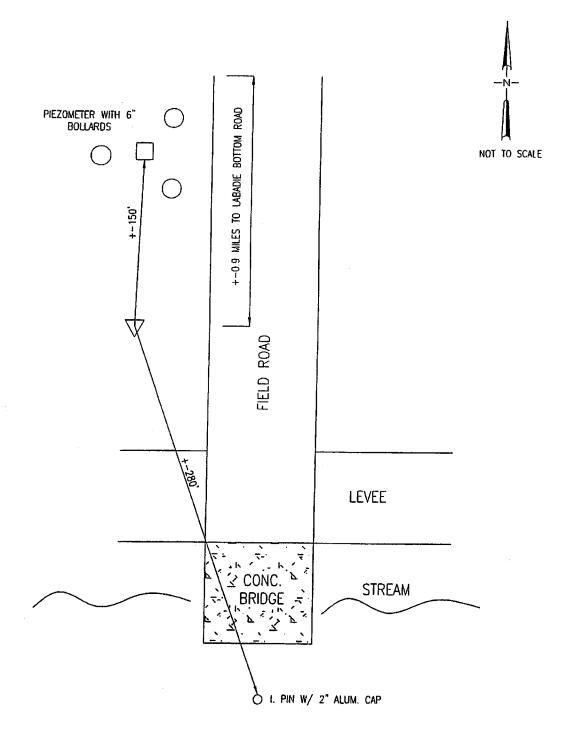


DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 003 / 2008 / SURVEY MARKER / DO NOT DISTURB

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.

			T
AMEREN LABADIE	MISSOURI STATE PI	LANE COORDINATES	ELEVATION
MONUMENT # 003	N 989921.39	E 728508.32	467.59

AMEREN LABADIE MONUMENT RECOVERY TIES AUELBE003



AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

MONUMENT ID: AUELBE	E 004
DATE SET: APRIL 2009	
ALUMINUM CAP. INSCRIPTION REA	VT: 12" DIAMETER CONCRETE (30" DEEP) WITH DS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN S / SURVEY MARKER / DO NOT DISTURB
ROAD, BEING EASTERLY OF EXISTING	OTTOM ROAD, APPROXIMATELY 0.4 MILE WEST OF DAVIS NG POWER PLANT. MONUMENT IS 6.0' SOUTH OF THE ROAD AND 705' EAST OF A 42" DIAMETER TREE.
REMARKS: TOP OF MONUMENT I	
	PHOTOGRAPHS
ORIENTATION PHOTO	CLOSE-UP PHOTO
DATE: APRIL 2009	DATE: APRIL 2009

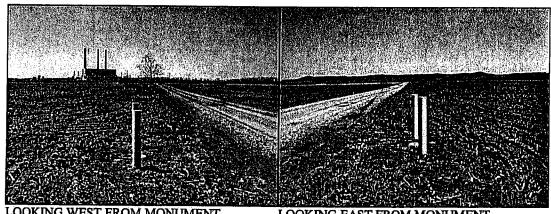
REMARKS:

DISTANCE FROM MONUMENT: 20'

BEARING FROM CAMERA: WEST AND EAST

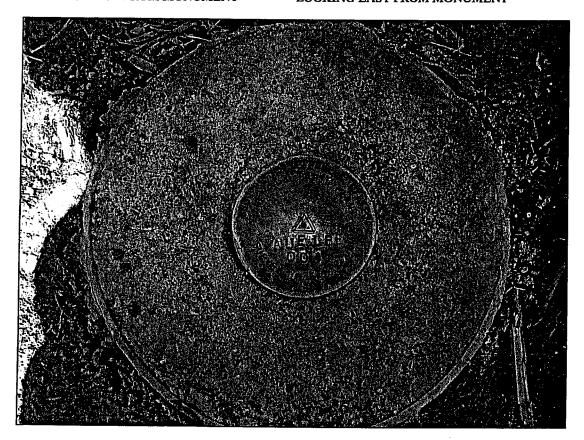
MONUMENT ID: AUELBE 004

DATE: APRIL 2009



LOOKING WEST FROM MONUMENT

LOOKING EAST FROM MONUMENT



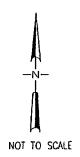
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 004 / 2008 / SURVEY MARKER / DO NOT DISTURB

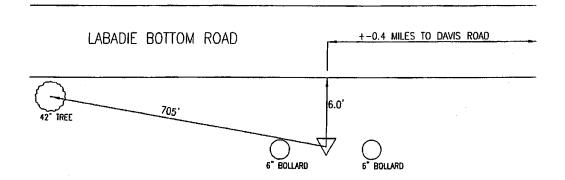
LOCATION: ALONG LABADIE BOTTOM ROAD, APPROXIMATELY 0.4 MILE WEST OF DAVIS ROAD, BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' SOUTH OF THE SOUTH EDGE OF LABADIE BOTTOM ROAD AND 705' EAST OF A 42" DIAMETER TREE. MONUMENT IS WITNESSED BY TWO 6" YELLOW BOLLARDS AND AN ORANGE CARSONITE POST.

AMEREN LABADIE	MISSOURI STATE PI	LANE COORDINATES	ELEVATION
MONUMENT # 004	N 994487.79	E 729353.29	467.02
112 0 2 1 0 1 1 0 0 1	11 224401.12	15 127333,29	407.02

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE004





AMEREN LABADIE PLANT MONUMENT RECOVERY SHEET

٨	ЛС	76	ŬΤ	IN	ART	VТ	ID:	ΔΊ	H	RE	005
14		"	71	זוע		1 I	w	ΔL	JEL	DL	UUJ

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

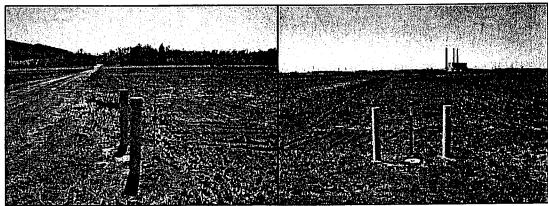
LOCATION: ALONG DAVIS ROAD, APPROXIMATELY 0.5 MILE SOUTH OF LABADIE BOTTOM ROAD, AND APPROXIMATELY 0.25 MILE NORTH OF RAILROAD TRACKS. MONUMENT BEING EASTERLY OF EXISTING POWER PLANT. MONUMENT IS 6.0' WEST OF THE WEST EDGE OF DAVIS ROAD, 26.5' NORTH OF THE WEST END OF A 24" CMP, AND 47.1' NORTHWEST OF 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	7				

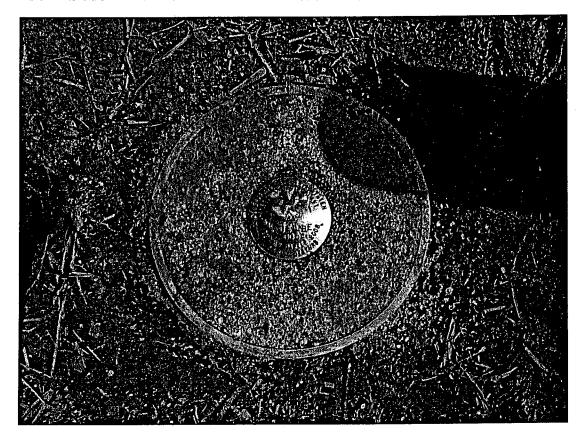
MONUMENT ID: AUELBE 005

DATE: APRIL 2009



LOOKING SOUTH FROM MONUMENT

LOOKING WEST FROM MONUMENT



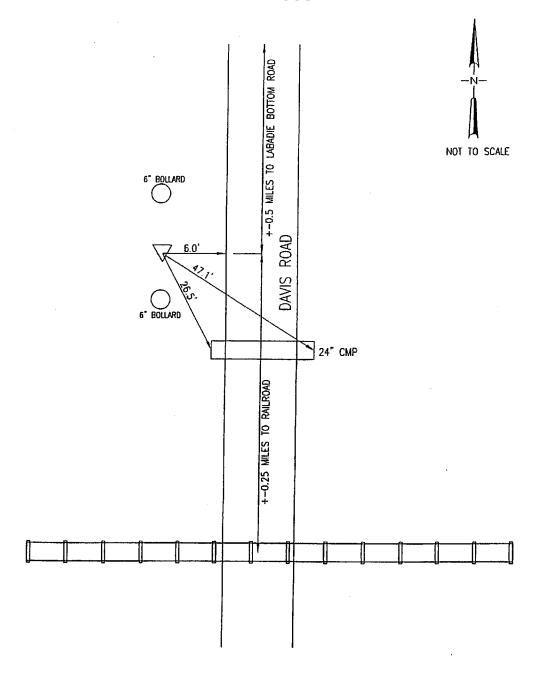
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 005 / 2008 / SURVEY MARKER / DO NOT DISTURB

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	MISSOURI STATE PI	ANE COORDINATES	ELEVATION
MONUMENT # 005	N 991746.97	E 731438.28	462.78

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

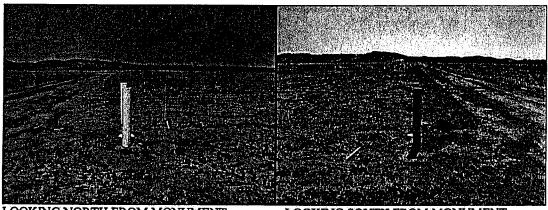
LOCATION: ALONG A DIRT ROAD LOCATED APPROXIMATELY 0.5 MILE NORTH FROM THE INTERSECTION OF DAVIS ROAD AND LABADIE BOTTOM ROAD, BEING NORTHEAST OF THE EXISTING POWER PLANT. MONUMENT IS 6.0' EAST OF THE EAST EDGE OF DIRT ROAD, AND APPROXIMATELY 0.15 MILE SOUTH OF THE INTERSECTION WITH ANOTHER DIRT ROAD.

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	7				

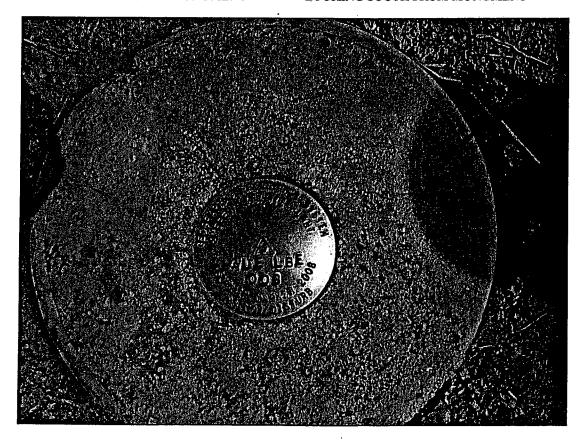
MONUMENT ID: AUELBE 006

DATE: APRIL 2009



LOOKING NORTH FROM MONUMENT

LOOKING SOUTH FROM MONUMENT



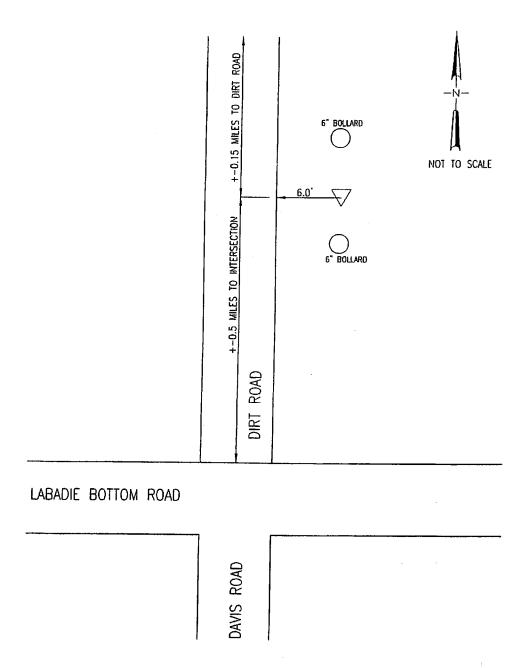
DESCRIPTION: 12" DIAMETER PVC PIPE FILLED WITH CONCRETE (30" DEEP) WITH ALUMINUM CAP. INSCRIPTION READS: GEOGRAPHIC REFERENCE SYSTEM / AMEREN LABADIE PLANT / AUELBE 006 / 2008 / SURVEY MARKER / DO NOT DISTURB

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	MISSOURI STATE PL	ANE COORDINATES	ELEVATION
MONUMENT # 006	N 996729.00	E 731621.70	467.67

AMEREN LABADIE MONUMENT RECOVERY TIES

AUELBE006



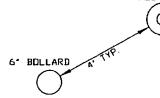
AMEREN LABADIE PLANT GRS CONTROL MONUMENT

ON-SITE

6' BOLLARD

OFF-SITE VIEW FROM ABOVE

10' CONCRETE WITH 4' ALUMINUM DISC



30"

6' BOLLARD

10' CONCRETE WITH 4' ALUMINUM DISC



POST

4" DISC

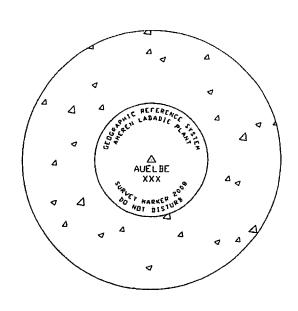
10"-24" SLEEVE (PVC OR CONCRETE D FORM)

Δ

TAPERS FROM 6" 10' TO 12'

#5 REBAR

4' LONG SET IN CENTER OF CONC.



SECTION A-A

DATE:

1-8-09

SHEET 1 OF 1

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 (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



Please consider the environment before printing.

Appendix 7

Certification Records

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



OFFICE USE ONLY REF NO.	DATE RECEIVED
C.R. NO.	CHECK NO.
	REVENUE NO.
ENTERED DISC. DISC.	APPROVED BY DATE ROUTE

STATE SUPPLIED BY PRIMARY CONTRACTOR OR DRILLING CONTRACTOR	STATE SPECIAL	. <u></u>					ON RE			Ph1	RED Ph2	Dh?	•		PROVED BY		DATE	ROUTE	
WELL NUMBER	WELL MARIER STATE PCODE CONTROL NAME STATE PCODE CONTROL NAME CON	INFOR	MATI	ON S	3UPPI	LIED B	Y PRIM	ARY C	ONTR	ACTOR	OR DR	ILLING	CONTRA	ACTO		Newson Newson		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
OWNER ADDRESS OTY STATE 2P CODE DVM. Attach a copy or provide number of variance. St. Louis St. Louis STATE	OWNER ADDRESS OTY STATE ZIP CODE Provide number of varian STATE ZIP CODE CONTACT NUME Paul Pike Paul Pike STATE ZIP CODE CONTACT NUME Paul Pike Paul Pike STATE ZIP CODE CONTACT NUME ZIP CODE Z	OWNERN	NAME							-			WELL			***			RANTED
St. Louis MO 63166 provide number of variance. St. Execution Paul Pike STR NAME Labadic Power Plant Rd., MC LBD-645 Ciry Labadic Monitoring Monitoring Ciry Labadic Monitoring Ciry	St. Louis MO 63166 provide number of variant STE NAME Canal Place Paul Pike	OWNER A	ADDRESS				-		CIT	ř				TE	ZIP COD	<u> </u>	$\neg \mid \Box \lor$	Yes. Attacl	th a copy or
Contract Name Power Plant Power Plant Power Plant Rd., MC LBD-645 City City Control City	Labadic Power Plant			∋au A	.ve.				<u>St</u> .	. Louis				- 1			provi	ide numbi	er of variance.
226 Labadic Power Plant Rd., MC LBD-645 Labadic MO G3055	226 Labadie Power Plant Rd., MC LBD-645 Labadie MO G3035	Labadie	ie Pow	ver Pi	lant						Paul Pi								
PROPOSED USE OF WEIL	PROPOSED USE OF WELL	1		DOW	Dla	 4 D.4		- CAE			1				1		I		
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SURFACE			Flush M				ļ			CASING V				ERIAL	☐ Alumii	num	⊠ Yes
WEEP HOL	<u> 1</u>				5				4 in.		2 ft.				☐ Plastic	3	□ No
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RISER PIPE	28	ft.	2 in.	·	40	0.691	t.	☐ Oth	er	_		SEA	NL.	3 ft.		-	ar
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SITE NAM	_	D	114						Paul P									_
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WEEP HOL	E?	VENTE	D CAP?		5		METER OF		4 in.	12 In. ER AND DEPT	2 ft.					Plastic		
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☐ No)			ft.		ft.		in.		ft.	GROUT	İ		ther	_	
	LE	NGTH	DIAMET	ER	WEIGHT OR SDR#	DIAME	TER OF	MATERIA			·			LENGT	'H OF	MATERIAL		_
RISER	•	☐ Steel ☐ Thermoplastic (PVC)									SE/	NTONITE AL	SEAL		Slurry			
PIPE DETAIL		28 ft. 2 in. 40 0.69 ft. ☐ Other GLUED SECONDARY FILTER PACK											3 ft.			lar		
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the Depar	tme	ont of N	latural I	Reso	urces req	uiremen	ts for the	e const	ruction o	of monitor	ng wells	3.			1			
1/ -	Ä,			1	a)	2836	NUMBER	DATE	12.09	,								
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1901 C		eau A	ve.				St.	Louis			MC	- 1	63166		pro	vide numb	er of variance.	
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PROPOSE	D USE OF WELL TYPE OF POTENTIAL SITE												(CHECK ALL THAT APPLY)					
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WEEF HOL		VENTE	CAP?	MOUNT	OF FLUS	H DIA	METER OF	FFLUSH	HOLE FI	ER AND DEF LUSH MOUN	TH OF THE WAS PLA	CED	SURFAC		⊠ c	oncrete		
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RISER PIPE	281	t.	2 in.	4	0	0.69	ft.	☐ Oth		_	•	SE	AL	3 ft.		1	iar	
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1/11	en!	<u> </u>	w				2876M		<u> </u>									
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1901 C	houte	eau A	ve.				1	Louis	1				63166		prov	vide numb	er of variance.
SITE NAME					. *				CONTAC		1 2,120		05100				
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TYPE OF		T	Above (LENG	TH OF ECTIVE C	ASING	DIAMETE	R OF IVE CASIN		TER AND D			TECTIVE	П	Steel	LOCKING CAP?
SURFACE		1	Flush M		'''		ASING	FROIECI	IVE CASIN		OLE PROTI G WAS PLA		1	NG ERIAL		Muminum	⊠ Yes
		<u> </u>			5				in.	12 in.	2 ft.					Plastic	□ No
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DETAIL	GLUE	D				1 0.00			TER PAC	<u>—</u> :К		L	DE	PTH	FC	<u> </u>	DESCRIPTION
ŀ		'es		⊠ Sa	turated 2	Zone	Unsat	urated Z	one Hy	ydrated 🖾	Yes 🗆	No	FROM	TO	4		
	⊠ N	lo			th Zones				☐ Yes I		_		0	7			Clay, Silt, VF
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ANNULAR	J		onite SI	•			nent/Ben		-	LENGTH							
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						□ % o	f Bentoni	te Used		160]				
			_				er Used/l		gal.	16.9	ft.		30	35	Con	ana Cand	w/ Gravel
WELL	LEN	STH	DIA	METER	OF DE	RILL	DEPTH TO TOP OF			MATERIAL					100	iise sailu	w/ Glavei
SCREEN					HOLE		SCREEN	1		☑ Thermor	olastic (P	VC)			1		
AA 123 5 5	10		4"		10.3		24.5 ft.		Other								
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tne vepan	tmen	ÇOT Na	aturai F	Resourc	es requ	iiremen	its for th	e const	ruction o	o in accord	uance w ing well:	ιτη \$.					
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INFORM	VA.							Ph1 ACTOR	Ph2 OR DRI	Ph3 ILLING CO	NTPA	CTO	P	A 48 .		60 S.	
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Ameren OWNER AL							CITY			···	20				BY	DNR	
1901 CI			ve.					Louis			MO	- 1	ZIP CODE 63166				h a copy or er of variance.
SITE NAME	•			•		·	1 50	Louis	CONTACT		IVIO		03100				
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226 Lab			er Plan	t Rd	MC LB	D-645			Labadi	ie			M	ATE	630	CODE	
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☐ Gas A☐ Extrac		_			nitoring zometer:		☐ Hazardous Material ☐ Lu.s.T.						Radionuclides Petroleum Products				
	CUOI	1 44611			Zometer	•	l				U.S.T.		☐ Explo			Vetals Pesticides/	□ VOC
AREA COUNTY ELEVATION SMALLEST LARGEST												161DIGGES					
1 LOCATION			11	1 @	2)465'		-			•	1/4		% l	√W	1/4		
Lat. 38		_ •	34	_' _2			S	ection 17	<u> </u>	Township			— " `		_	2 ⊠ Ea:	st 🔲 West
Long. 90		 -	49	' 3	6 LENG	TH OF	<u> </u>	DIAMETE	P.OF	DIAMETE	D AND D	COTU /	DE DDO:				
TYPE OF SURFACE			Above C	Ground		ECTIVE C	ASING		TVE CASING		PROTE	CTIVE	CASI			Steel	LOCKING CAP? Yes
	OMPLETION Flush Mount 5 ft.							12	:4 in.		_		MAII	ERIAL	_	Aluminum Plastic	□ No
WEEP HOLI	E?		D CAP?	LENG'	TH OF FLUS	H DIA	METER O	F FLUSH	DIAMETE	R AND DEPTH USH MOUNT W	2 ft. OF THE		SURFAC	· F			
⊠ Yes											AS PLAC	ED	COMPLE			oncrete 	
□No		☐ No	ft. ft. in. ft.											ther	-		
	LEF	NGTH	DIAMET		WEIGHT OR SDR#		LL HOLE Steel S Thermoplastic (PVC) BEI						ITONITE	LENGT SEAL	11 OF	MATERIAL Slurry	
RISER PIPE	28	ft.	2 in.	[.	40	0.69	ft.	Oth		ор.шоцо	(1 10)	SEA	L	3 ft.		1	lar
DETAIL	GLU	JED							TER PAC	К			DE	PTH	F		DESCRIPTION
		Yes	ļ	⊠ Sa	aturated 2	Zone (☐ Unsaturated Zone Hydrated ☑ Yes ☐ No							16.2	-		
		No			oth Zones		If Yes, Hydrated ☐ Yes ☐ No						0 16.2	35		ay and Sil	t Fine Sand
PRIMARY		LENGTH		DEPTH	то тор о	F PRIMAP	Y FILTER	PACK S	ECONDAR	Y FILTER PACK	LENGTH]	ļ	**	ry rme -	rme Sand
FILTER PACK		12.8	ft.			22.0	ft.			1.9	ft.			l l			
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ANNULAR SEAL	1	☐ Non	Slurry E	Benton	ite Type	☐ Bag	s of Cer	nent Use	d								
SEAL								nite Used									
						⊠ Wat	er Used	/Bag 25	gal.	17.1	ft.						
Mer	LE	NGTH	DIA	METER	DIAM OF D		DEPTH T			MATERIAL			1				
WELL SCREEN					HOLE		SCREEN	i i		Thermopla	istic (P	VC)					
	_	0 ft.	2"		8.25		24.5 ft.	<u>' </u>	Other _						i		
Multiple C				s 🔲 i						ation 🔲 Ye		_			}		
size of al	iaai Ii ce	tionai : ising, l	as built hole dia	alagra meter	ams sno 's and g	wing w rout us:	eli con: ed.	struction	details i	including ty	pe and	d	TD: 35ft				
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1/1	u/	hpr	e C	<u> </u>			2876M										
I hereby of	ert	ify that	the mo	nitorir	ng well h	erein de	scribe	d was co	nstructe	d in accorda	ance w	ith					
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SIGNATURE		PENTIC	Ma	<u>/l</u>	<u> </u>	2836	NUMBER	10-12-09 ER DATE									
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Amerer OWNER A		s					I CITY					22 STATE		ZIP CODE			/ DNR Yes. Attac	h a conv or			
1901 C	houte	au A	ve.					Louis			J	MO	- 1	63166		pro	ovide numb	er of variance.			
SITE NAME				•					CONTAC		ME	1410		03100							
Labadie SITE ADDR		ver P	lant						Paul I	Pike											
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226 Late	D USE	OF WE	er Plan	it Ka., I	MC LB	D-043		OF POTE	Labad						IO		63055 CHECK ALL THAT APPLY)				
☐ Gas N	Monito	oring \	Vell	☐ Mon	itoring		1	☐ Hazardous Material									S Petroleum Products Only				
☐ Extra	ction \	Well		☑ Piez	ometers		☐ Initial Site Assessment ☐ L.U.S.T.							☐ Explo			Metals ☐ VOC				
AREA	1 00	UNTY	-	1 = 1	7/47/01/		w	ater Le	vel Drawd	lown				☐ svo	cs		Pesticides/ł	Herbicides			
1		ankli			EVATION 465'						SM	ALLEST	Ī	LA	RGEST						
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TYPE OF SURFACE	:		Above (Ground		CTIVE C	ASING		TIVE CASIN	1G	THE HOLE CASING W	PROTEC	CTIVE	CAS		K	Steel	LOCKING CAP?			
COMPLET			Flush M	lount	_ ا	_	ł	_					Æυ	MAT	ERIAL		Aluminum	□ No			
WEEP HOL	E? \	VENTE	D CAP?	LENGTH	OF FLUS	ft.	METER OF	6 FLUSH	x6 in.		12 in. :					<u> </u>	Plastic				
⊠ Yes		⊠ Ye		MOUNT			UNT		HOLE F	LUSH	MOUNT WA	S PLACE	ED	SURFAC		⊠c	Concrete				
□ No	1	□ No	,		f	t.		ft.		in.			ft.	GROUT			Other	_			
	LENG	TH	DIAMET		EIGHT.		TER OF	MATER					14.		LENG	TH OF	MATERIAL				
					R SDR#	DRILL	HOLE	☐ St	eel 🖾 T	hem	oplastic (PVC)	BEN	ITONITE	SEAL		⊠Slurry	□Pellets			
RISER PIPE							5 ft.							•	3 ft.		□Granu	iar			
DETAIL	GLUE						SECONDARY FILTER PACK								PTH	F	ORMATION	DESCRIPTION			
	□ Y						☐ Unsat	urated	Zone H	lydrat	ed 🛛 Ye	s 🗆 N	10	FROM 0	8 8	┥					
	Ø.	lo			h Zones		If Yes, Hydrated 🔲 Yes 🔲 No							8	25		ne sand, si				
PRIMARY	LE	NGTH		DEPTH T	O TOP OF	PRIMAR	Y FILTER I	PACK	SECONDAR	RY FILT	TER PACK L	ENGTH		1			ery nne sa: lt, and clay	nd, fine sand,			
FILTER PACK	١,	4 ft.				21.5		İ						25	35			medium sand			
-	$\overline{}$		lamita Ci	1		21.5	ft.			LIFN	1.7 IGTH	ft.		4			ne sand, tra				
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						☐ % of	f Bentoni	ite Used	<u> </u>	1,	0										
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SCREEN					HOLE	1	SCREEN		Steel	⊠ Th	nemoplas	stic (PV	/C)	Ι.		-					
	10		4"		10.3		24.6 ft.		Other _												
Multiple C				s 🛛 No					r Remed												
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.											TD: 35ft										
STATIC WAT			- (1	<u>.</u>		DATE WEL	L DRILLII	NG WAS CO	MPLE	TED		.								
			80RING				10-07														
SIGNATIONS	W 11						PERMIT NU 2876M	MBER	÷												
I hereby o	ertify	that	the mo	nitorina	well he	rein de	scribed	was co	onstructe	d in	accorda	nce wi	th								
the Depar	rtmen	tof N	latural i	Resourc	es requ	iremen	ts for th	e cons	truction	of me	onitoring	wells.									
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INFORI	MA	TION S	SUPPL	IED B	Y PRIM	ARY C	ONTRA	CTOR	OR DR	ILLING CO				12.54.15					
OWNER N										-	WELL	NUMB	ER			RIANCE G	RANTED		
OWNER AL		SS					CITY		•		24 STATE		ZIP CODE			' DNR Yes. Attac	h a copy or		
1901 CI		teau A	ve.				St.	Louis			МО	- I	63166				er of variance.		
Labadie	_	war Di	lant						CONTAC Paul P										
SITE ADDR			iani						CITY				STA	ATE	ZIP	CODE			
226 Lab	oadi	e Pow	er Plan	t Rd.,	MC LE	D-645			Labadi	ie			M	0	63	63055			
PROPOSEI				□мо	nitoring		1		TIAL SITE	. .						CHECK ALL THAT APPLY) Detroleum Products Only			
1	☐ Gas Monitoring Well ☐ Monitoring ☐ Extraction Well ☐ Plezometers								☐ Hazardous Material ☐ Landfill ☐ Initial Site Assessment ☐ L.U.S.T.							Petroleum I Metals	Products Only		
	,						☐ Water Level Drawdown							sives S		Pesticides/I	_		
AREA 1		OUNTY rankli	n		LEVATION 2465'					SI	ALLES	Γ	LA	RGEST			-		
LOCATION	OF V	/ELL			9103		1				¼ _		% N	1W	_14				
Lat. 38		° .	34	_', <u>-2</u>		n	Se	ction 17	·	Township	44 No	rth		Ī	– Range	_2 🛭 Eas	st 🔲 West		
Long. 90	-				LENG	TH OF	<u> </u>	DIAMETE		DIAMETE	R AND DI	PTH (OF PROT	ECTIVE			LOCKING CAP?		
TYPE OF SURFACE	OF 121 Above Ground PROTECTIVE C						ASING	PROTECT	TIVE CASIN	G THE HOLI	PROTE	CTIVE	CASI	NG	_	Steel Aluminum	⊠ Yes		
COMPLET	TION Flush Mount 5 ft.							43	4 in.	12 in.	2 ft.					Plastic	□ No		
WEEP HOLI	E?		D CAP?	LENGT	TH OF FLU		METER OF		DIAMETI	ER AND DEPTH USH MOUNT W	OF THE	FD.	SURFAC	E	N C	oncrete	<u> </u>		
⊠ Yes □ No	1	⊠ Ye □ No					•				,,,,,,		COMPLE GROUT	TION		ther			
	LEN	IGTH .	DIAMET	ER I	WEIGHT	ft.	TER OF	ft. in.						1500			-		
					OR SDR#	DRILL	L HOLE ☐ Steel ☐ Thermoplastic (PVC) BEN						TONITE	LENGT SEAL	HUF	MATERIAL Siurry	□Pellets		
RISER PIPE	28 ft. 2 in. 40 0.69						9 ft.						\L	3 ft.			lar □Chips		
DETAIL		JED							TER PAC				FROM		F	ORMATION	DESCRIPTION		
		Yes					☐ Unsaturated Zone Hydrated ☒ Yes ☐ No							14.5	٦,				
	Ø				oth Zone		If Yes, Hydrated Yes No IMARY FILTER PACK SECONDARY FILTER PACK LENGTH							34		ay and Sil ne - Medi			
PRIMARY FILTER	· '	ENGTH		DEPTH	то тор с	F PRIMAR	Y FILTER I	PACK S	SECONDAR	Y FILTER PACK	LENGTH		34	35		parse Sand			
PACK		13.0 1	ft.			22.0	ft.			1.2	ft.								
		⊠ Bent	tonite SI	urry		☐ Cerr	ent/Ben	tonite Si	urry	LENGTH			1						
ANNULAR SEAL	۱ ا	☐ Non	Slurry E	3entoni	te Type	☐ Bag	s of Cem	ent Use	d										
ULAL						☐ % of	Bentoni	ite Used											
						☑ Water	er Used/	Bag 25	gal.	17.8	ft.								
WELL	LE	NGTH	DIA	METER	DIAM OF D	ETER RILL	DEPTH TO	L		MATERIAL			1						
SCREEN	1		1		HOLE		SCREEN	l		X Thermopla	stic (P	VC)							
) ft.	2"		8.25		24.7 ft.		Other _										
Multiple C				s 🛛 N					Remedi				TD:		-				
size of al	iaai II ca	uonar a Ising, h	as built 10le dia	alagra meter:	ams sno s and o	wing wo	eli cons ed.	truction	details	including ty	pe and	1	35ft		}				
STATIC WAT	ER L	EVEL	20	1	· ······ J		DATE WEL	L DRILLIN	G WAS CO	MPLETED			1 1						
NA FEET I							9-18 PERMIT NU	MARER					1		. 				
		11/1	N	<u> </u>			2876M)MDCK											
I hereby	ert	fy that	the mo	nitorin	g well h	erein de	scribed	was co	nstructe	d in accorda	ance w	ith	i i						
SIGNATURE	we WE	DRILLI	iatural i	Kesouf	rces req		ts for th	DATE	ruction	of monitorin	g wells						İ		
1/ 8		un	July 1	Le		2836		10-12-09											
SIGNATURE	(APF	RENTICE	1)			PERMIT	NUMBER	DATE					TOTAL	_ DEF	TH:				
						L.,,							<u> </u>						



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INFORM	TAN	ION S	JUPPLI	IED B	Y PRIM	ARY CO	ONTR/	ACTOR	OR DRI	ILLING (CONTRA	CTC	OR						
OWNER NA Ameren	AME								_		WELL	NUMB	3ER		VAF	RIANCE GI			
OWNER AD		ss	-				CITY	<u> </u>			27 STATE	Ē.	ZIP CODE		┦ᆸ	' DNR Yes. Attach	h a copy or		
1901 Cl		eau A	.ve				St.	Louis			МО	- 1	63166		pro	vide numbe	er of variance.		
SITE NAME	_								CONTACT										
Labadie SITE ADDR		wer Pi	ant						Paul Pi	ike			<u></u>	TATE	7ip	CODE			
226 Lab	badie	e Pow	er Plan	ıt Rd.,	MC LB	D-645		ŀ	Labadi	ie				10	ì	055			
PROPOSED	D USE	OF WEL	LL				ł	OF POTEN	NTIAL SITE				MONITORI	ING FOR:	: (CHECK	ALL THAT API			
☐ Gas M		-		☐ Mon	_				s Material		Landfill		I			s Petroleum Products Only			
☐ Extrac	notic	Weii		⊠ Piez	zometers	j	☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown						☐ Explo			Metals	□ voc		
AREA		OUNTY		E	LEVATION		<u> v</u>	ater Leve	el Drawoo		SMALLES		SVOC	CS ARGEST		Pesticides/F	Herbicides		
1	Fı	ranklii	n		@465'														
LOCATION				. 50	- #			17	-				% 1				_		
Lat. 38 Long. 90_		_ <u>`</u>	33 <u> </u>			, 	36	ection 17	'	Township	_44 No	orth		ļ	Range	_2 🖾 Eas	st 🔲 West		
TYPE OF					LENGT	TH OF ECTIVE CA	SING	DIAMETEI	ER OF	DIAME	ETER AND D)EPTH	OF PRC	TECTIVE		Steel LOCKING CAP?			
SURFACE	E		Above G		F10.2	.U117E	Sinc	PROILS.	IVE UNUITE	CASIN	HOLE PROTE NG WAS PLA	CITY		SING FERIAL		Aluminum	⊠ Yes		
			Flush Mo		5			47	x4 in.		1. 2 ft.					Plastic	□ No		
WEEP HOLE			D CAP?	LENGTI	TH OF FLUS		METER O'	OF FLUSH	DIAMETE	ER AND DEP	PTH OF THE		SURFAC	CE		oncrete	<u></u>		
⊠ Yes □ No		⊠ Ye					,,,,			.00111112	1 ************************************	متار	COMPLE	ETION					
	No ft. ft. in.										ft.	GILUU.		<u> </u>	ther				
ı ·	LEN	\GTH	DIAMET		WEIGHT OR SDR#	DIAMET DRILL H		MATERIA Ste		hermoplast	-H- (D/(C)		NTONITE	LENGT SEAL	TH OF	MATERIAL SILIPO	-		
RISER	28	_ /	2 in.	1	40	0.69 f	- 4	☐ Oth		ιθπηυμιαυ.	tic (PVC)	SE		3 ft.		⊠Slurry □Granu	/ □Pellets ular □Chips		
PIPE DETAIL	GLU		<u> 2 m. </u>				SECONDARY FILTER PACK						T DI	3 π. ≣PTH		_	DESCRIPTION		
.		Yes	Ţ	⊠ Se	aturated 7					ydrated 🛛	7 Vac []		FROM	TO		JAMA HOLL	DESCRIPTION		
	□ ⊠			1	oth Zones				Zone ny ☐ Yes [i i es	NO	0	10	Cl	lay and Sil	lt		
		LENGTH						-		RY FILTER PA	ACK I FNGTI		$\frac{10}{21}$	21	Ve	ery Fine Sa			
PRIMARY FILTER		L.)	1		• • ••••			,LOCI	f Filarmes	WA LLING.	•	21	35	Fir	ne Sand			
PACK		13.3 f	ft.			21.9	ft.			1	1.6 ft.	_							
	T	☑ Ben	tonite Si	lurry		☐ Cem	ient/Ber	ntonite SI	lurry	LENGTH			7						
ANNULAR SEAL	ı ۲	☐ Non	Slurry F	Bentoni ^r	ite Type	☐ Bagr	s of Cer	ment Use	ed	1									
SEVE					• •	- · ·		nite Used		1			1						
								d/Bag 25	i	17.3	ft.								
	LE	NGTH	DIA	AMETER	DIAME	ETER I	DEPTH TO		yaı.	MATERIA	A1		4						
WELL SCREEN					OF DR HOLE		TOP OF SCREEN	, <u> </u>] Steel	MATERIA ☑ Thermo	<u>տե</u> oplastic (P	VC)	_			•			
3011 <u></u> .	10	0 ft.	2"	ft.	8.25	in.	24.9 ft.	, C	Other _		•								
Multiple C									r Remedi	iation 🔲 `	Yes		TD:						
Submit a	addit	tional a	as built	t diagra	ams show	wing we	ell cons			including		nd	35ft						
size of al	II cas	ısing, h	nole dia	ameter	s and gr	rout use	ed.												
STATIC WAT NA FEET F			and po	1.41			DATE WE	LL DRILLIN	NG WAS CON	MPLETED		,	7		.				
SIGNATURE			" "	, ,			9-18 PERMIT N	NUMBER		<u> </u>			4						
	[m]	11 Ju	للنري			2	2876M	1			-								
I hereby c	certi	fy that	the mo	nitorin	ıg well h	erein de	scribe	d was co	nstructe	ed in acco	ordance v	vith	1						
SIGNATURE	tme	nt et N	laturai i	Resour	ces requ		nts for the			of monito	ring well	s.	┨ '	•	1				
1/2	4	IIM	11. 7	20	.	2836	Moin-	10-12-09					1 '						
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	TOTAL DEPTH:																		



OFFICE USE ONLY	DATE RECEIVED
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					WEL ON RE		D	ENTER	1. 20 1. 3 1. 32			APP	ROVED BY	<u>.</u>	ATE	ROUTE		
INFORI	MA'	TION S	SUPPL	IED B	Y PRIM	ARY C	ONTRA	Ph1	Ph2 OR DRI	Ph	3 CONTR	ACTO	1 D					
OWNER N	AME			ang ting Paragraph	S 20 0 2 1 1 1 1		2,8.7,0			LL.1110		T NAME		(4/5/42)(4)	Ι VΔI	RIANCE G	PANTED	
Amerer											29					DNR	MILED	
OWNER AL							CITY				STA	TE	ZIP CODE				h a copy or	
1901 C	hou	teau A	ve.				St.	Louis			MC	2	63166		pro	viae numb	er of variance.	
Labadie	Po	wer P	lant						Paul P									
SITE ADDR		_	ъ.						CITY				ST	ATE	ZIP (CODE		
226 Lat	OUS	e Pow	er Plan	t Ka.,	MC LE	D-645		OF POTEN	Labadi	<u>ie</u>			M	0	63055 CHECK ALL THAT APPLY)			
☐ Gas N	<i>l</i> loni	toring '	Vell	□ Мо	nitoring		☐ Hazardous Material										Products Only	
☐ Extra	ctior	Well		_	zometer	6							☐ Explo			/letals		
							1		el Drawdo	•			SVO				Herbicides	
AREA		OUNTY rankli			LEVATION						SMALLE	ST		RGEST	<u>·</u>	0000100071	TOTOTOTOTO	
LOCATION			<u> </u>		2)465'		-				14		% l	.T337	1,			
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Long. 90		- •	49)	,					,	10111		,	\ange	_2 M =a:	st 🗀 west	
TYPE OF			Above (Ground		TH OF ECTIVE C		DIAMETE	R OF IVE CASING	DIA	METER AND HOLE PRO	DEPTH	OF PRO	TECTIVE	⊠ s	Steel	LOCKING CAP?	
SURFACE COMPLET			Flush M		1					CAS	ING WAS PL	ACED		ERIAL	_	Numinum	⊠ Yes	
					_ 5				4 in.	12 i	n. 2 ft		ĺ		□F	Plastic	□ No	
WEEP HOLI	E?		D CAP?	LENGT MOUN	TH OF FLUS		METER OF	FLUSH			EPTH OF TH		SURFAC	Έ	IXI Co	oncrete		
⊠ Yes □ No	j	⊠ Ye										,020	COMPLE	TION	_			
	<u></u>					ft.		ft.		in.		ft.	GROOT		LJ Ot	her	-	
	LEN	IGTH	DIAMET		WEIGHT OR SDR#	DIAME	TER OF HOLE	MATERIA				BE	NTONITE	LENGT SEAL	H OF	MATERIAL		
RISER	20	28 ft. 2 in. 40 0.69 ft □ Other									SE				Slurry			
PIPE DETAIL	GLL		. 2 III. 0.69 π.										T	3 ft.	1		ılar	
		Yes		⊠ ea	turnted :	Zono [7 V . 5		FROM	PTH TO	FC	DRMATION	DESCRIPTION	
	⊠				th Zones						⊠ Yes □] No	0	10.2		y and Sil	it	
		ENGTH					-		Yes [10.2	13		ie Clay	•	
PRIMARY FILTER	1.	LNGIN		DEFIN	10 10 0	r PRIMAR	TFILIERI	PACK	BECONDAR	YFILTER	PACK LENG	ΤΗ	13.0	20.6			ery Fine Sand	
PACK		12.7	ft.			22.3	ft.				1.5 ft.		20.6	25		e Sand	•	
	_		tonite Si	urrv			ent/Ben	tonite SI	urry	LENGTH			25	35	Co	arse Sand	Į.	
ANNULAR				-	te Type				*									
SEAL	'	_ 14011	Oldiny L	Jerilorii	ie rype	_												
	1						Bentoni			17.8	ft.		j					
	<u> </u>	1000	1 50				er Used/	-	gal.	17.0	16.]					
WELL	LE	NGTH	DIA	METER	OF DI	RILL	DEPTH TO TOP OF		O41 5	MATER			1 .		1			
SCREEN					HOLE		SCREEN			⊈ inem	noplastic (PVC)	TD:					
		ft.	2"		8.25		24.7 ft.		Other _		····		35ft					
Multiple C	_			s 🔲 N					Remedia									
Submit a	ddil Lca	ional a sing t	as built solo dia	diagra	ıms sho	wing w	ell cons	truction	details i	includin	ig type a	nd .	i		1			
STATIC WAT	DATE WELL DRILLING WAS COMPLETED																	
NA FEET F	RON	MEASK	RING POI	y #/			9-18		o vino con	M-CC16D								
SIGNATURE	//	WARY CO	WIRAC	2R)			PERMIT NU				*	-						
<u>/////</u>	7	/ //	4				2876M				•		.		1			
l hereby d the De p ar	erti tme	ry tnat nt <i>ef</i> N	τη e m o latural l	nitorin Resour	g well h	arein de Jiremen	scribed ts for th	was co	nstructed	d in acc	ordance	with	1 1					
SIGNATURE	W)	DRILL	ER)	7			NUMBER	DATE			Sing We		1 1					
/ x	L	un	M	<u> </u>		2836			0-12	-09								
SIĞNATURÊ	(APP	RENTICI	E) /			PERMIT	NUMBER	DATE					TOTA	L DEF	TH:			
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OWNER N Amerer												WELL	NUMB	ER			RIANCE G	RANTED		
OWNER A		s	·				CITY					31 STATE		ZIP CODE			DNR Yes Attac	h a copy or		
1901 C	houte	au A	ve.					Louis				MO	- 1	63166				er of variance.		
SITE NAMI	E						1 201		CONTAC		=	1710		03100				•		
Labadie SITE ADDE		ver P	lant					· · · · · ·	Paul F	Pike		· .				-1				
226 Lal	oadie	Pow	er Plai	nt Rd., N	IC LB	D-645	i		Labad	lie				- I	ATE O	630				
PROPOSE	DUSE	OF WE	LL				TYPE C		TIAL SITE								ALL THAT AP	PLY)		
☐ Gas I		_	Well	☐ Mon	_			☐ Hazardous Material ☐ Landfill ☐ Initial Site Assessment ☐ L.U.S.T.									s Petroleum Products Only			
	Cuon	vveii		⊠ Piez	ometers						□ L.I	J.S.T.		☐ Explo			letals	□ voc		
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1 Franklin @465'																				
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TYPE OF			Above	Ground	LENGT PROTE	H OF CTIVE C		DIAMETE	R OF FIVE CASIN	NG T	HE HOLE	AND DE	EPTH (OF PRO	TECTIVE	□s	teel	LOCKING CAP?		
SURFACE	E Z / 150 O C C C C C C C C C C C C C C C C C C						1		-		ASING W			0,10	ERIAL		luminum	⊠ Yes		
WEEDLIN	PO I		D CAP?		5	ft.		6	in.		2 in. :					⊠ P	lastic	□ No		
WEEP HOL		VEN≀E Ye		LENGTH MOUNT	OF FLUS		METER OF	FLUSH	DIAMET HOLE F	TER AND	DEPTH O	OF THE	ED	SURFAC		⊠ Co	ncrete	•		
□ No												_	GROUT	ETION	Other					
	LENG	TH .	DIAME	TER W	EIGHT	DIAME	TER OF	ft.		in.			ft.		LENGT		MATERIAL			
			i		SDR#	DRILL			el ⊠ Ti	hermoj	plastic (PVC)		TONITE	SEAL	HOF	MATERIAL Slurry			
RISER PIPE	28 f	28 ft. 4 in.		40		0.85 ft. □ O				•	•	,	SEA	\L	3 ft.			lar Chips		
							SECONDARY FILTER PACK							DE	PTH	FC		DESCRIPTION		
ŀ	□ Y	'es		⊠ Satı	ırated Z	one	Unsate	urated Z	one H	lydrate	d 🛛 Ye	s 🗌 t	No -	FROM						
	⊠ N	lo		☐ Both	Zones	1	f Yes, Hy	/drated	☐ Yes	☐ No				0	12			Clay, Silt, VF		
PRIMARY	LE	NGTH		DEPTH T	O TOP OF	PRIMA	RY FILTER F	PACK S	ECONDAF	RY FILTE	R PACK I	ENGTH		12	21	Sar	id e sand			
FILTER PACK	,	3.8 1				01.0	-									1.11.	c sand	•		
	_						ft.			LENG	1.2	ft.		4						
ANNULAR			tonite S	•			nent/Ben		•		,,,,			21	32	Sar	ıd w/Plas	tic Clay		
SEAL	╵│┕	NON	Siurry	Bentonite										32	25					
							f Bentoni			17.0	`	£ı		32	35	Coa	arse Sand			
	LIEN	2711					er Used/i		gal.	17.0	, 	ft.		ĺ						
WELL	LEN	31M	DIA	METER	DIAME OF DR	LL	DEPTH TO TOP OF	i i	0	MATE	ERIAL			1						
SCREEN				-	HOLE		SCREEN	- 1 _	Steel	⊠ ine	moplas	stic (P	VC)			1				
Multiple O	10		4"		10.3		24.7 ft.		Other_		<u> </u>		·- ·	ļ		ł				
Multiple C				es 🛭 No			ump Inst													
Submit a size of al	l casi	ing, h	iole dia	ulagran Imeters	is snov and are	nng w out us	eli consi ed.	truction	details	includ	ling typ	e and	i	TD:		1				
STATIC WATER LEVEL DATE WELL DRILLING WAS COMPLETED FEET FROM MEASURING POINT 10-16																				
SIGNATURE,		- <i>T.</i> E	,,,				10-16							i i						
		Jun'		OR)			PERMIT NU 2876M	IMBER												
I hereby c	ertify	that	the mo	nitoring	well he	rein de	scribed	was co	nstructe	ed in a	ccorda	nce w	th							
the Depar	tmeŋ	t of N	atural I	Resource	s requ	remer	nts for th	e const	ruction	of mor	nitoring	wells								
	'	M		7. 1.)	1	рекміт 2836	NUMBER	DATE	0-26	. ^=		_								
SIGNATURE	(APPR	MICE)	<u> </u>	- +		NUMBER	DATE	v - C6	・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・				TOTA	l DE	TU.				
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MO 100-1415	(00-09)	K	LIUKN	OMPLET	こりょうない	n 10: \	WELLHEA	U PROT	ECTION S	SECTIO	N. PO. E	3OX 25	O. RÕ	LLA, MO	65402 5	73-368-	2165			



REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED DE CO	APPROVED BY DATE ROUTE

•		CEF	ETIFIC	CATIO	N RE	CORE)	ENTER Ph1						ROVED BY	D/	ATE	ROUTE	
INFORI	VATI	ON S	UPPLI	ED BY	PRIM/	ARY CC)NTR/	ACTOR	OR DRI	ILLING	3 CO1					200 200 200 200 0 0 0 0 0 10 0 0 0 0 0		
OWNER NA Ameren												WELL	NUMBE	ER			RIANCE GI DNR	RANTED
OWNER AL		<u>s</u>					CITY	, 				33 STATE		ZIP CODE		┤┍╵	Yes. Attacl	h a copy or
1901 C		au A	ve.				St.	Louis				МО	- 1	63166				er of variance.
SITE NAME		- D1							Paul P									
Labadie SITE ADDR		er Pi	ant						CITY					ST/	ATE	ZIP C	ODE	
226 Lat	adie	Pow	er Plan	t Rd., M	AC LB	D-645			Labadi	ie			···	M		630		···
PROPOSEI				☐ Moni	itoring	ı			NTIAL SITE IS Material	.i	⊠ Lai	ugher-				•	ALL THAT AP	PRLY) Products Only
☐ Extra		-			cometers	ا غ			Assessm		_	U.S.T.		☐ Explos			retroieum i ∕letals	VOC
				•			1		vel Drawdo					□ svoc	CS	□Р		Herbicides
AREA		ONTY anklii	n		EVATION 34651						SM	ALLEST	T	LA	RGEST			
LOCATION	OF WE	ELL			103					r		¼		% N	√W	_%		
Lat. 38_ Long. 90		- ° .°	33 <u> </u>	', _56_ ' 27_		, <u>,</u>	Se	ction 17	7	Townsi							_2 🛭 Ea:	st 🔲 West
TYPE OF		121	Above C	Ground	LENGT	TH OF ECTIVE CAS	SING	DIAMETE	ER OF	IG Th	AMETER HE HOLF	R AND DE	EPTH (OF PROT	TECTIVE	⊠s	steel	LOCKING CAP?
SURFACE	2		Flush M					• • • • •				VAS PLAC			ERIAL		Numinum	⊠ Yes
		<u> </u>			5	ft.			x4 in.			2 ft.				□ P	Plastic	□ No
WEEP HOL		VENTEL Yes	D CAP?	MOUNT	H OF FLUSI	SH DIAM MOU	METER OF UNT	FFLUSH		ER AND D				SURFAC		⊠ Cc	oncrete	
□ No	- 1	□ No	i	1	į.	ft.		ft.		in			4	GROUT	TION	☐ Ot	ther	
	LENG		DIAMET		VEIGHT	DIAMET		MATERIA		in.			ft.		LENGT		MATERIAL	
		-	1		R SDR#	DRILLH	OLE	☐ Ste	eel 🖾 Th	легтор	olastic ((PVC)	BEN SEA	NTONITE AL	SEAL		⊠Slurry	-
RISER PIPE	28 f	t.	2 in.	40	0 '	0.69 ft			her			!	3	\ L	3 ft.	I	☐Grant	ular Chips
DETAIL	GLUE								LTER PAC						PTH	FC	DRMATION	DESCRIPTION
	ים			ž .					Zone Hy	-		as 🔲 !	No	FROM 0	11.6	$\dashv_{G_{i}}$	Ci	14
	N				th Zones				☐ Yes [11.6	26.5	Cia	ay and Sil ne Sand	ı,t
PRIMARY	, LE	ENGTH		DEPTH T	O TOP OF	PRIMARY	/ FILTER	PACK 5	SECONDAR	Y FILTER	RPACK	LENGTH	1	26.5	35	1	arse Sand	i
FILTER PACK	,	13.1 f	es	l		21.7	ft.	1			1.2	ft.		'	1	ŀ		
			tonite SI	lurry			-	ntonite S	Slurry	LENGT		- 11.		-				
ANNULAR	1 -			Bentonite					•					1 '				
SEAL	-	11401.	Giui, y L)GHUHHA				nite Used						1	1			
										17.5	j	ft.		i '				
	LEN	1GTH	DIA	AMETER	DIAME		DEPTH TO	/Bag 25	gal.					- '	1			
WELL					OF DR HOLE	RILL 1	TOP OF SCREEN		Steel	MATE Ther		astic (P	,VC)	-	1			
SCREEN	10	ft.	2"	ft.	8.25	in.	24.5 ft.	ے ا	Other _			-	•		1			
Multiple C				es 🗌 No					or Remedi	iation	☐ Yes	s		TD:	1			
Submit a	Submit additional as built diagrams showin size of all casing, hole diameters and grout							struction	n details	includ	ling ty	pe an	d	35ft				
STATIC WA	EVEL	$\overline{\Lambda}$	1		C	DATE WEL	LL DRILLIN	NG WAS CO	MPLETE	.D			1 '	1				
NA FEET FROM WEASTIRING POINT SHORE-PRIMARY CONTRACTOR)							9-18	11 14 10 C D						4 /	1 -			
SHOULD THE PROPERTY CONTRACTOR)						_	PERMIT NUMBER 2876M							1				
I hereby	y that	the mo	nitoring Resour	J well he	erein de	described was constructed in accordance with nents for the construction of monitoring wells.					vith	1	ĺ					
SIGNATURE	<i>Y</i> 5	L BRILL	ER)	1	7		NUMBER	DATE		-	1107	9 110	3.	1	i			!
	XZ.	w	ne	per]	2836			10-12	<u>-09</u>							·	ļ
SIGNATURE	. (Arr	ENTIF	5/		J	PERMIT	NUMBER	DATE						TOTA	L DEF	PTH:		



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					N RE		_	ENTE	RED		Ph3		APP	ROVED BY	1	DATE			
INFOR	MATIC	ON S	UPPL	IED BY	PRIM	ARY C	ONTR	ACTOR	OR DR	RILL	NG COI	NTRA	CTC)R		* : - ! ! :			isin Agan
OWNER N. Amerer	-UVIC											WELL 35	NUME	BER		V	ARIANCE O		
OWNER AL							CIT					STATE	Т	ZIP CODE		\dashv \Box	Yes. Attac	h a copy or	
1901 C		u A	ve.				St.	Louis	CONTAC	CT NAI	ME	МО		63166		pro	ovide numb	er of varianc	.e.
Labadie	Pow	er Pl	ant						Paul F		ME								
SITE ADDR		Down	or Dian	ו הם ו	AC I DI	D 645			CITY	••					TATE	- 1	CODE		_
PROPOSE	USE O	FWEL	L L	t Ka., I	VIC LB	J-043	TYPE	OF POTEN	Labad		·				IO		055 KALL THAT A	PPI VI	
Gas M		_		☐ Mon	_				s Materia		🛛 La							Products On	ıly
	ction W	/ell		⊠ Plez	ometers		1 —		Assessm		□ L.I	J.S.T.		☐ Expl			Metals	□ voc	
AREA 1	COU	NTY nklir			VATION			ator Lov	O DIAWO	JOWII	SM	ALLES	<u>і</u> Г	SVO	ARGEST		Pesticides/	Herbicides	
LOCATION				1 @	465'		1					_¼ _		1⁄4	NW	1/4			
Lat. 38_ Long. 90	·	. 3	3 <u> </u>	', _57. 18	<u>"</u>		Se	ection 17	7	Tow	nship4						⊋_2 ⊠ Ea	st 🔲 West	t
TYPE OF	1	⊠ A	Above G	Fround	LENGT PROTE	H OF CTIVE CA	SING	DIAMETE	R OF TIVE CASIN	vG	DIAMETER THE HOLE	AND DE	PTH		OTECTIVE SING	Ø	Steel	LOCKING CA	AP?
SURFACE COMPLET			lush M		_					ļ	CASING W			, -,	TERIAL		Aluminum	⊠ Yes □ No	
WEEP HOLI		NTED	CAP?		5 OF FLUSI			4: F FLUSH	x4 in.		12 in. 2	2 ft.		 			Plastic	10.40	
⊠ Yes		Yes	•	MOUNT		MOI	JNT		HOLE F	LUSH	MOUNT WA	S PLAC	ED	SURFA	ETION	⊠c	Concrete		
□ No] No	200		f			ft.		in.			ft.	GROUT			other	_ *	
	LENGT	"	DIAMET		EIGHT R SDR#	DIAME: DRILL I		MATERI Ste	_	herm	oplastic (I	PVC)	BEN	NTONITE	LENG SEAL	TH OF	MATERIAL Slurry		
RISER PIPE	28 ft.		2 in.	4	0	0.69	ft.	Ott		_	opiaouo (i	. ,	SEA	NL	3 ft.		1	lar □Chips	
DETAIL	GLUED								LTER PAC						PTH	F	ORMATION	DESCRIPTIO	N
	☐ Ye		ŀ								ed 🛛 Ye	1 🔲 a	No	FROM 0	10.2	\dashv	l 1 G ''	14	
	⊠ No	GTH		_	N Zones				☐ Yes		O TER PACK L			10.2	25	0	lay and Sil ne Sand	ıt	
PRIMARY FILTER		9111		DEFINI	O TOP OF	FRIMAR	TFILIER	PACK	SECONDAR	RY FILT	TER PACK L	ENGTH		25	35	l l		l w/ Gravel	l
PACK	12	.4 ft				20.6	ft.				1.3	ft.							
			onite Sl	•				ntonite S	•	LEN	IGTH								
ANNULAR SEAL		Non :	Slurry B	entonite		_		nent Use							}				
	1				_			ite Used		16.	2	ft.							
	LENG	TH	l DIA	METER	DIAME	_	DEPTH TO	Bag 25	gal.	10	. <i></i>	11.		4					
WELL SCREEN		•••			OF DRI	ഥ '	TOP OF SCREEN		Steel		TERIAL iermoplas	tic (P\	/C)	1	ŀ				
JOREEN	10 ft		2"	ft.	8.25	n. :	22.7 ft.		Other_		_		,	i					
Multiple C	ased V	Vells	☐ Ye	s 🗌 No)			talled for	r Remedi	ation	☐ Yes			TD:					
Submit ad size of all	dditior casir	nal a ig, he	s built (ole diạ	diagrar meters	ns show and gro	ing we	ell cons d.	truction	details	inclu	iding typ	e and		35ft					
STATIC WATE NA FEET F			JA poh	///				L DRILLIN	G WAS CO	MPLET	TED			i					İ
SIGNATURE)-18 ERMIT NI	JMBER							l I				
Me	//	<u> </u>	-/				2876M												
I hereby certify that the monitoring well herein described the pepartment of Natural Resources requirements for the								was co	nstructe ruction o	d in a	accordar	iw ear	th						
SIGNATURE (WELL DRILLER) PERMIT NUMBER							DATE												
SIGNATURE (APPREI	THCE)	d/K	<u></u>		2836 PERMIT I	NUMBER	DATE	0-12	<u>-0</u>	7			TOTA					_
MO 780-1415	(06-00)	D¢	TURN	OMBIET				Ī	EOTIO:: -		ON, PO. B			TOTA					
	(20-03)	ΛĽ	· CINIT C	OMP LE	TO LOKE	ii iU: W	CLLNC/	יט דאט [ECTION S	DECTI	UN, PO. B	OX 250), RO	LLA, MO	65402 5	73-368	-2165		



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INFOR OWNER N	MAT	ION :	SUPPL	.IED	BY PRIM	IARY (CONTR	ACTOR	OR DR	RILL	ING CON	NTRA	CTC)R		Par (Se)	1 2	en en en en en en en en en en en en en e
Amere	MINIC											WELL				VA	RIANCE C	
OWNER A		s					CITY	,				36 STATE		ZIP CODE			DNR Yes Attac	h a copy or
1901 C	houte	au A	ve.				St.	Louis			j	МО	- 1	63166		pro	vide numb	er of variance.
SITE NAME Labadie	_	D	14						CONTAC		ME							
SITE ADDR		VCI P	lanı						Paul I	TKE				l er	ATE	Lain		
226 Lal	oadie	Pow	er Plar	ıt Rd	I., MC LE	D-645			Labad	lie				1	ΛΙΕ [Ο	630	CODE	
PROPOSE Gas I					An order of		,		ITIAL SITE					MONITORI	NG FOR:	(CHECK	ALL THAT A	
☐ Extra		-	/veii		Aonitoring Piezometer	•			s Materia Assessn		⊠ La							Products Only
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AREA		UNTY ankli			ELEVATION				<u></u>			ALLES	T		RGEST		esticides/	Herbicides
LOCATION			ш		@465'		-{					1/4		¼ l	TTI/	1,		,
Lat. 38		_ • ;	34 <u> </u>	_,	.o <u>"</u>		Se	ection 17	,	Tow	 nship4	-″ - 4 No	orth	% 1		_	2 🖾 = 0	st 🔲 West
Long. 90		•	49				<u> </u>									Nanye		st 🗀 vvest
TYPE OF SURFACE		×	Above (Grour		TH OF ECTIVE C	ASING	DIAMETE PROTECT	R OF IIVE CASIN	1G	DIAMETER THE HOLE	PROTE	CTIVE	OF PRO	TECTIVE NG	Ø 8	Steel	LOCKING CAP?
COMPLET			Flush M	lount	1 _						CASING WA	AS PLAC	CED		ERIAL		Numinum	⊠ Yes
WEEP HOL	E? \	/ENTE	CAP?	LEN	GTH OF FLU		AMETER OF	4 ₂	4 in.	TED AN	12 in . 2	ft.			· · · · · · · · · · · · · · · · · · ·		Plastic	□ No
Yes		X Ye	s	MOL	JNT	MC	DUNT	. 20077	HOLE F	LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠ Co	oncrete	
□ No	1	□ No				ft.		ft.		in.			ft.	GROUT		□ Ot	her	<u></u>
	LENG	TH	DIAMET	ER	WEIGHT OR SDR#	DIAME	TER OF HOLE	MATERIA					<u> </u>	<u> </u>	LENG	TH OF	MATERIAL	
RISER						l					oplastic (F	VC)	BE! SE!	NTONITE NL	SEAL		⊠Slurry	□Pellets
PIPE DETAIL	28 f		2 in.	Ш	40	0.69	ft. Other							3 ft.		☐Granu	ılar	
DETAIL	□ Y			N (-		TER PAC					DE FROM	PTH TO	FC	DRMATION	DESCRIPTION
- 1	⊠ N				Saturated 2 Both Zones							1 🔲 2	Vo	0	10	٦,	y and Sil	
		NGTH			TH TO TOP O		f Yes, Hy							10	32		e Sand	ı
PRIMARY FILTER			}			1 1 1 1 1 1 1 1 1 1	VI LICITION	TACK S	BECONDAR	(T FIL	IER PACK LI	32 35				_ I	dium Sar	nd
PACK	1	3.3 f	t.			22.0	ft.	1			2.0	ft.		1				
		Bent	onite SI	ипу		☐ Cen	nent/Ben	tonite SI	urry	LEN	NGTH			1		İ		
ANNULAR SEAL		Non	Slurry E	Bento	nite Type	☐ Bag	s of Cem	ent Use	d	l				1				
	İ					□ % o	f Bentoni	te Used		ĺ								
						⊠ Wat	er Used/l	Bag 25	gal.	17	.0	ft.						
WELL	LEN	HTE	DIA	METER	OF DE		DEPTH TO TOP OF			MA	TERIAL	-		1				
SCREEN			1		HOLE		SCREEN		Steel 2	X Th	nermoplas	tic (P\	/C)	1				
	10		2"		8.25	in.	25.0 ft.		Other _]		1		
Multiple C			☐ Ye			P	ump Inst	alled for	Remedi	ation	☐ Yes			TD:		1		
Submit a	dditio Casi	naia na.h	s built ole dia	diag: mete	rams shows	wing w	ell const	truction	details	inclu	uding type	e and	!	35ft		1		
STATIC WAT	ER LEV	EL O	77	7	no unu gi		DATE WELL	L DRILLING	S WAS CO	MPLET	TED			1				
NA FEET F							9-18							i				
SIGNATION		RYCO	NTRACTO	DR)	•		PERMIT NU 2876M	MBER						1				
hereby certify that the monitoring well herein described						scribed	and was constructed in accordance with				46-							
nia Aahan	ne gepartified or natural Resources requirements for the							he construction of monitoring wells.										
	IGNATURE OVERLORILLER) PERMIT NUMBER 2836							0-12-09										
SIGNATURE (NATURE (APPRENTICE) 2836 PERMIT NUMBER											TOTAL DEPTH:						
AO 780-1415	(UE-U0)	V	TURN	ОМВІ	ETED FOR	M TO:	NEL LIVE	ļ	.07.4					TOTAL	- VEF	m:		



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INFOR	MAT	TION §	SUPPL	JED I	BY	PRIMA	RY C	ONTR	ACTO	R OI	R DRIL	LLING CO	NTRA	CTO	OR ·		Property and		27 PA S
OWNER N/ Ameren							_		_	_			1	NUMBI	ER	***************************************		RIANCE GI	RANTED
OWNER AL		.ss						CITY	<u> </u>				38 STATE	=	ZIP CODE		$\dashv \Box$	DNR Yes. Attack	h a copy or
1901 CI		teau A	.ve.		_	-		St.	Louis				МО		63166		prov	vide numbe	er of variance.
SITE NAME	_	D			_						CONTACT N								
Labadie			lant		—					!	CITY	<u></u>			STA	ATE	7 	CODE	
226 Lab	o <u>adi</u>	e Pow	er Plan	ıt <u>Rd</u>	l. <u>, M</u>	IC LBI)-6 <u>45</u>			L	Labadie	.			М	O	630	055	
PROPOSE	D USE	E OF WE	ELL					TYPE	OF POTE	ENTIAL	L SITE			\exists	MONITORIN	NG FOR: ((CHECK	ALL THAT AP	
☐ Gas N		_		□ M ⊠ Pi		toring meters		1	iazardou nitial Site		/laterial ssessmer		.andfill U.S.T.						Products Only
				<u> </u>	10						Drawdow	_	.U.G. 1		☐ Explos			Metals Pesticides/h	☐ VOC Herbicides
AREA 1		OUNTY ranklii			ELEV @4	VATION			<u></u>	<u> </u>			MALLES1	Ť		RGEST		Gouvane.	Terprotect
LOCATION	,							-					_1⁄4		% N	1W	14		
Lat. 38		° _	33 <u> </u>		_52			Se	ection 1	17	Tc	ownship					_	2 🛭 Eas	st 🔲 West
Long. 90			49		31	LENGTH	H OF		DIAMET			DIAMETE			OF DROT	TECTIVE			
TYPE OF SURFACE		⊠	Above G	Grour	nd		CTIVE CA	SING			E CASING		E PROTE	ECTIVE	E CASIN	NG	X 5	Steel	LOCKING CAP?
COMPLET			Flush M	lount	.	5	ft.			4x4	l	12 in.		بالباب	MATE	RIAL		Aluminum Plastic	□ No
WEEP HOL	.E?		D CAP?			OF FLUSH	H DIAN		DF FLUSH	f D	DIAMETER	R AND DEPTH	OF THE		SURFACE		T		L
⊠ Yes		⊠ Ye	1	MOU	JNı		MOL	JNT		"	10LE FLUX	JSH MOUNT W	/AS PLAC	;ED	COMPLE			oncrete	
□ No		□No		<u></u>		ft			ft.		1	in.		ft.	GROUT			ther	
	LEN	NGTH	DIAMET	ER		IGHT SDR#	DIAMET DRILL H		MATER		™ The	ermoplastic	(2)(0)	BE	NTONITE	LENGT SEAL		MATERIAL	
RISER	27	/ (4	2 in.		40	,]	0.69 f	å	1		Z Iner	торіазис	(PVC)	SEA		3 ft.		⊠Siurry □Granu	r
PIPE DETAIL		UED .	2 111.	_ _	<u> </u>	<u></u>					ER PACK	:		Щ.	DEF				DESCRIPTION
		Yes	ļ	X:	Satu	rated Z						drated 🛛 Y		No	FROM	ТО		21444	<u> </u>
	Ø	No	ļ			Zones] Yes □			•-	0	15			Silt,Clay and
PRIMARY	,T	LENGTH		DEP	тнтс) TOP OF	PRIMAR'	Y FILTER	PACK	SEC	ONDARY	FILTER PACK	LENGTH	1	15	30	· 1	ne Sand ne Sand	
FILTER PACK		12.1	_	ĺ			21 6	•	}	ı					30	35	· ·		m and Coarse
		13.1 f					21.5	ft.		~1		2 LENGTH	ft.		4 /	1 .	Sar		Hi wile Co
ANNULAR	-		ntonite SI	•					ntonite S	•	ן עי	LLITO			1 1	1			
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						_			nite Use		-	16.3	ft.		1	1			
	+	ENGTH	l DI/	AMETER	<u>-</u> R	DIAMET	TER I	er Used	d/Bag 25	5 gai.	it.	···			4)	1			
WELL	-			IVino	^ /	OF DRI	ILL.	TOP OF SCREEN		□ Si		MATERIAL Thermopla	astic (P	VC)	-	i			
SCREEN	$\ _{1^t}$	0 ft.	2"	ff.	,	8.251	ı	24.3 ft.	ہ ا		Other	_	A ,	٠-,	1	i			
Multiple C] No							tion ☐ Ye	 es		1	į			l
Submit a	addi	itional a	as built	t diag	gram	ns show	ving we	ell cons				ncluding ty		d	TD:	į			ĺ
size of a	III ca	asing, ł	nole dia	amete	ers a	and gro	out use	ed.					F -		35ft	ı			
NA FEET			URING PO	INDE				DATE WEI 9-22	LL DRILLI	ING W	WAS COMP	PLETED			1	,			
	SIGNATURE (PRIMARY CONTRACTOR)							PERMIT N		—					1				;
Mally 11/w								2876M]				
the Depar	the Department∕of Natural Resources require							described was constructed in accordance with nents for the construction of monitoring wells.]						
SIGNATURE	IGNATURE OF EAL DRILLER) PI							RMIT NUMBER DATE /					1						
SIGNATURE		PRENTICE		<u>2c</u>			2836 PERMIT	36 10/(2/()9						- 551			· ·		
	<u>`</u>	<u>//</u>						O WELLUS AD PROTECTION OF THE					TOTAL	_ UEF	31H:				



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Physical Company	AND THE RESERVE		2125 148 1991	On Automotive Comment	PROPERTY AND ADDRESS.			Ph1	Ph2	2 Ph3-	194			基础	AIE		
OWNER N	MAT	ION S	SUPPL	JED B	/ PRIM	ARY C	ONTR	ACTOR	OR DI	RILLING CO				er e		4	
Amere											WELL N	NUMBE	ER			RIANCE G	RANTED
OWNER A		S					CITY				40 STATE	- (;	IP CODE		1	DNR Yes, Attac	h a copy or
1901 C		eau A	ve.		_		St.	Louis			МО		53166		prov	vide numb	er of variance.
SITE NAM		_								CT NAME							
Labadio		ver P	lant		 .				Paul	Pike						<u> </u>	
226 La		Pow	er Plat	nt Rd	MC LBI	7-645			Labad	dia			l l	ATE		CODE	
PROPOSE	DUSE	OF WE	LL	10 100.,	110 1301	J-043		OF POTEN	TIAL SITE	ule		··· —		O NG FOR: (630	DSS ALL THAT AF	PPI VI
Gas		-	Veli	☐ Mor	_				Materia		andfill						Products Only
Extra	ction \	Well		□ Piez	cometers		Ini	tial Site	Assessr	ment 🔲 L.	U.S.T.		☐ Explo			/letals	□ voc
AREA	CO	UNTY) EI	EVATION		<u> w</u>	ater Lev	el Draw				☐ svo			esticides/	Herbicides
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			49_		LENGT	1 OF	1	DIAMETE	R OF	DIAMETER	AND DE	םדט כ	E DEO	TECTIVE			1 100/01/0
TYPE OF SURFACE			Above (Ground	PROTE	CTIVE CA	ASING		IVE CASI	NG THE HOLE CASING W	PROTEC	TIVE	CASI	NG		Steel	LOCKING CAP?
COMPLET	TION		Flush M	lount	-	£		4		1.		EU	MAII	ERIAL		luminum	□ No
WEEP HOL	E? V	VENTE	CAP?		5 OF FLUSI	ft.	METER OF		4 in.	12 in. TER AND DEPTH (2 ft. OF THE					Plastic	
Yes		⊠ Ye	S	MOUNT		MOI	UNT		HOLE F	LUSH MOUNT W	AS PLACE	ED	SURFAC		⊠ Co	oncrete	
□ No	ן נ	□ No			fi	.		ft.		in.		ft.	GROUT		☐ Ot	her	_
	LENG	тн	DIAMET		EIGHT R SDR#		TER OF	MATERIA	AL.			74.		LENGT	H OF	MATERIAL	
DISED						DRILL I	TOLE	☐ Ste	el 🛛 T	hermoplastic (PVC)	BEN	TONITE	SEAL		⊠Slurry	□Pellets
RISER PIPE	28 ft		2 in.	4	0	0.69			er			U L/1	-	3 ft.		☐Granu	ılar ∐Chips
DETAIL	GLUE					_	SECONE							PTH	FC	RMATION	DESCRIPTION
	□ Y									lydrated 🛛 Ye	s 🗌 N	lo	FROM 0	15	+		
i	⊠N				h Zones		Yes, Hy						ľ	13	Inte		Clay, Silt, VF
PRIMARY	LE	NGTH		DEPTH 1	O TOP OF	PRIMAR	Y FILTER F	PACK S	ECONDA	RY FILTER PACK I	LENGTH		15	20		e Sand	
FILTER PACK	1	4.3 f				20.5	E4					j	20	35	i		oarse Sand
··						4U.J		- 1		1.7						uiuii - C	
ANNULAR			onito CI	L LPPO /	ſ	7.0	ft.			LENGTH	ft.	_				dium - C	
AUMOFW			onite SI	•			ent/Ben		•	LENGTH	_π			·		dium - C	
SEAL				•	Туре [Bags	ent/Ben	ent Use	d	LENGTH	_π.					dium - C	
				•	Type [☐ Bags ☐ % of	ent/Ben of Cem Bentoni	ent Use te Used	d							ulum - C	
		Non	Slurry E	3entonite	Type [☐ Bags ☐ % of ☑ Wate	ent/Ben s of Cem Bentoni er Used/t	ent Use te Used 3ag 25 (d	LENGTH	π. ft.					uium - C	
		Non	Slurry E	•	DIAMET	Bags Wate	ent/Beni s of Cem Bentoni er Used/I DEPTH TO TOP OF	ent Use te Used Bag 25 g	d gal.	15.8	ft.					dium - C	
SEAL	LENG	Non STH	Slurry E	Bentonite	DIAMETOF DRI	Bags Wate	ent/Bent s of Cem Bentonia er Used/t DEPTH TO TOP OF SCREEN	ent Used te Used Bag 25 g	gal.	15.8	ft.	C)				dium - C	
SEAL WELL SCREEN	LENG	Non ETH t	Slumy E	Bentonite METER ft.	DIAMETOF DRIHOLE 8.25 i	Bags Wate	ent/Bent s of Cem Bentoning or Used/I DEPTH TO TOP OF SCREEN 24.5 ft.	ent Use te Used Bag 25 (gal. Steel (15.8 MATERIAL ☑ Thermoplas	ft. stic (PV	C)				dium - C	
SEAL WELL SCREEN Multiple C	LENG 10 f	Non t.	Slumy E	METER ft.	DIAMETOF DRIHOLE 8.25 i	☐ Bags ☐ % of ☐ Water ER ☐ ☐ ☐ I	ent/Benis of Cem Bentonia Bent	ent Use te Used Bag 25 (gal. Steel Other _	15.8 MATERIAL Thermoplasistion	ft.	\dashv				dium - C	
WELL SCREEN Multiple Co	LENG 10 f	Non t. Wells	DIAI 2" Ye s built	METER ft. s \square No	DIAMETOF DRIHOLE 8.25 i	Bags Water Water In. 2	ent/Benis of Cem Bentonis Used/I DEPTH TO TOP OF SCREEN 24.5 ft. Jump Instelli consti	ent Use te Used Bag 25 (gal. Steel Other _	15.8 MATERIAL ☑ Thermoplas	ft.	\dashv	TD:			dium - C	
WELL SCREEN Multiple Control Submit and Size of all	10 f ased \ dditio	Non t. Wells nal a	DIAI 2" Ye s built ole dia	METER ft. s No	DIAMETOF DRIHOLE 8.25 i	Bags Wate Wate Fire I I I I I I I I I I I I I I I I I I I	Bentonion Used/it of Communication of Co	ent Used te Used Bag 25 g	gal. Steel Other _ Remedi	15.8 MATERIAL ☑ Thermoplase including types	ft.	\dashv	TD: 35ft			dium - C	
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WELL SCREEN Multiple Consideration Submit and Size of all STATIC WATEN NA FEET F	10 f ased \ dditio	t. Wells	DIAN 2" Yes built ole dia	METER ft. s No diagram meters	DIAMETOF DRIHOLE 8.25 i	Bags Wate Water In. Puing we ut use	Bentonia Used/i DEPTH TO TOP OF SCREEN 24.5 ft. Jump Inst d. DATE WELL 10-16	ent Used te Used Bag 25 g	gal. Steel Other _ Remedi	15.8 MATERIAL ☑ Thermoplase including types	ft.	\dashv				dium - C	
WELL SCREEN Multiple Consumer Submit as size of all STATIC WATER NATIONAL STATIC WATER	10 f ased \ dditio	Non ETH t. Wells nal a ng, h EL	DIAI 2" Yes built ole dia	METER ft. s No diagram meters NT DR)	DIAMETOF DRING HOLE 8.25 in the show and ground gr	Bags Wate Wate In. Puing we ut use	Bentonia Sof Cem Bentonia Used/I DEPTH TO TOP OF SCREEN 24.5 ft. Jump Inst d. DATE WELL 0-16 DERMIT NU 2876M	ent Use te Used Bag 25 g	gal. Steel Other _ Remedi details	15.8 MATERIAL Thermoplasisistion Yes including type MPLETED	ft. stic (PV					dium - C	
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FATE WELL NUMBER	REVENUE NO.
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			RTIFIC						Ph1	ED Ph2	ev.	Ph3		131	ROVED BY	D	ATE	ROUTE	
INFOR	MAT	ION S	SUPPL	IED B	Y PR	IMAR	Y CC	NTRA	CTOR	OR DRI	LLI	NG CO	NTRAC					in the second se	
OWNER N													WELL	UMB	ER			RIANCE G	RANTED
Amerer OWNER AL		SS	· · · ·					CITY		·			42 STATE	-т	ZIP CODE			DNR Yes. Attacl	n a copy or
1901 C	hout	teau A	ve.					St.	Louis	-		}	MO	- 1	63166				er of variance.
SITE NAME	-							· ·	•	CONTACT		ME							
Labadie		wer P	lant			· · · · · ·		•		Paul P	ike								
226 Lat		a Dow	ar Dlan	+ D.4	MC	מם ז	615			Labadi	١				ł	ATE	ZIP C		
PROPOSE	O USE	OF WE	LL Flan	ı Nu.,	, MIC	LBD-	043	TYPE C	OF POTEN	LADAGI	e		 -	-1	MONITORII		630	155 ALL THAT AP	PLY)
☐ Gas N		_	Vell	□ Mc	onitorin	ng ·		☐ Ha	azardous	Material		🛛 La	ndfill						Products Only
☐ Extra	ction	Well		⊠ Ple	ezome	ters		☐ Ini	tial Site	Assessm	ent		J.S.T.	ļ	☐ Explo			fetals	□ voc ´
AREA	1 6	OUNTY		1.	EL ELIA TI	1011		□ Wa	ater Lev	el Drawdo	own			\perp	☐ svoc		□ P	esticides/l	lerbicides
1		rankli			@465		ł					SM	ALLEST	٠,	LA	RGEST			
LOCATION	OF W	ELL			<u> </u>								¼ _		%_		1/4		
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Long. 90		,	49			NGTH C			DIAMETE										
TYPE OF SURFACE		⊠	Above (Ground		ROTECT				TIVE CASING	3	DIAMETER THE HOLE	PROTEC	TIVE	CASI		⊠s	teel	LOCKING CAP?
COMPLET			Flush M	lount		_				_		CASING W		ED	MATE	RIAL		luminum	□ No
WEEP HOL	F2	VENTE	D CAP?	LENG	TH OF F		ft.	ETED OF	6x FLUSH	6 in.		12 in. ND DEPTH (□ Р	lastic	
⊠ Yes	_ [⊠ Ye		MOUN		20011	MOU	NT	1 20011	HOLE FL	USH	MOUNT W	AS PLACE	D	SURFAC		⊠ Co	ncrete	
☐ No		☐ No				ft.			ft.		i.				GROUT	IION	□ Ot	her	
· · ·]	LEN	GTH	DIAMET		WEIGH	T D	IAMET	ER OF	MATERIA		in.			ft.		LENGT		MATERIAL	
					OR SDR	₹# □	RILL H	OLE	☐ Ste	el 🛛 Th	erm	oplastic (PVC)		ITONITE	SEAL		Slurry	
RISER PIPE	28	ft.	4 in.		40		.85 ft		☐ Oth	ег				SEA	. .	3 ft.		-	lar
DETAIL	GLL	IED							DARY FIL	TER PAC	K		—— L		DEI	PTH	FC		DESCRIPTION
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	\boxtimes	No		□в	oth Zo	nes	lf '	Yes, Hy	/drated	☐ Yes [ם N ⊑	lo			0 8	8 20			lt & clay
PRIMARY	L	ENGTH.		DEPTI	н то то	P OF PF	MARY	FILTER	PACK S	SECONDAR	Y FIL	TER PACK	ENGTH		1°	20			nd, fine sand,
FILTER PACK															20	35		, and clay	medium sand
PAGE		14 ft.	·			21		ft.				1.3	ft.						ice gravel
			tonite SI	•					tonite SI	· ·	LEP	NGTH							3
ANNULAR SEAL	י נ	☐ Non	Slurry E	3enton	ite Typ	ре 🗌	Bags	of Cem	ent Use	ed									
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							Wate	r Used/	Bag 25	gal.	17		ft.		<u> </u>				
	LE	NGTH	DIA	METER		IAMETEI F DRILL	₹ [EPTH TO				TERIAL			1 1				
WELL SCREEN	l					OLE	s	CREEN		Steel 2	₫ Th	nermopia	stic (P\	(C)	1]		
	10) ft.	4"	ft.	14	0.3 in.	2	4.4 ft.		Other _		_							
Multiple C	ase	d Wells	☐ Ye	s 🛛	No		Pu	mp Inst	talled for	Remedia	ation	Yes	3		1				
Submit a	ddit	ional a	as built	diagr	ams s	howin	g we	ll cons	truction	details i	inclu	uding ty	e and		TD:		•		
STATIC WAT			ole dia	mete	rs and	grou									35ft				
			SURING F	OINT				ATE WEL 0-06	L DRILLIN	G WAS CON	IPLE	TED					1.		
SIGNATURE								ERMIT N	JMBER						{		İ		
Mille	//-	11/1	al					876M							}				
I hereby	erti	fy that	the mo	nitori	ng wel	li here	n des	cribed	was co	nstructe	d in	accorda	nce wi	th]				
the Depar	(V/EI	DRILL	iaturai I ER)	Kesou	irces r			s for th	DATE	ruction c	of m	onitoring	wells	<u> </u>					i
<i>X</i> 7 ⁻ .	IJ	us	1/1	ho		ļ	336		1	0-12-	0	9							
SIGNATURE	(APP	RENTIC	2)					IUMBER	DATE	<u> </u>			 -		TOTA	L DEF	TH:		
1/0 700 444		V		201121	CTCO I				<u> </u>										



OFFICE USE ONLY REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO:
ENTERED Ph2 Ph2	APPROVED BY DATE ROUTE

•		-	-		N RE)	ENTER				APPI	ROVED BY		NTE.	ROUTE	
INFORM	/A	TION S	SUPPLI	ED BY	PRIMA	RY C	ONTRA	CTOR	Ph2 OR DRI	LLING C	ONTRA	СТО)R	9, 816 m.s.			
OWNER NA	ME	or promise				er anders 1			<u></u>		WELL					RIANCE G	RANTED
Ameren											43					ONR	
OWNER AD							CITY				STATE		ZIP CODE		יםן	es. Attacl	па сору ог
1901 Cl		teau A	ve.				St. I	ouis			MO	[_	63166		prov	ide numbe	er of variance.
SITE NAME		wer Pi	lant						Paul P								
SITE ADDR	ESS								СПҮ				STA	ATE	ZIP C	ODE	
226 Lab				t Rd., 1	MC LB	D-645			Labadi	e			M		630	55	
PROPOSED									TIAL SITE							ALL THAT AP	
☐ Gas N		•		☐ Mor	•				Materiai	_	Landfill				-		Products Only
☐ Extrac	cuor	ı vveii		ZI Piez	zometers		_		Assessm	_	L.U.S.T.		☐ Explos			letals	□ voc
AREA	Тс	OUNTY		FI	EVATION		LJ Wa	iter Lev	el Drawdo		SMALLES		SVOC		P	esticides/l	Herbicides
1		rankli	n		465'						SMALLES	•	LA	RGEST			
LOCATION	OF V	/ELL	••				1				¼		% N	√W	14		
Lat. 38 Long. 90		۔ ° ،	33 <u> </u>	_', ₋ 51			Sec	ction 17	<u> </u>	Township	44 No	orth		F	Range _	2 🛭 Eas	st 🗌 West
TYPE OF					LENGT	H OF		DIAMETE			TER AND D			ECTIVE	⊠s	tool	LOCKING CAP?
SURFACE	i		Above C	Ground	PROTE	CTIVE CA	ASING	PROTECT	TIVE CASING		IOLE PROTE IG WAS PLA	CED	CASII MATE			luminum	⊠ Yes
COMPLET	ION		Flush M	ount	5	ft.		4.	4 in.	40 in	. 4					lastic	□ No
WEEP HOL	E?	VENTE	D CAP?	LENGT	H OF FLUS		METER OF		DIAMET	12 in. ER AND DEP	TH OF THE		T			lasuc	
		☑ Ye	s	MOUNT	Ī	MOI	UNT		HOLE FL	NUOM HSU.	T WAS PLAC	CED	SURFAC		⊠ Co	ncrete	
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	LEI	NGTH	DIAMET	ER V	VEIGHT	DIAME	TER OF	MATERI.	AI	in.		ft.		LENGT		MATERIAL	
				٥	R SDR#	DRILL				ermoplas	tic (PVC)		NTONITE	SEAL	II OF	Slurry	
RISER	28	fi fi	2 in.	4	Ю	0.69		Oth			(,	SEA	AL	3 ft.		_	lar □Chips
PIPE DETAIL		JED							TER PAC	<u></u>		L	DE	PTH	<u> </u>		
		Yes	l	⊠ co	turnted 7			_					FROM	TO	+	RMATION	DESCRIPTION
		No								/drated ⊠	ı Yes ∐	NO	0	7	Cla	y and Sil	+
	_				th Zones		_		☐ Yes				7	15		ry Fine S	
PRIMARY	'	LENGTH]	DEPTH	TO TOP OF	PRIMAR	Y FILTER F	PACK	SECONDAR	Y FILTER PA	ACK LENGTH	-1	15	30		e - Mediı	
FILTER PACK		13.0	_			21.0	e.						30	35	1	arse Sand	
·	+					21.8	ft.			LENGTH	.7 ft.		4				
	.		tonite SI	•			rent/Bent		-	LENGIII							
ANNULAR SEAL	١ ١	☐ Non	Slurry E	Bentonit	е Туре	☐ Bag	s of Cem	ent Use	ed								
						□ % of	f Bentoni	te Used									
						⊠ Wat	er Used/l	Bag 25	nai	17.1	ft.						÷
· · · · · · · · · · · · · · · · · · ·	L	NGTH	DIA	METER	DIAME	TER	DEPTH TO		941.	MATERIA		-	-				
WELL					OF DF HOLE		TOP OF SCREEN		Steel [Thermo	oplastic (P	VC)	1				
SCREEN	1	0 ft.	2"	ft.	8.25	in.	24.5 ft.		Other _		,	-,					
Multiple C	•	· · · · ·		s 🗆 N				alled fo	r Remedi	atlon 🔲	Yes	-	TD: 35ft				
Submit a	ıdd	tional	as built	diagra	ms show					including		d	7 ~~~		1		
size of a	ll ca	asing, I	hole dia	meter	s and gr	out use	ed.				, ,,,,	_	1 1		1		
STATIC WAT			/	[[//				L DRILLIN	G WAS CO	MPLETED]		1.		
NA FEET		// //					9-18		-				_				
SIGNATOR	Z		UNI KACIT	J. J. J. J. J. J. J. J. J. J. J. J. J. J			PERMIT NU 2876M	MBER									
			the ma	nitorin	g well he	erein de	scribed	was co	nstructe	d in acco	rdance u	vith	-				
the Depa	rtm	ent of f	Natural I	Resour	ces requ	iiremen	its for th	e cons	truction	of monito	ring well	s.]				
SIGNATURE	99	M BRILL	.ER)	1			NUMBER	DATE]				
SIGNATURE (APPRENTICE) PERMIT NU							NUMBER	10-12-09 MBER DATE					1		<u></u>		
SOMIUNE	(7 -1 2-		ブ			- FLWIII	HOMBER	DAIE					TOTA	L DEP	TH:	•	
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SITE NAME					-				CONTAC		ME					!		
Labadie SITE ADDR			lant						Paul P	ike				1 07	ATE	l was		
226 Lat	oadi	e Pov	ver Plan	t Rd.,	, MC LE	3D-64	45		Labad	lie				M		630	CODE 055	
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AREA 1	1 -	rankl			ELEVATION							ALLES"	Г		RGEST		-esucides/	neibiddes
LOCATION			Щ		@465'		\dashv					1/4		% N	1W	1/4		
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TYPE OF SURFACE	=	⋈	Above (Ground			E CASING	PROTEC	TIVE CASIN	IG	THE HOLE	PROTE	CTIVE	CASI	NG		Steel	LOCKING CAP?
COMPLET			Flush M	lount	5	4			4 !				CED	MATE	ERIAL		Aluminum	□ No
WEEP HOL	E?	VENTE	D CAP?		TH OF FLU	SH	DIAMETER (ER AI	ND DEPTH	2 ft. OF THE					Plastic	<u> </u>
Yes		⊠ Ye	es	MOUN	NT	Ì	MOUNT		HOLE F	LUSH	MOUNT W	AS PLAC	ED	SURFAC COMPLE		⊠ C	oncrete	
□ No			0			ft.	-	ft.	ŀ	in.			ft.	GROUT			ther	_
	LEI	NGTH	DIAMET	ER	WEIGHT OR SDR#		METER OF	MATER							LENGT SEAL	TH OF	MATERIAL	
RISER						1			eel 🖾 TI	herm	roplastic ((PVC)	SEA	ITONITE L			⊠Slurry	
PIPE		ft	2 in.		40	0.0	59 ft.		her						3 ft.		☐Granı	ular □Chips
DETAIL		UED							LTER PAC						PTH	F	ORMATION	DESCRIPTION
		Yes		⊠s	aturated	Zone	Uns:	aturated	Zone H	ydra	ted 🛛 Ye	es 🔲 I	No	FROM 0	1'5			
	\boxtimes	No		□в	oth Zone	S	If Yes, I	Hydrated	☐ Yes		10			15	25	1	ay and Si	
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SCREEN					HOLI		SCREEN			X T	hermopla	stic (P	VC)					
		0 ft.	2"		8.2	5 in.	24.5 f	ŧ. [Other_		_					}		•
Multiple C				es 🗌					or Remedi					TD:				
Submit a size of a	ll ca	asing,	as built hole dia	diagr mete	ams sho rs and g	wing rout	well cor used.	structio	n details	incl	luding ty	pe and	d	35ft				
STATIC WAT NA FEET			HOIME D	2/1				ELL DRILLI	NG WAS CO	MPLE	TED							
SIGNATURE							9-18 PERMIT	NUMBER						4				
	An	//c-	Juis				2876N									1		
I hereby o	ceri	ify tha	t the mo	nitori	ng well h	erein	describe	d was c	onstructe	ed in	accorda	ince w	ith] .]				
signature	OWE	ZZ DRIL	LER)	Nesyl	11 CAR LAC		MIT NUMBE			or m	ONITOFIN	g wells	S.					
	4	ur	un	ks		283			10- 13	2-	σ 9							
SIGNATURE	YAP	PRENTI	Æ)				MIT NUMBE	R DATE						TOTA	L DEF	TH:		
														' ' '	·	••		



OFFICE USE ONLY	DATE RECEIVED
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	REVENUE NO.
ENTERED BIA	APPROVED BY DATE ROUTE

						ECORE		ENTER Ph1	Ph2	Ph3			PROVED BY	1.5	DATE	ROUTE	
INFOR	MAT	ION S	SUPPL	IED B	Y PRIN	IARY C	ONTR/	ACTOR	OR DR	RILLING CO	ONTRA	CTO	OR	Partie States		A Secretary	
Ameren	NAME			-	_	_						. NUMB		<u>~~.</u>	VARI BY D		GRANTED
OWNER A	DDRES						CITY				STATE		ZIP CODE		$\neg \Box \lor$	Yes. Attac	ch a copy or
1901 C		eau A	.ve.				St.	. Louis	CONTAC	CT NAME	МО		63166		provi	de numo	ber of variance.
Labadie	e Pow	wer P	la <u>nt</u>		·				Paul P								
SITE ADDR	RESS			· D4	34011				CITY					ATE	ZIP CO		
PROPOSEI	ED USE	OF WE	ELL	<u>ıt Ka.,</u>	, MC LE	iD-045	TYPE	OF POTEN				.	MONITORIN		6305 (CHECK AL	55 ALL THAT AF	ODI VI
Gas N		_			onitoring		☐ Ha	lazardous	s Material	al 🛛 L	Landfill	J	☐ Radio	onuclide	es 🗌 Pe	etroleum l	Products Only
Extrac	ction ·	Well		⊠ Pie	ezometer	S			Assessm /el Drawdo	_	L.U.S.T.	J	☐ Explos		⊠ Me		□ VOC
AREA 1		OUNTY			ELEVATION		1	ater Lov.	31 Diaves		SMALLEST	,T	SVOC	CS ARGEST		esticiaes/	/Herbicides
1 LOCATION		ranklii ELL	<u>n</u>		<u>@</u> 465'		-				14		% N				
Lat. 38		_ 。	33 ° 49	', _50	i0	, -	Sr	ection 17	/	 Township _						2 ⊠ E <i>ε</i>	ast 🔲 West
Long. 90				' 19	LENG	" TH OF	<u> </u>	DIAMETER	R OF	DIAMETE	TER AND DE	ЕРТН (OF PROT	TECTIVE			LOCKING CAP?
TYPE OF SURFACE	E		Above G			TECTIVE CA	SING		TIVE CASING	NG THE HOI	DLE PROTEC 3 WAS PLAC	ECTIVE	E CASIN		⊠ 20	iteel Iuminum	M Voc
COMPLET			Flush M	_	5	ft.		47	x4_ in.	12 in.	2 ft.			,F10	☐ Pla		□ No
WEEP HOLI		VENTER Yes	D CAP?	LENGT MOUN	TH OF FLUS	JSH DIAN MOU	METER OF	F FLUSH	DIAMET	TER AND DEPTH	TH OF THE	∩ED	SURFACI		⊠ Con		
⊠ Yes □ No		□ No		1		ft.		ft.			/ W		COMPLE GROUT	TION	1	her	
	LENG		DIAMET		WEIGHT	DIAMET	TER OF	MATERIA	IAL	in.		ft.		LENGT	THOF	MATERIAL	
RISER	1	,			OR SDR#	DRILL H				hermoplastic	c (PVC)	BEN	NTONITE	SEAL		⊠Slurry	y
PIPE	28 f		2 in.	<u></u>	40	0.69 f		Oth						3 ft.			nular
DETAIL	GLUE		}	N S					LTER PAC	CK Iydrated ⊠ \			DEF FROM	PTH TO		RMATION	N DESCRIPTION
	⊠ N		1	· —	aturated a oth Zones				Zone Hy □ Yes [ſes ∟.	No	0	7.2	Clay	y and Sil	
PRIMARY	1 15	ENGTH		L		OF PRIMARY				RY FILTER PACI	K LENGT		$\begin{array}{c c} 7.2 \\ 22 \end{array}$	22 35	Very	ry Fine S	Sand
FILTER PACK		~ 4	ļ	1									22	33	Coa	arse Sand	đ
1 194.		13.1 f	<u>_</u>			21.8	ft.	- 4- 6		1.4	4 ft.		4 '	1			
ANNULAR	<u>.</u>		ntonite Slu n Slurry B	•	-14- Tune	☐ Ceme		ntonite Si	-	hints				1			
SEAL		j Non	Sluny	jeriu	ite i ype	_		ment Use nite Used		1)	1			
								nite Used d/Bag 25 ç		17.4	ft.			1			
	LEN	NGTH	DIA	AMETER		METER [DEPTH TO		jai.	MATERIAL			4 1	1			
WELL SCREEN					OF DI HOLE		TOP OF SCREEN			MATERIAL Thermopi		VC)	1 1	ł .			
	10		2"		8.25		24.6 ft.		Other _		-		1	1			
Multiple C				es 🗆 N					r Remedia			_	TD:	l			
Submit a size of all	il cas	sing, h	as bunt nole dia	diagra meter	ms sno rs and g	rout use	ed.			including t	ype and	t	35ft	I			
NA FEET F	FROM	MEASU					DATE WEL 9-18	A. DRILLIN	NG WAS COM	MPLETED].	i .			
SIGNATURE						P	PERMIT NO						1	i			
I hereby c	<u>4</u> certif	y that	the mo	 nitorir	ng well h	nerein des	scribed	d was co	nstructe	ed in accord	dance w	-ith	4	ı			
the Depar	rtmen	nt of N	Natural F	Resour	rces reg	juirement	nts for th	the const	truction c	of monitorin	ng wells	5.		i			
12		4 []	The Su	m	1/2	2836				12-19		_		ı			
SIGNATURE	(APPR	ENTICE	.j~	0		PERMIT	NUMBER	DATE					TOTAL	L DEF	TH:		



OFFICE USE ONLY	DATE RECEIVED
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INFOR	MATI	ON S	SUPPL	IED E	Y PRIN	ARY (ONTRA	Ph1 CTOR	OR DR	Ph3 ILLING CO	NTDA	CTO	ND.	24.660		1 2. 175	
OWNER N	AME	TO SE . T R					(1.44.44.4	<u> </u>	OKON	ILLING CO	WELL					RIANCE G	English Committee of the Committee of th
Amerer											49					DNR	RANTED
OWNER A							CITY				STATE		ZIP CODE	·		Yes. Attack	h a copy or
1901 C		au A	ve.				St. I	ouis	т		MO		63166		pro	ovide numbe	er of variance.
Labadie	-	er Pi	lant						Paul P								
SITE ADDR								·····	CITY				STA	ATE	ZIP	CODE	
226 Lat	adie	Pow	er Plan	t Rd.,	, MC LE	BD-645			Labad	<u>ie</u>			M			055	
Gas N					onitoring		1		TIAL SITE	. 57					•	ALL THAT AP	•
☐ Extrac		-			ezometer	c			s Materiai Assessm		andfili						Products Only
				E-21 · 14	OLOI II COI		l		el Drawd		U.S.T.		Explos			Metals	□ VOC
AREA		INTY			ELEVATION		1 410	ICI LOV	ei Diawa		ALLES		SVOC	RGEST		Pesticides/l	Herdicides
1 LOCATION		ınkli	n		@465'		_										
Lat. 38_			22	, ,	:o ;		500	otion 17	,				% N		-		
Long. 90		`	33 49	_', _5 			Sec	ction 17		Township	44 No	orth		١	Range	_2 ⊠ Eas	st 🔲 West
TYPE OF		Ø.	Above C	3round		TH OF ECTIVE (DIAMETE PROTECT	R OF IVE CASIN	DIAMETEI G THE HOLE				TECTIVE	⊠:	Steel	LOCKING CAP?
SURFACE		_	Flush M		-					CASING V			MATE			Aluminum	⊠ Yes
					5				4 in.		2 ft.					Plastic	□ No
WEEP HOLI		ENTEL ☑ Ye	CAP?	MOUN	TH OF FLU NT		AMETER OF DUNT	FLUSH	HOLE FL	ER AND DEPTH LUSH MOUNT W	OF THE AS PLAC	ED	SURFAC	E	⊠ c	oncrete	
□ No] No											GROUT	TION			
	LENG'		DIAMET	E0	WEIGHT	ft.	TED OF T	ft.		in.		ft.				ther	
ľ	LLING	''' ļ	DIVINE		OR SDR#		TER OF HOLE	MATERIA	-	nemoplastic	,,,,,,,	BEN	TONITE	LENGT SEAL	TH OF	MATERIAL	
RISER	28 ft.		2 in.		40	0.60	_	Oth		iennopiastic	(PVC)	SEA		2 44		Slurry	
PIPE DETAIL	GLUE		2 111.			0.69			TER PAC	K			T DE	3 ft.			lar Chips
	□ Ye	es		⊠ s	aturated	Zone				vdrated ⊠ Y			FROM	ТО	 	ORMATION	DESCRIPTION
	⊠ N	D	i		oth Zone		lf Yes, Hy				#S ∐ 1	VO	0	15	Int	terbedded	Clay, Silt, VF
		IGTH								Y FILTER PACK			┧ .			nd	, ~, ·
PRIMARY FILTER				DL: 11			VI I ILILIV F	70K 8	BECONDAR	T FILTER PACK	LENGIH		15	27	Fin	ne Sand	
PACK	13	3.7 f	t.			21.3	ft.			1.8	ft.		27	35	Co	oarse Sand	
-	×	Bent	onite SI	urry			nent/Bent	onite Si	urv	LENGTH			1				
ANNULAR				•	ite Type		s of Cem		-								
SEAL	-			0111011	ко туро												
	1						f Bentonit			16.5	ft.		j [İ		
	LENG	TN	DIA	WETER	DIAM	⊠ Wa	ter Used/E	ag 25	gal.	10,5			1		ŀ		
WELL	LLING		DIA	METER	OF D	RILL	DEPTH TO TOP OF	-	Ctool 5	MATERIAL	-41 - (51)	/ 0\	1				
SCREEN	10.	_		_	HOLE	ľ	SCREEN			Thermopla	SUC (P	/C)	1 1				
	10 f		2"		8.25		24.7 ft.		Other _								
Multiple C			☐ Ye							ation 🗌 Ye			1				
Submit a	dditio casiı	nal a ng, h	s built (ole dia	diagra meter	ams sho rs and g	wing w out us	ell const ed.	ruction	details	including ty	pe and	1	TD: 35ft				
STATIC WAT	ER LEV	EL	00				DATE WELL	DRILLIN	G WAS CO	MPLETED			3311				
NA FEET P							10-19										-
SIGNATURE		ryco L	NTRACTO	PR)			PERMIT NU 2876M	MBER]				
<i></i>		that 4	the ma	nitori	ng wall h			1100	nn4	d in accorda							
the Depart	tmenţ	.ef Na	atural R	lesou	rces req	uireme	nts for the	ras co const	ruction o	d in accorda of monitoring	nce Wi wells	(N					
SIGNATURE	WELL I	RILLE	R) > /			PERMIT	NUMBER	DATE									
SIGNATURE (APPER	M	L	<u> </u>		2836	An 14 255		0-5P.	07							
SIGNATURE (arrke C	WHICE)	,			PERMIT	NUMBER	DATE	•				TOTAL	DEF	TH:		
MO 780-1415	/00 00\	PE	TUDN C	OHDI I	ETED FOR	14 70. 1	A(E)		========	ECTION DO		ليب	<u> </u>				



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INFOR	24 6								Pn1	Ph2		Ph3							- 155 - 157
OWNER N	MA	IION	OURFL	JED B	PRIN	IAK	T CON	IKA	CIOR	OR DR		ing co	NTRA WELL		R				
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OWNER A		ESS						CITY					51 STATE		ZIP CODE				h a copy or
1901 C	hou	teau A	Ave.					St. L	ouis				МО		63166				er of variance.
SITE NAMI	E									CONTAC					05100		1		· · · · · · · · · · · · · · · · · · ·
Labadio			lant							Paul P	ike	;							
SITE ADDI						_				CITY					ST	ATE	ZIP	CODE	
226 Lal				it Rd., I	MC LE	3D-0		ADE O	FDOTEL	Labad	ie				M		630		
☐ Gas I				☐ Mon	itorina		i	_		ITIAL SITE s Materia		Κ 21	ndfill					ALL THAT AP	•
☐ Extra		•		☑ Piez	_	'S		_		Assessm			u.S.T.	- 1				'etroieum i Netals	Products Only
						•	_ _	_		el Drawd			0.3.1.		☐ Explo				□ VOC
AREA		OUNTY			VATION			, ,,,,	101 201	CIDIANG	OW		ALLES	т :		RGEST		esucides/i	-terbicides
1		rankl	in	<u> </u>	465'														
LOCATION	OF							_		_					¼ Ì				
Lat. 38_ Long. 90).	— Ĭ,	33 <u> </u>	′, _51.				Sec	ction 17	/	Tov	vnship^	44 No	orth		i	Range	_2 🛭 Eas	st 🔲 West
					LENG				DIAMETE			DIAMETER	R AND D	EPTH	OF PRO	TECTIVE			LOCKING CAP?
TYPE OF SURFACE			Above (Ground	PROT	ECTI	VE CASING	3 F	PROTEC	TIVE CASIN	IG	THE HOLE	PROTE	CTIVE	CASI	NG	XI S	Steel	⊠ Yes
COMPLET	TION		Flush M	fount	_									OLU	MAIL	RIAL		Numinum	□ No
WEEP HOL	.E?	VENTE	D CAP?	LENGTH	OF FLU		t. DIAMETE	R OF	FLUSH	K4 in.	ER A	12 IN. ND DEPTH			, 		<u> </u>	Plastic	
⊠ Yes		⊠ Ye	98	MOUNT		-	MOUNT		LOON	HOLE F	LUSH	HOUNT W	AS PLAC	ED	SURFAC		⊠ Co	oncrete	
□ No			5	·		_			. es						GROUT	HON	Пон	her	
	LEI	NGTH	DIAMET	FR W	EIGHT	ft.	AMETER (SE T	ft. MATERI	<u> </u>	in) .	-	ft.		C. ~			
			1		R SDR#		RILL HOLE				hem	noplastic ((DVC)	BE	NTONITE	LENG' SEAL	TH OF	MATERIAL	
RISER	28	f t	2 in.	4	0	1,	.69 ft.			ner		nopiastic (,FVC)	SEA	AL	3 ft.		Slurry	□Pellets dar □Chips
PIPE DETAIL		JED	2			<u> </u>		OND		TER PAC					T 55	PTH			
		Yes		⊠ Sat	urated '	70ns						ited 🛛 Ye			FROM	TO		JRMATION	DESCRIPTION
		No	-	☐ Bot									es 📙	No	0	10	Int	erhedded	Clay, Silt, VF
								-		☐ Yes	_				J		Sar		Ciay, Sin, Vi
PRIMARY FILTER	' '	LENGTH		DEPIHI	O TOP C)F PK	IMARY FIL	TER P	ACK :	SECONDAR	RY FII	LTER PACK	LENGTH		10	35	Fin	e Sand	
PACK		14.3	4			20	.7 ft					•			ļ				
	+							_			LIE	2.0	ft.		4				
ANNULAR	.		tonite Si	-			Cement/			•					1		ŀ		
SEAL	, [Non	Slurry E	Bentonite	Туре		Bags of	Ceme	ent Use	ed									
	-						% of Ber	ntonit	e Used						1				
						Ø۱	Nater Us	sed/E	ag 25	gal.	1:	5.7	ft.]				
	LE	NGTH	DIA	METER		ETER	DEP1	н то	Ť		A4/	ATERIAL			1				
WELL SCREEN	İ				OF D		SCRE			Steel		hermopla	stic (P	VC)	1				
JUNE	10) ft.	2"	fi	8.25	ī in	24.7	7 ft		Other _		-	•	•					
Multiple C	_			s 🗆 No		, 1111				r Remedi		n ☐ Yes	<u> </u>		{			-	1
Submit a						win									4				
size of al	l ca	sina. I	nole dia	meters	and a	rout	used.	UHSU	ruction	i details	Inc	luaing ty	pe and	3	TD.				
STATIC WAT	ER L	EVEL			<u></u> 3.			WELL	DRILLIN	IG WAS CO	MPLI	ETED			TD: 35ft				
NA FEET	FRO	MEASI	BUG FO	9 1			10-1								3311				•
SIGNATURE	PRI	,,-,		OR)				IT NUI	MBER						1				
			W/				2870]				
I hereby of the Depar	erti	fy that	the mo	nitoring	well h	ereir	n descri	bed v	was co	nstructe	d ir	accorda	nce w	ith					
SIGNATURE	095	1 DRILL	ER)	Veacuic	es (ad		RMIT NUM		DATE	ruction	OT IT	onitoring	g wells	.			1		
0/0	//	m,		>		28				10-26	· 04	8							
SIGNATURE							MIT NUME	BER .	DATE		3			-	TOTA	DE	TH.		
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FILLEON	ALA:							Phi	Ph2	Ph3							
OWNER N	MA IAME	HON:	SUPPL	IED B	YPRIM	ARY C	ONTR	ACTOR	COR DR	RILLING CO		CTO NUMBE			1 1/45	PIANCE G	CANTED
Amerer					<u></u> -						53				BY	RIANCE GI DNR	
OWNER A							CITY				STATE		ZIP CODE				n a copy or er of variance.
1901 C		teau A	ive.				St.	. Louis	CONTAC	CT NAME	MO		63166		prov	/IGE HUITIDE	er or variance.
Labadie	e Po		lant						Paul P								
SITE ADDR	RESS					-1.5			CITY					ATE	ZIP C		·
226 Lat	DUS	e Pow	er Plan	t Ra.,	, MC LB	D-645		OF POTE	Labad				MONITORIN		630	55 ALL THAT AP	-110
☐ Gas i				☐ Mc	onitoring		1 —		us Material		andfill						PLY) Products Only
☐ Extra	ctior	ı Well		⊠ Pi∉	ezometers	s	1		e Assessm	nent 🔲 L.	.U.S.T.		☐ Explos	sives	⊠ N	/letals	□ voc
AREA	Тс	OUNTY			ELEVATION		<u> </u>	Vater Lev	vel Drawd				SVOC			esticides/h	lerbicides
1	F	rankli		,	@465'						WALLES'			RGEST			
LOCATION							1	1	_				% N				-
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TYPE OF			Above C	Ground		TH OF ECTIVE CA	ASING	DIAMETE PROTEC	ER OF CTIVE CASIN		E PROTE	CTIVE	CASI		□s		LOCKING CAP?
SURFACE COMPLET		-	Flush M		-	_	}			CASING W		CED	MATE		_	Numinum	│ ⊠ Yes │ □ No
WEEP HOL	E?	VENTE	D CAP?	LENG	TH OF FLUS		METER C	OF FLUSH		12 in. TER AND DEPTH	OF THE					Plastic	
⊠ Yes	_	⊠ Ye	· .	MOUN			UNT	Art Sec.		LUSH MOUNT W	/AS PLAC)ED	SURFAC	ETION	⊠ Co	oncrete	
□ No		□ No	د	Í _		ft.		ft.		in.		ft.	GROUT		☐ Ot	her	_
	LEN	NGTH	DIAMET		WEIGHT OR SDR#	DIAMET DRILL I	TER OF HOLE	MATER			7			LENGT	'H OF	MATERIAL	
RISER	20	-	 		40			i i		hermoplastic ((PVC)	BEN SEA	NTONITE NL			Slurry	
PIPE DETAIL	28 GLU		4 in.		+0	0.85		Ot DARY FI	ther			<u> </u>	T DEI	3 ft.		<u> </u>	llar Chips
DE 171-		Yes	ļ	⊠s	of irated					tydrated ⊠ Ye	/ [] ·		FROM	PTH TO)RMATION	DESCRIPTION
	⊠				oth Zones				Zone Hy I∐Yes		es 👝 .	No	0	6	Cla	ay & Silt	
PRIMARY	—	LENGTH						-		RY FILTER PACK	LENGTH	1	6	32			
FILTER		_		i								•	0	32	Fin	e Sand	
PACK		13.8			<u></u>	21.2	ft.			1.2	ft.]				
			tonite SI					entonite S	-	LENGTH			32	35	Coa	arse Sand	w/ Gravel
ANNULAR SEAL	. L	☐ Non	Slurry B	Jentoni	ite Type												
								nite Used		170	æ		1				
	<u> </u>	**************************************	1 714	·				d/Bag 25	gal.	17.0	ft.		<u> </u>				
WELL	h-E	NGTH	ייוט	METER	OF DE	RILL :	DEPTH TOP OF SCREEN	<u> </u>	☐ Steel [MATERIAL Thermopla	40 /D	1/01]				
SCREEN	10	١	1,,,	54				1 _	_iSteei ₪ ☐ Other _	A Hiemopia	isuc (i-	VC)					
Multiple C	_) ft. d Wells	<u> 4"</u> s □ Ye	ft. es ⊠ N	10.3 No		24.7 ft.	<u>. </u>		liation	-		4				
										including ty		۸	_{m.}				
size of all	II cas	sing, h	nole dia	meter	rs and gr	rout use	зп ос ∍d <u>.</u>	5u uo	// Ubtano	Including cy	pe and	a _	TD: 35ft				
STATIC WAT NA FEET F			കെ	·MT			DATE WE 10-16		ING WAS CO	MPLETED							
SICHERA						F	PERMIT N	NUMBER									
Mel		1m	<u>t-</u>	-		2	2876M	1									
I hereby c	ertif	y that	the mor	nitorin	ig well h	erein de	scriber	d was co	onstructe	ed in accorda of monitoring	ance w	ith	l				
SIGNATURE	MF.	L DRILL	ER)	Marie Land	(CBS 104-	PERMIT	NUMBER	R DATE		or monitoring	g weirs	3.					
1/7/	L	M	eki	<u>~</u>		2836			10-26	-09							
SIĞNATURE	AFF;	REPORT ICE	-)			PERMIT	NUMBER	R DATE	•				TOTAL	L DEP	TH:		



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STATE WELL N	JMBER :	REVENL	ENO.		
ENTERED -		APPROV	ED BY. DA	TE ROUTE	2.93.25

				CATIO				Ph1	Ph2	Ph3			ROVED BY	1			
INFOR	MATI	ON S	SUPPL	IED BY	PRIM	ARY C	ONTRA	CTOR	OR DRI	LLING CO	NTRA	CTO)R				
OWNER N											WELL	NUMB	BER			RIANCE GI	RANTED
OWNER A		s			-		CITY				55 STATE		ZIP CODE			ONR Yes. Attach	a copy or
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SITE NAME		er D	lant						Paul Pi								
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TYPE OF SURFACE	•	×.	Above (Ground		ECTIVE C			TIVE CASING	THE HOLE	PROTE	CTIVE	CASI		⊠s		☑ Yes
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size of al	l casi	ng, h	ole dia	meters	and gr	out use	d.		details ii	ncluding ty	pe and	1	TD:				
STATIC WAT NA FEET F) NT			DATE WELL 10-16	. DRILLIN	G WAS COM	PLETED			35ft				,
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NA FEET F							10-16	luoso.					!				
		In	1				PERMIT NO 2876M	NREK							ļ		
I hereby c	ertify th	nat th	e moi	nitoring	well he	rein de	scribed	was co	nstructe	d in accord	ance wi	th					İ
SIGNATURE	MELL DR	ILLER	urai K	resource	s requ	PERMIT	ts for th	DATE	truction o	of monitorin	g wells	•					
1/2	tus	12	Ù	ر د		2836		١.	D> 26.1	7					1		
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SITE NAME		eau A	.VC.				J St. 1	Louis	CONTAC	T NAME	MO	Щ.	63166							
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Submit a	addi	tional	as built	diagra	ms sho	wing w	ell cons	tructio	n details	including	type an	d	TD:							
size of a	II ca	sing, I									71		35ft							
STATIC WAT NA FEET			22	"A				L DRILLII	NG WAS CO	MPLETED										
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the Depa	rtme	en#of h	Vatural	Resour	ces req	uiremer	its for th	ne cons	truction	of monitor	ing well	s.	_							
SIGNATURE	12		. 7	,		2836	11 NUMBER DATE 10 - 12 - 19													
SIGNATURE	(APF	<i>V V </i> Preny ic	ME)	<u>«</u>			NUMBER	DATE		- v.J			TOTA	חבי	JTU.					
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St. Louis MO S3166 provide number of variance. MO S4160 provide number of variance. MO S4160																		
Section 17 Township _44 Nor Range 2 East West Labratic Prover Plant Single Prover Plant Rd., MC LBD-645 Labradic Monitoring Gallow Material Labradic Monitoring Gallow Ga											- ;							
Labadic Power Plant Rd., MC LBD-645 Paul Pike STATE 2# CODE MO 63055			uteau A	ve.			 -	St.	Louis	CONTAC	TNAME	MO		63166				
Supplement Sup	Labadi	e P	ower P	lant														
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Extraction Well	1				□ Mon	itorina		I			. 57.	İ				•		
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RISER PIPE DETAIL GLUED SECONDARY FILTER PACK DEPTH FORMATION DESCRIPTION Yes Saturated Zone Unsaturated Zone Hydrated Yes No Both Zones If Yes, Hydrated Yes No DEPTH FORMATION DESCRIPTION TO O 21 Clay, Silt, Fine & Very Fine Sand Very Fine Sand Very Fine, Fine & Medius Sand Yery Fine, Fine & Medius Sand Yery Fine, Fine & Medius Sand Yery Fine, Fine & Medius Sand Yery Fine, Fine, Medium & Coarse Sand; Fine & Coarse Gravel Yes Water Used Screen Steel Thermoplastic (PVC) To O O O O O O O O O		-	-NOIII	DIMINE						-	nermonlastic	(BVC)	BEN	TONITE		TH OF	1	_
Secondary Filter Pack		2	7 ft.	4 in	4	0 ,	0.85	#			ioiniopiasao	(, , ,	SEA	L	3 ft			
Yes		-					0.03				<u>–</u> К	i		I DE		F	<u> </u>	
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ANNULAR SEAL Non Slurry Bentonite Type Bags of Cement Used	PACK		14.7 f	t.			21.2	ft.			1.2	ft.		30	35			Zina Madium
ANNULAR SEAL Non Slurry Bentonite Type Bags of Cement Used			☑ Bent	onite S	lurry		☐ Cen	nent/Ber	ntonite SI	lurry	LENGTH] "				
Water Used 17 ft. Water Used/Bag 25 gal. Water Used/Bag 25 g		R	☐ Non	Slurry E	Bentonite	Type [☐ Bag	s of Cen	nent Use	ed				l	İ			
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WELL SCREEN DIAMETER DIAMETER DIAMETER DEPTH TO TOP OF SCREEN Steel Thermoplastic (PVC)											17	ft.		1				
WELL SCREEN HoLE SCREEN Steel Thermoplastic (PVC)		Τt	.ENGTH	DIA	METER	DIAME	TER T	DEPTH TO		94	MATERIAL	•		i				
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		1.				HOLE	ш			Steel 2		astic (P\	/C)	i		ļ		
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	OUNLEN	1	0 ft.	4"	ft.	10.3	in.	24.3 ft.		Other			·					
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 ME ALURING POINT DATE WELL DRILLING WAS COMPLETED 10/26 SIGNATURE (FRIMARY 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	Multiple (_							talled for	Remedia	ation	es .		TD.				
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MO780-1415 (06-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250, ROLLA, MO 65402 573-368-2165	SIGNATURE	(AP	PRENTICE		<u> </u>			NUMBER		10070	<u> </u>			TOTA	DE) TH:	· · · · · · · · · · · · · · · · · · ·	



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Labadie		ower P)1 _{ant}						- 1	Paul											
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SIGNATURE	the Department of Natural Resources requirements for the SIGNATURE (VIEW DRILLER)													š							
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OOMII EE		_	Flush M	iount	5	ft.		42	4 in.	12 in.	2 ft.					Plastic	□ No		
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RISER PIPE	28		2 in.	4	0	0.69	ft.	☐ Oth	er				-	3 ft.		☐Granu	lar Chips		
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	1.5	NOTIL	1 514	A APPERO	1 2	_	ter Used/		gal.	17.5]		.				
WELL	LE	NGTH	DIA	METER	OF D		DEPTH TO TOP OF			MATERIAL									
SCREEN					HOLE	•	SCREEN			Thermopla	stic (P	VC)	ŀ				•		
	10) ft.	2"	ft.	8.25	in.	24.7 ft.	_ □	Other _										
Multiple C	ase	d Wells	☐ Ye	s 🗌 No	<u> </u>	J	Pump Inst	alled for	Remedia	ation 🗌 Yes	;		1						
Submit a	ional a	ıs built	diagrar	ns sho	wing w	veli cons	truction	details	including typ	oe and	i								
size of all	l ca	sing, h	ole dia	meters	and g	rout us	ed.						TD:						
NA FEET F				/				DATE WELL DRILLING WAS COMPLETED							ŀ				
SICHE								10-16											
11/1/2		1/1/2	7				2876M	RMIT NUMBER											
l hereby c	erti	y that	the mo	nitorina	well h	erein d	escribed	was constructed in accordance with											
tne vepar	τmg	nt of N	aturai i	Resourc	es requ	uireme	nts for th	e const	ruction o	u in accorda of monitoring	. I			1					
SIGNATURE		DRILLE	R) 1			PERMIT	NUMBER	DATE		4		\neg							
			1	بر		2836		1	10-26-09										
NX	ZZ.	MU,	120										1	TOTAL DEPTH:					
SIGNATURE	(APP	RENTICE	120					DATE			•	\neg	TOTAL	. DEP	TH:		· · · · · · · · · · · · · · · · · · ·		



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

		CEF	RTIFIC	CATIC)N RI	COR	D	ENTER Ph1	(2) 特别的意思		1 13		APPI	ROVED BY	ם	ATE	ROUTE			
INFOR	MATI	ON S	SUPPL	JED BY	PRIM	IARY C	ONTRA	CTOR	OR DR	ILLING	G COI									
OWNER N	-											WELL	NUMBI	ER			RIANCE GE	RANTED		
OWNER A		s					CITY		-			71 STATE	1:	ZIP CODE		l	DNR Yes. Attach	a copy or		
1901 C		au A	ve.				St.	Louis				МО		63166				er of variance.		
SITE NAM							•		CONTAC											
Labadio		er P	lant			 -			Paul P	1Ke						T === 0				
226 La		Pow	er Plar	nt Rd I	3D-645			l .	ie					ATE O	ZIP C					
PROPOSE	D USE (OF WE	LL	11 1101, 1		013	Labadie TYPE OF POTENTIAL SITE							,			63055 CHECK ALL THAT APPLY)			
Gas I		_	/Veli	☐ Mor	_		1 —		s Material		🛛 La			☐ Radio	onuclide	s 🗌 P	etroleum F	Products Only		
│ □ Extra	ction \	/Vell		⊠ Plez	comete	S	1		Assessm			J.S.T.		Explo		_	fetals	□ voc		
AREA	COL	UNTY		EL	EVATION]	1 LJ W	ater Lev	el Drawd	own	SM	ALLEST		SVOC	CS ARGEST	□Р	esticides/F	lerbicides .		
1		ankli	n		465'															
LOCATION									-					¼ l						
Lat. 38_ Long. 90		- ໍີ	33 <u> </u>	' _48 ' 43		, ,,	Se	ction 1	7	Towns	hip4	l4 No	rth		I	Range ₋	2 🛭 Eas	t 🔲 West		
TYPE OF					LENG	TH OF		DIAMETE			AMETER				TECTIVE	⊠s	tool	LOCKING CAP?		
SURFACE		-	Above (PRO	ECTIVE C	ASING	PROTEC	TIVE CASIN		IE HOLE ASING W				ING ERIAL		Juminum	⊠ Yes		
COMPLE	TION	U	Flush M	lount	5	ft.		4:	x4 in.	12	in. ;	o fi		}			lastic	□ No		
WEEP HOL			CAP?	LENGTH	OF FLU	SH DIA	METER OF	FLUSH	DIAMETI HOLE FL	ER AND	DEPTH ()F THE		SURFAC	E	M C0	ncrete	<u> </u>		
⊠ Yes	1 -	⊠ Ye							HOLE FI	LUSH MC	JUNI WA	45 PLAC	בט	COMPLE						
□ No		☐ No				ft.		ft.		in.			ft.	GROUT		∐ Otł	her			
	LENG	TH	DIAMET		/EIGHT R SDR#		TER OF HOLE	MATER					RFN	ITONITE	LENG1 SEAL	'H OF	MATERIAL			
RISER	28 ft		2 :	4	0	1000			eel ⊠ Th	remop	lastic (PVC)	SEA				Slurry	-		
PIPE DETAIL	GLUE		2 in.			0.69		Oth	TER PAC	<u></u>				55	3 ft.			lar Chips		
J2// 112	□ Y			⊠ Sat	urated	Zone			Zone Hy		. KZ V-		1-	FROM	PTH TO	FO	RMATION	DESCRIPTION		
	⊠ N				h Zone				_One ⊓		I KA YE	s 📙 r	40	0	17	Inte	erbedded	Clay, Silt, VF		
	1 15	NGTH							SECONDAR		DACK I	ENCTU		.		San				
PRIMARY FILTER							** / 12 (2**)		OLOGINDAIN		V FACINE	LING I II		17	35	Fin	e Sand			
PACK	13	3.2 f	t.			21.7	ft.				1.6	ft.								
	×	Bent	onite SI	urry		☐ Cer	nent/Ben	tonite S	lurry	LENG	тн			1						
ANNULAR SEAL		Non	Slurry E	Bentonite	е Туре	☐ Bag	s of Cen	ent Use	ed					1						
JEAL							f Bentoni							ļ	ı					
							er Used/			17.1		ft.		ļ						
	LENG	TH	DIA	METER		ETER	DEPTH TO		gai.	MATE	DIAL			1						
WELL SCREEN	}				HOL		TOP OF SCREEN	[Steel [stic (P\	/C)	i						
00112211	10 f	t.	2"	ft.	8.2	5 in.	24.6 ft.		Other _			-	·	l						
Multiple C								talled fo	r Remedi	ation	□ Yes			1		1				
Submit additional as built diagrams showing well of													1	1						
size of al	size of all casing, hole diameters and grout used.													TD:						
NA FEET I		_		NT			DATE WEL 10-22	L DRILLIN	IG WAS CO	MPLETE	D			35ft						
SIGNOSTORIE		,,,	, ,,,				PERMIT NU	JMBER						i i						
	1		1~				2876M													
I hereby o	ertify	that	the mo	nitoring	well h	erein de	scribed	was constructed in accordance with							·					
signatures	yment WELL I	Of N	atural F	Kesour	es req		nts for th	the construction of monitoring wells.												
Y/G/)	un	ne	h			2836	LI\	10-21-09												
SIGNATURE	APPRE	NTICE		• • • • • • • • • • • • • • • • • • • •			NUMBER						TOTAL DEPTH:							
MO 780-1415	(06-00)	DE	TUDNO	ONDIE	ED EO	PM TO: 1	NELL INC.	D DDG	ECTION S	FOTIO										



OFFICE USE (REF NO:	ONLY . P	ATE RECEIVED		
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STATE WELL NUMBER	R	EVENUE NO.		
ENTERED Day	A A	PPROVED BY	DATE ROUTE	

			RTIFIC	CATIC		_	RD	ENTER	ED:			APP	ROVED BY	D	ATE .	ROUTE		
INFOR	MA	TION	SUPPL	(FD B)	/ PRIN	IARY	CONTR	Phi	Ph2	Ph3 ILLING CO	MTDA	CTO	.			10,741	1.00	
OWNER N	AME			الح (حداد	1 . 711.	IV-U X I		<u> </u>	ONDN	ILLING CO	WELL			<u> </u>		RIANCE GI	PANTED	
Amere	n						,				73					DNR	MILED	
OWNER A							CIT	Υ			STATE		ZIP CODE				n a copy or	
1901 C		teau A	lve.				St.	Louis	Ţ		MO		63166		prov	/ide numbe	er of variance.	
SITE NAMI		wer P	lant						Paul P					· -				
SITE ADDR	RESS							CITY						ATE	ZIP CODE			
226 Lat	bad:	e Pov	er Plan	t Rd., 1	MC LI	3D-6		OF POTEN	Labad	ie		 r	MONITORII	-	630)55 ALL THAT AP	DIV	
☐ Gas I	Mon	itoring	Well	☐ Mor	itoring		l		Materia	ı ⊠ı	andfill						Products Only	
☐ Extra	ctio	n Weil		Piez	-	s	1 —		Assessm		U.S.T.		☐ Explo			/letals	□ voc	
							v	/ater Lev	el Drawd				SVOC			esticides/F	-	
AREA		rankl			EVATION 465'	1				SI	ALLES'	Γ	ĹĀ	RGEST				
LOCATION					705						¼ _		% N	w	_ 1⁄4			
Lat. 38		° ,	33	'43		<u>"</u>	s	ection 17		Township	44 No	orth			– Range	_2 🛭 Eas	st 🗌 West	
Long. 90			49	35		TH OF		DIAMETE	R OF	DIAMETE	R AND D	EDTH :	OF PRO	TECTIVE			LOCKING CAP?	
TYPE OF SURFACE			Above (Ground	PROT	ECTIVI	E CASING		IVE CASIN	G THE HOL	E PROTE	CTIVE	CASI	NG		Steel	✓ Yes	
COMPLET		🗆	Flush M	lount	_ ا			_			_	UEU	MATE	ERIAL		Numinum	□ No	
WEEP HOL	E?	VENTE	D CAP?	LENGT	5 FOF FLU		DIAMETER C		in.	14 ÎN. ER AND DEPTH	2 ft. OF THE			 1	<u> </u>	Plastic		
Yes		⊠ Y€	s	MOUNT			MOUNT		HOLE FI	LUSH MOUNT W	AS PLAC	ED	SURFAC		⊠ Co	oncrete	·	
□ No)			ft.		ft.	Ĭ	in.		ft.	GROUT		☐ Ot	her	_	
-	LEI	NGTH	DIAMET		EIGHT	DIA	METER OF	MATERI	AL			11.		LENGT	TH OF	MATERIAL		
			•	ľ°	R SDR#	DRI	ILL HOLE	☐ Ste	ei 🖾 Th	nermoplastic	(PVC)	BEN SEA	NTONITE	SEAL		⊠Slurry	□Pellets	
RISER PIPE	28	ft.	4 in.	4	0	0.8	35 ft.	Oth	er			36	\L	3 ft.		Granu	ılar	
DETAIL	GLI	JED						SECONDARY FILTER PACK							FC	RMATION	DESCRIPTION	
		Yes		⊠ Sat	urated.	Zone	Unsa	es 🔲	FROM	ТО	4							
	\boxtimes	No			h Zone				☐ Yes i				0 6.5	6.5	1	y/Silt/VF	F Sand	
PRIMARY	П	ENGTH		DEPTH	O TOP C	FPRIN	ARY FILTER	PACK S	ECONDAR	Y FILTER PACK	LENGTH		31	35		-F Sand	•	
FILTER													"		Co	arse Sand	l .	
PACK	_	13.0	ft.		_	21.0	0 ft.			1.7	ft.		J					
	1	🛭 Ben	tonite SI	urry			ement/Be	ntonite Si	urry	LENGTH			1					
ANNULAR	1	☐ Non	Slurry E	3entonite	Туре	□в	ags of Cer	nent Use	d						1			
OLAL						□ %	of Bentor	nite Used					1					
							/ater Used			16.3	ft.				-		i	
	LE	NGTH	DIA	METER		ETER	DEPTH T		94	MATERIAL			1					
WELL SCREEN					OF D HOLE		TOP OF SCREEN		Steel 2	Thermopia	astic (P	VC)	1		1			
JONELIN	10) ft.	4"	ft.	10.3	in.	23.7 ft.		Other_	<u> </u>								
Multiple C				s 🛭 No						ation ☐ Ye	s		TD:				٠.	
Submit additional as built diagrams showing we												1	35ft		1			
size of al	l ca	sing, h	ole dia	melers	and g	rout u	ised.		GOGGIO		po and	•						
STATIC WAT NI FEET FE			מל	///			1	LL DRILLIN	G WAS CO	MPLETED					1			
SIGNATURE							11/13	/13 RMIT NUMBER										
	, ,,	1.71	كالمتع	2"			2876M						i i					
l hereby 6	erti	fy that	the mo	nitoring	well h	erein	described	was co	nstructe	d in accorda	ance w	ith	1					
the Depar	tme	nt of N	iatural F	Resourc	es req	uirem	ents for t	d was constructed in accordance with he construction of monitoring wells.					Į ł					
SIGNATURE		K UKILLI	=r() =				MIT NUMBER	" " -						1				
SIGNATURE	APP	RENTICE	12/	200		283 PERA	6 AIT NUMBER	UMBER DATE TOTAL DEPTH:										
		V											IUIA	LUEF	'IH:			



OFFICE USE ONLY REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED Db2 Db2	APPROVED BY DATE ROUTE

					ON RE			ENTER Ph1	Ph2	Pl	h3			ROVED BY	C 100 C 100	DATE	ROUTE			
INFORI OWNER N	MAT	ION S	SUPPL	IED B'	Y PRIM/	ARY C	ONTR/	ACTOP	OR DRI	ILLING	COI	NTRAC	CTO)R	A STATE OF THE STA	Control of the Contro	26 1	1		
Ameren	_									_		WELL N	IUMB	ER			RIANCE G	RANTED		
OWNER AL		ss					CITY	<u>r</u>				75 STATE	$\overline{}$	ZIP CODE			' DNR Yes. Attacl	h a copy or		
1901 C		eau A	ve.				St.	Louis			- 1	МО		63166				er of variance.		
SITE NAME	-		4 ,						CONTACT					-						
Labadie	POY	ver Pi	ant						Paul P	ıke				1 67		1 715				
226 Lat	oadi	e Pow	er Plar	at Rd.,	MC LBI	D-645	,		Labadi	lie				- 1	TATE IO	- 1	CODE 055			
PROPOSE	D USE	OF WEL	LL			7 3 . 5	TYPE OF POTENTIAL SITE					\neg				63055 (CHECK ALL THAT APPLY)				
Gas N		_			onitoring				ıs Material	•	Lar			☐ Radio	onuclide		s Petroleum Products Only			
☐ Extrac	ction	Weii		⊠ Plez	ezometers				Assessm	_	L.U	J.S.T.		☐ Explo			Metals	□ voc		
AREA	1	OUNTY		E'	LEVATION			ater Lev	vel Drawdo	<u>own</u>	SM	ALLEST		SVOC	CS ARGEST		Pesticides/h	<u>lerbicides</u>		
1		ranklii	<u>n</u>		@465'								-							
LOCATION						-		1	_					¼ N						
Lat. 38_ Long. 90		_ `.`	33 <u> </u>	', _44 '26	0.0	<u>,</u>	Se	action 17	7	Townshi	ip4	4 Nor	rth		ŀ	Range	_2 🛭 Eas	st 🔲 West		
TYPE OF		N	Above C	Ground	LENGTH PROTEC	TH OF ECTIVE CA	ASING	DIAMETE	ER OF CTIVE CASING			R AND DE			TECTIVE		Steel	LOCKING CAP?		
SURFACE COMPLET		-	Flush M					1				AS PLAC			ERIAL		Aluminum	⊠ Yes		
					5				x4 in.		in. 2			1			Plastic	□No		
WEEP HOLE Yes		VENTER Yes	D CAP?	LENGTI MOUNT	TH OF FLUSH IT		METER OF	F FLUSH		ER AND DE LUSH MOU	EPTH O	F THE	ED	SURFAC		⊠ c	oncrete			
□ No		□ No	ı	1	-	_			1					GROUT	ETION	Other				
		IGTH	DIAMET	TER 1	ft WEIGHT	ft. DIAMET	TER OF	ft.		in.			ft,		1 : 51:0	L				
1		··· /	1		OR SDR#	DRILL F	HOLE		aa∟ eel ⊠Th	hermop	astic ('			NTONITE	LENG1 SEAL	ΓH OF	MATERIAL Slurry			
RISER	281	ft.	2 in.	4	40	0.69 f	A .		her	•	1000 (.		SEA		3 ft.			⊔Pellets llar □Chips		
PIPE DETAIL	GLU								LTER PAC					T DE	PTH			DESCRIPTION		
	□,	Yes	1	⊠ Sa	aturated Z				Zone Hy		— Ye	1 2	 Vo	FROM	ТО		Olam I	DEGOTAL INC.		
	× 1	No]		oth Zones				Yes [4	, _	10	0	9			nd, Clay and		
PRIMARY	, T	.ENGTH	\longrightarrow	DEPTH	TO TOP OF		-	-	SECONDARY		PACKI	ENGTH		9	30	Sil				
FILTER				1										25	35		ne Sand ar	•		
PACK	\neg	13.3 f				21.5	ft.				1.3	ft.			"	Sai		m and Coarse		
		Bent	tonite SI	urry	ŗ	☐ Cem	ent/Ber	ntonite SI	lurry	LENGTH	4		_]			110			
ANNULAR SEAL	[] Non	Slurry F	3entonit	ite Type [☐ Bag	s of Cer	nent Usr	ad											
*			•		r	☐ % of	/ Bentor	nite Used	ı '	1				! '						
					,	Wat ^r	er Used	/Bag 25	gal.	17.2		ft.		1			•			
***************************************	LE	NGTH	DIA	AMETER	DIAME: OF DRI	TER I	DEPTH TO			MATER	RIAL			1 '						
WELL SCREEN					HOLE		SCREEN			☑ Them		itic (PV	/C)	1 '						
	10	ft.	2"		8.25 i	in.	24.5 ft.	. [[Other					'						
Multiple C				es 🗵 N					r Remedia		Yes									
Submit a size of all	dditi II ca	onal a sing, l	ıs built ıole dia	diagra	ms shov	ving we	all cons	struction	ı details '	includir	ng typ	e and	1	m.	1					
STATIC WAT	STATIC WATER LEVEL NA FEET FROM MEASURING POINT							LL DRILLIF	NG WAS CO	MPLETED	,			TD: 35ft	1					
		////	,,,	//			DATE WELL DRILLING WAS COMPLETED 9-28					/] 3311	l						
SIGNATURE	PRIN		ATRACIC) (R)			PERMIT NO 2876M							ļ ,	i					
I hereby c	ertii	vthat	the mc	nitorin	ig well he	erein de:	escribed was constructed in accordance with							1						
the Depar	rtmei	ng of N	latural F	Resour	rces requi	ilrement	nts for the construction of monitoring wells.						i	1 1		,				
SIGNATURE	ME	DRILLE	:R)				NUMBER							1 1	ľ					
SIGNATURE	(APPI	AENTIQE	<u> </u>	<u>v</u>		2836 PERMIT N	NUMBER	DATE		12-0	9_									
	•	1/	•					DATE					1	TOTAL DEPTH:						



OFFICE USE ONLY REF,NO.	DATE RECEIVED
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		CER	RTIFIC		ION		ORE)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(Alah)	Duo.		APP	ROVED BY	D	ATE	ROUTE			
INFORI	VA.	TION S	UPPL	IED	BY P	RIMA	RY CO	ONTRA	CTOR	OR DR	JLL	ING COI	NTRA	CTC)R						
OWNERN	AME												WELL			*****			RANTED		
Ameren OWNER AL	_	SS						CITY					77 STATE		ZIP CODE			DNR Vas Attac	h a convor		
1901 C			ve.					1	Louis			ĺ	MO	- 1	63166		prov	ide numb	h a copy or er of variance.		
SITE NAME								1 50.1	20413	CONTAC	T NA	ME	IVIO		03100						
Labadie			ant							Paul P	ike										
	SITE ADDRESS 226 Labadie Power Plant Rd., MC LBD-645									CITY					ST	ATE	ZIP C	ODE			
PROPOSED				it Rd	<u>., MC</u>	LBD	-645	Labadie TYPE OF POTENTIAL SITE							M	_		63055 CHECK ALL THAT APPLY)			
☐ Gas N				Пм	/lonito	rina		1		Material	1	⊠ La	ndfill				•		PLY) Products Only		
Extra		-			ezom	-		1		Assessm		_		İ	☐ Explo			letals	□ VOC		
		_						1 —		el Drawd			•		SVOC				Herbicides		
AREA 1		ounty ranklii	<u> </u>		ELEVA							SM	ALLES'	Т		RGEST					
LOCATION			<u> </u>		@46	13.							1/4	•	% N	JW	1/4				
Lat. 38		۰	33	,	44.6	n		Sec	ction 17	,	Tow	 nship4			<u> </u>		_	2 ⊠ Ea	st 🔲 West		
Long. 90			33 <u> </u>		20.6			<u></u>								··	tange .	.2 M.La	ar 🗀 west		
TYPE OF		ISI	Above (Grour		LENGTH PROTEC		SING	DIAMETE PROTEC	R OF TIVE CASIN	G	DIAMETER THE HOLE				ECTIVE	⊠s	teel	LOCKING CAP?		
SURFACE COMPLET			Flush M		- 1							CASING W	AS PLA	CED		RIAL		luminum	⊠ Yes		
						5	ft.			4 in.		12 in.	2 ft.				□P	lastic	□ No		
WEEP HOL	E?	VENTER YE		MOU		FLUSH	DIAM	JETER OF	FLUSH	DIAMET HOLE FI	ER A	ND DEPTH O	OF THE	ED.	SURFAC		⊠ Co	ncrete			
□ No	ĺ	□ No								İ					COMPLE GROUT	TION					
	1 5	NGTH	DIAME	CED.	WEIG	ft.	DIAMET	ED OF T	ft.	1	in.	<u> </u>		ft.			Dother				
	LEI	NOIN	DIANE	LK	OR S		DRILL				herm	noplastic (D/C/	BEI	NTONITE	LENG1 SEAL	TH OF	MATERIAL			
RISER	28	ff	2 in.		40		0.69 f	.		er		iopiastic (FVC)	SEA	AL	3 ft.		⊠Slurry □Gran	[/] □Pellets µlar □Chips		
PIPE DETAIL		JED	2		L					TER PAC					l DE	PTH			DESCRIPTION		
İ		Yes		N :	Satura	ated Zo						ted 🕅 Ve	e [7]	No.	FROM	то		MATION	DESCRIPTION		
1	\boxtimes	No		ı		ones		☐ Unsaturated Zone Hydrated ☑ Yes ☐ No If Yes, Hydrated ☐ Yes ☐ No						NO	0	20	Vei	ry fine sa	nd, Clay and		
	_	LENGTH		L —								TER PACK I	ENGT	1	١.,		Silt	;			
PRIMARY FILTER															20	35		•	m, Coarse		
PACK	L.	13.4 f	t.			2	21.6	ft.				1.7	ft.		1		San	d and gr	avel		
	1	⊠ Bent	tonite S	lurry] Cem	ent/Bent	tonite S	lurry	LE	NGTH	·		1						
ANNULAR	:	☐ Non	Slurry I	Bento	nite T	уре [Bags	of Cem	ent Use	ed					1						
SEAL			-			 	7 % of	Bentoni	te I leed						1						
	1							er Used/l			16	5.9	ft.								
	LE	NGTH	DIA	METE	R	DIAMET		DEPTH TO		yaı.					4						
WELL	ľ					OF DRIL HOLE		TOP OF SCREEN		Steel [M/	ATERIAL hermopla:	stic (P	VC)	1						
SCREEN	10	0 ft.	2"	ft		8.25 ir	, /	24.7 ft.		Other			(.	,							
Multiple C	_					0.20 11				r Remedi	atio	n ☐ Yes									
Submit additional as built diagrams showing w											_				1						
size of all casing, hole diameters and grout use								d.						-	TD:						
NA FEET								DATE WELL DRILLING WAS COMPLETED							35ft						
SIGNATIVE					· · · - · · · ·			9-28 PERMIT NUMBER													
Mili		1/1						2876M	, woer												
I hereby/c	ert	ify that	the mo	nitor	ring w	ell her	ein de	scribed	was co	nstructe	d in	accorda	nce w	ith	1 /						
the Depai	rtmy	ent∕of N	latural	Reso	urces	requi	remen	ts for th	ribed was constructed in accordance with for the construction of monitoring wells.					ş.	1						
SIGNATURE WELL DRILLER) PERMIT NUM 2836								HJONUFK	IBER DATE 10-12-09												
SIGNATURE	(API	PREMITICE	FIRM	<u>ی</u>				NUMBER	UMBER DATE					TOTAL DEPTH:							
MO 780-1415		<i>V</i>							ILLUSAD PROTECTION SECTION DO DOY OF D						TOTAL BEPTH:						



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INFOR	MAT	ION S	SUPPL	IED B	Y PRIN	ARY (ONTRA	CTOF	OR DR	RILL	ING CO	NTRA						A THE PARTY OF THE		
OWNER N												WELL	NUME	BER				RANTED		
OWNER A		s					CITY					79 STATE		ZIP CODE				a conv or		
1901 C	houte	eau A	ve.				- 1	Louis				MO	- 1	63166			VARIANCE GRANTED BY DNR Yes. Attach a copy or provide number of variance ZIP CODE 63055 ECK ALL THAT APPLY) Petroleum Products On Metals VOC Pesticides/Herbicides Age _2 East West Steel No Plastic No Concrete Other MATERIAL			
SITE NAME								20413	CONTAC	CT NA	ME	MO		03100		ш	·			
Labadie		ver P	ant						Paul P	Pike										
SITE ADDR		_					_		CITY					Si	ATE					
226 Lat	DUSE	POW	er Plan	t Rd.,	MC LE	3D-645	TYPE	E POTE	Labad	lie					IO		63055			
☐ Gas I			_	ПМо	nitoring		1		s Materia	ı	⊠ La	ndfill								
☐ Extra		_			zometer	s			Assessm			U.S.T.		☐ Explo				•		
				_					el Drawd			J.J.,.		SVO		_				
AREA		UNTY	_		LEVATION							ALLES"	Γ		ARGEST			101010100		
1 LOCATION	_L	anklii	<u> </u>		@465'		4	•				1/		· ·	NTW7	1/				
Lat. 38_			33	, _A .	3/1	p	90	ction 1	7	Tou				%			2 12			
Long. 90		`	33 <u> </u>	_', -4: ' -1:	2W		56	Cuon	′	IUV	wiship	+++ INC	rui		l	rkange .	_2 Ky Eas	t 🗀 vvest		
TYPE OF			Above (TH OF ECTIVE (DIAMETE	R OF TIVE CASIN		DIAMETER THE HOLE	R AND DI	EPTH	OF PRO	TECTIVE	XI S	iteel	LOCKING CAP?		
SURFACE		I			1 /	LOTIVE	Ading	·	TIVE CASIN		CASING W	AS PLA	CED		ING ERIAL			⊠ Yes		
COMPLE	ION	ישן	Flush M	lount	5	ft.		4	x4 in.	-	12 in .	2 ft.						□ No		
WEEP HOL	- 1		CAP?	LENG	TH OF FLU	SH DI	AMETER OF	FLUSH	DIAMET	ER A	ND DEPTH	OF THE		SURFAC	:F	Ø Ca	nerete	·		
⊠ Yes	- 1	⊠ Ye		10.001		1	2011		HOLE FI	LUSH	MOUNT WA	45 PLAC	ΕU	COMPLI	ETION					
□ No		□ No			•	ft.		ft.		in			ft.	GROUT		☐ Ot	her	-		
	LENG	TH	DIAMET		WEIGHT OR SDR#	DIAM	ETER OF HOLE	MATER					200	UTOWITE	LENG SEAL	TH OF	MATERIAL			
RISER		1									noplastic (PVC)	SE	NTONITE : Al			-			
PIPE	28 f		2 in.		40	0.69			her						3 ft.		☐Granu	lar Chips		
DETAIL	GLUE								LTER PAC		·				PTH	FC	PRMATION	DESCRIPTION		
İ	_							☐ Unsaturated Zone Hydrated ☐ Yes ☐ No						FROM 0	30	┥,,	T: 0	1 021 0		
	N	lo			oth Zone		-		☐ Yes					1	30	Cla	•	and, Silt &		
PRIMARY	LE	NGTH		DEPTH	TO TOP C	F PRIMA	RY FILTER I	PACK	SECONDAR	RY FIL	TER PACK I	LENGTH		30	35		•	ledium Sand,		
FILTER PACK	1.	•												1				& Fine Grav		
		3.4 f				21.6	_			1 1 5	1.35	ft.		_						
		Bent	onite SI	urry		☐ Cei	ment/Ben	tonite S	lurry	"	NGTH			1						
ANNULAR SEAL		Non	Slurry E	Bentoni	te Type	☐ Bag	s of Cem	ent Us	ed	}				İ		İ				
						□ % c	f Bentoni	te Used	1					1		ł				
	}				-	⊠ Wa	ter Used/l	Bag 25	gal.	17	7.25	ft.		1 .			*			
	LEN	STH	DIA	METER		ETER	DEPTH TO			MA	TERIAL			1						
WELL SCREEN					OF D		TOP OF SCREEN] Steel [X T	hermoplas	stic (P\	/C)	1		1				
	10	ft.	2"	ft.	8.25	in.	24.7 ft.	_	Other _		_				ł	1.				
Multiple C				s 🔯 N				alled fo	r Remedi	atio	n ☐ Yes			1						
Submit a										_			_	1		1				
size of all	casi	ng, h	ole dia	<i>m</i> eter	s and g	rout us	ed.	u aouoi	i dotalis	11101	ading typ	o and		TD:		1				
STATIC WAT			1/1			Ī		L DRILLIN	IG WAS COI	MPLE	TED			35ft						
			UTING P				10/28													
SIGNIFICATION			NTRACTA	OR)		1	PERMIT NU 2876M	JMBER						1 1						
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the Depar	tmen	t of Na	atural F	Resour	ces require	uireme:	nts for th	e cons	instructe truction (ia in of m	accorda Ionitoring	nce Wi I wells	เท]				1		
SIGNATURE	YEY	DRILLE	R) *			PERMIT	NUMBER	DATE					-	1						
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INFOR	MATIO	N SU	PPL	IED BY	PRIM	ARY (ONTRA	CTOR	OR DR	ILLING	ONTRA	CTC)R	4	100				
OWNER N											WELL	NUME	BER			RIANCE G	RANTED		
Amerei OWNER A							CITY				81 STATE	- г	ZIP CODE			DNR Yes Attacl	h a copy or		
l .	houteau	ı Ave	ð.				i	Louis			MO	- 1	63166		prov	vide numb	er of variance.		
SITE NAMI			<u></u>	•			, 50.	Louis	CONTAC		IVIO		03100						
Labadie		Plar	ıt			_			Paul P	Pike									
SITE ADDR			ъ.		.a		_		CITY				l l	ATE	1	CODE			
226 Lat	DUSE OF	WELL	Plan	t Kd., N	1C LH	D-64:		Labadie YPE OF POTENTIAL SITE						O		63055 CHECK ALL THAT APPLY)			
☐ Gas I			ell	☐ Moni	torina				s Materia	ı İX	Landfill						PLY) Products Only		
☐ Extra	ction We	ell .		☑ Pieze	-	;	. —		Assessm		L.U.S.T.		☐ Explo			/etals	□ VOC		
									el Drawd	-			□ svoc			Pesticides/			
AREA	Fran				VATION 465'						SMALLES	Т	LA	RGEST					
LOCATION				1 60.	103		-				1/4		¼ l	w	1/4				
Lat. 38_		° 33		_' _43N		n	Se	ction 1	7	Township						2 ⊠ Eas	st 🔲 West		
Long. 90		<u>° 4</u>	9	, 8M	LENG	"													
TYPE OF	. 1	⊠ Ab	ove G	3round		CTIVE (ASING	DIAMETE PROTEC	ER OF TIVE CASIN	IG ∣THEH	TER AND D	CTIVE		TECTIVE NG			LOCKING CAP?		
SURFACE		☐ Flu	ısh M	ount						CASIN	G WAS PLA	CED	PV	ERIAL		Muminum	⊠ Yes □ No		
WEEP HOL	F2 VEN	TED C	AP2	LENGTH	0E ELUS	ft.	AMETER OF		in.	14 in. ER AND DEP	2 ft.		1 1 4		<u>⊠</u> P	Plastic			
⊠ Yes		Yes		MOUNT	0. 1.00		UNT	reagn		LUSH MOUN		ED	SURFAC		⊠ Co	oncrete			
□ No		No				ft.		ft.		in.		ft.	GROUT		☐ Ot	her	_		
	LENGTH	D	IAMETI		IGHT	DIAM	TER OF	MATER		111.		16.		LENG		MATERIAL			
				- 1	SDR#	DRILL	HOLE	☐ Ste	el 🗵 TI	hermoplas	tic (PVC)	BE!	NTONITE	SEAL		⊠Slurry	□Pellets		
RISER PIPE	27 ft.	4	in.	40) _.	0.85	ft.	☐ Ott	ner	_		367	7.L	3 ft.		☐Granu	lar □Chips		
DETAIL	GLUED SECONDARY F							DARY FI	LTER PAC	K				РТН	FC	RMATION	DESCRIPTION		
	☐ Yes ☐ Saturated Zone ☐ Unsaturated Z							Zone H	ydrated 🛛	FROM 0	14	┥							
	⊠ No			☐ Both					☐ Yes				ľ	17	Cla		Very Fine		
PRIMARY	LENG	ГН		DEPTH TO	O TOP O	PRIMA	RY FILTER I	PACK	SECONDAR	Y FILTER PA	CK LENGTH		14	35	- 1		ine, Medium		
FILTER PACK	12.	55 ft.				01.06										Coarse Sa			
	 					21.25				LENGTH	.25 ft.		4						
ANNULAR	1		ite Siu	•			nent/Ben		•	LENGIII									
SEAL	LIN	on Siu	ırry B	entonite			s of Cem						1		1				
						□ % c	f Bentoni	te Used		1.7	-				İ				
						_	er Used/		gal.	17	ft.				ľ				
WELL	LENGTH		DIAN	METER	DIAME OF DE	TER ILL	DEPTH TO			MATERIA]						
SCREEN			ĺ		HOLE		SCREEN			★ Thermo	plastic (P	VC)]						
	10 ft.		4" 1		10.3	in.	24.4 ft.		Other _										
Multiple C				s 🛭 No						ation 🔲 '			1						
Submit a size of al	dditiona Leasing	l as l	built d	diagram meters :	is show	ving w	ell consi	tructior	details	including	type and	t		-					
STATIC WAT		, 11010	, didi		and gr	Jul us		L DRILLIN	IG WAS CO	MPLETED			TD: 35ft		ļ				
	T FROM M	· // //		A)T			10/28						3311			•			
SIGNATURE	THE MARKY	CONTI	RACYO	HŘ)			PERMIT NU 2876M	MBER					1			•			
I hereby c	arlift w	at the		itorine	wall ha	roin d		W05 5 5				14 L							
the Depar	tment of	i Natu	ıral R	esource	s requ	ireme:	nts for th	e consi	nistructe truction (e in accoi of monitor	dance wi	itn i.							
SIGNATURE	ELL DRI	LLER	1		Ť	PERMIT	NUMBER	DATE		,									
SIGNATURE (APPRENT		en	-		2836	NUMBER	DATE	11/20/11	"					<u> </u>				
		·/		·		· =: (19)	. TOMOER	DAIE					TOTAL	L DEP	TH:				



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				CATIO				Ph1	RED Ph?		DH2		API	ROVED B	Y .	DATE	ROUTE				
INFOR OWNER N	MA.	TION :	SUPPL	IED BY	PRIM/	ARY C	ONTR	ACTOR	OR DF	RILL	ING CO	NTRA	CTC	OR 🐘			1				
Amere												WELL	NUM	BER				RANTED			
OWNER A		SS		·			CITY	,				83 STATE	ĒŢ	ZIP CODE	<u> </u>	ا ر	Yes. Attach	a copy or			
1901 C		teau A	ve.				St.	Louis				МО	- 1	63166		p	VARIANCE GRANTED BY DNR Yes. Attach a copy or provide number of variance ZIP CODE 63055 ECK ALL THAT APPLY) Petroleum Products Onl Metals VOC Pesticides/Herbicides ange 2 East West Steel Aluminum Plastic Concrete Other Other				
Labadie	e Po	wer P	lant						Paul I												
		e Pow	er Plar	nt Rd., N	AC I BI	7-645	CITY Labadie						- 1	STATE	_ _		-				
PROPOSE	D USE	OF WE	LL	11 114., 11	IC LD	J-0 4 J	TYPE	OF POTEN	TIAL SITE			_			MO RING FOR	CHE	63055 CHECK ALL THAT APPLY)				
Gas I		_	/Vell	☐ Moni	-				s Materia		🛛 La										
☐ Extra	Ction	well		⊠ Piez	ometers				Assessn			U.S.T.		_ *	losives	_	_				
AREA		OUNTY			VATION	<u> </u>		ater Lev	el Drawo	iown		ALLES		SV	OCS LARGES		J Pesticides/h	lerbicides			
1 LOCATION		rankli Fu	n		465'		-														
Lat. 38			33	', _43N	,	į	Se	ction 17	7	Tou	nship4			¼	NW_	_	no ? ⊠ =oo	t 🗆 Wood			
Long. 90			33 <u> </u>	, 4W		·								_			ye_z 🔼 Eas				
TYPE OF SURFACE		Ø.	Above (Ground	PROTE	TOF CTIVE CA	SING	PROTEC	R OF TIVE CASIN	1G	DIAMETER THE HOLE	PROTE	CTIVE		OTECTIVE	E E	Steel	LOCKING CAP?			
COMPLET			Flush M	lount	_						CASING W		CED	M/	TERIAL		-				
WEEP HOL	E?	VENTE	CAP?		OF FLUSH	ft.	METER OF	4z	K4 in.	TER A	12 in. ND DEPTH (] Plastic				
☑ Yes		☑ Ye	S	MOUNT		MOL	INT				MOUNT W			SURF	ACE LETION	×	Concrete				
□ No		□ No			ft	.		ft.		in.	•		ft.	GROU	T		Other	_			
	LEN	GTH	DIAMET		IGHT SDR#	DIAMET DRILL H		MATERI						NTOWE		TH OF	MATERIAL				
RISER	28		2 :-	40						herm	oplastic (PVC)	SE	NTONITE AL	`		⊠Slurry	Pellets			
PIPE DETAIL	GLU		2 in.		<u>-</u> <u>-</u> <u>-</u> -	0.69 f			TER DAC					.	3 ft.			ar Chips			
		res -		SECONDARY FILTER PACK DEPTH Saturated Zone Unsaturated Zone Hydrated Yes No FROM TO									FORMATION I	DESCRIPTION							
ĺ	Ø I	No		☐ Both					☐ Yes			љ <u>"</u>	INU	0	10		Clay, Silt, Fi	ne & Very			
PRIMARY	L	NGTH		DEPTH TO	TOP OF						TER PACK I	ENGTH		10	21	- 1	Fine Sand				
FILTER PACK	Ι.							}						21	35		Fine & Very	Fine Sand ine, Medium			
FAOR		3.3 f		 		21.5	ft.			1	1.5	ft.		_			& Coarse Sa				
ANNULAR	1		onite Si	-				tonite S	-	LE	NGIH										
SEAL] Non	Slurry B	Bentonite										ļ		İ					
								te Used		17	,	£		1							
	LEA	GTH	DIA	METER	DIAMET			Bag 25	gal.	17		ft.		1							
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SCREEN	10	A	2"	4	8.25 ii		24.5 ft.	- 1 -	Other_	<u> </u>	Termopias	ים) טונ	vC)	I .							
Multiple Ca	_			s ⊠ No	0.231					otion	 ı ☐ Yes			-							
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size of all	cas	ing, h	ole dia	meters a	and gro	ut used	d.				ading typ	o and	4	35ft							
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SIGNATURE		'/ N	A 1	,			ERMIT NU	MBER		_				1							
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hereby &	mer	t of Na	aturai R	nitoring v Resource	s requi	<u>ement</u>	s for the	e const	nstructe ruction (d in of m	accorda: onitoring	nce wi	ith								
SIGNATURE	7.			/	í	ERMIT N	UMBER	DATE	120%												
SIGNATURE (APPR	ENPROE)	SA	<u></u>		836 ERMIT N	UMBER	DATE	م اس	<u> </u>				TOT	N DE	DTU:					
AO 780-1415 (00.00	V	THE PART AT	OMP: ===	'D F03	T A		<u></u>			ION, PO. B				AL DEI	•		·			
m. / / mu-1415 (UD-U9	. KE	IUKN C	UMPLEIE	U FURM	IO: W	ELLHEA	D PROT	ECTION 9	FOT	ION DO D	AY 25	0 PA	ILLA BAC	CE402 E	70 00					



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INFOR	MAT	ION S	SUPPL	IED B	Y PRIM	ARY C	ONTR/	ACTOR	OR DRI	LLING CO	NTRAC				****					
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Amerer OWNER A		SS					CITY	,			85 STATE		ZIP CODE				a copy or			
1901 C	hout	eau A	ve.				St.	Louis			МО		63166				r of variance.			
SITE NAME	_								CONTACT							☐ Petroleum Products On☑ Metals☐ VOC☐ Pesticides/Herbicides				
Labadie		ver P	lant						Paul P	1ke										
		Pow	er Dlan	+ Dd	MC LB	Ď₋645			Labadi	io			STA MO		- 1					
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AREA	CC	UNTY			LEVATION		<u> </u>	☐ Water Level Drawdown ☐ SVOCS SMALLEST LARGE								esticides/l-	lerbicides			
1		rankli			@465'					SN	MALLESI		LAI	KGES I						
LOCATION													% N	w	_14					
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TYPE OF					LENG	TH OF		DIAMETE	R OF	DIAMETE	R AND DE	PTH (ECTIVE	□s	teel	LOCKING CAP?			
SURFACE			Above (PROI	ECTIVE CA	ASING	PROTEC	TIVE CASING		E PROTEC VAS PLAC		CASIN MATE			luminum	Yes			
COMPLET	TION		Flush M	lount	5	ft.		6	in.	14 in.	2 ft.		PVC			lastic	□ No			
WEEP HOL	E?		D CAP?	LENG*	TH OF FLUS	H DIA	METER O	F FLUSH	DIAMETE	ER AND DEPTH USH MOUNT W	OF THE		SURFAC	E	M Co	ncrete				
⊠ Yes	•	⊠ Ye		WOON			OIVI		HOLEFL	W TRIUDINI HEU.	AS PLACE	ים	COMPLE							
☐ No		□ No				ft.		ft.		in.	•	ft.	GROUT		☐ Otl	her	-			
	LEN	STH	DIAMET		WEIGHT OR SDR#	DIAME DRILL	TER OF HOLE	MATERI				REA	NTONITE	LENG SEAL	TH OF	MATERIAL				
RISER	07		۱		40					nemoplastic	(PVC)	SEA				Slurry	· —			
PIPE	27 ft. 4 ff. 0.85 ft.							Oth					1	3 ft.			lar Chips			
DETAIL	~ <u> </u>								LTER PAC				FROM	TO TO	FC	RMATION	DESCRIPTION			
ĺ	⊠ ı		,						=	ydrated 🛛 Y	es ∐ N	Ю	0	26	Cla	v. Silt. F	ine & Very			
					oth Zones				☐ Yes [_			e Sand				
PRIMARY FILTER	"	ENGTH		DEPTE	1101000	F PRIMAR	YFILTER	PACK	SECONDAR	Y FILTER PACK	LENGTH		26	35			ine, Very Fin			
PACK		13.5	ft.			20.5	ft.			1.8	ft.						Coarse Sand;			
			tonite Si	-				ntonite S	lumv	LENGTH			┪ !		Fin	e & Coar	se Gravel			
ANNULAR	. 🗆			•	ite Type															
SEAL	-	J / 10.,	C.G., 2		ito Typo															
								nite Used		15.7	ft.									
	LEN	IGTH	DIA	METER	DIAM		DEPTH T	/Bag 25	gal.				4							
WELL					OF DI	₹ばし.	TOP OF SCREEN	· L	Steel D	MATERIAL ☑ Thermopla	stic (PV	(C)	1 1		İ					
SCREEN	10	£	4"			ł		ے ا	Other _		.545 (. 1	Ο,								
Multiple C				и. s ⊠ 1	10.3		23.6 ft.	<u>' </u>		ation ☐ Ye	•		4		ļ					
							_			including ty			-							
size of al	l cas	sing, t	nole dia	meter	and gi	out use	ed.	38 UC(101	i detalis i	including ty	pe anu		TD:							
STATIC WAT			n/V					LL DRILLIN	IG WAS COM	MPLETED			35ft							
SIGNATURE		,,,,	SURING F	,,,			11/10	UNADED					<u> </u>							
SIGNA 1014			10	7/~			PERMIT N 28 76M]							
I hereby o	ertif	y that	the mo	nitorin	g well h	erein de	scribed	d was co	nstructe	d in accorda	ance wil	th	1				,			
the Department of Natural Resources requirements for the						he cons							1							
SIGNATURE			ER)	,		2836	NUMBER	DATE	11/20/09				1							
SIGNATURE	(APPF	12/1 REPUTICE))				NUMBER	DATE	1.12	107			TOTAL	DE	_ DTH:					
	-												IJIA							



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INFOR	MA]	ION:	SUPPL	IED BY	PRIM	ARY C	ONTR	ACTO	R OR DR	RILL	ING CO	NTRA	CTC)R			7 (0)			
OWNER N										-		WELL	NUME	SER				RANTED		
Amere:		SS					CIT	·				87 STATE		ZIP CODE				h a conv or		
1901 C			ve					Louis				MO	- 1	63166		brov	VARIANCE GRANTED BY DNR Yes. Attach a copy or provide number of variance ZIP CODE 63055 ECK ALL THAT APPLY) Petroleum Products Or Metals VOC Pesticides/Herbicides Ige _2 East			
SITE NAMI		1					<u> </u>	Louis	CONTAC	T NÃ	J	MO		03100		 _				
Labadie		wer P	lant						Paul P	Pike										
SITE ADDF									CITY		·			S	ATE	ZIPC	CODE			
PROPOSE	badi	e Pow	er Plan	nt Rd., N	IC LE	D-645	5 Labadie TYPE OF POTENTIAL SITE								10		63055			
Gas I				☐ Moni	torina		☐ Hazardous Material ☐ Landfill									•	CHECK ALL THAT APPLY)			
☐ Extra		_	77011	□ Piezo		s	1 —		Assessm			J.S.T.		☐ Explo				_		
						-	1		vel Drawd			J.J.1.		SVO						
AREA		OUNTY			VATION							ALLES			ARGEST		COUCIGO	TODIGGES		
1 LOCATION		rankli	n		165'		4					.,			N7337					
Lat. 38_	OF 11		32	' _43N				aatian 1	7	Tan				¼			0.57-			
Long. 90		。	33 48	, _ 1 31\ , 56V		_,	3	ecuon 1	′——	IOW	msnip <u> </u>	14 NO	rtn			Range .	_2 🔀 Eas	st ∐ West		
TYPE OF						TH OF ECTIVE C	ASING	DIAMET	ER OF CTIVE CASIN]	DIAMETER				TECTIVE		Steel	LOCKING CAP?		
SURFACE			Above (FROI	ECTIVE	HOING	PROTE	JIVE CASIN	ا	THE HOLE				ING ERIAL	_		⊠ Yes		
COMPLET	TION	┧┖	Flush M	lount	5	ft.		4	x4 in.	ļ	12 in.	o ft						□ No		
WEEP HOL	E?		D CAP?	LENGTH MOUNT		SH DIA	METER C	F FLUSH	DIAMET	ER A	ND DEPTH (OF THE		SURFAC	,E	r		L		
⊠ Yes		⊠ Ye		MOON		MO	UNI		HOLE FI	LUSH	I MOUNT WA	AS PLAC	ED	COMPL		M CO	ncrete			
□ No		□ No				ft.		ft		in			ft.	GROUT		Ot	her	_		
	LEN	GTH	DIAMET		IGHT SDR#	DIAME	TER OF	MATER							LENG	TH OF	MATERIAL			
DICER							IOLL	□ St	eel 🔯 Th	hem	noplastic (PVC)	BEI SE/	NTONITE AL	SEAL		⊠Slurry	□Pellets		
RISER PIPE	28		2 in.	40	· 	0.69				_					3 ft.		☐Granu	ılar □Chips		
DETAIL	GLU								LTER PAC						PTH	FC	DRMATION	DESCRIPTION		
				⊠ Satu	rated 2	Zone (☐ Unsa	aturated	Zone H	ydra	ted 🔲 Ye	1 🔲 a	No	FROM 0	12					
ĺ	X)	No		☐ Both	Zones	5 I	f Yes, H	lydrated	☐ Yes		ło			ľ	12			Very Fine		
PRIMARY	1	ENGTH		DEPTH TO	TOPO	F PRIMAR	Y FILTER	PACK	SECONDAR	Y FIL	TER PACK I	ENGTH		12	21	1		Fine Sand		
FILTER PACK														ŀ			•	. I me band,		
- TAUK	_	13.6 1				21.4	ft.			T : =	1.8	ft.		21	35			ine. Medium		
	- 1	Bent	onite SI	urry		☐ Cen	rent/Be	ntonite S	Slurry	[[NGTH			i						
ANNULAR SEAL	ַ כ] Non	Slurry E	Bentonite	Туре	□ Bag	s of Ce	ment Us	ed					ľ		Gra	ivel			
						□ % o	Bentor	nite Use	d					1		1				
						⊠ Wat	er Used	I/Bag 25	gal	16	5.6	ft.				1				
	LEN	IGTH	DIA	METER	DIAM	TER	DEPTH T		3	NAA	TERIAL			1						
WELL SCREEN					OF DE		TOP OF SCREEN		Steel 2		hermoplas	stic (P\	/C)	1						
CONLEN	10	ft.	2"	ft	8.25	in	24.7 ft		Other			į				1				
Multiple C				s 🛭 No	0.20				r Remedi	ation	_ □ Vec			1						
Submit a	_				e sho									1		1				
size of all	l cas	sing, h	ole dia	meters a	and gr	out use	ed.	ou acuo	ii uctalis	IIICI	uding typ	e and		TD:						
STATIC WAT		_	N	//				LL DRILLI	NG WAS CO	MPLE	TED			35ft						
			SUBING P				10/26		·											
SIGNATURE			MIRACIA	OR)			PERMIT N 2876M													
I hereby c	erte	that	the mo	nitoring	well he				nnetruete	d !-	2000-4-		415	•						
the Depar	tmgı	nt of N	aturai F	Resource	s requ	iremen	ts for t	u was c he cons	truction o	of m	accorda onitorina	wells	ហ		•	1				
SIGNATURE	ø€u	DRILLE	(R)	/		PERMIT	NUMBER		/ /					1		1				
1/ 7/	w	M.	de			2836		<u> //</u>	120/05	9	·									
SIGNATURÉ (APPR	CENTRE	,		ļ	PERMIT	NUMBER	DATE						TOTA	L DEF	TH:				
MO 780-1415									TECTION					L						



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				CATIO			D	ENTER	ED				ROVED BY	D	ATE	ROUTE			
INFOR	MA	TION :	SUPPL	IED BY	PRIM	ARY C	ONTRA	Phi CTOR	OR DR	Ph3 ILLING CO	NTRA	СТО	R	11.1	193				
OWNER N											WELL			200000000000000000000000000000000000000		RIANCE GI	RANTED		
Amerer	-						Low				88					DNR			
OWNER AL			\ ·				CITY				STATE		ZIP CODE			Yes. Attach vide numbe	r a copy or or of variance,		
1901 C		ileau A	ive.				St. 1	Louis	CONTAC	T NAME	МО	_ ['	63166		<u>ان</u>				
Labadie			lant						Paul P			· · · · · ·	I STA	\TE	710 (CODE			
226 Lat	oadi	ie Pow		ıt Rd., M	IC LB	D-645			Labad	ie		·	M	0	630	63055			
PROPOSEI Gas I				☐ Monit	orina		1		TIAL SITE Materiai		andfill				CHECK ALL THAT APPLY) S Petroleum Products Only				
☐ Extra		-		☑ Piezo	-				Assessm		U.S.T.		☐ Explos			retroleum r Metais	VOC		
	J. J.			23 1 1020		•		ater Level Drawdown					SVOC			Pesticides/H			
AREA		OUNTY			VATION						MALLEST	Г	LAI	TOTOTOTOTO					
1 LOCATION		rankli	ın	<u>@</u> 4	165'		4				1/.		% N	T XX 7	14				
Lat. 38			22	' _41N	ı	n	Se.	ction 17	,	Township						2 ⊠ Eas	st 🗌 West		
Long. 90		 °.	49	, _33\/		-, -		ouon 17	******	TOWNSHIP	77 140	71 W I			nai ige	_2 <u> </u>	t 🗀 West		
TYPE OF				Oracimal	LENGT	TH OF CTIVE C	ASING	DIAMETE	R OF IVE CASIN	DIAMETEI G THE HOLE				ECTIVE	Øs	Steel	LOCKING CAP?		
SURFACE			Above (, ,,,	.01142	700	INOILUI	TVL CAGIN	CASING V			MATE			Numinum	⊠ Yes		
COMPLET	IION	ᅵᅵ	Flush M	lount	5	ft.	1	43	4 in.	12 in.	2 ft.		İ			Plastic	□ No		
WEEP HOL	E?		D CAP?	LENGTH MOUNT	OF FLUS		METER OF	FLUSH		ER AND DEPTH LUSH MOUNT W		ED	SURFAC	E	IXI C	oncrete			
⊠ Yes		⊠ Ye							I HOLL !	100/1 1/100/11 1/	AO I'LAO	CD	COMPLE GROUT	TION					
□ No		☐ No				ft.		ft.	<u> </u>	in.		ft.	GROOT		ЦО	ther			
	LE	NGTH	DIAMET		IGHT SDR#		TER OF HOLE	MATERIA				REN	ITONITE	LENG! SEAL	TH OF	MATERIAL			
RISER				40	,	İ				nermoplastic	(PVC)	SEA				Slurry			
PIPE		ft. *	2 in.	170		0.69		☐ Oth			<u> </u>		· · · · · · · · · · · · · · · · · · ·	3 ft.			lar □Chips		
DETAIL	_	JED Van							TER PAC				FROM	PTH TO	F	ORMATION	DESCRIPTION		
	_	Yes		i						ydrated 🔲 Y	es ∐ l	No	0	5		ay/Silt			
		No		☐ Both					☐ Yes				5	10		F-F Sand			
PRIMARY	· '	LENGTH		DEPTH TO	э тор о	F PRIMAF	RY FILTER I	PACK 8	SECONDAR	Y FILTER PACK	LENGTH		10	30	Fir	ne Sand			
FILTER PACK		12.8	.			22.0	ft.			1.2	4		30	35	Gr	avelly Sar	nd		
	+		tonite S	lure.			nent/Ben	tanita Ci		LENGTH	ft.		-						
ANNULAR				-					•						-				
SEAL	` '	∐ Non	Slurry E	3entonite	• •	-									}				
						□ % o	f Bentoni	te Used		170									
	<u> </u>					☑ Wat	er Used/		gal.	17.8	ft.		<u> </u>						
WELL	LE	NGTH	DIA	METER	OF DE	RILL	DEPTH TO	<u> </u>		MATERIAL		•]						
SCREEN					HOLE	Ì	SCREEN			Thermopla	astic (P	VC)							
	10) ft.	2"	ft.	8.25	in.	24.5 ft.		Other _				TD:		1				
Multiple C	ase	d Wells	:	s 🛭 No	·	F	ump Inst	talled for	Remedi	ation 🗌 Ye	S		35ft		-				
Submit a size of al	ddi I ca	tional a ising, h	as built nole dia	diagram meters	ns show and gr	wing w	ell cons	truction	details	including ty	pe and	t							
STATIC WAT NI FEET FI			kings Plojiki	7/1			DATE WEL 11/13	L DRILLIN	G WAS CO	MPLETED	· · · · ·								
		MARKYCE	NTAACT	6 60			PERMIT NU	JMBER		781				•					
SIGNATURE	199			7'		I hereby certify that the monitoring well herein describe					М								
14	<u> </u>		Tul	<u>~</u>									į						
I hereby o	erti	fy that	the mo	nitoring	well he	erein de	escribed	was co	nstructe	d in accorda	ance w	ith					,		
I hereby o	erti	fy their	اکسو/ the mo latural I	nitoring	well he	erein de	escribed	e const	ruction	of monitorin	ance w	ith s.					,		
I hereby of the Depar	erti	ify that ant of N	the mo latural I	nitoring	well he	PERMIT	escribed nts for th	e const	enstructe truction	of monitorin	ance w g wells	ith s.					,		
I hereby of the Depart	erti	ify that ant of N	the mo latural I	nitoring	well he	PERMIT	escribed nts for th	e const	ruction	of monitorin	ance w g wells	ith s.	TOTA	L DEF	PTH:		,		



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		INIC			S WEL		.	ENTER	(ED			APF	PROVED BY	D	ATE	ROUTE				
INFOR	MA.						_	Ph1	Ph2	Ph3					12012					
OWNER N	AME	IJON	JUFFL	ع برعا.	o I - E-KIIAI	ART C	UNIRA	ACTOR	OR DRI	LLING		ACTO L NUME			1	Brown Day 1				
Amere											90	- 110111				RIANCE G DNR	RANTED			
OWNER A							CITY	,			STAT	E	ZIP CODE			Yes. Attac	h a copy or			
1901 C	hou	teau A	Ave.				St.	Louis	I		MC		63166		pro	vide numb	er of variance.			
Labadie	e Po	wer P	lant						Paul P											
			on Dlan	ו מי	MOID	D (45			CITY					ATE		ZIP CODE				
PROPOSE	DUS	E OF W	ver Plan	ıt Ka.,	, MC LB	D-643	TYPE	OF POTEN	Labadi	ie			MONITORII	O		63055 CHECK ALL THAT APPLY)				
☐ Gas I	Vlon	itoring	Well	□м	onitoring		□ Ha	azardous	Material	5	Landfill						Products Only			
☐ Extra	ctio	n Well		⊠ Pie	ezometers	S	1		Assessme el Drawdo	ent [L.U.S.T		☐ Explo	sives	Ø i	Vietais	□ voc			
AREA		OUNTY			ELEVATION	-	<u> </u>	ater Lev	ei Diawuc	own	SMALLES	ST.	SVOC	RGEST		Pesticides/	-lerblcides			
1 LOCATION	_1	rankl	in		<u>@</u> 465'		[-								
Lat. 38		VELL 0	22	' <u>_</u> 4	11.2	n		otion 17	, <u> </u>		%		¼ N							
Long. 90			49	_ 2	4.9 LENG	-, -,	36								Range	_2 🛭 Eas	st 🔲 West			
TYPE OF SURFACE	1	⋈	Above (Ground		ECTIVE CA	SING	PROTECT	ROF TIVE CASING	3 THE !	ETER AND I	ECTIVE	E CASII		Ø.	Steel	LOCKING CAP?			
COMPLET		·	Flush M	lount	_	_					NG WAS PL		MATE	RIAL		Numinum	│ ፟፟፟⊠ Yes │			
WEEP HOL	E?	VENTE	D CAP?	LENG	TH OF FLUS		METER OF	4x	4 in.	12 17	. 2 ft. PTH OF THE					Plastic	₩ 140			
Yes		⊠ Ye		MOUN		MOI	JNT	1 20011	HOLE FL	USH MOUN	IT WAS PLA	CED	SURFAC		⊠ c	oncrete				
□ No)			ft.		ft.		t			GROUT	IION	По	her				
	LEN	NGTH	DIAMET		WEIGHT	DIAMET		MATERI/	AL.	in.	<u> </u>	ft.		LENGT		MATERIAL				
			l	ĺ	OR SDR#	DRILL	IOLE	☐ Ste	el 🖾 Th	ermoplas	stic (PVC)		NTONITE	SEAL	пог	Slurry				
RISER PIPE	28	ft.	2 in.	l	40	0.691	t.	☐ Oth		•	, -,	SE	AL	3 ft.		1	iar			
DETAIL	GLI	JED							TER PACE	<u>-</u>		<u> </u>	DEI	PTH	F	<u> </u>	DESCRIPTION			
		Yes		⊠s	aturated 2	Zone [] Unsat	urated Z	one Hy	drated 🗵	Yes 🗆	No	FROM	TO						
	\boxtimes	No			oth Zones				☐ Yes [0	10			and, Clay and			
PRIMARY	T	ENGTH		DEPTI	TO TOP O	F PRIMAR	/ FILTER I	PACK S	ECONDARY	FILTER PA	ACK LENGT	Н	10	15	Sil					
FILTER								- 1					15	31			Fine Sand			
PACK	4	13.8	ft.			21.2	ft.				.2 ft.		_	J1	Cla		ry Fine Sand,			
		⊠ Ben	tonite SI	urry		☐ Cem	ent/Ben	tonite Si	urry	LENGTH			31	35			ium, Fine, and			
ANNULAR SEAL	1	☐ Non	Slurry E	Benton	ite Type	☐ Bags	of Cem	ent Use	d				1		I		and, Trace			
						☐ % of	Bentoni	ite Used								avel	•			
						☑ Wate	r Used/	Bag 25	nal	17	ft.				İ					
	LE	NGTH	DIA	METER	DIAM	TER	DEPTH TO			MATERIA			-				•			
WELL SCREEN	ĺ				OF DE HOLE		TOP OF SCREEN		Steel 🗵	Thermo	oplastic (F	VC)	┨							
	_) ft.	2"	ft.	8.25	in.	24.7 ft.		Other											
Multiple C									Remedia											
Submit a size of al	l ca	sing, l	as built hole dia	diagn meter	ams sho [,] rs and gr	wing we out use	ell cons d.	truction	details i	ncluding	j type an	ıd	TD: 35ft							
STATIC WAT			$\alpha \mathcal{L}$)_//				L DRILLING	G WAS COM	PLETED			3311							
NA FEET I)-28 					<u> </u>								
				2			ERMIT NU	NWRFK				1								
I hereby o	erti	fy that	the mo	nitorir	ng well he	erein de:	scribed	was co	nstructer	rdance	vith	1								
the Defjar signyfyre	τme	iniyot t	Naturai i	Resou	rces requ	iremen	ts for th	e const	vas constructed in accordance with construction of monitoring wells.						}					
SIGNATURE		女 DRILL ファクュ	ER)			2836	NUMBER	DATE	10-19	۷.۵] [ļ			
SIGNATURE (APPRENTICE) PERMIT NUMBER								DATE	17 10	-09	· · · · · ·		1-0-1							
·		0												TOTAL DEPTH:						
MO 780-1415	106-1	191 R	ETHOM (CMDI	ETEN END	M TO. W	CILLUE A	DODAT	COTION											



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		CEI			ON RE	_	D	ENTER Ph1	RED		Ph3			ROVED BY	C		ROUTE	e Programme de la companya de la companya de la companya de la companya de la companya de la companya de la co		
INFOR	MAT	ON:	SUPPL	IED B	Y PRIN	IARY C	ONTRA	ACTOR	OR DR	RILLI	ING COI	NTRA	CTC)R		100	1	A Company of the Comp		
OWNERN	AME											WELL	NUMB	ER	Market Control		RIANCE G	RANTED		
Amerei OWNER A	_	ss					CITY	, -				93			 -		DNR	.		
1901 C	-	-	ve.				- 1	Louis				STATE	- 1	ZIP CODE 63166				h a copy or er of variance.		
SITE NAMI					· · · · · ·			Louis	CONTAC	CT NA!	ME I	MO		03100		ــــــــــــــــــــــــــــــــــــــ				
Labadie		ver P	lant						Paul P	Pike										
SITE ADDR		-	T01						CITY					ST	ATE	ZIP	CODE			
226 Lat	DAG16	OF WE	er Plar	it Kd.,	MC LE	BD-645		DE BOTEN	Labad	lie			 ,	M	=		63055			
☐ Gas I				□Мо	nitoring		1	YPE OF POTENTIAL SITE Hazardous Material Landfill									ALL THAT AF	PLY) Products Only		
☐ Extra	ction '	Well			zometer	S			Assessm		L.(☐ Explo			detals	VOC		
							ſ		el Drawd					SVOC				Herbicides		
AREA	1	UNTY ankli			LEVATION						SM	ALLES	Т		RGEST			. 10/12/0/400		
LOCATION			<u> </u>				-					1/4		% N	JW.	14				
Lat. 38_ Long. 90		_ •	33	, 42	2"	ı	Se	ection 17	,	Tow	nship4			^		_	2 M = a	st 🔲 West		
Long. 90		•	49		n								,,,,,,			i tariye	_2 🖂 La	st 🗀 west		
TYPE OF			Above (Ground		TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN	IG	DIAMETER THE HOLE				ECTIVE	⊠ :	Steel	LOCKING CAP?		
SURFACE			Flush M								CASING W			MATE			Aluminum	⊠ Yes		
WEEDLIN	== -				5				4 in.	_		2 ft.				□ F	Plastic	□ No		
WEEP HOL		VENTE ☑ Ye	D CAP?	MOUN	H OF FLU: T		METER OF UNT	FLUSH	DIAMET HOLE FI	ER AN	ND DEPTH C	OF THE	ED.	SURFAC		⊠ c	oncrete			
□ No		□ No												GROUT	TION	☐ Other				
	LENG		DIAMET	ED V	WEIGHT	ft.	TER OF	ft.	<u> </u>	in.			ft.							
			DIMIL		OR SDR#	DRILL	HOLE	OLE						NTONITE	LENG1 SEAL	TH OF	MATERIAL			
RISER	28 f	ı.	2 in.	4	4 0	0.69) JEA						AL,	3 ft.		Slumy	′			
PIPE DETAIL	GLUE					0.03			TER PAC	=				DE	PTH	F (<u> </u>	DESCRIPTION		
1	□ Y	'es		⊠ Sa	turated 2	Zone (ed 🛛 Ye	. 🗀	No.	FROM	то		DUNTION	DESCRIPTION		
	⊠ N	lo			th Zone:				☐ Yes I			» Ш і	NO.	0	12	Int	erbedded	Clay, Silt, VI		
PRIMARY	LE	NGTH									TER PACK L	ENCTU		┨		Sa		.,,		
FILTER									LOONDAI	,	I EN LAGINE	ENGIN		12	20	Fir	e Sand			
PACK	1	3.3 f	t.			21.6	ft.				1.3	ft.		20	35			_		
	×	Bent	onite SI	urry		☐ Cen	nent/Ben	tonite SI	urry	LEN	NGTH			1 ~ `	33	Co	arse Sand	ı		
ANNULAR		Non	Slurry E	Bentonit			s of Cem		-]						
SEAL	Ì				•		Bentoni													
										17	.3	ft.		1 [1				
	LENG	3TH	DIA	METER	DIAM		DEPTH TO		gai.	<u> </u>				∤ i						
WELL					OF DI HOLE	RILL	TOP OF SCREEN	<u> </u>	Steel D		TERIAL nermoplas	tic (P)	/C)	- 1						
SCREEN	101	F4	2"	4	8.25			- 1	Other_		iomopiac	, i) on	•0,							
Multiple C				s 🔲 N			24.6 ft.						·]						
Submit a											☐ Yes			<u> </u>		1				
size of all	l casi	ng, h	ole dia	meters	and gr	out use	ed.	ırucılon	details	INCIL	laing typ	e and	i	TD:						
STATIC WAT	ER LEV	/EL		1				L DRILLING	G WAS CO	MPLE	red			35ft		1				
NA FEET F							10-22		DRILLING WAS COMPLETED											
SIGORGIA		77	MIDACIC	OR)			PERMIT NU 2876M	JMBER							•					
i hereby c	/// ertifv	that	the moi	nitorina	well he			wae oo	netriota	d in			41.							
tne Depar	tmen	i oj N	atural F	Resour	es requ	iiremen	ts for th	e const	onstructed in accordance with struction of monitoring wells.											
SIGNATURE (PRILLE	(R)	1		PERMIT	NUMBER	DATE	10-ZL-09											
SIGNATURE (APPRE	NTICE	yu.	ax		2836	NUMBER	DATE	0-26-	09										
		0				: WYII I	NJER	JAIE	•					TOTAL	_ DEP	PTH:				
AO 780-1415	(00.00)	DE	THEN	OHDI E	TED E0			DDDOT												



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		CE	RTIFIC	CATIC	ON RI	ECOR	D	ENTE Ph1	RED Ph2	Ph3		API	PROVED BY	1	DATE	ROUTE				
INFOR	MA	TION	SUPPL	JED B	Y PRIM	MARY C	ONTR	ACTO	R OR DE	RILLING C	ONTRA	ACT	OR	Transfer Corts	icaty Corolida Torra	<u>- 1</u> 3				
OWNER N Amere												NUM	BER			RIANCE G	RANTED			
OWNER A		SS					CIT	Y		·	95 STAT	F	ZIP CODE			DNR Yes, Attac	h a copy or			
1901 C		teau A	Ave.				St.	Louis			МО		63166		pro	provide number of variance.				
Labadie	-	war D	lont						Paul I	OT NAME				-	!					
SITE ADDR			iant			·			CITY	- INC			ST	ATE	ZIP	ZIP CODE				
226 Lat	badi	e Pow	er Plar	ıt Rd.,	MC LI	3D-645			Labac				М			63055				
PROPOSEI				☐ Mor	nitorina		i -		NTIAL SITE							ALL THAT AF				
☐ Extra		-		☑ Piez	_	'S	1		Assessn	<u> </u>	Landfill L.U.S.T.		☐ Explo			Petroleum I Metals	Products Only			
									vel Drawo				SVO				Herbicides			
AREA 1		ounty rankli		1	EVATION 2465'	ı					SMALLES	ST	LA	RGEST		-	<u> </u>			
LOCATION	OF V				,100		-						¼ l	٧w	_ ¼					
Lat. 38 Long. 90		_ ° 。	33 <u> </u>	', _42 59		,	s			Township _						_2 🛭 Eas	st 🗌 West			
TYPE OF SURFACE	:	Ø	Above (Ground		TH OF ECTIVE C	ASING	DIAMET PROTEC	ER OF CTIVE CASIN	IG THE HO	ER AND D	ECTIV	E CASI		Z S	Steel	LOCKING CAP?			
COMPLET			Flush M	lount	5	4			4 !		WAS PLA	ACED	MATE	ERIAL		Aluminum	□ No			
WEEP HOLI	Ē?	VENTE	D CAP?		OF FLU	SH DIA		F FLUSH		ER AND DEPT	2 ft. H OF THE		1 011754	-		Plastic				
⊠ Yes	ŀ	⊠ Ye		MOUNT		MO	UNT		HOLE F	LUSH MOUNT	WAS PLA	CED	SURFAC		⊠c	oncrete				
□ No		□ No				ft.		ft.		in.	ft.	GROUT			ther	_				
	LEN	IGTH	DIAMET		/EIGHT R SDR#	DIAME	TER OF HOLE	MATER		hermoplasti	NTONITE	LENG SEAL	TH OF	MATERIAL						
RISER	28	ft.	2 in.	4	0	0.69	4	-		nermopiasti	C (PVC)	SE		3 ft.		Slurry	☐Pellets			
PIPE DETAIL	GLU		<u> </u>			1 0.03		Other						PTH	F		DESCRIPTION			
ł		Yes		⊠ Sat	urated	Zone [☐ Unsa	turated	Zone H	ydrated 🛛	Yes □	No	FROM	TO			DECOMM HON			
	\boxtimes	No			h Zone				☐ Yes				0	14			Clay, Silt, V			
PRIMARY	T L	ENGTH		DEPTH 1	TO TOP C	F PRIMAR	Y FILTER	PACK	SECONDAR	RY FILTER PAC	K LENGTI	Н	14	30	Sar	nd 1e Sand				
FILTER PACK		13.3 1	F4			21.6	5 1			4	_		30	35		arse Sand				
-	_		tonite SI	UFD/		21.6	ft.	ntonite S	Na uma e	1.3	3 ft.		4	i						
ANNULAR	- 1			-	Tyne			ment Us	•											
SEAL	'		Oldiny L	GI ILOI IIL	s Type	_														
								nite Used		17.3	ft.									
	LEI	NGTH	DIAI	METER	DIAM	ETER	DEPTH T	/Bag 25	gai.	MATERIAL			-							
WELL SCREEN					OF DI HOLE		TOP OF SCREEN	-	Steel	MATERIAL Thermop	lastic (P	VC)	1							
	10	ft.	2"	ft.	8.25	in.	24.6 ft.	. [Other_			•								
Multiple Cased Wells ☐ Yes ☐ No Pump Installed									r Remed	ation 🔲 Y	es		1							
size of all	cas	sing, h	as built ole dia	diagrar meters	ns sho and gi	wing wo	ell cons	structio	n details	including t	ype an	d	TD: 35ft							
STATIC WATER LEVEL NA FEET FROM MEASURING POINT 10-22										DRILLING WAS COMPLETED										
SUND PERMARY JONTRACTOR) PERMIT NUMBER													-							
/ they		1/10	N	<u>~</u> 			2876M													
I hereby co the De part	ertif tme	y that nt of N	the mor	nitoring Resource	well he	erein de	scribed	d was co	onstructe	d in accord	lance w	ith]							
SIGNATURE	y j	DRILLE	(R)		10q		NUMBER			oi monitori	ng well	s	1							
SIGNATURE (1	M	is	<u></u>		2836	ánu	_	10-59	109										
	~I~I~I	STATE	1			PERMIT	NUMBER	DATE		स -			TOTAL	L DEF	TH:					
AO 700 1445 (/AA A	N DE	THE	OMDLET	ED FOE															



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						ECOR		ENTER Ph1	Dh2	Dh2			PROVED BY	D	DATE	ROUTE	- FA		
INFOR	MA	TION	SUPPL	LIED BY	/ PRIM	IARY C	ONTR	ACTOR	OR DR	Pha RILLING CO	ONTRA	CTO	OR .			21-35-5 <u>4</u> 27-845-7			
OWNER N	NAME			_	_						WELL	NUMB		<u></u>		RIANCE GF	RANTED		
OWNER A		ESS					CITY				97 STATE	=	ZIP CODE			DNR Yes. Attach	h a copy or		
1901 C			Ave.					Louis			MO	1	63166		prov	vide numbe	er of variance.		
SITE NAME	IE								CONTAC		1140		03100						
Labadio			'lant						Paul P	'ike							· · · · · · · · · · · · · · · · · · ·		
		-	ver Plat	nt Rd., l	MCIF	⊇T_6 <u>4</u> 5		1	CITY Labadi	1! _	-			ATE	1	CODE			
PROPOSE	D US	E OF WF	ELL ELL	<u>It Xu., .</u>	MC LL	シン・シャン	TYPE	OF POTEN	Labaui	<u>1e</u>		—	MONITORIN		630 (CHECK	055 ALL THAT API	PI Y)		
☐ Gas i		_		☐ Mon	-		☐ Hazardous Material						1			ETECKALL THAT APPLY) ■ Petroleum Products Only			
☐ Extra	ction	n Well		☑ Piez	zometer	s	1		Assessm	_	L.U.S.T.	,	Explos			Metals	□ voc		
AREA		COUNTY		T FI	LEVATION		<u> </u>	later Lev	vel Drawdo				SVOC			Pesticides/H	Herbicides		
1	F	Frankli			2465'					8	SMALLES'	Т	LA	RGEST		-	_		
LOCATION				· 1_ *	/-		1						% N	√W	¼		r		
Lat. 38_		° ,	33 ° 48	', _42.		.	Se	ection 17	/ <u></u>	Township _						_2 🖾 Eas	st 🔲 West		
Long. 90				51	LENG	TH OF	Т	DIAMETE		DIAME?	TER AND D	тетн	OF PRO	TECTIVE			LOCKING CAP?		
TYPE OF SURFACE	E		Above (FECTIVE CA	SING		TIVE CASING	NG THE HOI	DLE PROTE WAS PLA	ECTIVE	E CASIN	NG	M 2	Steel	LOCKING CAP?		
COMPLET		1 0	Flush M	/lount	_	, e		1					MAIL	ERIAL		Aluminum	□ No		
WEEP HOL	E?	VENTE	ED CAP?		H OF FLUS	SH DIAM		SF FLUSH	x4 in.	12 in. TER AND DEPTH	2 ft. TH OF THE				T	Plastic			
⊠ Yes	ļ	⊠ Ye	əs	MOUNT		MOL				LUSH MOUNT V			SURFACI		⊠ Co	oncrete			
□ No	1	□ No	ٔ ا			ft.		ft.		in.		ft.	GROUT		Ot	ther	_		
	LEI	NGTH	DIAMET		VEIGHT	DIAMET	TER OF	MATERIA	RIAL	***		1.	<u> </u>	LENGT	ļ	MATERIAL			
	I	,			OR SDR#	DRILL H	IOLE			hermoplastic	c (PVC)	BEN SEA	NTONITE	SEAL	1	⊠Slurry	/ Pellets		
RISER PIPE	⊢—	8 ft.	2 in.	4	10	0.69 f		☐ Oth	her	·	· .		AL ,	3 ft.		-	ular □Chips		
DETAIL	ł	.UED						NDARY FIL	LTER PAC			<u> </u>		PTH	FC	ORMATION '	DESCRIPTION		
] Yes	1	I						lydrated 🛛 \	Yes 🔲	No	FROM 0	7 TO	١.				
	×	No	!	☐ Bot	th Zones	s If	f Yes, H	Hydrated	☐ Yes [☐ No			10	1			l Clay, Silt, VF		
PRIMARY	<u>'</u>	LENGTH		DEPTH	TO TOP O	F PRIMAR	YFILTER	PACK E	SECONDAR	RY FILTER PACI	K LENGTI	н	7	22	San Fin	nd ne Sand			
FILTER PACK		12.2	_	1		~4 &	~			_			22	35	- 1	arse Sand	4		
		13.3 f				21.5	ft.			1.5	5 ft.		-						
ANNULAR	_		ntonite SI	•				ntonite SI	-	LENGIN			'						
SEAL	1	☐ Non	, Slurry E	3entonite				ment Use					1	1					
						☐ % of	Benton	nite Used	<i>-</i> '	170	. .			1					
	\perp							d/Bag 25 g	gal	17.0	ft.	_	1	1			•		
WELL	LE	ENGTH	DIA	AMETER	OF DE	RILL 7	DEPTH TO TOP OF			MATERIAL		_] /	1					
SCREEN					HOLE	Ē \$	SCREEN	' 📙	_		lastic (P	VC)	1	l .					
<u></u>		0 ft.	2"		8.25	<u>ن in.</u> :	24.5 ft.	. 🗓	Other _				1	l					
Multiple C				es 🗌 No					r Remedia			_]	ı					
size of all	ll ca	asing, h	as built nole dia	diagrar ameters	ns sho	rout use	ed.			including t	ype an	d	TD: 35ft	l					
STATIC WAT NA FEET F			-	1				LL DRILLIN	NG WAS COM	MPLETED			1	i			ļ		
SUNFACE	JAR)	JAKY OF	ONTRACT	OR)			10-22 PERMIT N	MRER	•				4	i			į		
The	1	Hr	1				2876M							ı					
I hereby c	erti	fy that	the mo	nitorinç	well h	erein de	scriber	d was co	onstructe	ed in accord	dance v	vith	1	,					
SIGNATURE	rtme	ept of N	Natural F	Resourc	es requ	uirement	ts for th	the const	truction o	of monitori	ng well	S.]				ļ		
31014	27	Lin	er, -	her .	}	2836	NUMBER DATE												
SIGNATURE ((APP	RENTICE	<u> [200 -</u> E)	~		PERMIT N	NUMBER			07		TOTAL	DE	OTU.					
	PENWII NOMBER DATE										IUIA	_ DEF	'Iri.		ļ				



OFFICE USE ONLY REF NO.	DATE RECEIVED
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					ON RE		D	ENTER	10 M				APP	ROVED BY	.D.	ATE		view.		
INFOR	MA	TION S	SUPPL	IED B	Y PRIM	ARY C	ONTRA	Ph1	Ph2 OR DR	ILLIN	Ph3 IG COI	NTRA	CTO	R						
OWNER N	AME											WELL					IANCE G			
Amerei OWNER A							(202	·				99	.,			BY				
1901 C			110				CITY					STATE		ZIP CODE				n a copy or er of variance.		
SITE NAM		icau A	ve.				St. 1	Louis	CONTAC	T NAME		МО		63166		F				
Labadio			lant					<u>.</u>	Paul P							T 715 5	005			
			er Plan	t Rd	MC LB	D-645			Labad	ia				M	ATE	ZIP C				
PROPOSE				1144,	WIC DD	0 13		F POTEN	TIAL SITE								63055 CHECK ALL THAT APPLY)			
☐ Gas I	Von	itoring \	<i>N</i> ell	☐ Moi	nitoring		☐ Hazardous Material						☐ Radio	nuclide	s 🗌 P	etroleum l	Products Only			
☐ Extra	☐ Extraction Well ☐ Piezometers								☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown						sives		letals esticides/l	☐ VOC Herbicides		
AREA		OUNTY			EVATION				<u> </u>	<u> </u>	SM	ALLES	r	SVOC	RGEST	<u> </u>	esticides/i	Terbicides		
1 LOCATION	I.	rankli	n	(@	0465'		-								7337					
Lat. 38			99	, 44	, 11			ation 1'	7	T				¼ N		_	. 53 =	. 5		
Lat. 36_ Long. 90	g. 90 ° 48 ' 43 "															Range .	2 🗵 Eas	st 🗌 West		
TYPE OF		×	Above (Ground		CTIVE C	ASING		R OF TIVE CASIN	lG ∤ Τ	HE HOLE	PROTE	CTIVE		ECTIVE	⊠ s	teel	LOCKING CAP?		
SURFACE COMPLET			Flush M	lount			1			۲	CASING W	'AS PLA	CED	MATE	RIAL	_	luminum	⊠ Yes □ No		
WEEP HOL	E0 1	VENTE			5 H OF FLUS	ft.			<u>k4 in.</u>			2 ft.				☐ P	lastic	L) 140		
WEEF NOL	-	Ø Ye		MOUNT			METER OF UNT	FLOSH	HOLE F	ER AND LUSH M	DEPTH (OF THE AS PLAC	ED	SURFAC		⊠ Co	ncrete			
□ No	ŀ	□ No											_	COMPLE GROUT	TION	☐ Other				
	LEN	IGTH	DIAMET	FR V	VEIGHT	t.	TER OF	ft. MATER		in.			ft.		LENGT		MATERIAL			
			,		OR SDR#	DRILL		OLE Steel S Thermoplastic (PVC) BEN						ITONITE	LENGT SEAL	n or	MATERIAL			
RISER	28	ft	2 in.	4	10	0.69	SEA						\L	3 ft.			lar Chips			
PIPE DETAIL		JED			· · · · · · · · · · · · · · · · · · ·		SECONDARY FILTER PACK						T DE	PTH	FC		DESCRIPTION			
ı		Yes		⊠ Sa	turated 2				Zone H		4 1X V	. n	Mo.	FROM	TO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BEGGINI HOIL		
	\boxtimes	No		_	th Zones				☐ Yes			~ ⊔	10	0	7	Inte	erbedded	Silt and Clay		
	-	ENGTH					-		SECONDAR			ENGT		┨				-		
PRIMARY FILTER	-								0200110/11		-IVI AOIVI	LLIIGII	,	$\begin{bmatrix} 7 \\ 22 \end{bmatrix}$	22	- 1	e Sand			
PACK		13.5 1	t.			20.6	ft.				1.5	ft.		22	35	Co	arse Sand	l		
	Ti	⊠ Bent	onite SI	urry	-	☐ Cerr	nent/Ben	tonite S	lurry	LENG				1						
ANNULAR	1	¬ Non	Slurry E	Bentonit	е Туре				· -											
SEAL	'	_	- · · · · · · · · ·				f Bentoni							1						
										16.	1	ft.		1		-				
	LIE	NGTH	DIA	METER	DIAME		OEPTH TO		gal.					4						
WELL					OF DR	ILL	TOP OF SCREEN	L.,	Steel [ERIAL	etic (D	VCI	1						
SCREEN	10) ft.	2"	ft.	8.25		23.8 ft.		Other_		- -	Suc (F	V O)							
Multiple C		_		s 🗌 N			talled fo	r Remedi	ation	☐ Yes			1							
Submit a	ddit	ional a	s built	diagra	ms show								1	TD:						
size of al	l ca	sing, h	ole dia	meters	and gr	out use	ed.						-	35ft						
STATIC WAT NA FEET I				A.T.				VELL DRILLING WAS COMPLETED												
SIGNATURE	_		NERACTO				10-22 PERMIT NU	MARED	····											
		Flu	1				2876M	DIVIDER												
I hereby o	erti	fy that	the mo	nitoring	g well he	rein de	scribed	was co	vas constructed in accordance with construction of monitoring wells.					1				,		
SIGNATURE	(WE	L DRILLE	R) 🔪 🛮	resour	ces requ		NUMBER	DATE						1						
1/2	fs.	m	, p	ر		2836			12 Z.	a 9								1		
SIGNATURE (APPRINTICE) PERMIT NUMBER								DATE	₹ 1				····	TOTA	L DEF	PTH:				
	POLICE PARTIES COMPLETE FORM TO WELLIS & DESCRIPTION OF THE PARTIES OF THE PARTIE																			



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INFOR	MA.	TION	SUPPL	IED B	Y PRIM	ARY	CONTI	Ph1 RACTOR	Ph2 RORDRI	Ph3 KILLING CO	NTRA	CTC	, , ,	in the second	1943 <u>)</u> 1443		
OWNER N	AME	<u> </u>	<u> </u>	<u></u>		September 1 and	<u> </u>	<u> </u>	The state of the s	1 hall 1		NUMB	ER	(Silly are)	T VA	RIANCE G	RANTED
Ameren							1 6						105		BY	DNR	
OWNER AD			LTIA				} -	t. Louis			STATE		ZIP CODE				th a copy or er of variance.
SITE NAME		Cau.	.٧٥.					i. Louis	CONTAC		MO		63166		<u> </u>		
Labadie SITE ADDR			lant						Paul P	ike			ST	ATE	ZIP	CODE	
226 Lab				t Rd.,	MC LB	D-64	15	E OF POTEN	Labadi NTIAL SITE	ie			M	O	630	055 CALL THAT AP	-3150
☐ Gas N				□Мо	nitoring		l	Hazardou		ıl ⊠ı	_andfill						Products Only
☐ Extrac		_			zometers	3	☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown						☐ Explos	sives	×	Metals Pesticides/l	□ voc
AREA 1	4	COUNTY Frankli			LEVATION @465'			77-0.	701 -1		MALLES	т		RGEST		-coudaco.	Terbidaes
LOCATION		WELL		خـــلـــــــ	<u>y</u> 700		\dashv				<u></u> ¼ .		% N	4M	_¼		
Lat. 38_ Long. 90	· ·	° ;	33 ° 49	, _39	9.1 <u> </u>			Section 1'	7	Township					_	_2 🛭 Eas	st 🔲 West
TYPE OF			Above G		LENG'	TH OF ECTIVE	CASING	DIAMETE	ER OF CTIVE CASIN	IG THE HOL	ER AND D LE PROTE	ECTIVE		TECTIVE NG	M :	Steel	LOCKING CAP?
SURFACE COMPLET		-	Flush M			4					WAS PLA	CED	MATE			Aluminum	│ ☑ Yes │
WEEP HOLI	.E?	VENTE	D CAP?		5 TH OF FLUS	SH D	DIAMETER	OF FLUSH	x4 in.	12 IN. TER AND DEPTH	2 ft. H OF THE	:	1		Γ –	Plastic	
⊠ Yes		⊠ Ye	ſ	MOUN			MOUNT	C. .	HOLE FI	LUSH MOUNT V	VAS PLAC	CED	SURFAC		⊠ C	oncrete	
□ No		□ No	را			ft.		ft.	.	in.		ft.	GROUT		 0	ther	_
	LEN	NGTH	DIAMET		WEIGHT OR SDR#		METER OF LL HOLE			hermoplastic		T	NTONITE	LENGT	TH OF	MATERIAL	
RISER	าด) } ~			40	Ì			SEA				⊠Slurry □ Granu				
PIPE	_	S ft. UED	2 in.			0.0	59 ft. SECO	ONDARY FI	her			DE DE	3 ft. PTH			ular Chips	
		Yes	ļ	⊠ s		7one				lydrated 🛛 Y		FROM	ТО		UKMATION	DESCRIPTION	
		l No	}	·	oth Zones			Hydrated	-	-	ies L	0	20			nd Fine Sand,	
PRIMARY	T	LENGTH		DEPTH	то тор с	F PRIM				RY FILTER PACE	K LENGTI	н	20	25		lay and Sil	lt d Fine Sand,
FILTER PACK		127		ŀ		21	24			1.2	٠					edium and lt, and Cla	
·		13.7 f	ntonite Sl	h iery		21 □ C	ft.	Bentonite S	ر بنید ر	1,2	2 ft.	—	25	35	Co	oarse, Med	dium, Fine, and
ANNULAR	.			-					•							ery Fine Sa ravel	and, Trace
SEAL	'	<u> </u>	Slurry	30 (Ilon	ite iyhe			ement Use						1	0.	avei	
								onite Used		16.8	ft.		.] !	1			
	LE	ENGTH	DIA	AMETER	DIAN	ETER	DEPTH		gal.	<u> </u>	·		-	1			
WELL		**		Bridge .	OF D	RILL	TOP OF	F	Steel	MATERIAL Thermopi		·VC)	-				
SCREEN	1	0 ft.	2"	ff.	8.25		24.4	i _	Other_		,	•					
Multiple C	_			es 🖾 N				10.		liation 🔲 Ye	es		-	l .			
	addi	itional a	as built	diagra	ams sho	wing	well co			including t		ıd	1	ļ			
STATIC WAT	TER L	LEVEL	2/1	71	<u> </u>			WELL DRILLIN	NG WAS CO	MPLETED			TD:				
SIGNATORE							PERMIT NUMBER 2876M						35ft				
I haraby	4 /	that	the mc	mitorji		niere				ed in accord		!4 -	-	l			•
the Depar	rtme	ent,of N	Natural F	Resou	rces req	uirem	nents for	r the cons	struction	of monitori	ng well	/ith is.	1	I			
SIGNATURE	200	LI/DRILL	ER)				MIT NUMBE	ER DATE		1							
SIGNATURE	API	PRENTIG	ANK.	<u></u>		283	MIT NUMBE	10-12-19 NUMBER DATE					TOTA	- DEI	TU.		
	<u>.</u>												IUIA	r ne	'I m:		



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			RTIF						Ph1	Ph2		Ph3		F.S.	ROVED BY		DATE	ROUTE	
INFOR	MA	TION	SUPPL	.IED	BY PR	RIMAF	RY CO	ONTR/	ACTOR	OR DR	RILL	ING CO	NTRA	CTO	R	A CONTRACTOR			200 m
OWNERN	AME													NUMB	ER		VA	RIANCE C	RANTED
OWNER A		SS						СПУ	,						104	<u>-</u>		DNR	
1901 C			Ave						Louis			j	STATE		ZIP CODE		Dro	Yes. Attac vide numb	h a copy or er of variance.
SITE NAMI	E				· · · · -			<u></u>	Louis	CONTAC	CT NA	ME	МО	!_	63166				
Labadio			Plant							Paul F	Pike								
SITE ADDR										CITY					ST	ATE	ZIP	CODE	
226 Lal	Dus	e Pov	ver Plai	at Ro	1., MC	LBD-	645	TVDE	OE DOTEN	Labad	lie				M	[0]	630	055	
☐ Gas I					Monitorir	na		!		s Materia	ı	⊠ La	ndfill					ALL THAT AF	
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AREA 1		rank			@465				_			SM	ALLES	T		RGEST			TOIDIGIGOS
LOCATION					<u>w</u> 403		:		•				1/4		1⁄4		1/.		
Lat. 38_		_ •	33 ° 49	,	39	n		Se	ection 17	,	Tow	nship4			^		-	2 🖾 🖘	st 🔲 West
Long. 90			° 49		21.9	n								,, (d.)			range	_2 🖂 🖂	St MASt
TYPE OF	_		Above	Grou		NGTH C		SING	DIAMETE PROTEC	R OF TIVE CASIN	IG	DIAMETER THE HOLE				TECTIVE	× ×	Steel	LOCKING CAP?
SURFACE COMPLET		- 1	Flush N									CASING W			0,70,	ERIAL		Numinum	⊠ Yes
WEEP HOL	<u>=2 T</u>	l	ED CAP?				ft.			κ6 in.			2 ft.					Plastic	□ No
WEEF HOL	-'	VENTI			IGTH OF F UNT	·LUSH	MOU		FLUSH	HOLE F	'ER AI LUSH	ND DEPTH (MOUNT WA	OF THE	ED _	SURFAC		⊠ c	oncrete	
□ No	J	□ N							_						GROUT	TION	_		
	LEN	IGTH	DIAME	TER.	WEIGH	ft.	IAMET	ER OF	ft.	1	in.	· · · · · · · · · · · · · · · · · · ·		ft.				her	·
			"""		OR SDF		RILL H			_	herm	oplastic (B/C/	BEN	ITONITE	LENG1	TH OF	MATERIAL	
RISER PIPE	28	ft.	4 in.		40).85 ft		Oth			opiasus (. ,	SEA	L	3 ft.		Slurry	□Pellets lar □Chips
DETAIL	GLL				·					TER PAC	<u>-</u> _				DE	PTH	E(DESCRIPTION
		Yes		×	Saturate	ed Zon						ted 🛛 Ye	е П I	\\o	FROM	ТО		JINIATION .	DESCRIPTION
1	\boxtimes	No		-	Both Zo					☐ Yes ∣			» Ц	10	0	34	Ve	ry fine sa	nd, fine sand,
PRIMARY	ı	ENGTH	ı	DEP	тн то то	P OF PF					_	TER PACK L	ENGTH		1		silt	, and clay	•
FILTER						•							,,,		34	35	Co	arse and l	Medium Sand
PACK		13.6	ft.			21	1.25	ft.				1.5	ft.		ľ				
	0	⊠ Ber	ntonite S	lurry			Ceme	ent/Ben	tonite SI	urry	LEI	NGTH			1 .				
ANNULAR SEAL	[☐ Nor	n Slurry E	3ento	nite Typ	е 🔲	Bags	of Cem	ent Use	d					1				•
JEAL	ł						% of I	Bentoni	ite Used										
									Bag 25		16	.8	ft.				1		
	LE	NGTH	DIA	METE		AMETER	₹ 0	EPTH TO		yaı.		TEDIAL	-		{				
WELL SCREEN						F DRILL OLE		OP OF CREEN		Steel	X T	TERIAL nemoplas	stic (P	VC)	1				
OUNCER	10) ft.	4"	ft	1	0.3 in.	1,	4.4 ft.		Other_		•		,	<u> </u>				
Multiple C						0.5 111					ation	Yes					1		
Submit a	_					howin													
size of al	l ca	sing,	hole dia	met	ers and	grout	used	d.	u douon	ucians	IIICI	ading typ	e and	1	TD:		1		
STATIC WAT			\sim	1					L DRILLIN	G WAS CO	MPLE	TED			35ft		1		
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				WK)				ERMIT NU 876M	MBEK	•									
i hereby c	erti	fy that	t the mo	nitor	ing wel	l herei	n des	cribed	was co	nstructe	d in	accorde	nce w	th				,	
tne vjepar	tme	ny of i	Naturai i	Reso	urces r	equire	ment	s for th	e const	ruction o	of m	onitoring	wells						
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1901 C		au A	ve.					St.	Louis				МО	- 1	63166				er of variance.
SITE NAM	_	D	14					_		- 1	CONTACT NA			1					· · · · · · · · · · · · · · · · · · ·
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TYPE OF SURFACE		Ø	Above	Groun			VE CASIN		DIAMET PROTE		E CASING	THE HOLE	PROTE	CTIVE	CASI		⊠s	iteel	LOCKING CAP? Yes
COMPLE			Flush M	lount			. .	Ì				CASING W	'AS PLA	CED	MATI	ERIAL		Juminum	□No
WEEP HOL	E? V	ENTE	D CAP?		TH OF FL		ft. DIAMET	ER OF	FLUSH	1x4		12 IN.	2 ft.		,	·		lastic	
Yes		₫ Ye		MOU	NT		MOUNT			'	HOLE FLUSI	MOUNT W	AS PLAC	ED	SURFAC		⊠ Co	ncrete	
□ No] No				ft.			ft	.	in) .		ft.	GROUT		☐ Ot	her	
·	LENG	ГН	DIAMET	ER	WEIGHT OR SDR#	B	IAMETER RILL HOL	OF F	MATE							LENGT	H OF	MATERIAL	
RISER	00.		۵.	1	40	ı		_				noplastic (PVC)	SEA	ITONITE L	SEAL		⊠Slurry	·
PIPE DETAIL	28 ft.		2 in.			10	.69 ft.		0					_		3 ft.			lar Chips
DEIAIL	□ Ye				· oh matad	7					R PACK				FROM	PTH TO	FO	RMATION	DESCRIPTION
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	LEN	IGTH										TER PACK I	55		4			e Sand	ory ranc ac
PRIMARY FILTER								_,_,,	701	SEC	ONDART FI	LIER PACK	ENGIH		15	30			ine, Medium
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	∣⊠	Bent	onite SI	urry			Cemen	t/Bent	tonite :	Slurr	y LE	NGTH			1~			e, Meaiui d, Fine G	m & Coarse
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14F) I	LENG	TH	DIA	METER		ETER		TH TO			M	TERIAL			1		1		
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	10 ft		2"	ft.	8.2	5 in.	24.	7 ft.	_ [<u></u> Ot	ther	_							
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SIGNATOR	PRIMA	Y CO	MRACTA	(R)				MIT NU '6M	MBER										
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INFOR	MAT	ION:	SUPPL	JED B	PRIM	ARY C	ONTR	ACTO	R OR DR	RILL	ING CO	NTRAC	STO	R	30			
OWNER N												WELL	UMB	ER			RIANCE G	RANTED
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1901 C	houte	eau A	ve.				St.	Louis				MO	- 1	63166				er of variance.
SITE NAMI	_			• • •					CONTAC		ME			05100				
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PROPOSE	D USE	OF WE	LL LL	it Itu.,	VIC DD	D-043		OF POTE	NTIAL SITE	116	 -	·	-	MONITORII		(CHECK	ALL THAT AP	PLY)
Gas I		-		☐ Mor	-				us Materia		🛛 La	andfill						Products Only
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AREA	CO	UNTY		EL	EVATION		100	/ater Le	evel Drawd	lown		ALLEST		SVOC	S RGEST		Pesticides/I	-lerbicides
1	1	ankli	n		465'													
LOCATION						_								% 1				
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TYPE OF					LENG	H OF	4000		TER OF		DIAMETER	R AND DE	PTH		TECTIVE	N (Steel .	LOCKING CAP?
SURFACE		1 -	Above (FROIL	CIIVE	ASING	PROTE	CTIVE CASIN	NG	THE HOLE CASING W				NG ERIAL	-	Aluminum	⊠ Yes
COMPLET	HON	'	Flush M	lount	5	ft.		4	4x4 in.		12 in.	2 ft.					Plastic	□ No
WEEP HOL			D CAP?	LENGTI	OF FLUS	H DIA	METER O	F FLUSH	DIAMET		ND DEPTH O	OF THE		SURFAC	E	MC	oncrete	l <u>.</u>
⊠ Yes □ No	- 1	⊠ Ye							, noce	LUGH	MOOIA! AA	NO PLACE	D	COMPLE				
	<u>. l</u>	☐ No		F== 1 14		t.	<u> </u>			in.	<u> </u>		ft.	GROOT			ther	
-	LENG	i H	DIAMET		/EIGHT R SDR#	DRILL	TER OF HOLE	MATE	RIAL teel ⊠TI	ha	onloctic (,D,(O)	BEN	ITONITE	LENG SEAL	TH OF	MATERIAL	
RISER	28 ft		2 in.	4	0	۸ ۵۸	4		ther	Helli	iopiastic (PVC)	SEA		3 ft.		Siurry	□Pellets lar □Chips
PIPE DETAIL	GLUE		2 111.			0.69			ILTER PAC	-K				DE	PTH	1 5		DESCRIPTION
		'es		⊠ Sat	urated 2	one l			Zone H		ted M Va			FROM	TO		ORMATION	DESCRIPTION
İ	⊠ N	lo			h Zones				i ☐ Yes			25 LJ IV	10	0	11	Cla	ay & Silt	
DDIMADY	LE	NGTH		DEPTH :	TO TOP O				SECONDAR			FNGTH	-	11	15			Very Fine &
PRIMARY FILTER														15	26		ne Sand	
PACK	1	3.3 1	t.			21.7	ft.				1.6	ft.		1 13	20			Very Fine, m & Coarse
		Bent	onite SI	lurry		☐ Cen	nent/Ber	ntonite	Slurry	LEI	NGTH					Sau		in & Coarse
ANNULAR SEAL		Non	Slurry E	Bentonite	Туре	☐ Bag	s of Cer	nent Us	sed					26	35	Ve	ry Fine, F	ine, Medium
52712	1					□ % o	f Benton	ite Use	ed							& (Coarse Sa	nd; Gravel
	-						er Used		 -	17	'.1	ft.		1				
	LENG	зтн	DIA	METER	DIAME OF DR	TER	DEPTH TO			MA	TERIAL	<u> </u>		1				
WELL SCREEN	1				HOLE		TOP OF SCREEN	Π	Steel	X TI	nermoplas	stic (PV	(C)					
	10	ft.	2"	ft.	8.25	in.	24.7 ft.	1	Other _	_	_]				
Muitiple C	ased '	Wells	☐ Ye	s 🛭 No)	Р	ump Ins	talled f	or Remedi	ation	Yes	i		TD:				
Submit a	dditio	nal a	s built	diagrar	ns shov	ving w	ell cons	structio	n details	incl	uding typ	e and		35ft				
size of all			ole dia	meters	and gr	$\overline{}$		_						l				
		1	SUFFING P	WINT.	•		DATE WEI 11/4	LL DRILL	ING WAS CO	MPLE	TED							
SIGNATION							PERMIT N	UMBER			· · · · · · ·			[
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l hereby c the Depar	eftify	that	the moi	nitoring	well he	rein de	scribed	l was c	onstructe	d in	accorda	nce wit	h			1		·
SIGNATURE	N/EX	DRILLE	R) >	vesourc	es redu		NUMBER	DATI		or m	onitoring	wells.				1		
1/ 8		M	Be	٠-		2836			11/20/	09								
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OWNER N	IAME					<u> </u>							WELL	NUMB	ER			RIANCE G	
Amere:		FSS						CITY					110				BY	DNR	
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LJ EXIIA	CuO	II VVOII			ezomet	ers				Assessm el Drawd		[_] L.(J.S.T.		SVO			Metals Pesticides/I	□ VOC Herbicides
AREA		COUNTY Frankli			ELEVATIO @465'	ON						SM	ALLES'	Г		RGEST			10.010.000
LOCATION					<u> </u>		_								¼ l	٧w	_ ¼		
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TYPE OF		7	Above (Ground	LEN PRO	IGTH O	F VE CAS	ING	DIAMETE	R OF IVE CASIN	IG	DIAMETER THE HOLE				TECTIVE	⊠:	Steel	LOCKING CAP?
SURFACE COMPLE			Flush M		1							CASING W	AS PLAC	CED	, -,	ERIAL		Aluminum	⊠ Yes
WEEP HOL	E?		D CAP?		TH OF FL		t.	ETER OF	4x	4 in.		12 in .	2 ft.					Plastic	□ No
⊠ Yes		⊠ Ye		MOUN			MOUN		ruoon	HOLE F	LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠c	oncrete	
□ No		☐ No)			ft.			ft.		in.			ft.	GROUT		П о	ther	_
	LEI	NGTH	DIAMET		WEIGHT OR SDR#		AMETE		MATERIA			···				LENG	TH OF	MATERIAL	
RISER	•			1	40						herm	oplastic (PVC)	SEA	ITONITE L	SEAL		⊠Slurry	
PIPE	28	It. JED	2 in.	L		0	.69 ft.		Oth						-,	3 ft.			lar
DETAIL		Yes	ŀ		-44-					TER PAC					FROM	PTH TO	F	ORMATION	DESCRIPTION
		No			aturated oth Zon					one H ∐ Yes		ed ⊠ Ye	s ∐ 1	No	0	20	اند ا⊤	lt Clay&	Very Fine
	_	ENGTH										TER PACK L	=110=11		<u>.</u>			nd	· Ory Time
PRIMARY FILTER						.			AOK S	CONDAN	(I FILI	IER PAGN L	ENG I IT		20	35			Very Fine,
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							% of B	Bentoni	te Used						1				
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SCREEN	1,	١. ٥٠	0"		HO			CREEN	ı	Steel D	≱] Th	ermoplas	tic (P\	/C)					
Multiple C		ft. d Wells	2" ☐ Ye			25 in.		4.9 ft.			ation	_ ☐ Yes							
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size of al	ca	sing, h	ole dia	njeter	s and	grout	used	•		dotans	11 1010	iding typ	e and		TD:				
STATIC WAT		4	SURING A	Z IXT				TE WELL	DRILLING	G WAS CO	MPLET	ED			35ft		Ì		
			NTBACK				PE	RMIT NU	MBER	<u></u>									
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l hereby ć the Depar	tme	nt of Na	atural R	ntorin Resour	g well ces re	nereir quiren	n desc nents	ribed for the	was cor e constr	nstructe ruction o	d in a	accordar onitoring	ıce wi wells	th					i
SIGNATURE	77	L DRILLE	R) -			PER	MIT NU		DATE	11/20/0				一					
SIGNATURE (APPI	CONTRACTOR	in	رح		28: PER	36 MIT NU	MBER	DATE	יועטויו	<i>, ,</i>				TOTAL		<u> </u>		
MO 700 144E			TURN C	0145-					ĺ						TOTAI	_ DEP	TH:		



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, OWNER	WINE												WELL	NUME	BER	4-7-1004-215	VA	RIANCE G	RANTED
Amere OWNER A		28											112				BY	DNR	
1901 C			٨٧٨				I -	ITY					STATE	- 1	ZIP CODE			Yes. Attac	h a copy or er of variance.
SITE NAM	E	cau z	176.				8	t. Lou	118	CONTAC	T A14	NAE	MO		63166		Pic	Wide Hullio	er of variance.
Labadi		ver P	lant							Paul F									
		_	701							CITY					ST	ATE	ZIP	CODE	
226 La	DUSE	OF WE	er Plai	nt Rd	., MC I	<u> _BD-6</u>	45	- OF D		Labad	ie					(O -		055	
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AREA		UNTY		T	ELEVATION	ON		Trator		JI DIAWU	OWI		ALLES	 -!		RGEST		Pesticides/l	Herbicides
1		ankl	in		@465'														
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Lat. 38_ Long. 90		~ °.	33 <u> </u>		38N 36W	" "		Section	n 17 _.		Tov	vnship <u>4</u>	4 No	orth			Range	_2 🛭 Eas	st 🔲 West
		T	40_	<u> </u>	3044	NGTH OF	<u> </u>	DIAN	METER	? OE		DIAMETER	AND	COTIL	oc bno				
TYPE OF SURFACE		Ø	Above (Groun	d PR		E CASING			IVE CASIN	G	THE HOLE	PROTE	CTIVE	CASI	TECTIVE NG		Steel	LOCKING CAP?
COMPLE			Flush M	lount								CASING W	AS PLA	CED	MATI	ERIAL		Aluminum	⊠ Yes
WEEP HOL	F2 1	VENTE	D CAP?	LENG	STH OF FL	5 ft		<u> </u>	4x4	4 in.		12 in . 2		_				Plastic	□ No
⊠ Yes	- 1	⊠ Ye		MON		.USH	DIAMETER MOUNT	OF FLU	SH	HOLE FL	ER A LUSH	ND DEPTH C I MOUNT WA	OF THE US PLAC	ED	SURFAC		⊠ c	oncrete	
□ No	- 1 '	□ No													COMPLE GROUT	TION			•
	LENG		DIAMET	ED.	WEIGHT	ft.			ft.		in			ft.	-			ther	
	LLITC		DIAME		WEIGHT OR SDR		METER OF ILL HOLE		TERIA	_				REN	ITONITE	LENG SEAL	TH OF	MATERIAL	
RISER	28 ft	.	2 :	I	40			- 1			ıem	noplastic (f	PVC)	SEA		1		Slurry	
PIPE DETAIL	GLUE		2 in.			1 0.0	59 ft.		Othe		_					3 ft.			lar Chips
DETAIL	□ Y									TER PAC						PTH	F	ORMATION	DESCRIPTION
1												ted 🛭 Ye	s 🔲 1	Vo	FROM 0	16	┦ ".		
	⊠ N	0			oth Zon					☐ Yes [ľ	10			Very Fine &
PRIMARY	LE	NGTH		DEPT	н то тор	OF PRIM	ARY FILTE	R PACK	SE	CONDAR	Y FIL	TER PACK L	ENGTH		16	31	1	ne Sand	S
FILTER PACK	١.	• • •														-	Sai		ine & Mediun
		2.9 f				22.						2.4	ft.		31	35			ine, Medium
	1	Bent	onite Si	urry			ement/B	entonit	e Slu	irry	LEI	NGTH							nd; Gravel
ANNULAR SEAL		Non	Slurry B	enton	ite Type	. 🗆 в	ags of Co	ement	Used	1									and, Graver
	1					□ %	of Bento	nite i l	has]				
			•						_		17	' 1	ft.						
	LENG	TH	DIA	METER	DIA	METER	ater Use		23 g	aı.									
WELL			1			DRILL	TOP OF	٠		Stool 5	MA 7 Tu	TERIAL nermoplas	# - /D\	/					
SCREEN	10.				ľ			`			וו וצ	iermopias	uc (FV	<i>(</i> C)			1.		
	10 f		2"			25 in.	25 ft.			Other _		-							
Multiple Ca												☐ Yes					-		ĺ
Submit a	dditio	nala	s built (diagra	ams sh	owing	well cor	struct	ion (details i	nclu	uding type	e and						ļ
SIZE OF ALL	ER LEV	ig, n	ole dial		rs and (grout L		=							TD:				
FEE	T FRQA	MEN	LUNG P				11/4	ELL DRI	LING	WAS COM	(PLE	TED			35ft				ł
SIGNATURE							PERMIT	NUMBER	₹						.				-
	4/	10	l-				2876N	A						ŀ	1				
hereby of	ertify	that 1	he mor	nitorin	ng well i	herein	describe	d was	con	structed	l in	accordan	ce wi	h					
the Depart	ımenç	OT N	aturai K	esou	rces rec	quirem	ents for	the co	nstru	uction o	f m	onitoring	wells.		1		1		į
	<i>ZI</i> .			/		J	AIT NUMBEI	R DA		/20/0	· (0				1				j
SIGNATURE (APPRE	NTICE)	711		<u> </u>	283	6 IIT NUMBER	R DA		, 2/0	<u> </u>						<u>L</u>		
								"	-					-	TOTAL	. DEP	TH:		
AO 780-1415 (00 001	DE	TUDN C	OMOL !	ETED EG	DIA TO	14/51 1 1 1												



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L REF NO	
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the state of the s	
STATE WELL NUMBER REVENUE NO.	100 2
ENTERED APPROVED BY DATE ROUTE	Ct. va. Yes

		CEF	RTIFIC	CATIO	N RE	COR	D	F2235737533283	POSTERNATION OF THE STREET	Ph3	200 PM	77 h. 200 h	医性性结合性 医多种性 医二甲基甲基	0	ATE		19 (8)
INFOR	MA7	rion (SUPPL	IED BY	PRIM/	ARY C	ONTRA	ACTOR	OR DR	ILLING CO	NTRA	CTC)R			e de la companya de l	
OWNER N											WELL	NUME	ER			RIANCE G	RANTED
OWNER A		SS					CITY				114 STATE		ZIP CODE	<u>.</u>		DNR Yes. Attac	h a copy or
1901 C			ve.					Louis			MO	- 1	63166		pro/	ide numb	er of variance.
SITE NAME				,			1 20.	L/4/10	CONTAC		1710	!_	03100				<u> </u>
Labadie			lant		,				Paul P	ike				-		1	
SITE ADDR			Dian	ן בתג	40 t Di	· (45			CITY	•				ATE	1	ODE	
226 Lat	DUSI	e Pow	er Pian	it Ka., iv	IC LBI)-043		OF POTEN	Labad	ie		- 1	MONITORII		630	155 ALL THAT AP	DI V\
☐ Gas N	Moni	toring \	Well	☐ Moni	toring				s Material	ı 🛛 L	andfill.				-		Products Only
☐ Extra	ction	ı Weli		☑ Piezo	ometers		│ □ Ini	itial Site	Assessm	_	.U.S.T.	}	☐ Explo			/letals	□ voc
						<u> </u>	□ w	ater Lev	el Drawd	own			Svoc			esticides/l	_
AREA		ounty rankli			VATION 465'		T			SI	MALLES	_	LA	RGEST			
LOCATION			<u></u>		103		-				1/4 _		% N	√W	14		
Lat. 38		_ • ;	33	' _38N	·'	, -	Se	ection 17	7	Township						2 🛛 Eas	st 🔲 West
Long. 90			48	<u>' 40V</u>	V	"	<u> </u>										
TYPE OF			Above 0	Ground		CTIVE C	ASING	DIAMETE PROTEC	R OF TIVE CASIN	G THE HOL	R AND DE	CTIVE		rective Ng		iteel	LOCKING CAP?
SURFACE COMPLET		1	Flush M							CASING	WAS PLAC	CED	MATE			luminum	⊠ Yes □ No
WEEP HOL			D CAP?		OF FLUSH	ft.			in.	14 in.			PV	<u> </u>	⊠P	lastic	□ 140
WEEP HOLI		VENTEL	1	MOUNT	OF PLUG		METER OF UNT	F FLUON		ER AND DEPTH LUSH MOUNT V		ED	SURFAC		⊠ Co	ncrete	_
□ No	- 1	□ No			£	.				_		-,	GROUT	TION	□ Ot	her	
		IGTH	DIAMET	FR WE	ft EIGHT		TER OF	ft.		in.		ft.		LENGT		MATERIAL	
1	1				SDR#	DRILL				nermoplastic	(PVC)		NTONITE	SEAL	HUF	MATERIAL Slurry	
RISER	28	ff.	4 in.	40)	0.85	4	Ott		Minisp	`` <u>`</u>	SE/	AL	3 ft.			iar □Chips
PIPE DETAIL	GLU					0.00			TER PAC	<u>—</u>			I DEI	PTH	FC		DESCRIPTION
]	Π.	Yes	i	⊠ Satu	rated Z	nne [ydrated 🛛 Y		ulo.	FROM	TO	士一	J. 1	<u> </u>
	_ ⊠≀			☐ Both					☐ Yes i	-	с э <u></u> .	VU.	0	25			Very Fine &
	1 1	ENGTH		DEPTH TO						Y FILTER PACE	' I FNGTH		٦, ١	25	Fin	e Sand	•
PRIMARY FILTER			1		• • •	• • • • • • • • • • • • • • • • • • • •	• • • -		V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\ latarva		25	35			ine, Medium
PACK		13.2 f	ft			21.6	ft.			1.5	ft.		ļ		l & C	Coarse Sa	nd; Gravel
	D	☑ Bent	tonite SI	ипу		Cem	ent/Ben	tonite S	lurry	LENGTH			1				
ANNULAR	۱ ر	□Non	Slurry E	entonite					•	1			1		1		
SEAL			•			-	Bentoni						1				
										17.1	ft.		[
	LE	NGTH	DIA	METER	DIAMET		DEPTH TO		gaı.				4				
WELL					OF DRI	LL	TOP OF SCREEN		Steel	MATERIAL Thermopia	estic (P)	/C)	┨				
SCREEN	10		1	••	l				Other_	M Homop.	aout (i	,,,	i j				
-4:Hiplo C	10		4"		10.3 i		24.5 ft.				····	_	i j				
Multiple Ca				s 🛭 No						ation ☐ Ye			4				
size of all								truction	details	including ty	/pe and	l	TD.			•	
STATIC WAT	TER LE	EVEL	1	1/1	<u> </u>			L DRILLIN	G WAS CO	MPLETED			TD: 35ft				
			SUMNG P				11/12										
SIGNATURE		VARY CO	MIBACIE	尔) 一			PERMIT NU 2876M	JMBER					1				
I haraby o	7	has	the moi	-i4a-ina	!! boı				-44-	••							
the Depar	tme	nt of N	atural F	nicornig i Resource	wen ner es requi	remen remen	scribeu ts for th	was co e consi	nstructed truction o	d in accord of monitorin	ance wi Ia wells	th					
SIGNATURE	Ø€Ū	L DRILLE	(R)	7	1	PERMIT	NUMBER	DATE	/	,	· · · · · · ·	•	1				
		M	ik	<u> </u>		2836		<u> </u>	11/20	2/09							
SIGNATURE (APPR	(ENTICE))			PERMIT	NUMBER	DATE					TOTAL	_ DEP	TH:		
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OFFICE USE ONLY REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
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			RTIFIC				D	ENTER					APPI	ROVED BY		ATE .	ROUTE	
INFOR	MA'	TION :	SUPPL	IED BY	PRIM	ARY C	ONTRA	Ph1	Ph2 OR DR	<u> </u>	Ph3	ITRA	CTO	P			a vi	
OWNER N	AME	angere e e	**************************************						ONDIN	احاطا	140.001	WELL	NUMBI	R ER	Burtley (1)		RIANCE G	
Ameren	ì										l			116			DNR	MAINTED
OWNER AL				•			CITY					STATE		ZIP CODE		10,	Yes. Attac	h a copy or
1901 C		teau A	lve.				St.	Louis			ļ	МО	- 1	63166		prov	vide numb	er of variance.
SITE NAME Labadie		wer P	lant						Paul P		ME							
SITE ADDR				_					CITY					STA	ATE	ZIPC	CODE	
226 Lat				t Rd., I	MC LB	D-645			Labad	ie				M	0	630)55	
PROPOSEI							I		TIAL SITE				T			CHECK	ALL THAT AP	
Gas N		-		☐ Mon	•		. —		s Material	-	🛭 Laı		ı	□ Radio	nuclide	s 🔲 P	etroleum I	Products Only
☐ Extra	ctior	1 Well		⊠ Piez	ometers	3	l		Assessmel Drawde		□ L.U	J.S.T.		☐ Explos			/letals Pesticides/l	☐ VOC Herbicides
AREA		OUNTY rankli			EVATION 465'						SMA	ALLES"	Γ '		RGEST		03401063/1	Terbroades
LOCATION	1		ш	1 (4)	403		-					1/4		% N	JW	1/.		
Lat. 38		•	33	' _34	,		Se	ection 17	,	Tow	 nship4			^ -		_	2. ⊠ Fas	st 🔲 West
Long. 90		-	49	' 23.		n											_~	
TYPE OF	_		Above (Ground	PROT	TH OF ECTIVE (ASING	DIAMETE PROTEC	R OF TIVE CASIN	IG	DIAMETER THE HOLE	PROTE	CTIVE		FECTIVE NG	⊠s	Steel	LOCKING CAP?
SURFACE COMPLET		1 -	Flush M								CASING W	AS PLA	CED	MATE	ERIAL		Numinum	⊠ Yes
WEEP HOL	E0 1		D CAP?		5 1 OF FLUS	ft.		42	κ4 in.			2 ft.				P	Plastic	□ No
WEEP HOL	=	VENTE		MOUNT			AMETER OF	F FLUSH			ND DEPTH O		ED	SURFAC		⊠ Co	oncrete	-
□ No														COMPLE GROUT	TION		her	
		IGTH	DIAMET	ren Lu		ft.		ft.	<u> </u>	in.			ft.					-
	LEI	МОІП	DIAME		ÆIGHT R SDR#		TER OF	MATERI		ha	oplastic (F	D.(O)	BEN	ITONITE	LENGT SEAL	HOF	MATERIAL	
RISER	28	4	2 in.	4	0	١, ,,	. ~			Henni	opiastic (i	PVC)	SEA		2 44		Slurry	
PIPE DETAIL		JED	2 m.			0.69			er TER PAC						3 ft.			ılar
		Yes		⊠ cat	uratad '									FROM	PTH TO	FC	DRMATION	DESCRIPTION
l	_	No			h Zones				Cone Hy ☐ Yes		ted 🛛 Ye	s 📙 i	NO	0	25	\neg	ry Fine a	nd Fine Sand,
		LENGTH												₫.			y and Sil	
PRIMARY FILTER	'	LENGIA		DEPIR	10 102 0	r PRIMA	RYFILIER	PACK	SECONDAR	RY FIL	TER PACK L	.ENGTH	l	25	30		•	i Fine Sand,
PACK	Ì	13.5	ft.			21.5	ft.				1.7	ft.					t, and Cla	•
	1		tonite S	lurry			ment/Ber	ntonite S	lurry	LEN	NGTH	74		30	35			Gravel, Trace
ANNULAR	- [•	•			gs of Cen		•						 	Cla	ıy Balls a	nd Silt
SEAL] '		oluriy t	Jen Konnik	s i ype													
							of Benton			16	Q	ft.						
	Ц.						ter Used		gal.	10		14.						
WELL	LE	NGTH	DIA	METER	OF D		DEPTH TO TOP OF		104 6		TERIAL			1				
SCREEN					HOLE		SCREEN	1 -		ZJ II	nermoplas	stic (P	VC)			1		
11.00) ft.	2"		8.25		24.7 ft.		Other _	_								
Multiple C				s 🛭 N						_	¹ ☐ Yes			.				
Submit a size of al	l ca	ısing, I	as built hole dia	diagrai meters	ms sho and g	wing w rout us	vell cons ed.	struction	n details	incl	uding typ	e and	t					
STATIC WAT NA FEET I			JRING PO	INT			DATE WEI 9-29	LL DRILLIN	IG WAS CO	MPLE	TED			TD:				
SIGNATURE	4	7 / / /	//				PERMIT N	UMBER	···-					35ft				
1/hh	m	//1/	wh				2876M	[
I hereby o	ert	fy that	the mo	nitoring	well h	erein d	escribed	was co	nstructe	ed in	accorda	nce w	ith]				
the Depar	tme	DRILL	vatural .ER)	Kesour	ces req		nts for t			of m	onitoring	wells	3.]				
	4	1M	13 11	be s.	İ	2836		50,15	10-1	اکر -	09		÷			1		
SIGNATURE	(APF	RENTIC	E)				T NUMBER	DATE						TOTA	I DEC	TH.		
		_ <i>V</i>												IJIA	- <i>D</i> EF	17.		,



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STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

					ON RE		D	ENTER			Photos Control	APPI	ROVED BY		ATE	ROUTE	<u> </u>
INFOR	VA.	TION S	SUPPL	IFD F	RY PRIM	ARY C	ONTRA	Ph1	Ph2	Ph3 ILLING CO	MTDA	CTO			and the second		
OWNER N	AME		,,, <u> </u>	يا جادا	2.1.84 (X)191	م∵اريت	ONLIV	io i on	CNUN	ILLING CO	WELL				110	ANCE C	RANTED
Ameren	1												116	3	BYD		KANIED
OWNER AL	DDRE	SS					CITY				STATE	т.	ZIP CODE	<u>- </u>		es. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis			MO	ļ	63166		provid	dmun ét	er of variance.
SITE NAME Labadie		wer Pi	lant						Paul P								
SITE ADDR						· .			СПҮ				ST	ATE	ZIP CO	DE	
226 Lab	oadi	e Pow	er Plan	t Rd.	, MC LB	D-645			Labad	ie			М		6305	5	
PROPOSEI							1		ITIAL SITE				MONITORII				
☐ Gas N					onitoring	_	, —		s Materia		andfill						Products Only
	GUUI	i vveii		וא בו	ezometers	•	1		Assessm el Drawd		U.S.T.	ĺ	☐ Explo		⊠ Me		□ voc
AREA	С	OUNTY			ELEVATION	<u> </u>	1 - 1	ater Lev	ei Diawu		MALLES		SVOC	RGEST	Pe	sticides/i	Herbicides
1		rankli	n		@465'		_]										
LOCATION							1 _	16	•				% N		_		
Lat. 38 Long. 90		`.	33 <u> </u>	_ , -3		, ,	Se	ction 1	/	Township	44 No	orth		ı	Range _2	∶⊠ Eas	st 🗌 West
TYPE OF		121	Above C	2roum	LENG [*]	TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN	DIAMETE G THE HOL				TECTIVE	⊠ Ste	eel	LOCKING CAPT
SURFACE					۱ ا					CASING V				ERIAL	_	ıminum	⊠ Yes
_			Flush M	ount	5	ft.		4:	x4 in.	12 in.	2 ft.				☐ Pla		□ No
WEEP HOLI	E?		D CAP?	LENG	TH OF FLUS		AMETER OF	FLUSH	DIAMET	ER AND DEPTH LUSH MOUNT W	OF THE	<u> </u>	SURFAC	Ε	⊠ Con	oroto	
⊠ Yes	J	⊠ Ye				"	,,,,,,		, note a	LOSIT WOONT V	AS PLAC	EU	COMPLE				
□ No		□ No)			ft.		ft.		in.		ft.	GROUT		☐ Othe	er	_
.	LEN	NGTH	DIAMET	ER	WEIGHT OR SDR#		TER OF HOLE	MATER	· · · · ·		-	OEN	ITONITE	LENGT SEAL	- 1	MATERIAL	_
RISER				ľ	40	i				nermoplastic	(PVC)	SEA		ļ		Slurry	
PIPE	28		2 in.		40	0.69			ner					3 ft.		Granu	ular Chips
DETAIL		JED							LTER PAC					PTH	FOF	MATION	DESCRIPTION
	_	Yes								ydrated 🛭 Y	es 🔲 I	No	FROM 0	14	┥		
	M	No			oth Zones				☐ Yes				ľ	1 4	Very	/ Fine S	and, Clay an
PRIMARY	1	ENGTH		DEPT	н то тор о	FPRIMA	RYFILTER	PACK	SECONDAF	Y FILTER PACK	LENGTH		14	30		and Va	ry Fine Sand
FILTER PACK			_										1	i		and Cla	
		13.5 1				21.7	ft.			1.8	ft.		30	35			Fine, Mediun
		⊠ Ben	tonite SI	urry		☐ Cer	nent/Ben	tonite S	lurry	LENGTH							Sand, Trace
ANNULAR SEAL	1	□ Non	Slurry B	Bentor	nite Type	☐ Bag	s of Cem	ent Use	ed				ĺ		Grav	el, Trac	ce Silt and Cl
						□ % o	f Bentoni	ite Used	l						ļ		
						⊠ Wat	ter Used/	Rag 25	nal	16.9	ft.						
	LE	NGTH	DIA	METER		TER	DEPTH TO		gui.	MATERIAL			-				
WELL	l		1		OF DI HOLE		TOP OF SCREEN	F	Steel	MATERIAL ☑ Thermopla	stic (P	VC)					
SCREEN	10	O ft.	2"	ft.	8.25	in.	24.9 ft.		Other _		(*	-,	<u> </u>				
Multiple C								talled fo	r Remedi	ation	s		1 1				•
Submit a	ddi	tional a	as built	diagr	ams sho	wing w	ell cons	truction	n details	including ty	pe and	<u> </u>			İ		
size of al	I ca	ising, h	ole dia	mete	rs and g	out us	ed.										
STATIC WAT NA FEET I				[]				L DRILLIN	IG WAS CO	MPLETED			TD:		ł		
SIGNATURE							9-29 PERMIT NI	IMPED					35ft				
	1	11/6					2876M										
I hereby d	ert	fy that	the mo	nitori	ng well h	erein d	escribed	was co	nstructe	d in accord	ance w	ith	1 1				
the Depar	tme	ent of N	latural F	Respi	ırces req	uireme	nts for th	e cons	truction	of monitorin	g wells	B]				
SIGNATURE		LYDRILLI	ER)	<u>/</u> /			NUMBER	DATE		> aO]		1		
SIGNATURE	APF	RENTICE	71L	درر	-	2836	NUMBER	DATE	10-1	2-09					<u></u>		
		0	••						-				TOTA	L DEF	TH:		
NO 700 444E	100				ETED FOR												



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

	_				i WELL ON RE	_	D	ENTER	ED		- A	APPI	ROVED BY	D	ATE	ROUTE	
MEOR	MA.							Ph1	Ph2	Ph3 ILLING COI					1/2 / J/A		
OWNER N	AME	I IVITA	OUFFL	IEU D	I P IVIIVI	ARIL	ONIKA	MIUN	OK DKI	LLING CU	NTRA WELL			1.00 167	1) (4	SIAMOF C	
Amerer	a												20			ARIANCE G 'DNR	RANTED
OWNER A		SS					CITY				STATE		ZIP CODE		\neg	Yes. Attac	h a copy or
1901 C		teau A	ve.				St. J	Louis	CONTACT	TNAME	МО		63166		pro	vide numb	er of variance.
Labadie	e Po		lant				·		Paul Pi						<u></u>		
			Dlan	+ D A	MC LB	D 645		-	CITY Labadi	•		***	1	ATE	1	CODE	
PROPOSE	D US	E OF WE	LL	l Nu.,	IVIC LL.	レ -0+シ		OF POTEN	Labadi	<u>ie</u>		\dashv	MONITORIN			055 ALL THAT AF	DDI VI
☐ Gas N	Vlon	itoring ¹	Well	☐ Mo	nitoring		1		Material	⊠ La	andfill			•	•		Products Only
☐ Extrac	ctior	ı Well		⊠ Pie	zometers	i	1		Assessme el Drawdo	_	U.S.T.		☐ Explos	sives	区 (Metals	☐ VOC Herbicides
AREA	- 1	OUNTY			LEVATION		+	Ato: 20.	<u> </u>		ALLEST	- '		RGEST		- 65 uCiudoi	Heinidaes
1 LOCATION		rankli VELL	n		<u> 2</u> 465'		-				1/4		% N				
Lat. 38 Long. 90		°,	33 <u> </u>	36	3		Se	ction 17	' 1	Township4					_	_2 ⊠ Ea	st 🔲 West
					LENGT			DIAMETE		DIAMETER				TECTIVE		Ot- al	LOCKING CAP?
TYPE OF SURFACE	=		Above (PROTE	CTIVE C	ASING	PROTECT	TIVE CASING	G THE HOLE CASING W	PROTE	CTIVE	CASII			Steel Aluminum	⊠ Yes
COMPLET	LION		Flush M	ount	5	ft.		6	i.			 -		TAIME		Aluminum Plastic	☐ No
WEEP HOLE	E?	VENTE	D CAP?		H OF FLUS	H DIA	METER OF			ER AND DEPTH							<u>L</u>
Yes		⊠ Ye	s	MOUNT	Г	MOI	UNT			USH MOUNT W		ED	SURFAC COMPLE		⊠ C	oncrete	
☐ No	- 1	☐ No	•		1	ft.		ft.	İ	in,		ft.	GROUT			ther	_
	LEN	NGTH	DIAMET		WEIGHT	DIAME	TER OF	MATERIA	AL.	71.14			<u> </u>	LENGT	H OF	MATERIAL	
.]		İ			OR SDR#	DRILLI	HOLE	☐ Ste	el 🛭 Th	ermoplastic ((PVC)	BEN	ITONITE	SEAL	•	⊠Siurry	
RISER PIPE	28	ft	4 in.	1_4	40	0.85	ft.	☐ Oth		•		うたへ	۱L	3 ft.			ular
DETAIL	GLL	JED							TER PACE	<u>-</u> к			DE	PTH	F		DESCRIPTION
		Yes		⊠ Sa	turated Z					/drated ⊠ Ye	1 20	<u></u>	FROM	то			
	\boxtimes	No			th Zones				☐ Yes [~ _	•	0	9	Ci	ay & Silt	
SSIMARY	7.	ENGTH								Y FILTER PACK I	ENGTH		┨╷			-	
PRIMARY FILTER			1	-		• -	•••-	.,_	,	7 I ffeet markey	LLI V.		9	27	Fir	ne Sand	*
PACK		13.6 1	ft			21.3	ft.	_		1.6	ft.				1		
	T	⊠ Ben	tonite SI	urry		☐ Cem	nent/Ben	tonite SI	urry	LENGTH			27	35		0 - m.	_
ANNULAR	. _			•	te Type			2.5	٠ ١				1"	35	Co	oarse Sand	i
SEAL	-		O.G.,	,						1			l				
							f Bentoni			16.7	ft.		l j				
	냐		T. DIAI				er Used/l		gal.	10.7	16.]				
WELL	LE	NGTH	DIA	METER	OF DR	HLL	DEPTH TO TOP OF			MATERIAL]				
SCREEN	1	-			HOLE		SCREEN	i .		Thermopla	stic (P\	/C)]	ı			
) ft.	4"		10.3		24.6 ft.		Other]				
Multiple Ca	_			s 🛛 N						ation Yes]				
size of all	l ca	sing, h	as built iole dia	diagra me <u>ters</u>	ms shov s and gr	ving we	ell const ed.	truction	details i	including typ	pe and	J	TD: 35ft				
STATIC WATE			1					L DRILLING	G WAS COM	APLETED							
NA FEET F							10-22	 _]				
SIGNATURE	Pro	ACCOUNT	MARKET	JR)			PERMIT NU 2876M	JMBER									
I hereby co	/_/ erti	that	the mo	nitorin	a well he			was co	netructer	d in accorda	nce wi	484					
the Depart	tme	nt of N	atural F	(esour	ces requ	iremen	ts for th	e const	ruction o	of monitoring	wells	.					
SIGNATURE	NY.	DRILLE	R) \ /			PERMIT	NUMBER	DATE									}
SIGNATURE (MI	M			2836			- 26-0	19							
SIGNATURE (AFF	THE PARTY INC.	:)		İ	PERMIT	NUMBER	DATE]	TOTAL	L DEP	TH:		
MO 700 444E					TED COD							i i					,



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	С	ER	ΓIFIC	CATIO	N RE	COR	D	27550050000	STATE OF THE STATE OF THE	14 8 8 3 3	Ph3	10.00		ROVED BY		DATE	工程以外	
INFOR OWNER N	MATIO	N SL	JPPL	IED BY	PRIM	ARY C	ONTR	ACTO	OR DE	SILL	ING CO	NTRA	CTC	R	12 of 300			
Amere												22		ZZ			RIANCE G	RANTED
OWNER A	DDRESS			_			CITY	,				STATE		ZIP CODE		\dashv	Yes. Attac	h a copy or
1901 C		ı Av	e				St.	Louis				МО		63166		pro	vide numb	er of variance.
Labadie SITE ADDE	e Power	r Pla	nt						Paul I									
		ower	Plan	ıt Rd., M	CIE	D_645			Labac	1:_					TATE	i	CODE	
PROPOSE	D USE OF	WELL		it 100., 14	IC LL	D-043		OF POTE	VTIAL SITE			-	1		MO RING FOR	(CHECK	ALL THAT AF	PLY)
Gas		-		☐ Monit	_		1		s Materia			andfill						Products Only
☐ Extra	ction We)II		☑ Piezo	meter	5			Assessn			U.S.T.		☐ Expl	•		Metals Pesticides/i	☐ VOC
AREA	Fran				VATION 165'							IALLEST	Γ		ARGEST			101010100
LOCATION				1 66	105		-					_¼ _		¼	NW_	1/4		
Lat. 38_ Long. 90		° 33	18	', _35N ' 59V	/	" "	Se	ection 1	7	Tow	vnship4	44 No	rth				_2 🛭 Eas	st 🗌 West
TYPE OF		⊠ At	ove C	Ground		TH OF ECTIVE C	ASING	DIAMETI	R OF TIVE CASIN	vG	DIAMETER THE HOLE				OTECTIVE	Ø:	Steel	LOCKING CAP?
SURFACE COMPLET	:]		ush M				İ				CASING W	AS PLAC	CED		TERIAL	_	Aluminum	⊠ Yes □ No
WEEP HOL	E? VEN	ITED C	AP?	LENGTH	5 OF FLUS		METER O	4 F ELUSH	x4 in.	TER A	12 in. ND DEPTH (F	Plastic	
Yes	⊠	Yes		MOUNT		MC	UNT		HOLE F	LUSH	MOUNT W	AS PLAC	ED	SURFA		⊠c	oncrete	
□ No		No				ft.		ft.		in	•		ft.	GROUT			ther	
	LENGTH	1	DIAMET		IGHT SDR#	DIAME	TER OF HOLE	MATER			-		251	ITONITE	LENG	TH OF	MATERIAL	
RISER	28 ft.	1,	١	40	1					hem	roplastic ((PVC)	SEA	NTONITE AL	ŀ		⊠Slurry	
PIPE DETAIL	28 π.		in.			0.69		Ot	ner	<u></u>				1 5	3 ft.	1		lar □Chips
	☐ Yes		ļ	⊠ Satu	rated 2	one l				_	ted 🔲 Ye		Ja	FROM	EPTH TO	F	ORMATION	DESCRIPTION
	⊠ No		ļ	☐ Both					_ Yes			\$S □ 1	NO	0	10	Sil	t/Clay/VI	Sand
PRIMARY	LENG	тн		DEPTH TO	TOPO						TER PACK	LENGTH		10 13	13		ey Clay/S	ilt
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- 1 AOR	13.8			 -		21.4	ft.			Lie	1.3 NGTH	ft.		1			arse sand	
ANNULAR			ite Sl	•			nent/Ber		•		NGIR			1				
SEAL		on Si	urry B	entonite		_												
							f Benton			17	7 1	ft.		ľ	1	1		
	LENGTH		DIA	METER	DIAME		DEPTH TO		gal.			10.		4				
WELL SCREEN					OF DE	RILL	TOP OF SCREEN		Steel (TERIAL hermopla:	stic (PV	/C)	1				
SCREEN	10 ft.		2"	ft.	8.25	in.	24.9 ft.		Other_		_		-,	İ	1			
Multiple Ca		ells [s 🖾 No				talled fo	r Remedi	iatior	T ☐ Yes			TD: 35ft				
Submit a	dditiona	ıl as	built (diagram	s sho	wing w	ell cons							3311				
SIZE OF ALL	casing	, hol	e dia	meters a	and gr	out use	ed.							ļ	}			
NI FEET FR			PON	Į			DATE WEL 11/14	L DRILLIN	IG WAS CO	MPLE	TED							
SICHATIVE	PRIVATO	PONT	Ryloto	PR)			PERMIT NO	JMBER										
hereby &	ertile th	at the	mor	nitorina v	vell he		2876M	was co	netructo	d in	accorda	200 144	4 h	i				
the Depart	tment, o	f Nati	ural R	esource	s requ	iremen	ts for th	e cons	truction	of m	onitoring	wells.		1	1			
SIGNATURE	MARIA DRI	LLER) Maj	,]			2836	NUMBER	DATE	11/0/11	00)							
SIGNATURE (APPRENT	(E)	Œ	~			NUMBER	DATE	1 - /		·			TOTA	L DEF	TH.		· · · · · · · · · · · · · · · · · · ·
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INFOR OWNER N	MAT	ON S	SUPPL	.IED	BY PRIM	/ARY	CONTR	ACTO	ROR DE	RILL	NG COI	NTRA	CTC)R				
Amere												WELL	NUME	ER				RANTED
OWNER A		s					CIT	Υ				24 STATE		ZIP CODE			DNR Yes. Attac	h a copy or
1901 C		au A	ve.				St.	Louis				МО	- 1	63166		prov	vide numb	er of variance.
SITE NAM	_					-			CONTAC		ME							
Labadi		ver P	lant						Paul I	Pike				1 5-				
226 La	badie	Pow	er Plar	ıt Rd	l., MC LI	3D-64	5		Labad	lie				M	ATE	630	ODE	
PROPOSE	D USE	OF WE	ഥ					OF POTE	NTIAL SITE								ALL THAT AF	PPLY)
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AREA	1	UNTY		Ţ	ELEVATION		<u> </u>	rater Le	vel Drawd	own		ALLES		SVOC	S RGEST		esticides/	Herbicides
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TYPE OF		N	Above (Grouir	LENG PRO	TH OF	CASING	DIAMETE	ER OF	VG.	DIAMETER THE HOLE	AND DI	EPTH		TECTIVE	⊠ s	iteel	LOCKING CAP?
SURFACE COMPLET			Flush M						TIVE CAOM	"	CASING W	AS PLA	CED		NG ERIAL		luminum	
					_ 5				x4 in.		12 in. 2	2 ft.					lastic	□ No
WEEP HOL		YENTE	CAP?	MOL	GTH OF FLU JNT		IAMETER O	F FLUSH	DIAMET HOLE F	TER AN	ND DEPTH C	OF THE	ED.	SURFAC		⊠ Co	ncrete	·
□ No	1 "	⊒ No												GROUT	TION		her	
	LENG		DIAMET	FR	WEIGHT	ft.	ETER OF	ft.		in.			ft.		1			
					OR SDR#		L HOLE		eel 🖾 Ti	herm	oplastic (I	PVC)		NTONITE	LENGT SEAL	H OF	MATERIAL Solution	
RISER	28 ft	. 1	2 in.		40	0.69) ft.	□ Ot			-p	,,,	SEA	NL	3 ft.		1	lar Chips
DETAIL	GLUE	<u> </u>							LTER PAC	CK	-			DE	PTH	FC		DESCRIPTION
	□ Ye	es		⊠ :	Saturated	Zone	☐ Unsa	turated 2	Zone H	lydrat	ed 🛛 Ye	s 🔲 1	Vo.	FROM	ТО			
	⊠ N∈	0			3oth Zone				☐ Yes			_		0	16			Very Fine
PRIMARY	LEN	NGTH		DEPT	гн то тор с	F PRIMA	RY FILTER	PACK	SECONDAR	RY FILT	TER PACK L	ENGTH		16	25	Sar		T! 0 1
FILTER PACK	١.,													25	35	1	•	Fine Sand ine, Medium
	_	3.3 ft				22	ft.			T 1 F4	1.9	ft.		4				ind; Gravel
ANNULAR			onite SI	-			ment/Ber		=	LEP	IGTH .							,
SEAL		Non S	Slurry B	ento	nite Type	☐ Bag	gs of Cen	nent Us	ed									
						□ % 0	of Benton	ite Used	.		_							
						☑ Wa	ter Used	/Bag 25	gal.	17	.1	ft.]				
WELL	LENG	TH	DIA	METER	OF D		DEPTH TO TOP OF				TERIAL]				
SCREEN					HOLE		SCREEN		Steel [⊠ Th	ermoplas	tic (P\	/C)			ł		
	10 ft		2"		8.25		25 ft.		Other _]				
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Submit ac size of all	dditioi casir	nala: na bo	s built (ale die)	diagi mete	rams sho ers and gi	wing w	vell cons	truction	n details	inclu	iding typ	e and	l	TD:				
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			yking/				11/11									ļ·		
SIGNATURE	RIMA	y cen	VIVACTO	R)			PERMIT NO 2876M											
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ne Depart	tment	øf Na	itural R	esor	irces requ	<u> Jireme</u>	nts for th	was cons	mstructe truction o	of mo	accordan Onitoring	ice wi wells	เท			}		
SIGNATURE	WEYYD 'Z	RILLER	₹)	T		PERMI	NUMBER	DATE		7]				
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SILEON					V Lane	agentique property	and the second		HT2		Ph3	100			3.44	ESSENTIAL PROPERTY.		Committee of the
OWNER N	MAI	ION	SUPPL	JED BY	PRIM	ARY C	ONTR	ACTOR	OR DR		NG CO	NTRA	CTO	R		F152 163		
1												WELL	NUMB	ER		VA	RIANCE G	RANTED
Amerei												126				BY	DNR	
OWNER A							CIT	Y				STATE	1	ZIP COD	Ē			h a copy or
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SITE NAMI									CONTAC		E				-			
Labadie		ver P	lant_						Paul P	Pike								
SITE ADDF	RESS								CITY			_			STATE	ZIP	CODE	
226 Lat	badie	Pow	er Plar	it Rd., N	MC LBI	D-645			Labad	ie				- 1	MO	630	055	
PROPOSEI							1	OF POTEN					T				ALL THAT AF	PPLY)
Gas M			/Vell	☐ Moni	-		🗆 н	azardous	Material	i	🛛 La	ndfill	i	☐ Ra	dionuclid	es 🔲 f	Petroleum	Products Only
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							İΠν	/ater Leve	el Drawd	own			i	•	ocs			Herbicides
AREA		UNTY		1	VATION		1				SM	ALLES	T		LARGEST			. 10.0.0.00
1		ankli	n	@	465'		1											
LOCATION							1					_¼ _		14	NW	¼		
Lat. 38		' _ ° _	33	'351	<u>'</u>	•	S	ection 17	· ·	Town	ship4	44 No	orth			Range	_2 🛭 Ea	st 🔲 West
Long. 90		 -	48_	' 52V		<u>"</u>	<u> </u>											
TYPE OF			Above (Ground	PROTE	H OF CTIVE CA	SING	DIAMETEI PROTECT	R OF IVE CASIN		DIAMETER THE HOLE				ROTECTIVE		Steel	LOCKING CAP?
SURFACE		1			ļ					- 1	CASING W			, -,	ASING ATERIAL		Aluminum	⊠ Yes
COMPLET	ION	⊔	Flush M	tount	5	ft.	- 1	6	in.		ıı in	. 4		P	VC		Plastic	□ No
WEEP HOLI	E?	VENTE	CAP?	LENGTH	OF FLUSH		METER O	F FLUSH			14 in. D DEPTH (<u> </u>
Yes		⊠ Ye	s	MOUNT		MOI					MOUNT WA		ED	SURF		⊠ Co	oncrete	
☐ No		_ □ No												GROU	LETION		thor	
					fl			ft.		_in.			ft.	_			ther	_
	LENG	HIE	DIAMET		EIGHT R SDR#	DIAMET DRILL I	ER OF	MATERIA	_							TH OF	MATERIAL	
DIOTE								☐ Stee	el 🛛 Th	nermo	plastic (PVC)	SEA	ITONITE	SEAL		⊠Siurry	Pellets
RISER PIPE	27 f	t.	4 in.	40	, I	0.85	ft.	Oth	er						3 ft.		☐Granu	ılar 🏻 Chips
DETAIL	GLU	D					SECON	DARY FIL		K				1	DEPTH			DESCRIPTION
1		'es		⊠ Satı	rated 7			turated Z			d M Va			FRO			514111717017	DESCRIPTION
	Ø 1	lo.			Zones							» Ц і	NO.	0	20	Sil	t Clay&	Very Fine
		-						ydrated	-							Saı		vory i me
PRIMARY	"	NGTH	- 1	DEPTH T	O TOP OF	PRIMAR	Y FILTER	PACK S	ECONDAR	Y FILTI	ER PACK I	ENGTH		20	30			Very Fine &
FILTER PACK	1.							İ				•		ł			ne Sand	vay rime &
1701	_ I	3.9 f	i.			20.3	ft.				1.3	ft.		30	35			ind, Medium
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ANNULAR	_	Non	Slurry F	Sentonita				nent Use	-					1	1	~ (Coarse 25	uiu, Gravei
SEAL	-	, , , , , , ,	o.u., _											l	ł			
					[」 % of	Benton	ite Used						İ				
				•	٥	☑ Wate	r Used/	/Bag 25 g	al.	16		ft.		l	1			
	LEN	GTH	DIA	METER	DIAMET	ER I	DEPTH TO		,	MAT	EDIAL			1				
WELL			1		OF DRI		TOP OF SCREEN		Steel 2		ERIAL	etic (P)	/C)	ĺ	1	Ì		
SCREEN	10		1 400	. .		- 1				3 ///	Jimopia.	3 (i)	,,	İ		ł		
	10		4"	ft.	10.3 i	n. / 2	23.8 ft.		Other _		•					- }		
Multiple Ca	ased	Wells	☐ Ye	s 🛛 No		Pı	ımp ins	talled for	Remedia	ation	☐ Yes					ļ		
Submit ac	dditio	nal a	s built	diagram	s show	ing we	II cons	truction	details i	inclu	ding typ	e and			1	ĺ		
size of all	cas	ing, h	ole dia	meters :	and gro	ut use	d.				g typ	o unc	•	TD:	1	1	÷	
STATIC WATE				N			ATE WEL	L DRILLING	WAS CON	MPLET	ED .			35ft		1		
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hereby c	ertify	that t	he mo	nitoring	well her	ein de	scribed	was cor	structed	d in a	ccorda	nce wi	th		1	1		
the Depart	tmen	t of Na	atural F	Resource	s requi	rement	s for th	ne constr	uction o	f mo	nitoring	wells	."					
SIGNATURE (<i>Y</i>	DRILLE	R) 🕨	/		PERMIT	NUMBER	DATE	11/20	7								
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AO 780-1415 (UD-U9)	KE	IUKN C	UMPLET	:U FOR#	10: W	ELLHE/	AD PROTE	CTION S	ECTIO	N. PO. B	OX 25	D. RO	LLA. MC	65402 5	73-368-	2466	



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STATE WELL NUME	ER .	REVENUE NO.		
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OWNER AME American Variance Granted Variance G					CATIC				Ph1	Dh/	Ph3	Cappa and	28		14.7	DATE //	ROUTE	
ARRANGE CRANTED SYDNE 1901 Chouteau Ave. St. Louin Control Plant File Russes 1902 Chouteau Ave. St. Louin Control Plant File Russes 1903 Chouteau Ave. St. Louin Control Plant File Russes 1904 Chouteau Ave. St. Louin Control Plant File Russes 1905 Chouteau Ave. St. Louin Control Plant File Russes 1906 Chouteau Ave. St. Louin Control Plant File Russes 1906 Chouteau Ave. St. Louin Control Plant File Russes 1906 Chouteau Ave. St. Louin Control Plant File Russes 1906 Chouteau Ave. St. Louin Control Plant File Russes 1906 Chouteau Ave. St. Louin Control Plant File Russes 1906 Chouteau Ave. St. Louin Control Plant File Russes 1907 Chouteau Ave. St. Louin Control Plant File Russes Section 17 Township _44 North File Russes Russes Control Plant File Russes Russes Control Plant File Russes Section 17 Township _44 North File Russes Russes Control Plant File Russes Russes Control	INFOR	MA	TION	SUPPL	JED B	PRIN	ARY (CONTR	ACTO	R OR DE	RILLING CO	NTRA	CTC	OR 💮	e de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della comp	, n		
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St. Louis			ESS					CIT	,					717 777				l a a a a a a a a a a a a a a a a a a a
CONTACT NAME CONT				ve														
Labadic Power Plant Rd., MC LBD-645 City Labadic MO Size Adoptes City Labadic MO Size Adoptes City Labadic MO Size Adoptes MO Size Adoptes MO Size Adoptes MO Size Adoptes MO Size Adoptes MO Size Adoptes MO Size Adoptes MO Size Adoptes MO Size Adoptes Mo Monitoring Well Monitoring Well Monitoring Well Monitoring Material Material Material Monitoring Well Monitoring Monitoring Material Monitoring Mo									Louis	CONTA	CT NAME	MO		03100				
2.25 Labadie Power Plant Rd., MC LBD-645 Labadie MO	Labadi	e Po	wer P	lant														
PROPOSED USE OF WELL Gas Monthing Well Monthoring Hazardous Material Landfill Radionuclides Perpreten Products Only Exprisive Monthing Well Propriet Propriet Redionuclides Perpreten Products Only Exprisive Motals VoC Exprisive Motals Voc Voc Voc Voc Voc Voc Voc Voc Voc										CITY	······································			S	TATE	ZIP	CODE	
Gas Monitoring Well	226 La	badi	e Pow	er Plan	nt Rd., 1	MC LE	D-645							N	10	630	055	
Extraction Well Security Plezometers Initial Site Assessment L.U.S.T. Explosives Metals Voc Voc Water Level Drawdown SMALLEST Explosives Metals Voc Pesticides/Herbicides SMALLEST LARGEST LAR					□ Man	lånuln		1										
Water Level Drawdown SWALLEST SVOCS Pesticides/Herbicides	1		-	V V GII									ļ					_
AREA 1 Franklin Q465" SMALLEST LARGEST		001			23 1 102	Ometer	•					.0.8.1.		•				
	AREA	,			EL	VATION			ater Le	vei Diaw		MALLES	<u>_</u>				esticides/	Herbicides
Lat. 38 33 32N Section 17 Township 44 North Range 2 Sest West TYPE OF SURFACE SABOW Ground Flush Mount	_			n	<u>a</u>	465'												
TYPE OF SURFACE Above Ground PROTECTIVE CASING PROTECTIVE C		OF W		00			_			_				¼	NW_	_ 14		
TYPE OF SURFACE Above Ground PROTECTIVE CASING PROTECTIVE C)	— `.	33 49	, _32\ , 32\	}	" "	Se	ection I	′/	Township	44 No	orth			Range	_2 🖾 Ea:	st 🗌 West
SURFACE COMPLETION Flush Mount S. ft. 6 in. 1. 1. 1. 1. 1. 1. 1.						LENG			DIAMET	ER OF	DIAMETER	R AND DE	PTH	OF PRO	TECTIVE			LOCKING CAP?
COMPLETION	SURFACE					PROI	ECTIVE	ASING	PROTEC	TIVE CASIN				0,10				
WENTED CAP7 LENGTH DIAMETER OF FLUSH MOUNT MATERIAL Steel Material Mount Material	COMPLE	TION		Flush M	lount	5	ft		. 6	in	aa in	. #						□ No
LENGTH DIAMETER WEIGHT OR SORW PRILL HOLE Steel Thermoplastic (PVC) SEAL SEAL SITE TOTAL DEPTH: COMPLETION Other O		E?					SH Di			DIAMET	ER AND DEPTH	OF THE		SUBEA	<u> </u>			<u> </u>
LENGTH DIAMETER WEIGHT OR SDR# DIAMETER OF SDR# DIAMETER OF SDR# DIAMETER OF SDR# DIAMETER OF SDR# DIAMETER OF SDR# DIAMETER OF SDR# DIAMETER OF SDR# DIAMETER OF SEAL SEAL			_	-	MOONI		MC	JUNI		HOLE	LUSH MOUNT W	'AS PLAC	ED			⊠ Co	oncrete	
RISER PIPE 27 ft. 4 in. 40	∐ No		∐ No		i		ft.		ft.	1	in.		ft.	GROUT			her	_
RISER PIPE DETAIL Column		LEN	IGTH	DIAMET			DIAME	TER OF			<u> </u>			l		TH OF	MATERIAL	
27 ft. 4 in. 40 0.85 ft. Other SECONDARY FILTER PACK DEPTH FORMATION DESCRIPTION	DICER				- 1			HOLE	☐ St	eel 🔯 T	hermoplastic ((PVC)			SEAL		⊠Slurry	Pellets
Yes	PIPE			4 in.		<i></i>	0.85								3 ft.		☐Granu	ilar
PRIMARY FILTER PACK SECONDARY FILTER PACK LENGTH STATE	DETAIL															F	DRMATION	DESCRIPTION
PRIMARY FILTER PACK DEPTH TO TOP OF PRIMARY FILTER PACK SECONDARY FILTER PACK LENGTH S					⊠ Sat	urated 2	one	🔲 Unsat	turated :	Zone H	ydrated 🛛 Ye	es 🔲 t	٧o			┥		
PRIMARY FILTER PACK 3.4 ft. 21.3 ft. 1.8 ft. 31 35 31 35 35 35 35 35		M	No		☐ Boti	Zones	;	If Yes, H	ydrated	☐ Yes	☐ No			1	23			Very Fine &
FILTER PACK 13.4 ft. 21.3 ft. 1.8 ft. 31 35 35 35 35 35 35 35			ENGTH		DEPTH T	O TOP O	PRIMA	Y FILTER	PACK	SECONDAF	RY FILTER PACK	LENGTH	_	1 25	31	1	-	ina Madiana
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ANNULAR SEAL Non Siurry Bentonite Type Bags of Cement Used		_										ft.		31	35			
SEAL Non-Siding Bentonite ype Bags of Cement Used	AAINIIII AD	ı			•						LENGIH							
WELL SCREEN LENGTH		[Non	Slurry E	3entonite	Type	☐ Bag	s of Cerr	nent Us	ed				ŀ		Gra	evel	
WELL SCREEN LENGTH DIAMETER DIAMETER DIAMETER OF DRILL TOP OF SCREEN Screen Steel Thermoplastic (PVC)		ļ					□%0	f Bentoni	ite Used	1	j			l				
WELL SCREEN LENGTH							⊠ Wat	er Used/	Bag 25	gal.	16.5	ft.						
Mole Screen Steel Thermoplastic (PVC)		LEN	IGTH	DIA	METER)	<u> </u>	MATERIAL			1				
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 diagneters and grout used. TD: TATIC WATER LEVEL DATE WELL DRILLING WAS COMPLETED 11/7 TEST FROM MEASORING POWE 11/7 TOTAL DEPTH: MICHAEL DRILLING WAS COMPLETED 11/7 PERMIT NUMBER 2876M PERMIT NUMBER DATE 1/20/09 TOTAL DEPTH:	WELL SCREEN							SCREEN		Steel [stic (P\	/C)	1 .		-		
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 diagneters and grout used. TD: 35ft		10	ft.	4"	ft.	10.3	in.	24.3 ft.	[] Other _						}		
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diagneters and grout used. STATIC WATER LEVEL FEET FROM MEASOFING POWY PERMIT NUMBER 2876M hereby certify that the monitoring well herein described was constructed in accordance with he Department of Natural Resources requirements for the construction of monitoring wells. IGNATURE (APPREMICE) PERMIT NUMBER 2836 DATE TOTAL DEPTH:	Multiple C	ased	Wells	☐ Ye	s 🛛 No		F		talled fo	r Remedi	ation 🗆 Yes					} .		
DATE WELL DRILLING WAS COMPLETED 11/7 DEFINITION OF THE PERMIT NUMBER 2876M PERMIT NUMBER 2876M PERMIT NUMBER 100 OF THE PERMIT NUMBER 100 OF	Submit a	dditi	onal a	s built	diagran	s show	ving w	ell cons						1 :				
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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 DATE 1/20/09 IGNATURE (APPREMICE) PERMIT NUMBER DATE DATE TOTAL DEPTH:				ATTINIC D					L DRILLIN	IG WAS CO	MPLETED					İ		
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IOTAL DEPTH:	SIGNATURE (APPR	ENTICE)	and	-	- 		NUMBER	DATE	173	<i>בעו</i>			TOP		<u></u>		
			<u> </u>						1	_			1	IUTA	L DEP	fH:		



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INFOR	MAT	ION :	SUPPL	IED BY	PRIN	IARY (CONTR	ACTOR	OR DE	RILL	ING CO	NTRA	CTC)R		10 mg/s			
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Amere:		SS					I cm							13	$\overline{\mathcal{O}}$	BY	DNR		
1901 C	hout	eau A	ve.				1	Louis				STATE	- 1	ZIP CODE		pro	Yes. Attac vide numb	ch a copy or er of varianc	:e.
SITE NAM	E						1.50	Louis	CONTAC	CT NA	AME	MO		63166					
Labadio		ver P	lant						Paul I	Pike	·								
226 Lal		Pow	er Plar	nt Rd I	MC LE	3D-64	5		Labac	4ia				i i	ATE		CODE		
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TYPE OF SURFACE			Above (Ground		TH OF ECTIVE (ASING	DIAMETE PROTEC	R OF TIVE CASIN	VG	DIAMETER THE HOLE	AND DI	EPTH CTIVE	OF PRO	TECTIVE	⊠ :	Steel	LOCKING CA	P?
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⊠ Yes		🛛 Ye	s	MOUNT		M	UNT	,	HOLE F	LUSH	MOUNT WA	S PLAC	ED	SURFAC		⊠ c	oncrete		
□ No		□ No		1		ft.		ft.		in	ı.		ft.	GROUT		□ 01	ther	_	
	LENG	TH	DIAMET		EIGHT R SDR#	DIAM	TER OF HOLE	MATERI	_					<u></u>	LENG	TH OF	MATERIAL		
RISER			•	4		i i					noplastic (I	PVC)	BEN	ITONITE L	SEAL		⊠Slurry		
PIPE DETAIL	28 f		2 in.			0.69			er	_				_	3 ft.		☐Gran	ılar □Chips	,
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		Bent	onite Si	iurry		☐ Cer	nent/Ben	tonite S	urry	LE	NGTH			1 ~	33			Fine, Mediu Sand, Grave	
ANNULAR SEAL		Non	Slurry E	3entonite	Туре	□ Вас	s of Cen	nent Use	d		•			1			Course	Janu, Cravi	J1
	Ì					□ % 0	f Benton	ite Used											
				_		⊠ Wa	er Used/	Bag 25	gal.	16	5.9	ft.							
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Submit a size of al	aand I casi	ing, h	is built ole dia	diagran meters	ns sho and aı	wing w out us	ell cons ed.	truction	details	incl	uding typ	e and	ļ						
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NA FEET F							9-30							35ft					
	her		m	l			PERMIT NO 2876M	JMBER											
I hereby c	ertify	that	the mo	nitoring	well h	erein de	scribed	was co	nstructe	d in	accordar	nce wi	th	ľ					
the Depar	tmen	t Qt'N	aturai F	Resourc	es requ	ıiremei	nts for th	e const	ruction	of m	onitoring	wells							
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SIGNATURE	APPRE	NTIPE	, ~~				NUMBER	DATE	-		- 			TOTAL	DEP	TH.		····	\dashv
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INFOR	MA	TION :	SUPPL	IED BY	PRIM	ARY C	ONTR	Ph1 ACTOR	Ph2 OR DR	RILLIN	Ph3 NG COI	NTRA	CTC)R		S. Sept.	1 10	
									<u> </u>		25.55.51	WELL	NUME	IER	egoet agg		RIANCE G	
OWNER A		-88		···-			CITY	, -						132		BY	DNR	
1901 C			ve					Louis				STATE		ZIP CODE		DIC DIC	Yes. Attac ovide numb	ch a copy or er of variance.
SITE NAM		toud 1					ı bı.	Louis	CONTAC	CT NAM	<u> </u> E	МО		63166				- Tarianos
Labadie SITE ADDE			lant						Paul F	Pike								
226 Lal	badi	e Pow	er Plan	nt Rd N	AC LR	D-645			Labad	lia					ATE		CODE	
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AREA		OUNTY			VATION			ator Eov	Ci Diawa	OWIT	SM	ALLES	<u>_</u>	SVOC	RGEST		Pesticides/	Herbicides
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TYPE OF			Above (Ground	LENGT PROTE	H OF CTIVE CA	SING	DIAMETEI	R OF IVE CASIN		DIAMETER THE HOLE				TECTIVE	Ø:	Steel	LOCKING CAP
SURFACE			Flush M		1						CASING W			00.	ERIAL	_	Aluminum	⊠ Yes
MISSERVIOL					5	ft.			4 in.	1	12 in . 2	2 ft.					Plastic	□ No
WEEP HOL	E	VENTER ☑ Ye	D CAP?	MOUNT	OF FLUS	H DIAI MOU	METER OI JNT	F FLUSH	HOLE F	ER AND	DEPTH C	OF THE	ED	SURFAC	E	⊠ c	oncrete	·
□ No	- 1	□ No	i i											COMPLE GROUT	TION			
	LEN	IGTH	DIAMET	ED IW	f EIGHT	t. DIAMET	ED OF	ft.	<u></u>	in.			ft.				ther	
J			DIAME		R SDR#	DRILL H	OLE	MATERIA	AL el⊠Th	homo	olootie (,,,,,,	BEN	TONITE	LENG1	TH OF	MATERIAL	
RISER	28	ft	2 in.	40)	0.691		Oth		Heimo	piasuc (i	PVC)	SEA		2 51		Slurn	/ □Pellets ular □Chips
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Multiple C	_			n. s □ No	8.25		24.7 ft.				<u> </u>							
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Submit a size of al	ı ca:	sing, h	ole dia	meters	and gro	ut use	d.	truction	aetaiis	includ	ding typ	e and		TD: 35ft				
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	1	///	W/W				876M	MOLIK										
l hereby c	ertif	y that	the mo	nitoring	well he	rein des	scribed	was cor	nstructe	d in a	ccordar	nce wi	th					
the Depar	une	n to-tin	aturai k	Resource	s requi	rement	s for th	e consti	ruction o	of mo	nitoring	wells	•					
4/02		M	1.1			рекмп г 2836	-UMBEK	DATE IA-	26-0	30								
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1901 C	hout	eau A	ve.				St.	Louis			MO	- 1	63166				er of variance.
SITE NAMI								· -	CONTACT								
Labadio		ver Pl	ant						Paul Pi	ke					· · · · · · · · · · · · · · · · · · ·		
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PIPE DETAIL	GLUE		1						TER PACK	<u>-</u>	——!		I DE	PTH			DESCRIPTION
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	10		2"		8.25	in.	24.6 ft.		Other						1		÷
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Submit a size of all	dditio	onal a	s built (diagr	ams show	wing we	ell const	ruction	details in	ncluding typ	e and		35ft				
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NI FEET FF	<i>7// /</i>		//	f			1/10										
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AREA	COU	NTY		ELE	VATION		<u> </u>	Vater L	<u>evel</u>	Drawdow		IALLEST		SVO			Pesticides/I	Herbicides
1		nkli	n		465'						SN	IALLES !		LA	ARGEST			
LOCATION						_						_¼ _		¼]				
Lat. 38_ Long. 90			33 <u> </u>	',		<u>"</u> "	S	ection	17_	To	wnship'	44 .No	rth			Range	_2 🛭 Eas	st 🗌 West
TYPE OF				Ower-red	LENG	TH OF	CASING	DIAME	TER (OF E CASING	DIAMETER				TECTIVE	M	Steel	LOCKING CAP?
SURFACE			Above ('''	COTIVE	CASIIVG	FROI	ECIIV	E CASING	CASING W			00	ING ERIAL		Aluminum	⊠ Yes
			Flush M	lount	5	ft.			4x4	in.	12 in.	2 ft.					Plastic	☐ No
WEEP HOL			CAP?	LENGTH MOUNT	OF FLU	SH D	AMETER C	F FLUS	H	DIAMETER	AND DEPTH	OF THE	=n	SURFAC	Έ	M C	oncrete	<u> </u>
⊠ Yes □ No] Ye:] No				"				110221 200	11 1000141 447	NO PLACI		COMPLE				
- 1	LENGT	_				ft.			ft.		٦.		ft.	GROUT			her	
	LENGI	"	DIAMET		EIGHT R SDR#	DIAM	ETER OF L HOLE		ERIAL				BE	NTONITE	LENGT SEAL	TH OF	MATERIAL	_
RISER	27 ft.		2 in.	40)	0.60	۱.۵				moplastic (PVC)	SEA				Slurry	
PIPE DETAIL	GLUED					0.69			Other	ER PACK			_	I DE	3 ft.	٦		lar □Chips
1	☐ Ye	s	Ī	⊠ Satı	rated 2	one					ated 🛛 Ye			FROM	PTH TO		DRMATION	DESCRIPTION
	⊠ No)		☐ Both						Yes 🔲		s П I	10	0	25	Cla	ıv & Silt:	Very Fine &
PRIMARY	LEN	GTH		DEPTH TO	O TOP O						LŢER PACK I	ENGTH		┥			e Sand	, =====================================
FILTER									"		LILKI AOKI	LLINGTH		25	35			ine, Medium
PACK	13	.5 ft				21.25	5 ft.				1.2	ft.		1		&(Coarse Sa	nd; Gravel
	⊠ I	Bento	onite Sk	urry		☐ Ce	ment/Ber	ntonite	Slur	ry L	ENGTH			1				
ANNULAR SEAL	01	Von :	Slurry B	entonite	Туре	☐ Ba	gs of Cer	nent U	lsed .					1				
						□ % c	of Benton	ite Us	ed					ł				
							ter Used				7.1	ft.		ł				
	LENGT	Н	DIAN	METER	DIAM! OF DE	TER	DEPTH TO				ATERIAL			i .			. •	
WELL SCREEN					HOLE		TOP OF SCREEN		□s	teel 🛛 T	hermoplas	stic (PV	(C)	1				
	10 ft.		_ 2" :	ft.	8.25	in.	24.4 ft.	- 1		ther								
Multiple Ca	ased W	/ells	☐ Ye	s 🛭 No			oump Ins	talled	for R	emediatio	n 🗌 Yes			1		1		
Submit a	ddition	al a	s built d	diagram	s sho	ving w	ell cons				luding typ			1				
SIZE OF ALL	Casin	g, ho	ole diar	meters a	and gr	out us						<u>. – </u>		TD:				
			UKING PO	ou#		ľ	10/27	L DRILL	LING V	VAS COMPLI	ETED			35ft				
			ГРАСТО				PERMIT N	UMBER										
1 4	re/	/	In			[.	2876M											
hereby co	ertify ti ment 4	hat t of Na	he mon tural P	nitoring v	vell he	rein d	escribed	was d	cons	tructed in	accordar nonitoring	nce wit	h					
SIGNATURE (WEJA/OF	RILLEF	3) %	1	S requ		NUMBER	DAT		CHON OF IT	ionitoring	wells.						
		n	1 Me	le .		2836			- [[120/03	•		ı	1				
IGNATURE (APPREN	UCE)			7	PERMIT	NUMBER	DAT	E					TOTAL	. DEP	TH:		
AO 780-1415 (06 00)	DET	CUDN C	NIN ETE	0.500													



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OTATE ME CANADORN	
STATE WELL NUMBER	REVENUE NO.
THE RESERVE OF THE PARTY OF THE	
ENTERED	APPROVED BY: DATE ROUTE
Fig. 25 (1997)	

					ON RE		D	ENTER	ED 🐇 🦠		1,744,115		ROVED BY	0	ATE	ROUTE	
INFOR	MA	TION S	SUPPL	IED B	Y PRIN	IARY C	ONTRA	ACTOR	OR DR	Ph3	ONTR	ACTO	OR .	21 % (y)	201-43-5		
OWNERN	IAME									-10	WEL	L NUMI	BER	45071147450		RIANCE G	
Amerei OWNER A		:00					СПУ	,			42		142			DNR	h
1901 C			we					Louis			STA		ZIP CODE		pro	γes. Απας vide numb	h a copy or er of variance.
SITE NAMI	E	wau A	LVO.			<u></u>	DL	Louis	CONTAC	T NAME	MC	<u>, </u>	63166		<u> </u>		
Labadio			lant						Paul F	Pike							
226 Lal			er Plan	t Rd.	MCLE	RD-645			CITY Labad	lie			M.	ATE	630	CODE	
PROPOSE	D US	E OF WE	LL			D 013		OF POTEN	TIAL SITE					_		ALL THAT AP	PLY)
Gas I		•			onitoring				s Materia		Landfill		1		s Petroleum Products Only		
☐ Extra	Ctioi) AAGII		KI Pie	ezometer	S		itial Site 'ater Lev	_	L.U.S.7	•	☐ Explo			vletals Pesticides/I	□ VOC	
AREA 1		ounty rankli			LEVATION						SMALLE	ST:		RGEST		CSTIGIGES/	TOTOLOGES
LOCATION				1 9	<u>@465'</u>	 _	-				%		% N	1W	. 1/4		
	at. 38° 33 29N" ong. 90 ° 49 26W"							ection 17	7	Township			·			_2 🛭 Eas	st 🗌 West
Long. 90					LENG	TH OF	1	DIAMETE			TER AND			ECTIVE	157 6		LOCKING CAP?
SURFACE			Above (I PROI	ECTIVE C	ASING	PROTECT	TIVE CASIN		OLE PROT G WAS PL		E CASII			Steel Numinum	⊠ Yes
COMPLET	IION		Flush M	lount	5	ft.		42	k4 in.	12 in.	2 ft.					Plastic	□ No
WEEP HOL	E?		D CAP?	LENG1 MOUN	TH OF FLU	SH DIA	METER OF	F FLUSH		ER AND DEP LUSH MOUNT			SURFAC	E	⊠ co	oncrete	
⊠ Yes □ No		⊠ Ye								2001111100111	117.01 6		COMPLE	TION			
	LEN	IGTH	DIAMET	FD	WEIGHT	ft.	TER OF	ft.	<u> </u>	in.		ft.				her	
		.0	DIVINIE		OR SDR#	DRILL				hermoplast	ic (PVC)		NTONITE	LENGT SEAL	TH OF	MATERIAL Slurry	
RISER PIPE	28	ft.	2 in.	Į.	40	0.69	ft.	Oth		,	(,	SE	AL	3 ft.		1	lar [Chips
DETAIL	GLU	JED						DARY FIL	TER PAC	K		<u> </u>		РΤΗ	F	DRMATION	DESCRIPTION
		Yes		⊠ Sa	aturated :	Zone (☐ Unsat	Yes 🗌	FROM 0	<u>то</u> 8	┥						
	Ø				oth Zone			-	Yes	□ No			8	32		ay/Silt/SC ne Sand	
PRIMARY	· '	ENGTH	İ	DEPTH	1 TO TOP C	F PRIMAR	Y FILTER	PACK S	SECONDAR	RY FILTER PA	CK LENGT	Ĥ	32	35	- 1	ry Coarse	Sand
FILTER PACK		13.0 f	t.			22.1	ft.			2.	0 ft.					- ,	
	_		tonite SI	urry				ntonite S	lurry	LENGTH	0_16		╣				
ANNULAR	۱ (□Non	Slurry E	Bentoni	ite Type				•	j			1				
SEAL						-		ite Used		-			i i		1		
						_	100	Bag 25		17.1	ft.						
	LE	NGTH	DIA	METER	DIAM OF D	ETER	DEPTH TO	· [MATERIA			┫		1		
WELL Screen	1				HOLE		SCREEN		Steel	∑ Thermo		PVC)]				
	_	ft.	2"		8.25		24.8 ft.		Other _]				ł
	fultiple Cased Wells ☐ Yes ☒ No Submit additional as built diagrams showing									ation 🔲			TD:				
Submit a size of al	ddit I ca	ional a sina. h	is built iole dia	diagra Meten	ams sho a and a	wing w Tout use	ell cons ad	truction	details	including	type ar	ıd	35ft				
STATIC WAT	ERL	EVEL		771	<u> </u>		DATE WEL	L DRILLIN	G WAS CO	MPLETED			1				
NI FEET FF							11/13 PERMIT NO	IMPED .					4				
////			w	2'_	-		2876M										
I hereby c	efti	y that	the mo	nitorin	g well h	erein de	scribed was constructed in accordance with						1				
SIGNATURE	egy <u>e</u> j	DRILLE	R)	kesour /	rces req		its for th	s for the construction of monitoring wells.					1				
Dames 2836								11/20/09									
SIGNATURE)			PERMIT	NUMBER						TOTAL DEPTH:				
MO 700 444E	<u> </u>	o) DE	TUDILO	OMBI E	TED FOR			1					<u> </u>		·		



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

		CEF			ON RI	_	RD	ENTER Ph1	ED Ph2	Ph	41.01944		APPF	ROVED BY	C	DATE	ROUTE	
INFOR	MA	TION S	SUPPL	IED B	Y PRIM	IARY	CONTRA	ACTOR	OR DR	ILLING	CONT	RAC	CTO	R	77777		1-6. 1 20	
OWNER N	AME											ELL N			54 CH-21 C 54 C		RIANCE G	RANTED
OWNER A		SS					CITY	,			ST	ATE		ZIP CODE			∕ DNR ˈ Yes. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis			М	O		63166		pro	ovide numb	er of variance.
SITE NAMI		Tron D	1						Paul F	T NAME						- 	 	-
SITE ADDR			lant			_			CITY	IKC				ST	ATE	ZIP	CODE	· · · · · · · · · · · · · · · · · · ·
226 Lal	badi	e Pow	er Plan	t Rd.,	MC LI	3D-64:			Labad	ie			٠	M			055	
PROPOSE Gas I				Пис	-141			OF POTEN			-			MONITORIN	IG FOR:	(CHECK	ALL THAT AF	
☐ Extra		-			nitoring zometer	s			s Materia Assessm		⊠ Landf □ L.U.S							Products Only
						•			el Drawd		_ ∟.∪.≎			☐ Explos			Metals Pesticides/I	☐ VOC
AREA		OUNTY Tankli		- 1	LEVATION 2465'				_		SMALL	EST			RGEST		1 6546/463/1	ICIDIOGES
LOCATION	OF V	VELL			<i>y</i> 403						3	1/4		¼		1/4		
Lat. 38_ Long. 90		<u> </u>	33 <u> </u>	', _28 ' _16	8.7 6.3 _	" ,	Se	ection 17	<u>'</u>	Townshi						_	2 ⊠ Eas	st 🔲 West
TYPE OF		[X]	Above (Ground		TH OF	CASING	DIAMETE	R OF	DIA	METER AN	D DE	PTH (OF PROT	ECTIVE	Ø	Steel	LOCKING CAP?
SURFACE COMPLET		-	Flush M		'					- ,	ING WAS			MATE			Aluminum	⊠ Yes
WEEP HÖL	<u>=2 1</u>		D CAP?		TH OF FLU				6 in.	12 İ							Plastic	□ No
WEEF HOL	-	⊠ Ye		MOUN			AMÈTER OI OUNT	F FLUSH	HOLE F	ER AND DI LUSH MOU	EPTH OF T INT WAS P	THE LACE	ED	SURFAC		⊠c	oncrete	
☐ No	ł	☐ No				ft.		ft.		in.			_	COMPLE GROUT	IION	□o	ther_	
	LEN	NGTH	DIAMET		WEIGHT	DIAM	ETER OF	MATERI	AL.	111.		Т	ft.		LENG		MATERIAL	
DIOED			i	- 1	OR SDR#	DRILL	L HOLE	☐ Ste	el 🛭 Ti	hermopla	astic (PVC	c)	BEN SEA	TONITE	SEAL		⊠Slurry	
RISER PIPE	28		4 in.	L <u>'</u>	40	0.85			er				-		3 ft.		☐Granu	ılar 🏻 Chips
DETAIL		JED							TER PAC					FROM	TH TO	F	ORMATION	DESCRIPTION
		Yes No					Unsat				⊠ Yes (lo	0	10	\dashv	lt and Clay	
		ENGTH			oth Zone		If Yes, H							10	31			y ry Fine Sand,
PRIMARY FILTER		LINGIII		OEFIN	11010-0	'r rriiw	KI FILIEK	PACK	SECUNDAR	(Y FILTER)	PACK LEN	GTH		 		Si	lt and Clay	y.
PACK		13 ft.				21.7	ft.				1.7 ff	t.		31	35			lium, Fine and
	1	⊠ Beni	tonite SI	urry		☐ Ce	ment/Ben	ntonite S	lurry	LENGTH	1] j				and, Trace Clay Balls
ANNULAR SEAL	: t	□Non	Slurry E	Bentoni	te Type	☐ Ba	gs of Cen	nent Use	:d					j j		0.	avoi and	Jay Daiis
						□%	of Benton	ite Used						ľ				
						⊠ Wa	iter Used/	/Bag 25	gal.	17	ft.			1		1.		
WELL	LE	NGTH	DIA	METER	DIAM OF D	ETER RILL	DEPTH TO	<u> </u>		MATER				!				
SCREEN					HOLE		SCREEN	í	Steel	∑ Them	oplastic	(PV	(C)]]				•
	_) ft.	4"	•••	10.		24.3 ft.		Other _					j				
Multiple C				s ⊠ N			Pump Ins											
Submit a size of al	l ca	ısing, h	as built nole dia	diagra meter:	ims sho s and g	wing v rout us	sed.				ig type :	and						
			SURING)F	TAIO			DATE WEL 9-30	LL DRILLIN	G WAS CO	MPLETED				TD:				
SICKLOURE	_//_						PERMIT N	UMBER						35ft				
///ll	nf T	11/	Tent				2876M											
I hereby of the Depart	erti tnac	fy that Int of N	the mo latural i	nitorin Resour	g well h	erein d uirema	lescribed	ibed was constructed in accordance with or the construction of monitoring wells.										
SIGNATURE	N F	T DEPLY	ER)	-/	<u>/ 4</u>	PERMI	T NUMBER	BER DATE										
SIGNATURE	(Apr	X /	M	M	دد	2836	TNUMBER	10-12-09										
J.O. OTTORE	\-u-1					FERMI	NUMBER	DATE		ŕ			ĺ	TOTAL	_ DEF	TH:		-



OFFICE USE ONLY REF NO:	DATE RECEIVED
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		CEF	RTIFIC	CAT	ION RE	COR	D	ENTER Ph1	ED Ph2		Ph3	Yakit K	APP	ROVED BY	D	ATE	ROUTE	作。
		TION S	SUPPL	IED	BY PRIN	IARY C	ONTRA	CTOR	OR DR	ILLII	NG CO	NTRA		1.0			- 31 Lg 2 Jr 37 J	1985 PR 1995
OWNER N												WELL	_				RIANCE GI DNR	RANTED
Amerer OWNER A		SS				 -	CITY					STATE	14	ZIP CODE				n a copy or
1901 C	hout	teau A	ve.				St. 1	Louis				МО	- }	63166		prov	ide numbe	er of variance.
SITE NAME									CONTAC		1E				*			
Labadie SITE ADDE		wer P	ant	•					Paul P	1Ke	<u></u>	_		1.07		1 7100		
		e Pow	er Plan	ıt Rd	l., MC LE	RD-645			Labad	ie				M	ATE	630		
PROPOSE	D USE	OF WE	LL		, MC 1A	JD-043		F POTEN	TIAL SITE	10							ALL THAT AP	PLY)
Gas I		_			/lonitoring		☐ Ha	zardou	s Material	ı	🛛 La		ļ	☐ Radio	nuclide	s 🗌 P	etroleum f	Products Only
☐ Extra	ction	Weil		⊠P	Piezometer	S			Assessm		□ L.	U.S.T.		Explo:			letals	□ voc
AREA	C	YTAUC		_	ELEVATION	 -	<u> W</u>	ater Lev	el Drawd	own	SM	IALLES	<u> </u>	SVOC	S RGEST		esticides/l	-lerbicides
1		rankli	n		@465'													
LOCATION			, ·= ·						_					% N				
Lat. 38_ Long. 90		_ ° 。	33 49	_', -	29N 10W	<u>"</u> ,	Se	ction 1	7	Towr	nship'	44 No	rth			Range	.2 🛛 Eas	st 🔲 West
TYPE OF		l ⊠	Above (Grour		TH OF ECTIVE C	ASING	DIAMETE	R OF TIVE CASIN		DIAMETER THE HOLE				rective NG	⊠s	iteel	LOCKING CAP?
SURFACE			Flush M		ŀ						CASING W	/AS PLAC	CED		RIAL	_	luminum	⊠ Yes □ No
WEEP HOL	E6	VENTE			_ 5				x4 in.		12 in.					P	lastic	
WEEP HOL	=	VENTE		MOL	GTH OF FLU JNT		METER OF UNT	FLUSH			ID DEPTH MOUNT W		ED	SURFAC		⊠ Co	ncrete	
□ No		□ No				ft.		4		1			eu	GROUT	HUN	☐ Oti	her	
<u> </u>	LEN	GTH	DIAMET	ER	WEIGHT		TER OF	ft.		in.		1	ft.		LENG	TH OF	MATERIAL	
					OR SDR#	DRILL		☐ Ste	el 🖾 Tr	hermo	oplastic ((PVC)		NTONITE	SEAL		⊠Slurry	
RISER PIPE	28	ft.	2 in.		40	0.69	ft.	□ Ott		_			SEA	\ L.	3 ft.		☐Granu	lar
DETAIL	GLU	ED				·	SECON	DARY FI	LTER PAC	К					РТН	FC	RMATION	DESCRIPTION
		Yes		⊠ :	Saturated	Zone [☐ Unsat	urated 2	Zone H	ydrate	ed 🔲 Ye	es 🔲 I	No	FROM 0	TO	-		
	X I	No			Both Zone	s i	f Yes, Hy	/drated	☐ Yes		0			4	4 15	Cla		
PRIMARY	L	ENGTH		DEP	TH TO TOP (F PRIMAR	Y FILTER	PACK	SECONDAR	Y FILT	ER PACK	LENGTH		15	20	ı	Silty Sar -F Sand	10
FILTER PACK														20	35	1	velly Sar	nd
TAOK	_	15.3 1					ft.		<u> </u>	LEN	1.5 IGTH	ft.		4 .				
4 11411111 4 15	- 1			-			nent/Ben		-		10111				-			
ANNULAR SEAL	ַן ר	Non	Slurry E	Bento	nite Type	☐ Bag	s of Cerr	ent Us	ed					1		1		
						□ % o	f Bentoni	ite Usec	·	۱.,	^	_						
						☑ Wat	er Used/	Bag 25	gal.	15.	.0	ft.						
WELL	LEN	NGTH	DIA	METER	R DIAM OF D	ETER RILL	DEPTH TO TOP OF				TERIAL]				
SCREEN					HOLI	•	SCREEN	i -] Steel [⊠ Th	ermopla	stic (P\	VC)	1 1				
	10		2"		8.2	5 in.	24.5 ft.		Other _		-			TD:				
Multiple C									r Remedi					35ft		ł		
Submit a size of al	l cas	sing, h	ıs built ole dig	diag ppete	rams sho ers and g	wing w rout use	ell cons ed.	truction	n details	inclu	ıding ty _l	pe and	i					
STATIC WAT NI FEET FE			NOPOIN	7/			DATE WEL 11/14	L DRILLIN	IG WAS CO	MPLET	ΓED							
SIGNATURE		<i>/ / //</i>					PERMIT N	JMBER						1 !				
		17	w		-		2876M											
the Depar	tme	nt of N	atural F	nitori Reso	ing well h urces rea	erein de uiremer	escribed ats for th	ed was constructed in accordance with the construction of monitoring wells.										
SIGNATURE	N/E/	DRILLE	R)	/			NUMBER	DATE							1			
SIGNATURE	16	M	æ	<u>~</u>		2836	All Danes			09				<u> </u>				
OIUNATURE:	(41-1-1-1	- TUTCE	, 			PERMIT	NUMBER	DATE						TOTAI	L DEF	TH:		



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and the second s	REVENUE NO
The state of the s	
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				CATI				0.4	RED		1000	310	APP	ROVED BY		XTE *	AND REPORTS		
INFOR	MAI	TON	SUPPI	LIED B	Y PRI	MARY	CONTR	ACTO	R OR DE	RILL	ING CO	NTRA	CTC)R	1333	e pro-		fa de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
OWNER	CHIVIE											WELL	NUME	BER	sas Spiele M	VA	RIANCE G	RANTED	
Amere OWNER		SS			<u>-</u> -		. I CIT	y				48 STATE		148			DNR	h a annu a	
1901 C		eau A	Ave.					Louis				MO		63166		pro	Yes. Attac vide numb	n a copy o er of varia	or nce.
SITE NAM	_								CONTA			MO	Щ.	03100					
Labadi SITE ADD		wer P	lant						Paul	Pike									
226 La		e Pov	ver Pla	nt Rđ	MCT	RD-64	5		Labac	4:_					TATE		CODE		
PROPOSE	DUSE	OF WE	ELL.	nt Itu.,	IVIC L	DD-04.	TYPE	OF POTE	NTIAL SITE	11e					IO	630)55 ALL THAT AF	IPI VI	
Gas		-	Well	☐ Mo	_				ıs Materia		🛭 La	ndfili					Petroleum		Only
Extra	ction	Well		⊠ Pie	zomete	rs	1 .		Assessn			J.S.T.		☐ Explo			/letals	□ voc	
AREA	CC	VINU		E	LEVATIO	N	<u> </u>	Vater Le	vel Drawo	dowr		41150		□ svo			esticides/	-lerbicides	<u> </u>
1		rankl	in		<u>)</u> 465'						SM	ALLEST		L	ARGEST				
LOCATION			00			_		4	_			_¼ _		14	NW	_¼			
Lat. 38_ Long. 90		— ř.	33 <u> </u>	', _29 ' 2V	N		S	ection 1	7	Tov	vnship <u>4</u>	l4 No	rth			Range	_2 🛭 Eas	st 🔲 We	est
TYPE OF					LEN	TH OF	24000	DIAMETI	ER OF	1	DIAMETER	AND DE	PTH (OF PRO	TECTIVE	57.0	N. 1	LOCKING	CAP?
SURFACI COMPLE	=			Ground	1	IECTIVE	DASING	PROTEC	TIVE CASIN	NG	THE HOLE CASING W	PROTE(AS PLAC	CTIVE ED		ING ERIAL		Steel Numinum	Yes	
		'	Flush M	/lount	1 5	i ft.		4	x4 in.		12 in. 2	e ft			_		Plastic	□ No	
WEEP HOL			D CAP?	LENGT	H OF FLU		AMETER O	F FLUSH	DIAMET	TER A	ND DEPTH C)F THE		SURFAC	:F			ļ <u>_</u> _	
⊠ Yes □ No		⊠ Ye □ No							, note	LUGI	I MOUNT WA	IS PLACE	יט	COMPLI			oncrete		
	LENG		DIAME	TED IV	VEIGHT	ft.		ft.		in			ft.	GROUT		∐ Ot	her	-	
	LLIN	21 11	DIAME		R SDR#	DRILL	TER OF	MATER		ho	noplastic (F	71 (2)	BEN	ITONITE	LENGT SEAL	H OF	MATERIAL		
RISER	28 f	. I	2 in.	. 4	0	0.69	4			Helli	iopiasuc (i	PVC)	SEA		1		⊠Slurry	_	
PIPE DETAIL	GLUE		2			1 0.05			LTER PAC					I DE	3 ft.			lar □Chi	
i		'es		⊠ Sa	turated	Zone					ted 🔲 Ye			FROM	PTH TO		RMATION	DESCRIPT	ION
Ì	M M	10			h Zone				☐ Yes			s 🗀 i	10	0	5	Cla	y/Silt/SC		
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FILTER														10 25	25 35		-F Sand,	•	
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		Bent	onite SI	iurry		☐ Cer	nent/Ber	ntonite S	lurry	LE	NGTH			1		ł			İ
ANNULAR SEAL] Non	Slurry E	Bentonite	э Туре	☐ Bag	s of Cen	nent Use	ed be					ł					
						□%0	f Benton	ite Used	 					j		1			- 1
	ł					⊠ Wa	er Used/	Bag 25	gal.	17	7.3	ft.							
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	10	ft.	2"	ft.	8.25	in.	24.4 ft.		Other _		_			TD]
Multiple C	ased	Wells	☐ Ye	s 🛛 No)	F	ump Ins	talled for	Remedia	ation	ı ∐ Yes		_	TD: 35ft					
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SIZE OF All	casi	ng, n	ole dia	meters	and g	rout us	ed.												
NI FEET FR			NG OIN	#//			DATE WEL 11/9	L DRILLIN	G WAS CO	MPLE	TED		ı			i			
SIGNATURE	PRINT	B/ CO	MIRACY	A)			PERMIT N	JMBER	-		· _		\dashv						
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hereby o	ertify men	Inat (the mor atural R	nitoring Resourc	well h	erein de	scribed	was co	nstructe	d in	accordan	ce wit	h					•	
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Lat. 38_ Long. 90		- °.	33	', _29 ', _52	N	<u>"</u> "	S	ection	17	Tow	nship'	44 No	rth			Range	_2 🛭 Eas	st 🗌 West
					LENG	TH OF		DIAME	TER OF		DIAMETER				ECTIVE	N (Steel	LOCKING CAP?
TYPE OF SURFACE	Ξ.		Above (PROT	ECTIVE C	ASING	PROTI	ECTIVE CASIN	NG	THE HOLE			CASII MATE			Aluminum	⊠ Yes
COMPLET	TION		Flush M	lount	5	ft.			4x4 in.		12 in.	2 ft.					Plastic	□ No
WEEP HOL	- 1		D CAP?	LENGT	H OF FLU	SH DIA	METER O		H DIAME		ND DEPTH	OF THE		SURFAC	E	N C	oncrete	L., , , , , , , , , , , , , , , , , , ,
⊠ Yes	- 1	⊠ Ye		MOON	ı	"	UNI		HOLE	-LUSH	I MOUNT W	AS PLAC	FD	COMPLE				
□ No		□ No				ft.			ft.	in.	•		ft.	GROUT			ther	<u>-</u>
	LENG	STH :	DIAMET		VEIGHT OR SDR#	DIAME	TER OF HOLE		ERIAL	-1.			REN	TONITE	LENG' SEAL	TH OF	MATERIAL	
RISER	204	.	2 :-		10		_		Steel 🖾 T	nem	oplastic ((PVC)	SEA		2 4		Slurry	
PIPE DETAIL	28 f		2 in.			0.69			Other	<u></u>				T per	3 ft.	 		lar Chips
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	×	Bent	tonite SI	lurry		☐ Cen	nent/Bei	ntonite	Slurry	LE	NGTH							
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i hereby d	ertif	that	the mo	nitorin	well h	erein de	scribed	was	constructe	ed in	accorda	ince w	ith]				
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1901 C		teau A	Ave.				St.	Louis			МО		63166		pro	vide numb	er of variance.
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				Пмо	nitorina				NTIAL SITE S Materia				MONITORI	NG FOR:	(CHECK	ALL THAT AF	
I	Franklin @465' TION OF WELL 38 ° 33 ' 29N" .90							Assessn	_	Landfill L.U.S.T.	J	☐ Radio			Petroleum I Metals	Products Only	
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					LENG	STH OF		DIAMETE	R OF	DIAMET	ER AND D	EPTH	OF T PPO	TECTIVE			LOOKING
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COMPLE	TION		Flush M	lount	1 5	5 ft.		4	k4 in.	12 in .	2 ft.		"	=NAL		Aluminum Plastic	□ No
WEEP HOL					H OF FLL	ISH D	PIAMETER OF	F FLUSH	DIAMET	ER AND DEPTI	OF THE		SURFAC	·E			
⊠ Yes □ No					•	"			HOLEF	LUSH MOUNT V	VAS PLAC	ED	COMPLE			oncrete	
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RISER PIPE	281	ft.	2 in.	4	40	0.69	9 ft.		er	normopiasuo	, (170)	SEA	NL	3 ft.		⊠Slurry □Granu	□Pellets lar □Chips
DETAIL	GLU	ED							TER PAC	K			DE	PTH	F	<u> </u>	DESCRIPTION
				⊠ Sa	turated	Zone	☐ Unsat	turated Z	one H	ydrated 🛛 Y	′es 🔲 I	No	FROM	то	1		
	X	No.		□Во	th Zone	s	If Yes, Hy	ydrated	☐ Yes	□ No			0	10			Very Fine
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size of all	casi	ng, no	ole diar	meters	and g	rout us	ed						TD:				
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ne Depart	well	DRILLER	₹)			PERMIT	NUMBER	DATE	1	1							
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TYPE OF SURFACE	=	-	Above (Ground	PROT	ECTIVE C	ASING	PROTEC	TIVE CASIN	NG .	THE HOLE	PROTE	CTIVE	CASI		XI St		LOCKING CAP? Yes
COMPLET	TION		Flush M	lount	5	ft.	ļ	4	x4 in.			2 ft.		MAIL	ERIAL	L] AI □ PI	uminum aetic	□ No
WEEP HOL	E?		D CAP?	LENG1 MOUN	TH OF FLU	SH DIA	METER OF		DIAMET	TER ANI	DEPTH C	F THE		SURFAC	-			<u> </u>
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□ No		☐ No				ft.		ft.		in.			ft.	GROUT		Oth	er	-
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RISER	28	ft.	2 in.	.	40	0.69	<u>"</u>	☐ Ott		11611110	ipiasiic (i	PVC)	SEA		3 ft.		Slurry	□Pellets lar □Chips
PIPE DETAIL		JED				1 0.02			TER PAC	<u></u>				DF	PTH	FO		DESCRIPTION
		Yes		⊠ Sa	aturated .	Zone [Unsat	urated 2	Zone H	ydrate	ed 🛛 Yes		10	FROM	ТО			DECORUM MON
	\boxtimes	No			oth Zone				☐ Yes					0	25			and, Fine San
PRIMARY	· '	.ENGTH		DEPTH	TO TOP C	F PRIMAF	Y FILTER	PACK	SECONDAF	RY FILT	ER PACK L	ENGTH		25	30		and Clay	
FILTER PACK	ł	13.3 1	.			21.5	•										y rme, r Coarse S	ine, Medium, Sand
	_		tonite SI	LIFD!	···	21.5	ft.			LENG	1.6	ft.	· ·	30	35			ine, Medium,
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							Bentoni			16.9	9	ft.						
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Lat. 38_ Long. 90		۔ ° ،	33 <u> </u>	', _26l	<u>"</u> مر	39	Se	ection 17	7	Townsh	nip <u>4</u> 4	4 No	rth		ı	Range	_2 ⊠ Ea	st 🗌 West
					LENGTI			DIAMETE		DIA	METER	AND DE	PTHC	F PRO	TECTIVE	<u> </u>	Mar. 1	LOCKING CAP?
TYPE OF SURFACE		I	Above (PROTE	TIVE C	ASING	PROTEC	TIVE CASIN	IG TH	E HOLE F SING WA	PROTEC	TIVE	CASI		Z 5	iteel Numinum	⊠ Yes
COMPLET	ΓΙΟΝ	-	Flush M	fount	5	ft.		4:	x4 in.	12	in. 2	ft.					lastic	□ No
WEEP HOL	E?		D CAP?	LENGTH	OF FLUSH	DIA	METER OF	FLUSH	DIAMET	ER AND D	EPTH O	FTHE		SURFAC	E	M Ca	ncrete	l
⊠ Yes □ No		☑ Ye ☐ No				""			I HOLLI	LUSH WU	OINT WAS	5 FLACE	-	COMPLE				
	LEN	GTH	DIAMET	ED LW	ft EIGHT			ft.		in.			ft.	- CINOUI			her	
	LEN	GIN	DIAME		R SDR#	DRILL	TER OF HOLE	MATER	iaL eel ⊠Ti	hemoni	aetic (D	WC)	BEN	TONITE	LENGT SEAL	TH OF	MATERIAL Slurry	
RISER	28	ft.	2 in.	4)	0.69	ft		ner	-	asuo (F	' '',]	SEA	L	3 ft.		1	lar □Chips
PIPE DETAIL	GLU				1	0.02			LTER PAC				-	DE	PTH	FC		DESCRIPTION
		Yes		⊠ Sat	urated Zo	ne [☐ Unsat	urated 2	Zone H	ydrated	⊠ Yes	: □ N	lo	FROM	ТО	_		
	⊠ I	Vo		☐ Bot	n Zones	i	f Yes, H	ydrated	☐ Yes	☐ No				0	20			Very Fine
PRIMARY	L	ENGTH		DEPTH 1	O TOP OF	PRIMAR	Y FILTER	PACK	SECONDAR	RY FILTER	PACK LE	NGTH		20	25	Sar		Very Fine &
FILTER PACK		13.3 f					•										e Sand	vory i nic oc
	+		tonite SI	la arroy e		21.5	ft.	40-10- 0		LENGT	1.2 H	ft.		25	35			ine, Medium
ANNULAR				-			nent/Ben		•							& 0	Coarse Sa	ind; Gravel
SEAL	-	7 14011	Siurry c	entonite	Type [ł								
							Benton			17.3		ft.						
	LEN	IGTH	DIA	METER	DIAMET		DEPTH TO		gal.	<u> </u>				<u>'</u>				
WELL					OF DRII	L L	TOP OF SCREEN		Steel [MATE!	RIAL nonlast	tic (P\	(C)					
SCREEN	10	ft	2"	ft	8.25	,	24.5 ft.	- 1	Other			(
Multiple C	_			s 🖾 No					r Remedi	ation [7 ٧,00							
Submit a												e and				1		
size of all	l cas	ing, h	ole dia	meters	and gro	ut use	d.							TD:				
			SURING P	okt/			DATE WEL 11/9	L DRILLIN	IG WAS CO	MPLETED	Ì			35ft				
SIGNATURE							PERMIT NO	JMBER					┥					
11/1							2876M									l		
l hereby c the Depar	ertif tme:	y that It of N	the moi atural F	nitoring	well her	ein de	scribed	was co	nstructe	d in ac	cordan	ce wi	th			1		
SIGNATURE	XIII	DRILLE	R)	7			NUMBER	DATE	/	7.	เอเเกฎ	wells.						
	42	UN)	us			2836			11/2/11	ون						<u></u>		
SIGNATURE (APPR	ENTOE)			ERMIT	NUMBER	DATE						TOTAL	_ DEF	TH:		
MO 780-1415	(06-09) RE	TURN C	OMPLET	ED FORM	TO: V	VELLHEA	D PROT	ECTION S	SECTION	, PO. BO	OX 250	, ROI	.LA, MO 6	5402 5	73-368-2	2165	



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

		CE	RTIFIC	CATIO	N RE	COR	D		RED Ph2		7 13		PROVED	BY		ROUTE	
INFOR	MĄ	TION !	SUPPL	IED BY	PRIM	ARY C	ONTR	ACTOR	OR DR	ILLING	G CONTR	RACT		Post y	Apren e	ASS TO SEE	
OWNER N	VAME		_						****		WE	ELL NUM		Steps, Fr.		VARIANCE GF	RANTED
Amerei OWNER A		SS					I CITY			.	158 STA	8 TATE	ZIP COI			BY DNR ☐ Yes. Attach	a convor
1901 C			Ave.					. Louis			Me		6316			ו∟ res. Attach provide numbe	
SITE NAME	E								CONTACT				0510,	3			
Labadio			lant						Paul Pi	ike							
1			Dlar	ין גם זיי	4C I E	·D 645	•		CITY	••				STATE		ZIP CODE	
PROPOSE	D US	E OF WE	LL	nt Rd., N	بلد علا	D-043		OF POTEN	Labadi	ie			T MONIT	MO FORING FOR	P· (CHE	63055 ECK ALL THAT APF	oi V \
☐ Gas I		-		☐ Moni	_		1		s Material	1.	Landfil	ăU				Petroleum P	
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AREA	<u>⊤ c</u>	OUNTY		F	EVATION			Vater Lev	el Drawdo	own			□ s\	vocs		Pesticides/H	lerbicides
1	F	rankli		- 1	465'						SMALLE	EST		LARGES	ST.		
LOCATION					<u> </u>		7							NW_	1%		
Lat. 38_ _Long. 90		° .	33 <u> </u>	', _26N 2W		"	S	ection 17	/	Townst	hip <u>4</u> 4	North			Rang	ge _2 🛭 Eas	t 🔲 West
					LENGT			DIAMETE		l Di/	AMETER AND	D DEPTI	OF I	PROTECTIV	/E 5		LOCKING CAP?
TYPE OF SURFACE	E	-	Above (PROTE	ECTIVE C	ASING		TIVE CASING	IG THI	E HOLE PRO	OTECTIV	Æ (CASING MATERIAL	12	⊠ Steel □ Aluminum	☑ Yes
COMPLET	LION		Flush M	lount	5	ft.		4	x4 in.	ŀ			'	WATE		_ Aluminum ☐ Plastic	□ No
WEEP HOL	.E?		D CAP?		OF FLUS	SH DIA		OF FLUSH	DIAMETE	ER AND D	DEPTH OF TH	HE	Tellp	-10E	· r - · ·		
⊠ Yes		⊠ Ye		MOUNT		MO	DUNT		HOLEFU	.USH MOI	OUNT WAS PL	LACED	COM	FACE IPLETION		Concrete	
□ No		□ No	·			ft.		ft.		in.		ft.	GRO	UT		Other	-
	LEN	ŧGTH	DIAMET		EIGHT R SDR#	DIAME DRILL I	TER OF	MATERIA				Т			GTH OF		
RISER		1				1.		1		iermopl	lastic (PVC		NTONIT	1		⊠Slurry	Pellets
PIPE	28		2 in.	40	,	0.69			ner					3 f	t		ar DChips
DETAIL	GLU		1	<u> </u>					LTER PACE				FRC	DEPTH DM TO	\rightarrow	FORMATION D	DESCRIPTION
1	_	Yes	1						-		Yes [□ No	0	12		⊂1 0214 <i>g</i> , 1	Trus Ding
	Ø				h Zones			-	☐ Yes [Clay, Silt & ` Sand	very rme
PRIMARY FILTER	· "	ENGTH	1	DEPTH IS	O TOP U	PRIMAR	Ý FILTER	PACK	SECONDARY	YFILTER	R PACK LENG	STH	12	35	1 -		ine, Medium
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			tonite Si	himy			·	ntonite SI		LENGTI			┨		}		
ANNULAR	.			-						1					.		
SEAL	-	∄ 140∷	Siurry)entone				ment Use		1							
								nite Used	_	ĺ		ft.					
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Multiple Ca				es 🛭 No					r Remedia				4				
Submit ac size of all	danı Lea:	Onaı a sina. h	ıs Dunc ıole dia	diagram meters	and ar	ving we	∌ll cons ⊶d	struction	details i	ncludir	ng type a	ınd					
STATIC WAT	ER LE	EVEL	1/1/	1	an 100 5.	1	DATE WEL	LL DRILLIN	IG WAS COM	MPLETED	,		TD: 35ft			*	
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SIGNATURE	PRIM	ANYOU	NTVACTO	ÚR)	_		PERMIT NO 2876M		 -				7				
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the Depart	tmer	nt of N	laturai R	Resource	es requ	iremen	nts for th	he const	unction o	of moni	organce toring we	With ils.		}			1
SIGNATURE (22	ORILLE	:R)	1		PERMIT	NUMBER	DATE	***/	1		·	1				
SIGNATURE (綸	FINTICE	y/N	un		2836 PERMIT I	NUMBER		11/20/	<u>07</u>			<u> </u>				
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OFFICE USE REFNO	ONLY	DATE RECEIVED		
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					ION R					PH3	7.05 A				DATE	ROUTE	
INFOF	NAME	ON	SUPPI	LIED	BY PRI	MARY	CONTR	ACTO	OR DR	ILLING CO						i i i i i i i i i i i i i i i i i i i	
Amere											WELL	NUMB	ER			RIANCE G	RANTED
OWNER /		-					СП	Ŷ		1	160 STATE	Т.	ZIP CODE		\neg	' DNR Yes. Attac	h a copy or
1901 C		au A	ve.				St	. Louis	1 001510		МО		63166		pro	vide numb	er of variance.
Labadi SITE ADD		er P	lant						Paul P								
226 La	badie	Pow	er Pla	nt Rd	., MC L	BD-64	5		Labadi	ie			- 1	TATE SO	- 1	CODE 055	
PROPOSE Gas	D USE ()F WE	ш				TYPE		ITIAL SITE	· · · · · · · · · · · · · · · · · · ·		Т	MONITOR	NG FOR	(CHECK	ALL THAT AP	
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									rei Drawdo		U.S. 1.		☐ Expid			Metals Pesticides/I	OOV [
AREA 1		inty inkli	n		ELEVATIO @465'	N					ALLEST			ARGEST		esucides//	Teinicides
LOCATION		T			W+03		\dashv				_¼		%_]	NW	%		
Lat. 38_ Long. 90		٠ ;	33 <u> </u>		26N 56W	_ ",	s	ection 17	7 <u> </u>	Township4	14 No	rth				_2 🛛 Eas	st 🔲 West
TYPE OF					LEN	GTH OF		DIAMETE	R OF	DIAMETER	R AND DE	PTH (OF PRO	TECTIVE			LOCKING CAP?
SURFACI	E		Above		d PRO	TECTIVE	CASING	PROTEC	TIVE CASING	THE HOLE	PROTEC	TIVE	CAS		Z) S	Steel	✓ Yes
COMPLE			Flush M	lount		5 ft.	i	42	k4 in.	12 in.	o fi		""	ei (irae	_	Aluminum Plastic	□ No
WEEP HOL		Ye	CAP?	MOU	TH OF FLI	USH D	AMETER C	F FLUSH	DIAMETE	R AND DEPTH O	OF THE		SURFAC			oncrete	
□ No] No	•			.			",,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10 FLACE		COMPLE			•	
	LENGT		DIAMET	ER I	WEIGHT	ft.	ETER OF	ft.	<u> </u>	in.		ft.		1		ther	<u> </u>
ĺ					OR SDR#	DRIL	HOLE			ermoplastic (PVC)		TONITE	SEAL	TH OF	MATERIAL Siurry	□Pellets
RISER PIPE	28 ft.		2 in.		40	0.69	ft.	•	er	_		SEA	L	3 ft.		1	lar
DETAIL	GLUED								TER PACE					РТН	FC		DESCRIPTION
	☐ Ye			⊠ S	aturated					drated 🛛 Ye	s 🗌 N	o	FROM 0	5 TO	٠		
		GTH			oth Zone				Yes [5	25		t <mark>and</mark> Clay ry Fine Sa	
PRIMARY FILTER		3111	Ì	UEFI	י אטן טוי ה	OF PRIMA	RY FILTER	PACK S	SECONDARY	FILTER PACK L	ENGTH		25	35		dium San	
PACK	13	.5 ft				21.5	ft.			1.5	ft.						
		Bento	onite SI	ипу		☐ Ce	ment/Ber	ntonite SI	urry	LENGTH					1		
ANNULAR SEAL	🗆 י	Non S	Slurry B	enton	ite Type	☐ Ba	s of Cen	nent Use	d								
						□%	f Benton	ite Used									
						⊠ Wa	ter Used/	/Bag 25 g	gal.	17.0	ft.	ı			1		
WELL	LENGT	H	DIAI	WETER	OF	RILL	DEPTH TO TOP OF			MATERIAL	_				1		
SCREEN	10.0			_	HOL	1	SCREEN	1		Thermoplas	tic (PV	C)			1		
Multiple Ca	10 ft.	_	2" : □ Ye:		8.2		24.7 ft.		Other						ĺ		
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SIZE OF AII	casin	g, no	le dia	789 ej	and g	rout us	ed.	ucuon	uetans ir	iciuaing typ	e and	- 1	35ft				
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ICHT UP	<u> </u>			,,,			12/17 PERMIT NU	JMBER				4	1				
Mir	11	~/ <i>D</i>		<u>~</u>			2876M			·			1				j
nereby co he Depart	ertify ti ment.4	hat ti of Na	ne mon tural R	itorin esou	g well h	erein de uireme	scribed	Was cor	nstructed	in accordan	ce with	7					
IGNATURE A		ul.LEK	9	1		PERMIT	NUMBER	DATE			wells.	\dashv					
IGNATURE (V JA	UCH	1	12_	<u>e</u>	2836	NUMBER	D4===	1/4	+/10							
		_						DATE				- 1	TOTAL	. DEP	TH:		
O 780-1415 (06-09)	RET	URN CO	MPLE	TED FOR	M TO:	VEL LUEA	DEPOTE	CTION OF	CTION DO D		 _					



187 To 187 To 188 To 18		
OFFICE U	E ONLY PATERECEIVED	
	AND AND SELECTION OF THE PARTY	
	REVENUE NO.	
	ARROYED BY: DATE AND ROUTE	

INFOR	MAT	ION	SUPPI	LIED BY	PRIM	ARY	CONTR	ACTOR	OR DRI	LLING(CO	NTRA	(e) (e)	R ·			4	
OWNER MATERIAL	WINE										WELL					RIANCE C	RANTED
OWNER A	DDRE						CIT	Y			62 STATE		ZIP CODE		$\neg \Box$	DNR Yes. Attac	h a copy or
1901 C		eau A	ve.				St.	Louis	CONTACT	NAME	МО	\perp	63166		pro	vide numb	er of variance.
Labadi		wer P	lant		·				Paul Pi								
		e Pow	er Plaı	nt Rd., N	AC I R	D64	5		спу Labadi					TATE	1	CODE	
PROPOSE	D USE	OF WE	Щ			<u>D-04</u>	TYPE	OF POTEN	TIAL SITE					10 ING FOR	63(CHECK:)55 ALL THAT AF	PPLY)
☐ Gas		_	Well	☐ Moni	_				Material Assessme								Products Only
-									ei Drawdo		U.S.T.		☐ Explo		_	Metals Pesticides/	☐ VOC Herbicides
AREA		ounty ankli	n		VATION 465'						ALLEST			ARGEST		CONTINUES/	Termodes
LOCATION											_%		%]	NW_	¼		
Lat. 38_ Long. 90		<u>-</u> .	33 <u> </u>	', _26N 47V		-,	S	ection 17		ownship4	14 No	orth			Range	_2 🛭 Ea	st 🗌 West
TYPE OF		T		Ground	LENGT PROTE		CASING	DIAMETE	R OF IVE CASING	DIAMETER THE HOLE			. ,	TECTIVE		Steel	LOCKING CAP?
SURFACE COMPLET		l	Flush M		<u> </u>				··	CASING W	AS PLAC	CED	MAT	ERIAL		Muminum	⊠ Yes
WEEP HOL	E?	VENTE	D CAP?		OF FLUSI	ft.	IAMETER O	F FLUSH	in.	14 in. :		—	PV	<u> </u>	⊠F	Plastic	□ No
⊠ Yes		⊠ Ye		MOUNT	•	M	OUNT		HOLE FLU	ISH MOUNT WA	AS PLAC	ED	SURFAC		⊠ Co	oncrete	
□ No		□ No			fi			ft.		in.		ft.	GROUT		☐ Ot	her	_
	LENG	, n	DIAMET		IGHT SDR#	DRIL	ETER OF L HOLE	MATERIA Ster		emoplastic (I	BVC)	BEN	TONITE	LENG SEAL	TH OF	MATERIAL	
RISER PIPE	28 f	t.	4 in.	40		0.85	5 ft.	Oth		miopiasuc (i	-vc,	SEA	L	3 ft.		⊠Slurry □Granu	□Pellets lar □Chips
DETAIL	GLUE							DARY FIL	TER PACK					PTH			DESCRIPTION
										irated 🛭 Ye	s 🗆 N	No ·	FROM 0	10		/C!!!^X 7T	
DDDMADY		NGTH		☐ Both			RY FILTER		Yes [J NO FILTER PACK L			10	35		y/Silt/VF -F Sand	Sand
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SEAL	-	NON	Siurry E	Bentonite '					'								
							of Benton	ite Used . Bag 25 g	_	16.5	ft.						
	LEN	этн	DIA	METER	DIAMET	ER	DEPTH TO			MATERIAL					-		
WELL SCREEN					OF DRI	-	TOP OF SCREEN			Thermoplas	tic (PV	/C)			1		
	10		4"		10.3		24.3 ft.		Other								
Multiple Ca			_	s 🛭 No		<u> </u>	oump ins	talled for	Remediat	ion Yes		\Box					
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GNA	ישיבי			/_/			2876M	·		···	_				ļ		
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hereby co	ertify	OL LES	iturai K	nitoring v	s requi	remei	nts for th	was con e constr	uction of	ın accordan monitorina	ice wit wells.	in [•
hereby cohe Depart	ertify tment	ORILLE	R)	nitoring v	s requi	PERMIT	escribed nts for th NUMBER	was construction	uction of	monitoring	wells.	in					
hereby co	ertify tment	ORILLE	R)	nitoring v Resource	s requii	PERMIT 2836	nts for th	DATE	uction of	in accordan monitoring	wells.		TOTAL	DEP	TH		



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OFFICE USE	ONLY MITTERESER	D 作 多数 200 000 100 100 100 100 100 100 100 100	ALCOHOL:
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STATEWELLNUMBER	REVENUE NO		
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INFOR	TY VX	TION	CITOD	IEN D	/ DOM				3,000	Physical	ar iver teen	47.00	DE MONTH	ace necessions					
OWNER	JAME	LILLON.	SUFF	riento)		عيا دران	UNIR		OR DR	ILLING CO	NTRA	(e) [e	R	MIN.			Marie Merciale		
											WELL	NUME	ER		VA	RIANCE G	RANTED		
Amere OWNER	_	- EGG					1				164					DNR			
							CITY				STATE		ZIP CODE		7 !!	Yes. Attac	h a copy or		
1901 C		iteau /	ave.				St.	Louis			MO		63166		pro	oviae numb	er of variance.		
		_							CONTAC										
Labadi SITE ADD			lant						Paul P	ike									
									CITY					STATE	ZIP	CODE			
PROPOSE	badi	ie Pov	ver Pla	nt Rd.,	MC LB	<u>D-645</u>			Labad	ie_				MO	630	055			
l							1	OF POTEN				$\neg \tau$	MONITO	RING FOR	(CHECK	ALL THAT AF	PLY)		
Gas		-	Well	☐ Mor	_				Material		andfill		☐ Rad	ilonuclid	Petroleum Products Only				
│	ctior	n Well		⊠ Piez	cometers		☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown							losives		Metals □ VOC			
	,						<u> </u>	ater Leve	el Drawdo	own		ı	□ sv	ocs		Pesticides/			
AREA		rankl			EVATION		1			SM	ALLES	T		LARGEST					
1 LOCATION			ш.	<u> </u>	465'		4												
	OF V						1						¼	NW	_ ¼				
Lat. 38_		– ° ,	33 48	', -22	N	, 	Se	ction 17		Township4	44 No	orth			Range	_2 🛛 Eas	st 🔲 West		
Long. 90		_	48	' 42	VV		ш,												
TYPE OF			Above	Ground		CTIVE C	ASING	PROTECT	ROF IVE CASINO	DIAMETER THE HOLE	R AND DI	EPTH (OTECTIVE SING		Steel	LOCKING CAP?		
SURFACE COMPLE		1 -			1		1	,		CASING W	AS PLA	CED		TERIAL		Aluminum	☑ Yes		
COMPLE	IION	"	Flush N	nount	5	ft.	1	6	in.	14 in.	. 4		P	VC	_	Plastic	□No		
WEEP HOL	E?	VENTE	D CAP?	LENGTI	OF FLUS		METER OF	FLUSH		R AND DEPTH	2 ft.				- 231	- Idouc	L		
Yes	ı	⊠ Ye	s	MOUNT		MO	UNT		HOLE FL	USH MOUNT W	AS PLAC	ED	SURFA		⊠ C	oncrete			
□ No		☐ No)			.		_					GROU	LETION T		ther			
	<u></u>	IGTH			_	<u>. </u>		ft.		in.		ft.			ב ב	u lei			
	LEN	iGIN .	DIAME		EIGHT R SDR#	DIAME DRILL I	TER OF HOLE	MATERIA				DEN		LENG	TH OF	MATERIAL			
DICED					_					ermoplastic (PVC)	SEA	ITONITE	SEAL		⊠Slurry	□Pellets		
RISER PIPE	28	ft.	4 in.	4	U	0.85	ft.	Oth	er	_	- 1		_	3 ft.		☐Granu	iar		
DETAIL	GLU	JED					SECON		TER PACI				1 0	EPTH	F		DESCRIPTION		
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	_									drated 🛛 Ye	s 🗆 1	No.			4				
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APPENDANCE CONTRACTOR	
OFFICE USE ONLY	DATE RECEIVED
REF NO.	
	CHECK NO.
STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

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OWNER N	AME						<u> </u>	1172	OION	OK DI	ULL	ING CO	WELL				1 1/4	DIANCE C	PANTED
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OWNER A							T	CITY					STATE	: T	ZIP CODE		\dashv \Box	Yes. Attac	h a copy or
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SITE NAMI		ower P	lant							Paul I									
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TYPE OF	_	Ø	Above (Ground	PRO1	TH O	F VE CASING	, ¦	DIAMETE PROTECT	R OF TIVE CASIN	(G	DIAMETER THE HOLE	R AND D	EPTH CTIVE	OF PRO	TECTIVE		Steel	LOCKING CAP?
SURFACE COMPLET		1	Flush M									CASING W	AS PLA	CED	MAT	ERIAL		Aluminum	⊠ Yes
1445551101					5		t			in.			2 ft.		PV	C	× I	Plastic	□ No
WEEP HOL	E7	VENTE	D CAP?	MOUNT	H OF FLU	SH	DIAMETE MOUNT	ROF	FLUSH			ND DEPTH (:FD	SURFAC	CE	⊠ c	oncrete	<u> </u>
□ No	-	□ No													COMPLI GROUT				
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ł	LLI	IGIA	DIAME		OR SDR#		AMETER C		MATERIA		h	noplastic (D) (O)	BEN	ITONITE	LENG' SEAL	TH OF	MATERIAL	
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PIPE DETAIL	_	JED	7 111.			<u> </u>	.85 ft.	OND.	Oth	TER PAC					T ==	3 ft.			lar □Chips
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PRIMARY FILTER			l	DEI 111	10 101 0	r FRI	MART FIL	I EK F	ACK S	ECUNDAR	(Y FIL	. I ER PACK L	ENGTH		10	20	Ve	ery Fine &	Fine Sand
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	3	⊠ Bent	onite Si	urtv			Cement/l		onite SI	LITTY	ĹE	NGTH	14.	-	1		&	Coarse Sa	nd; Gravel
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hereby co	ertif	y that t	the mor	itoring	well h	erein	descrit	oed v	vas coi	nstructe	d In	accordar	ice wi	th		•			
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OFFICE USE ONLY REF NO.	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO:
ENTERED Did Did	APPROVED BY DATE ROUTE

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INFORM OWNER N	MA.	rion s	UPPL	IED B	Y PRIM	ARY CO	ONTR/	CTOR	OR DRI	LLII	NG CO		СТО	R	de v				
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OWNER AL	DRE						CITY					STATE	;	ZIP CODE		┤ □ \	Yes. Attach	а сору ог	
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Labadie		wer Pi	ant						Paul P		1E								
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Gas N				Г Мо	nitoring			OF POTEN			1⊠la	ndfill				CHECK ALL THAT APPLY) Detroleum Products Only			
☐ Extra		_			zometers		☐ Hazardous Material ☐ Landfill☐ Initial Site Assessment ☐ L.U.S.T.							☐ Explos			reuoleum r Netals	VOC	
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AREA COUNTY ELEVATION 1 Franklin @465'											SM	ALLEST		LAI	RGEST				
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Lat. 38_ Long. 90		° .	33 <u> </u>	_', - <mark>2</mark> ;	2.9 <u> </u>	" ,	Se	ection 17	' <u> </u>	Tow	nship <u></u>	14 No	rth		F	Range .	_2 🛭 Eas	st 🔲 West	
TYPE OF		1	Above (LENG	H OF CTIVE CA	SING	DIAMETE	R OF TIVE CASING	G	DIAMETER THE HOLE				ECTIVE	⊠s		LOCKING CAP?	
SURFACE COMPLET			Flush M							_	CASING W			MATE			Numinum -	⊠ Yes	
					5	ft.			κ4 in.		12 in.					P	Plastic	□ No	
WEEP HOL	Eγ	VENTE	D CAP?	MOUN	TH OF FLUS IT	MOL		F FLUSH	HOLE FL	ER AN LUSH	ID DEPTH MOUNT W	OF THE AS PLAC	ED	SURFACE		⊠ Co	oncrete		
□ No		□ No				ft.						21	GROUT	IION	□ Ot	her			
	LEI	NGTH	DIAMET	ER	WEIGHT	DIAMET	ER OF	MATERI		in.			ft.	<u> </u>	LENGT	TH OF	MATERIAL		
					OR SDR#	DRILL	ILL HOLE					BE!	NTONITE	SEAL		⊠Slurry	□Pellets		
RISER PIPE	28		2 in.		40	0.69 1		☐ Oth						·-	3 ft.		□Granu	ılar	
DETAIL		JED ·		_	.			***	LTER PAC					FROM	TO TO	FC	DRMATION	DESCRIPTION	
		Yes					☐ Unsaturated Zone Hydrated ☒ Yes ☐ No						0	20	T Ve	ry Fine S	and, Fine Sand		
		No			oth Zones		If Yes, Hydrated ☐ Yes ☐ No MARY FILTER PACK SECONDARY FILTER PACK LENGTH									t and Clay			
PRIMARY FILTER	1	LENGTH		DEPTA	1101000	- PRIMAR	YFILIER	PACK	SECONDAR	YFIL	TER PACK	LENGTH		20	30	Fin	ne, Mediu	m, and Coarse	
PACK		13.2	ft.			21.8	ft.				1.6	ft.		30	35		nd, Clay a		
		⊠ Ben	tonite S	lurry		☐ Cem	ent/Ber	ntonite S	lurry	LE	NGTH			7 0	33			m, and Coarse Gravel and	
ANNULAR SEAL	۱ ا	☐ Non	Slurry E	3enton	ite Type	☐ Bags	s of Cen	nent Use	ed								y Ball	0.0.0.0.0.0.0	
SEAL						☐ % of	Benton	ite Used	l										
						☑ Wate	er Used	/Bag 25	gal.	17	.2	ft.							
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WELL SCREEN	İ				HOLE		SCREEN			X TI	nermopla	stic (P	VC)	1					
	_	0 ft.	2"		8.25		24.7 ft.		Other _					.					
Multiple C				es 🛛					r Remedi					-					
Submit additional as built diagrams showing size of all casing, hole diagneters and grout u								struction	ı detalis	Inci	uaing ty	pe and	a						
STATIC WATER LEVEL							DATE WE	LL DRILLIN	IG WAS CO	MPLE	TED			TD:					
NA FEET FROM MEASURING POINT/							10-05 PERMIT N	ILIMOED			· · · · · · · · · · · · · · · · · · ·			35ft					
SIGNATURE (DYTIMARY CONTRACTOR)							2876M		•										
I hereby certify that the monitoring well herein of the Department of Natural Resources requirement							n described was constructed in accordance with					ith	1						
SIGNATURE	SY	DRILL	ER)				nents for the construction of monitoring wells. MIT NUMBER DATE					1							
SIGNATUSE	Z	WY	JÚ	ec		2836		DATE	10-1	<u></u>	<u> 19</u>			<u> </u>					
JIGHATURE														TOTA	L DEI	PTH:			



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STEP NAME COUNTY CONTRACTION OR DRILLING: CONTRACTOR CONTRACTOR OR DRILLING: CONTRACTOR CONTRACTOR OR DRILLING: CONTRACTOR CONTRACTOR	Amere		ION	ei ibbi	iien e	V DBILL	BVA		Part	H		Più:			2				
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1901 Choutean Ave. St. Louis STATE APROODE Yes. Atland a copy or provide number of variance STERIME Labadic Power Plant Paul Pike	OWNERA			_															RANTED
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Labadic Power Plant Paul Pike			cau P	ive.				St.	Louis	T CONTA	CT NAMI		МО		63166		pro	vide numb	er or vananc
226 Labadie Power Plant Rd., MC LBD-645 Labadie MO 63055			ver P	lant						Paul		-							
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Section 17	∐ Extra	action \	Well		⊠ Pie	zometers						□ L.U	J.S.T.		☐ Explo	sives			_
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Lat. 38				n	(0	0465'													
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ANNULAR SEAL Non Slurry Cement/Bentonite Slurry SEAL Non Slurry Bentonite Type Bags of Cement Used % of Bentonite Used	PACK	13	3.5 f	L		2	21.5	ft.				2.0	ft.		13	35			
SEAL Starty Bentonite Type Bags of Cement Used % of Bentonite Used 16.5 ft.		×	Bent	onite SI	ипу] Ceme	nt/Ben	tonite S	lurry	LENG								
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LENGTH DIAMETER DEPTH TO MATERIAL		ĺ				· C] % of E	Bentoni	te Used					į					
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SCREEN GOREST CONTROL	SCREEN	ļ		ł		HOLE		CREEN		Steel	The	moplast	ic (PV	/C)					
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Multiple Cased Wells Yes No Pump Installed for Remediation Yes 35ft							Pu	mp Inst	alled for	Remedi	ation	☐ Yes							
Submit additional as built diagrams showing well construction details including type and size of all casing, hole diameters and grout used.	Submit a	dditior I casin	nala:	s built (diagrar meters	ns showi	ng wel	l consi	truction	details	includ	ing type	and		j		1		
STATIC WATER LEVEL DATE WELL DON'T STEED	STATIC WAT	ER LEVE	EL.	. 77	//	and grot			L DRILLIN	G WAS CO	API ETEI	<u> </u>			1		1		
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hereby certify that the monitoring well herein described was constructed in secondary with	SICHATORE		that t	he mor	itoring	well here	in des	cribed	was co	nstructe	d in ac	cordan	co wit		{				
the Department of Natural Resources requirements for the construction of monitoring wells.	hereby c	ertify		dural B	esourc	es requir	ements	for the	e const	ruction c	of mon	itoring v	wells.		- 1				
	hereby c	uneix	OT NE	3)		· · · · ·	-												
PERMIT NUMBER DATE TOTAL DEPTH:	hereby c	WEST?	OT NO	₹)	J	P P	ERMIT N	UMBER	DATE	1/4	10			ı	1				
10 780-1415 (08-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250, ROLLA, MO 65402 573-368-2165	hereby die Depart	W	OT NE	₹)	Le	P 2	ERMIT N			1/4	10			4	TOTAL	DED	TU.		



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hereby co	rtify	that t	he mor	itoring v	vell her	ein de	scribed	was cor	structed	In accord	lance w	ith					
SIGNATURE (TIONI واطاع	WILLE WILLE	R)	ezource:	s requir	ERMIT	ts for th	e consti	uction o	f monitori	ng wells	3.					
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OWNER	JAME		SORE	JEV B	THERUM	AKY	CONTR	ACTOR	OR DE	ULL	ING CO	NTRA	(O](OR A	***					
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226 La	badi	e Pow	er Plar	nt Rd.,	MC LB	D-64	15		Labad	lie				- 1	MO	- 1	530:			
PROPOSE	DUSE	OF WE	ш				TYPE	OF POTEN	TIAL SITE				7					LL THAT A	PPLY)	
Gas		_	Well		nitoring		_ □ H	azardous	Materia	al	🛛 La	ndfill						etroleum		ts Only
☐ Extra	ction	Well		☑ Pie	zometers	3	☐ In	itial Site	Assessm	nent	L.U	J.S.T.	- 1		losives			etals		-
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ŀ	☐ Ye	es	ĺ	⊠ Satu	rated Z	one					ated 🗌 Ye	s 🗆 N	lo.	FROM	то		<u> </u>	DESCRIPTION.
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			_		s shov						luding typ			35ft				
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hereby c	ertity t	hat t	he mor	nitoring	well he	rein de	scribed	was c	onstru	cted in	accorda	nce wit	h					
GRANTURE	A PLY D	RILLE	R)	, Asonice	s redu		NUMBER	DAT		on of m	nonitoring	wells.				ł		
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OWNER A	DDRES	_		• • • • • • • • • • • • • • • • • • • •			CITY	, -				STATE	1	ZIP CODE		$\dashv \Box$	Yes. Attac	h a copy or	
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SURFACE COMPLET					ļ		CASING WAS PLACED						CED		ERIAL		duminum	⊠ Yes	
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⊠ Yes	I -	Z Ye		MOUNT	OF FLU		DIAMETER OF FLUSH DIAMETER AND DEPTH OF THE HOLE FLUSH MOUNT WAS PLACE						ED	SURFAC					
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PRIMARY	LEN	IGTH		DEPTH T	O TOP O	F PRIMA	RY FILTER	PACK	SECONDAR	RY FILT	ER PACK L	ENGTH		10	14		_	ine Gley Sand	
FILTER PACK	1,	1.2 f	.			20.7	4	ļ				_		14	30			ine Sand W/	
	_		onite SI	um.		20.7	ft. nent/Ben	danie i	Di	LEN	1.4 IGTH	ft.		┨			od Fragn		
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Multiple Cased Wells ☐ Yes 図 No Submit additional as built diagrams showing									or Remedi					35ft		1			
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STATIC WAT			<u> </u>	1				L DRILLI	NG WAS CO	MPLET	ED								
NI FEET FR							12/17 PERMIT NU	IMPED											
		77		~			2876M	-MBEK											
I hereby o	ertify	that	he mo	nitoring	well he	erein de	scribed	was c	onstructe	d in a	accordar	ice wi	th						
the Degar	tment	of N	atural F	Resource	s requ	iremei	nts for th	e cons	struction	of mo	nitoring	wells							
SIGNATURE (VC)L DRILLER) PERMIT NUMBER 2836									1/4/10										
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WEEP HOLI	F2 1	VENTE	D CAP?	LENGT	1 OF FLUS	ft.	METER O		4 in.	12 IN. ER AND DEPTH (2 ft.					Plastic	
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RISER				- I a	0]		1		nemopiasuc ((PVC)	SEA	L			Slum	
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PIPE	GLUE	ft.	2 in.			0.69			er					3 ft.			ular □Chips
	GLUE	D	2 in.				SECON	DARY FIL	TER PAC		<u> </u>			EPTH	F		DESCRIPTION
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PROPOSEI	D USE	E OF WE	ELL		-		TYPE		ENTIAL SIT	ITE	· · ·	-	\neg	MONITORII	ING FOR:	(CHECK	K ALL THAT API	•	
Gas M		_		☐ Moni			_		ous Mate			andfill				les Petroleum Products Only			
Extra	ction	ı Well		⊠ Piez	zometers				te Asses			.U.S.T.		☐ Explo			Metals	□ voc	
AREA		COUNTY		1 51	EVATION		<u> </u>	/ater Le	evel Drav	wdowr				□ svoc			Pesticides/F	Herbicides	
1		Frankli		1	.evation 0465'						SM	MALLEST	i	L,A	ARGEST				
	LOCATION OF WELL											_¼ _		% N	NW	. 14			
Lat. 38		•	33	' _20N	N		S	ection	17	To	wnship4						. 2 ⊠ Ea	st 🔲 West	
Long. 90		<u> </u>	° 48	400	W	,,											<i></i>		
TYPE OF		Ahove	O-sound	LENGTH PROTEC	ARING		TER OF	ARING	DIAMETER THE HOLE				OTECTIVE SING		Steel	LOCKING CAP?			
SURFACE	TYPE OF SURFACE COMPLETION Flush Mount								ASING PROTECTIVE CASING THE HOLE PRO CASING WAS P						SING FERIAL	_	Aluminum	⊠ Yes	
COMPLE	lon	· با	Flush w	ount	5	ft.	J	i .	4x4 in.	· '	12 in. :	າ ft.			٠.	_	Plastic	□ No	
WEEP HOL	E?		D CAP?		H OF FLUSH	I DIAN	METER O		H DIAM	METER A	AND DEPTH O	OF THE		SURFAC		_		<u> </u>	
Yes		⊠ Ye		MOUNT		MOL	TAUC		HOLE	E FLUSH	SH MOUNT WA	AS PLACE	ED 1	COMPLE	ETION	⊠ Cr	Concrete		
□ No		□ No	ا ر	1.	ft.			f	ft.	in	n		ft.	GROUT	1	🗆 O'	Other	_	
·	LEN	NGTH	DIAMET		VEIGHT	DIAMET	TER OF	MATE			<u></u>	$\overline{}$	<u> </u>		LENGT		MATERIAL		
1	i	,	1		R SDR#	DRILL H				1 Therr	moplastic ((PVC)		NTONITE	SEAL		Slurry		
RISER	28	. H	2 in.	40	0	0.69 f	4		Other	. •	// C p	1	SEA	AL	3 ft.			ular □Chips	
PIPE DETAIL	GLU		1 2						FILTER P	-ACK		 L		T DF	EPTH			DESCRIPTION	
		Yes	ŗ	M Sat										FROM	ТО		JKWATT	DESCRIPTION.	
]	⊠ i		1	1							rated 🛛 Ye	åS ∐ IV	10	0	15	_	'av & Silt:	Very Fine &	
					th Zones			-	d Te	_			_	J			ine Sand	V 51 y 1 1110	
PRIMARY	ا ا	LENGTH		DEPTH I	O TOP OF 1	RIMAR	YFILTER	PACK	SECOND	OARY FI	ILTER PACK I	LENGTH		15	35			ե Fine Sand;	
FILTER PACK				1		0	**)	í								ood fragme		
		13.3 f				21.8	ft.				1.1	ft.		_				-	
	1 1	Bent	tonite Si	urry	E] Cem	nent/Ber	ntonite	Slurry	"	ENGTH			İ					
ANNULAR SEAL	[_] Non	. Slurry F	3entonite	еТуре 🗌] Bagr	s of Cer	ment U	sed	_				1					
SEAL							f Benton			_				1		1			
					_						17.7	ft.		1 '					
	T LE	NGTH	I DIA	AMETER	DIAMETI		er Used/) gai.					<u>ا</u> '					
WELL		10.111	brir s.	METER	OF DRIL	LL 7	TOP OF		Ctae		MATERIAL Thormonion	"- /D\	·~\	_					
SCREEN					HOLE	- 1	SCREEN				Thermoplas	Stic (Pv	/C)	,			•		
	10) ft.	2"	ft.	8.25 in	n	24.8 ft.	'ـــــــــــــــــــــــــــــــــــــ	Other	<u>г</u>] '	1				
Multiple C	<u>asec</u>	J Wells	, ☐ Ye	es 🛭 No	ر	P	ump Ins	stalled f	ior Rem	ediatic	on 🗌 Yes	.s		1 '					
Submit a	dditi	ional ε	as built	diagrar	ns show	ing we	ell cons				cluding typ		<u>, </u>	1 '					
size of all	ll cas	sing, h	iole dia	meters	and gro	ut use	ed.						'	TD:	1			İ	
STATIC WAT		/		V_{J}				LL DRILL	LING WAS	COMPL	ETED			35ft	1			I	
	FEET FROM VISASUMING POINT SIGNATURE UKUMANY CONTRACTOR)						10/28						′	1 '	1				
SIGNATURE TORINARY CONTRACTOR)							PERMIT NUMBER							1 /	1				
J 43 1 1 10 -							2876M							4 1	ĺ .			!	
l hereby cĕrtify,that the monitoring well herein descri the Department of Natural Resources requirements fo							scribeu	cribed was constructed in accordance with						1	ĺ				
SIGNATURE	WEY.	PRILLE	ER)	7/			NUMBER	MBER DATE / /						1	l	1			
11 2		un		Lu		2836		11/20/09				1	1 1	i					
SIGNATURE (/			NUMBER	DATE		1				TOTA	L DEP	λ TH:			
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OFFICE USE ONLY	DATE RECEIVED
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STATE WELL NUMBER	REVENUE NO.
ENTERED	APPROVED BY DATE ROUTE

					IG WEL		חשנ	ŀ		RED			* (4)		ROVED BY	State Salaken	ATE	ROUTE		
INFOE									Ph1	Ph2	18.0	Ph3								
OWNER N	VAME	IIUN	SUPPL	LIED	BYPKII	MAK	CON	KA	CTOR	OR DR	<u> </u>	ING CO						14	THE PARTY OF THE P	
Amere	n												WELL	NUMB	® 18'	3		RIANCE G	RANTED	
OWNER A		ESS					10	CITY					STATE	1 -	ZIP CODE	7		DNR Yes Attack	n a copy or	
1901 C	hou	iteau A	Ave.						ouis				MO		63166		pro	vide numbe	er of variance.	
SITE NAM							<u>_</u>	Jt. 12	Ouis	CONTAC	CT NA	ME	MO		03100	···				
Labadi SITE ADD			lant		·					Paul F	Pike	;								
			ver Plat	nt Rd	l., MC L	BD-6	345			CITY	1: _				l l	ATE	- 1	CODE		
PROPOSE	DUS	E OF WE	ELL	10 100	., MC D	0.0-0		PE OF	POTEN	Labad	116				MONITORI		63055 (CHECK ALL THAT APPLY)			
☐ Gas		-	Well		/lonitoring			Haz	ardous	s Materia	al	⊠ La	ındfill	- 1			ouclides Petroleum Products			
☐ Extra	ctio	n Well		⊠ P	Piezomete	rs				Assessn			U.S.T.		☐ Explo			Vietals	□ voc	
AREA	T 6	CUNTY			ELEVATIO	4		Wat	er Lev	el Drawd	lown				SVO			Pesticides/I	lerbicides	
1	1 Franklin @465'											SM	ALLES	Т	LA	RGEST				
	LOCATION OF WELL														¼ l	۸M	_¼			
	Lat. 38° 33′ 18" Long. 90° 49 17"							Section 17 Township44 North								l	Range	_2 🛭 Eas	st 🔲 West	
TYPE OF		1	Above		LENG	TH OF	E CASING		IAMETE			DIAMETER				TECTIVE	⊠ Steel		LOCKING CAP?	
SURFACE					ì	LON	L CASING	[KO I EC	TIVE CASIN	ו טיי	THE HOLE CASING W			-,	NG ERIAL		Aluminum	⊠ Yes	
		<u> </u>	Flush M	lount	1 5	ft ft	<u>.</u>		43	4 in. 12 in. 2 ft.								Plastic	□ No	
WEEP HOL	E?		D CAP?	LEN	GTH OF FLU	SH	DIAMETEI	OFF	LUSH	DIAMET		ND DEPTH (OF THE		SURFAC	· E			L <u> </u>	
⊠ Yes		⊠ Ye					MOON			HOLE	LUSH	I MOUNT WA	AS PLAC	ED	COMPLE		Z C	oncrete		
□ No		□ No				ft.			ft.		in			ft.	GROUT			ther	-	
,	LE	IGTH	DIAMET	TER	WEIGHT OR SDR#		AMETER O	MATERI	ial. eel 🏿 Thermoplastic (PVC)				BEN	TONITE	LENG SEAL	TH OF	MATERIAL			
RISER	•	. .			40	1						noplastic (PVC)	SEA	ITONITE L	1		Slurry		
PIPE	28 GLI		2 in.	J	40	0.0	69 ft.	_		er						3 ft.		☐Granu	lar □Chips	
DETAIL										TER PAC						PTH	F	ORMATION	DESCRIPTION	
1		Yes					ne ☐ Unsaturated Zone Hydrated ☑ Yes ☐ No							No	FROM 0	14	┥			
	Ø				Both Zone	_				☐ Yes					ľ	17	Int	erbedded	Clay, Silt, VF	
PRIMARY	'	ENGTH		DEPT	TH TO TOP (OF PRIM	WARY FILT	ER PA	CK S	SECONDAR	RY FIL	TER PACK I	.ENGTH		14	22		ne Sand		
FILTER PACK		120				. 01											1.11	ic Saild		
·	_	13.8				21.					l ië	2.0	ft.		22	27	Me	edium Sar	ıd	
ANNULAR	- 1			_			Cement/E			-					i					
SEAL	\ L	_ Non	Slurry E	Bento	nite Type	⊔В	lags of C	eme	nt Use	d					27	35	Co	arse Sand		
						□ %	6 of Bent	onite	Used						J					
						⊠w	Vater Us	ed/Ba	ag 25	gal.	16	5.0	ft.				-			
	LE	NGTH	DIA	METER	DIAM OF D	ETER	DEPTH TOP O	I TO			MA	TERIAL					1			
WELL SCREEN					HOLI		SCREE			Steel [X T	hermoplas	stic (P	VC)	i 1					
	10	ft.	2"	ft.	8.2	5 in.	24.5	ft.		Other _										
Multiple C				_								n ☐ Yes								
Submit additional as built diagrams showin size of all casing, hole diameters and grout							well co	nstru	uction	details	incl	uding typ	e and	j						
STATIC WATER LEVEL							it used.							TD:						
NA FEET F	ROM	MARASUH	NING POI	#			DATE WELL DRILLING WAS COMPLETED 10-16							35ft		l				
SIGNAL PRIMARY CONTRACTOR)						PERMIT NUMBER														
hereby cartify that the manifesing well havely						2876M														
nie Nehainijekt ol Marniai Kezonicez lednileWe							n described was constructed in accordance with						ith							
BIGNATURE AVELL DRILLER) PERMIT NO							ments for the construction of monitoring wells. RMIT NUMBER DATE					•								
							2836 10-26-09													
BIGNATURÉ (APPF	REMOPICE)			PERM	AIT NUMBE	R	DATE	·		-			TOTAL	L DEF	TH:			
														}					İ	



OFFICE USE ONLY REF NO.	DATE RECEIVED
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ENTERED Ph2 Ph3	APPROVED BY DATE ROUTE

SHIP CONTRACTOR	NE 14. 12			021_0720440	412 K2 (21	an an error			Phil	35 P12	** ** Ph3		李郎						
INFOR	MAT	ION:	SUPPL	JED E	Y PR	RIMA	RYCC	DNTRA	ACTOR	OR DR	rilling (ONTRA	ACTC	R	A COL		2.57%		
OWNER N	AME											WELL	NUMB	ER			RIANCE G		
Amerer												191				BY	DNR		
OWNER A	DDRE	SS						CITY				STAT	E	ZIP CODE				h a copy or	
1901 C	hout	eau A	ve.					St	Louis			МО	,]	63166		pro	vide numb	er of variance.	
SITE NAME							_			CONTAC	CT NAME	1		00100					
Labadie	Pov	ver P	lant							Paul I	Pike							•	
SITE ADDR										CITY				S	TATE	T ZIP	CODE	·	
226 Lat	adie	Pow	er Plar	nt Rd	MC:	LRD	-645			Labad	lia				10	1	055		
PROPOSEI	DUSE	OF WE	ш		1110		013	TYPE	OF POTEN		110			MONITOR	ING FOR	CHECK	CALL THAT AF	DI VI	
☐ Gas M	Monit	oring \	Veil	□мо	nitorir	na		Пня	zardous	Materia	ai 17	Landfill				es Petroleum Products Only			
☐ Extra		_			zome	-					_		ſ						
				۵.,				☐ Initial Site Assessment ☐ L.U.S.T. ☐ Water Level Drawdown						☐ Expl			Metals	□ voc	
AREA COUNTY ELEVATION										I Drawd	iown			☐ svo			Pesticides/	Herbicides	
1 Franklin @465'												SMALLES	ST	L	ARGEST	•			
LOCATION					<u></u>							1⁄4		14	NW	14			
Lat. 38		۰	33	, 4	eki -	,	1	80	otion 17					^			^ E3 =		
										orth			Range	2 X Eas	st 🗌 West				
	LENGTH OF DIAMETER OF DIAMETER AND DE											EDTU	OF DOC	TECTIVE			LOCKING CAP?		
TYPE OF	•		Above (Ground			TIVE CAS	SING	PROTECT	IVE CASIN	√G THE H	OLE PROT	ECTIVE		SING		Steel		
SURFACE		_	Flush M	lount	İ			- 1			CASIN	G WAS PLA	ACED	MAT	TERIAL		Aluminum	⊠ Yes	
		_	1 10311 14	ount		5	ft.		4x	4 in.	12 in.	2 ft.					Plastic	☐ No	
WEEP HOLI	E?	VENTE	CAP?	LENG	TH OF F			ETER OF		DIAMET	ER AND DEP	TH OF THE		011754		Γ=		L	
Yes	Ţ	🛛 Ye	S	MOUN	11		MOU	NT		HOLEF	LUSH MOUN	WAS PLA	CED	SURFA		⊠ C	oncrete		
☐ No		□ No				ft.			ft.		•			GROUT		По	ther		
	LENG	TU I	DIAMET	ED I	WEIGHT		21444	-D OF	MATERIA		in.		ft.	l					
	LLIN	2111	DIANE		OR SDR		DIAMETI DRILL H						BE.	ITONITE	LENG SEAL	TH OF	MATERIAL		
RISER			_		40	- 1		1			hermoplas	ic (PVC)	SEA		j		Slumy	_ 	
PIPE	28 1		2 in.		40		0.69 ft	I	Oth	er	_				3 ft.		Granu	ılar □Chips	
DETAIL	GLUE	ED .						SECONE	ARY FIL	TER PAC	K			DE	PTH	F	ORMATION	DESCRIPTION	
		'es	ĺ	⊠sa	aturate	ed Zor	е Г	Unsat	urated 7	one H	ydrated 🛚	Ves 🗆	No	FROM					
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				_				-						10	18		ne-Very F		
PRIMARY	LE	NGTH		DEPTH	то то	POFP	RIMARY	FILTER F	PACK S	ECONDAR	RY FILTER PA	CK LENGTI	Н	18	23		edium Sar		
FILTER	ı		ĺ											23	28	- 1			
PACK	1	3.5 f	t.			2	1.3	ft.			1.	7 ft.		28	35		avelly Sar	na	
		Bent	onite SI	urry			Ceme	ent/Beni	tonite Si	IMV	LENGTH			7 20] 33	Fin	ne Sand		
ANNULAR	1 -	=		•	4					•	ļ			J		- [
SEAL	-	INOH	Siutty E	entoni	te iyp	ю. Ц	Bags	or Cem	ent Use		ł			J	1	1			
	1						% of E	3entoni	te Used							1			
						X	Water	r l Isad/i	Bag 25 g	lei	16.6	ft.			1	ı			
	LEN	GTH	DIA	METER	Di	AMETE		ЕРТН ТО		-	<u> </u>			i		ł			
WELL			İ			F DRILL	. [т	OP OF		Stool I	MATERIA		1/01	ł	ĺ	1			
SCREEN			- 1		"	JLE	3	CREEN			★ Thermo	piasuc (P	VC)	TD:	ł	ļ			
	10	ft.	2"	ft.	8.	.25 in.	. 2	4.5 ft.		Other _				35ft		İ			
Multiple Ca	ased	Wells	☐ Ye	s 🛛 N	lo		Pu	mo Inst	alled for	Remedi	ation 🔲 `	/es		3311	ł	i			
Submit a	dditio	nnal a	s huilt	diagra	me el	howir					including			ſ	!	1			
size of all	cas	ina. h	ole dia	meter	and and	GEORE	t ueer	(CO1151	ucuon	uetalis	including	type an	a	ĺ		J			
STATIC WAT				1	o and	giou			L DRILLING		NO STED			Ī	ĺ				
NI FEET FR	M NO	ASURI	NG PROM	1					LUMLLING	WAS CO	WLCCIED					ĺ			
SIGNATURE		, , ,	,,,,					12/17 PERMIT NUMBER											
								PERMIT NUMBER 2876M							1				
	<i></i>	that	ho mo	olto-l-	m 14:5/1	here				-4	-11-			i		1			
he Denari	lmer	t of N	atural F	Seson.	Ces re A Meli	nere Aduire	III des ment	cnped s for th	was cor	istructe	d in accor	dance w	ith						
SIGNATORE (WEVZ	RILLE	R)				RMIT N		DATE	acuon (/ monitor	y well:	3.			ſ			
ב על	Z/					- 1	336			1/4	H10		j		l				
SIGNATURE (APPRI	NTICE	71		<u></u>		RMIT N	UMBER	DATE	•	1.				I P- P-	1			
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			THEN									_							



OFFICE	SE/SOUS PROPERTY	dente pener		
OFFICE U		DATE RECEIVED		(No. 1) in the last
REF NO.		80.00		All Marie Control
GR NO.		CHECK NO.		CONTRACTOR OF THE STATE OF THE
	to the second second			
STATE WELL NU	VPER	REVENUE NO.		
100 A 100				
ENTERED		APPROVED BY	DATE	the state of the state of
	Own to the light of the		- DATE ROUT	

		CE	RTIFI	CATI	ON RI	ECOR		ENTE	ED ,		Ph3		APP	ROVED BY	14.2	DATE	2. 15 March 2.		
INFOR	MA	TION	SUPP	LIED E	BY PRIM	IARY C	ONTR	ACTOR	OR D	RILL	ING CO	NTRA	CTC)R	el vers	934 1	urine de		
Amere	n											WELL 193	NUME	BER	5.5(14.775×2.64)	VA BY	RIANCE (DNR	RANTED	
1901 C			l va				CITY	-				STATE	- 1	ZIP CODE			Yes. Attac	ch a copy er of varia	or
SITE NAM		wau r	170.		<u>_</u>		St.	Louis	CONTA	CT NA	ME	МО		63166		pio	AIGE HUITE	er or varia	ance.
Labadi		wer P	lant		<u> </u>	.			Paul	Pike				l e	TATE	7/0	CODE		
226 La	badi	e Pow	er Pla	nt Rd.,	MC LE	BD-645			Labad	die					1O	630	CODE		
PROPOSE					onitoring			OF POTEN						MONITOR	ING FOR:	(CHECK	ALL THAT A		
☐ Extra		_	***		onitoring ezometer	s		azardous itial Site .			⊠ La □ L.U							Products	•
☐ Water Level Drawdown												J.S. I .	- {	☐ Expl		_	Metals Pesticidos	VO≀ □ Herbicide	
AREA COUNTY ELEVATION SMALLE 1 Franklin @465'										ALLES'	Γ		ARGEST		esucides/	rieibidde	3		
	OCATION OF WELL											14	NW	1/4					
Lat. 38_	Lat. 38 ° 33' _15N" Section 17 Township 44 No.															_2 ⊠ Ea	st □W	'est	
	TYPE OF LENGTH OF DIAMETER OF DIAMETER AND DEF											DTU :	DE / DEC	TECTIVE		<u> </u>		-	
SURFACE	SURFACE Above Ground PROTECTIVE CASING PROTECTIVE CASING THE HOLE PROTECT CASING WAS PLACE CASIN											CTIVE	CAS		_ U \$	Steel	LOCKING Yes		
COMPLET	TION		Flush M	lount	5	ft.	Ì	6	in.	-		e ft.		PV			Numinum Plastic	□ No	
WEEP HOL			CAP?	LENG'	TH OF FLU		METER OF	FFLUSH	DIAMET	TER A	ND DEPTH O	F THE		SURFAC	`E			L	-
⊠ Yes □ No	- I	⊠ Ye □ No	_			1	J141		HULEF	.rosh	MOUNT WA	S PLAC	ED	COMPLI	ETION	_	ncrete		
	LENG		DIAMET	ED I	WEIGHT	ft.	TD 05	ft.		in.			ft.	GROUT		∐ Ot	her	_	
			DIVINI		OR SDR#	DIAME DRILL I		MATERIA Stee		herm	oplastic (F	31/01	BEN	TONITE	LENG1 SEAL	TH OF	MATERIAL		
RISER PIPE	28 1	t.	4 in.	·	40	0.85	t.	Oth			opiasac (r	V C,	SEA	L	3 ft.		⊠Slurry □Gran	['] □Pei ılar □Chi	
DETAIL	GLUE	D						DARY FIL		K .				DE	PTH	FC		DESCRIPT	
	<u> </u>			⊠ Sa	aturated 2	Zone [] Unsat	urated Z	one H	ydrat	ed 🛛 Yes	3 1	lo	FROM	TO				
	<u>ا کا</u>				th Zones			/drated (0	6 15	,	and Cla	2	
PRIMARY FILTER		NGTH	j	DEPTH	TO TOP O	PRIMAR	FILTER I	PACK S	ECONDAR	RY FIL	TER PACK LI	ENGTH		15	28		ry Fine S	and ilty Sand	,
PACK	1	3.5 fi				21.4	ft.				2.0			28	33		e Sand	nty Sand	ı
	_	_	onite SI	urry	·····			tonite Sit	um/	LEN	2.0 IGTH	ft.		33	35	Me	dium Sar	ıd	
ANNULAR SEAL	1			•	te Type														
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								Bag 25 g		16.	.4	ft.							
	LEN	STH	DIA	METER	DIAME OF DR	TER I	EPTH TO		, mail 1	MA.	TERIAL								
WELL SCREEN					HOLE		CREEN		Steel 2	X Th	emoplast	ic (PV	C)						
	10	ft.	4"	ft.	10.3	in.	4.6 ft.		Other _		_			TD: 35ft		}			
Multiple Ca				s 🛛 N							☐ Yes			2211					
Submit ac	lditio casi	naia:	s built (diagra meter	ms show	ving we	ll const	truction	details i	inclu	ding type	and							
size of all casing, hole diameters and grout used. STATIC WATER LEVEL NI FEET FROM MASSIRING POINT 12/17									WAS COL	MPI ET	FD			İ					
NI FEET FR	ON W	ASORI	ig bylyl			1	2/17			***	LD		ı						
SIGNATURE		KY EON		R)			ERMIT NU 876M	MBER					\neg]			
hereby ce	rtify	that ti	ne mor	itoring	well he	rein des	crihed	was con	structed	d in a	accordan	ce wit	h						
the Department of Natural Resources requirements for the construction									uction o	of mo	nitoring v	wells.	_						1
2836 1/4/10											- [1		
IGNATURE (A	NATURE (APPRENTICE) PERMIT NUMBER DATE										+	TOTAL	. DEP	TH:			\dashv		
O 780-1415 (0-1415 (06-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250, RO											TOTAL DEPTH:							



OFFICE USE ONLY DATE RECEIVED
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CHECKNO
STATE WELL NUMBER : REVENUE NO
UENTERED W 2012
APPROVED BY DATE ROUTE

MEAS	rv ir e				N KEU		· are conse	Phi	PHZ		Ph3			HUVED BY		MIE	HOUTE	
OWNER	AME	<u>IION</u>	SUPPL	TED BY	PRIMA	RY CO	NTR	ACTOR	OR DR	ĮĽĽ	ING CO	VELL	CTC)R ****	Het the			1896 481
Amere	n										l	WELL 195	NUMB	HER			RIANCE G DNR	RANTED
OWNER A							CITY					STATE	<u> </u>	ZIP CODE		\neg	Yes. Attac	h a copy or
1901 C		teau A	ve.				St.	Louis				MO		63166		pro	vide numb	er of variance.
Labadi	_	wer P	lant						CONTAC Paul P		ME	_				-		
SITE ADD	RESS								CITY					Sī	TATE	ZIP	CODE	
PROPOSE	badi D USI	e Pow	er Plar	nt Rd., M	IC LBD	-645	TYPE (OF POTEN	Labad	ie					10		055	
☐ Gas	Moni	toring \	Vell	☐ Monit	toring			azardous			⊠ La	ndfill					ALL THAT AF	PLY) Products Only
☐ Extra	ction	Well		☑ Piezo	meters	,		itial Site			☐ L.U			☐ Explo			Metals	VOC
AREA	LC	OUNTY		1 51 5	VATION			ater Leve	el Drawde	own				□ svo				Herbicides
1		rankli	n		165'						SMA	ALLES'	T	LA	ARGEST	•		
LOCATION	OF W													¼ 1	NW	_ 14		
Lat. 38_ Long. 90	Lat. 38 ° 33 ' _17N " Section 17 Township44 No											orth		1	Range	_2 🛭 Ea	st 🔲 West	
	TYPE OF LENGTH OF DIAMETER OF DIAMETER AND D											AND D	EPTH (OF PRO	TECTIVE			LOCKING CAP?
TYPE OF SURFACE COMPLETION Flush Mount PROTECTIVE CASING PROTECTIVE CASING WAS PLANTED THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE HOLE PROTECTIVE THE											CTIVE	CAS		M :	Steel Aluminum	⊠ Yes		
			Flush M	lount	5	ft.		4x	4 in.	- [12 in. 2	ft.					Plastic	□ No
WEEP HOL	E?	VENTE		LENGTH (OF FLUSH	DIAME		FLUSH	DIAMETE	ER AN	ID DEPTH O	E THE		SURFAC	F		oncrete	<u></u>
□ No	-	☑ Ye					•	į	HOLLIE	.0011	MOOINI WAY	SPLAC	בט	COMPLE				
	IFN	отн Стн	DIAMET	ED I WE	ft.	DIAMETER	i or	ft.		in.			ft.	GROUT			ther	
			OF U.I.Z.			DRILL HOI			_	em	oplastic (F	31/61	BEN	ITONITE	LENG1 SEAL	TH OF	MATERIAL	
RISER PIPE	28	ft.	2 in.	40	1	0.69 ft.		☐ Othe		GIIII	opiasuc (F	-vc,	SEA		3 ft.		⊠Slurry	Pellets □ Chips
DETAIL	GLU	ED	1				COND	ARY FIL		<u>-</u>	 			DE	PTH) FO		DESCRIPTION
		Yes	l	⊠ Satu	rated Zon						ed 🛛 Yes	s 🗆 1	Vo.	FROM	ТО	」 ¨`	JI WILL TON	DESCRIPTION
l	X I	No	ļ	□ Both				drated [0	6		ay w/Silt	
PRIMARY	L	NGTH		DEPTH TO	TOP OF P	RIMARY F	ILTER F	ACK S	CONDARY	Y FILT	ER PACK L	ENGTH		6	35	VF	-F Sand	
FILTER PACK	╽,	13.4 fi	.		0.		_								•			
	_		onite Si				ft.			LEN	1.2	ft.						
ANNULAR	- 1			•				tonite Slu	- 1							ł		
SEAL	-] NON	Siully B	entonite '														
	1							te Used _	i	17.	5	ft.						
	LEN	GTH	DIAN	WETER	DIAMETEI		Jsed/E	3ag 25 g	ai.			14.						
WELL					OF DRILL HOLE	TOF	OF REEN		Steel IV	MAT 1 Th	TERIAL ermoplasi	Ho (D)	<u>/C\</u>			1		
SCREEN	10	ft	2"1		8.25 in.	- [.8 ft.		Other	¥	omopiasi	uc (F v	,,,			İ		
Multiple Ca				s 🛭 No	0.23 111.					tion	_ ☐ Yes		_			1		
					s showin	a well	const	ruction (detaile i	nclu	ding type	a and		TD:		l		
Submit additional as built diagrams showing well constructed of all casing, hole diagraters and grout used.										IOIU	ding type	s aliu	j	35ft				
VI FEET ER			NG POINT	///		12/		DRILLING	WAS COM	PLET	ED					1	•	
SIONAL LIKE (, ,	/ /	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,			MIT NUI	MBER					-					
Tub.	1/	<u> </u>	كرير				6M						ı	I			٠	
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.												1						
IGNATURE O	GN/10/E (MELLOR) PERMIT NUMBER DATE																	
1/ 5	1/2	en	n	La	28	36			1/4	4/1	0							
IGNATURE (/	2836 /4/10 PERMIT NUMBER DATE												寸	TOTAL	. DEP	TH:	·	
	80-1415 (08-09) RETURN COMPLETED FORM TO: WELLHEAD PROTECTION SECTION, PO. BOX 250,																	



OFFICE USE ONLY DATE RECEIVE	
REF NO.	Market State of Control of Control
CR NO	
STATE WELL NUMBER REVENUE NO.	A CONTRACTOR OF THE STATE OF TH
NEW TENERS OF THE PROPERTY OF	
Pri Br Pri	DATE ROUTE

					TION R					and the second	17.44		Mark States					ROUTE		W.	
INFOR	MAT	ON.	SUPP	JED	BY PRI	MAJ	RY CC	NTR	ACTO	R OR DI	RILLI	NG CO	NTRA	СТС)R					を	
	W 50112				-								WELL	NUMB	JER	(TO COMPANY OF THE PARTY OF TH		RIANCE G	RANTED	¥î	
Amere OWNER A		18						CITY	,				197					DNR	_		
1901 C		-	178					1				ĺ	STATE	- 1	ZIP CODE			Yes. Attaci	h a copy or er of variance.		
SITE NAM		Juu 1	170.			_		DL	Louis	CONTA	CT NA	VIE .	МО		63166			- Turno		_	
Labadi	e Pov	ver P	lant							Paul											
SITE ADD										СПУ					S	FATE	ZIP (CODE		_	
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☐ Extra		_	7 7 611		iezomete		ł	_		us Materia e Assessr		⊠ La		İ					Products Only		
		<i></i>		Δ.	IOZOIII GU	JI G	ł					□ L.U	J.S.1.		☐ Expl						
AREA	SMALLEST												SVO	ARGEST		'esticides/l	<u> terbicides</u>	_			
1 Franklin @465'																					
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Long. 90	. 38 ° 33 ′ _14N " Section 17 Township44 No											l4 No	rth		1	Range	_2 🛛 Eas	st 🗌 West			
TYPE OF					LEN	GTH (DIAMET			DIAMETER	AND DE	PTH (OF PRO	TECTIVE			LOCKING CAP?	_	
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COMPLE	IION	ישן	Flush M	<i>f</i> ount		5	ft.			ó in.		14 in. 2	. 4		PV			Plastic	□ No		
WEEP HOL			CAP?	MOU	GTH OF FL		DIAM	ETER OF	FLUSH	DIAME	TER AN	D DEPTH C)F THE		QUEEN		⊠ Concrete				
⊠ Yes	1 -	⊠ Ye		, MOO	1141		MOUN	NI.		HOLE	FLUSH I	MOUNT WA	S PLACI	ED	SURFAC		⊠ Co	ncrete			
□ No	_ L] No				ft.			ft	.	in.			ft.	GROUT		Ot	her	_		
}	LENG	ΤΗ	DIAMET	TER	WEIGHT OR SDR#		NAMETE ORILL HO		MATE							LENGT	TH OF	MATERIAL			
RISER		ı				Ι,	MILL NO	,	☐ Si	eel 🖾 T	hemo	oplastic (F	PVC)	BEN	ITONITE	SEAL		⊠Slurry	□Pellets		
PIPE	28 ft.		4 in.		40).85 ft.			ther			ļ	-	-	3 ft.		☐Granu	lar □Chips		
DETAIL	GLUE			ļ						ILTER PAC						PTH	FC	RMATION	DESCRIPTION	_	
f	□ Y			⊠ s	Saturated	Zon	e 🛚	Unsat	urated	Zone H	lydrate	ed 🛛 Ye	s 🔲 N	lo	FROM ()	ТО	4				
	⊠ N	0			Both Zone					☐ Yes					6	6 28		t and Clay	1		
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		3.5 fi				21		ft.				1.9	ft.]			-F Sand w gments	wood	1	
	ı		onite SI	•					tonite S	-	LEN	GTH			1		1	Sments		Ì	
ANNULAR SEAL		Non :	Slurry E	Bentor	nite Type		Bags o	of Cem	ent Us	ed					l						
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**-	LENG	TH	DIA	MÉTER		METER	R DE	РТН ТО		9	MAT	ERIAL			ł		İ			ı	
WELL SCREEN					HOL	ORILL E		P OF REEN		Steel [tic (PV	C)							
	10 ft	<u>.</u>	4"	ft	10	3 in.	24	1.4 ft.	1	Other _		•								1	
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Submit a						win									35ft		1			l	
size ot all	casır	ig, ho	ole dia	papte	rs and g	rout	used.	,	a ucuo	i uotans	menu	uing type	e and	ı						l	
STATIC WATER LEVEL NI FEET FROM MEASURING FOINT DATE WELL DRILLING WAS COMPLETED 12/17											\dashv										
SIGNATURE (_	/17												l	
		-1	LAN		•			MIT NU 76M	MBER								i			l	
hereby c	ertify 1	Hat t	he mor	itorir	na well h	erel	. [wae e	notrict-	<u> </u>			_	}						
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.											n										
SIGNATURE	GNATURE (WEST PRILLER) PERMIT NUMBER DATE												\dashv			1			l		
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(i		Z				-=	will NU	MIDER	DATE						TOTAL	_ DEP	TH:			l	
780.1415	06 00)	DET	TIPN C	DAADL	ETER FO	244 7	A. 14/E										_			i	