Gunter, Jason

From: Bodnar, Gen <gbodnar@doerun.com>
Sent: Monday, April 14, 2014 1:34 PM
To: Gunter, Jason
Cc: Nations, Mark; Cummings, Mark; Yingling, Mark
Subject: OLB monitoring sites data summary
Attachments: 02-2014.pdf

Jason,
Attached is a summary of the TSP, Ambient lead, and PM10 results from the monitoring sites, along with Met Station data for February 2014.

If you would like additional information in this report, please let me know and I will revise. As of today, I do not have a throat table for the monitor at St. Joe #4 (the ball fields). I should be getting that back some time this week, and will send you the updated results then. As of April 1, a throat for which we do have lookup tables was put on this sampler, so going forward we should be in good shape.

Thanks,

Genevieve Bodnar
Sr. Environmental Engineer
The Doe Run Company, SEMO Division
Office: 573-244-8107
Cell: 573-705-8612

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Federal Site

Sample Results for February 2014

	St. Joe (Ballfields)		Big River#4		Water Treatment Plant	
Sample Date	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3
2/3/14	38	0.036	31	0.014	23	0.009
2/4/14	23	0.008	20	0.006	19	0.008
2/5/14	11	0.003	10	0.003	8	0.004
2/6/14	18	0.010	27	0.016	17	0.010
2/7/14	15	0.005	17	0.006	10	0.004
2/10/14	39	0.032	21	0.006	23	0.006
2/11/14	40	0.045	22	0.006	20	0.013
2/12/14	39	0.039	30	0.012	34	0.032
2/13/14	14	0.013	7	0.007	11	0.013
2/14/14	21	0.007	14	0.006	12	0.007
2/17/14	15	0.027	8	0.007	12	0.047
2/18/14	26	0.054	17	0.013	22	0.027
2/19/14	invalid	invalid	19	0.013	9	0.013
2/20/14	19	0.049	15	0.014	24	0.055
2/21/14	19	0.014	17	0.007	20	0.040
2/24/14	22	0.026	30	0.019	17	0.013
2/25/14	23	0.026	18	0.013	18	0.020
2/26/14	19	0.013	23	0.019	21	0.032
2/27/14	25	0.013	37	0.019	24	0.013
2/28/14	29	0.020	28	0.013	20	0.007

Monthly Avg. TSP	24	21	18
Monthly Avg. Pb	0.023	0.011	0.019
Jan-14	0.103	0.015	0.046
Dec-13	0.020	0.006	0.013
Rolling 3-Month	**0.049**	**0.011**	**0.026**

Three month rolling average must be less than 0.15 ug/m3

NOTES: 2/19/14 St. Joe sample: motor bearing went out

	Big River QA	
Sample Date	**TSP** ug/m3	**Lead** ug/m3
2/4/14	22	0.008
2/6/14	28	0.015
2/11/14	35	0.006
2/13/14	11	0.007
2/18/14	15	0.013
2/20/14	9	0.007
2/25/14	18	0.013
2/27/14	37	0.019

Rivermines

Sample Results for February 2014

	Big River #4		Rivermines South #1		Rivermines North #2		Rivermines East #3	
Sample Date	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3
2/3/14	31	0.014	25	0.017	26	0.008	23	0.009
2/4/14	20	0.006	19	0.012	18	0.008	19	0.008
2/5/14	10	0.003	9	0.004	11	0.000	8	0.004
2/6/14	27	0.016	24	0.017	13	0.009	17	0.010
2/7/14	17	0.006	12	0.006	11	0.005	10	0.004
2/10/14	21	0.006	27	0.025	29	0.006	23	0.006
2/11/14	22	0.006	41	0.050	29	0.013	20	0.013
2/12/14	30	0.012	66	0.077	33	0.013	34	0.032
2/13/14	7	0.007	13	0.007	8	0.040	11	0.013
2/14/14	14	0.006	10	0.007	13	0.007	12	0.007
2/17/14	8	0.007	10	0.007	6	0.007	12	0.047
2/18/14	17	0.013	27	0.020	21	0.177	22	0.027
2/19/14	19	0.013	37	0.040	12	0.014	9	0.013
2/20/14	15	0.014	14	0.007	19	0.105	24	0.055
2/21/14	17	0.007	37	0.027	12	0.007	20	0.040
2/24/14	30	0.019	48	0.071	21	0.007	17	0.013
2/25/14	18	0.013	60	0.174	19	0.007	18	0.020
2/26/14	23	0.019	57	0.083	15	0.006	21	0.032
2/27/14	37	0.019	38	0.064	24	0.007	24	0.013
2/28/14	28	0.013	26	0.013	22	0.020	20	0.007

Monthly Avg. TSP	21	30	18	18
Monthly Avg. Pb	0.011	0.036	0.024	0.019
Jan-14	0.015	0.045	0.028	0.046
Dec-13	0.006	0.013	0.036	0.013
Rolling 3-Month	**0.011**	**0.031**	**0.029**	**0.026**

Three month rolling average must be less than 0.15 ug/m3

NOTES:

	Big River QA	
Sample Date	**TSP** ug/m3	**Lead** ug/m3
2/4/14	22	0.008
2/6/14	28	0.015
2/11/14	35	0.006
2/13/14	11	0.007
2/18/14	15	0.013
2/20/14	9	0.007
2/25/14	18	0.013
2/27/14	37	0.019

National Site

Sample Results for February 2014

	Big River #4		Ozark #1		Soccer Park #2		Water Treatment Plant	
Sample Date	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3
2/3/14	31	0.014	22	0.005	27	0.014	23	0.009
2/4/14	20	0.006	22	0.009	23	0.009	19	0.008
2/5/14	10	0.003	11	0.006	20	0.005	8	0.004
2/6/14	27	0.016	22	0.010	invalid	invalid	17	0.010
2/7/14	17	0.006	13	0.005	11	0.005	10	0.004
2/10/14	21	0.006	23	0.006	34	0.038	23	0.006
2/11/14	22	0.006	27	0.013	36	0.038	20	0.013
2/12/14	30	0.012	39	0.026	61	0.085	34	0.032
2/13/14	7	0.007	23	0.020	18	0.027	11	0.013
2/14/14	14	0.006	28	0.007	23	0.013	12	0.007
2/17/14	8	0.007	15	0.013	18	0.033	12	0.047
2/18/14	17	0.013	29	0.027	43	0.067	22	0.027
2/19/14	19	0.013	42	0.007	36	0.061	9	0.013
2/20/14	15	0.014	18	0.007	19	0.014	24	0.055
2/21/14	17	0.007	21	0.013	32	0.034	20	0.040
2/24/14	30	0.019	12	0.007	22	0.026	17	0.013
2/25/14	18	0.013	19	0.007	21	0.007	18	0.020
2/26/14	23	0.019	20	0.006	19	0.013	21	0.032
2/27/14	37	0.019	19	0.007	27	0.020	24	0.013
2/28/14	28	0.013	30	0.013	30	0.027	20	0.007

Monthly Avg. TSP	21	23	27	18
Monthly Avg. Pb	0.011	0.011	0.028	0.019
Jan-14	0.015	0.021	0.040	0.046
Dec-13	0.006	0.012	0.031	0.013
Rolling 3-Month	**0.011**	**0.015**	**0.033**	**0.026**

Three month rolling average must be less than 0.15 ug/m3

NOTES: 2/6/2014 National #2 sample: Timer Malfunction

	Big River QA	
Sample Date	**TSP** ug/m3	**Lead** ug/m3
2/4/14	22	0.008
2/6/14	28	0.015
2/11/14	35	0.006
2/13/14	11	0.007
2/18/14	15	0.013
2/20/14	9	0.007
2/25/14	18	0.013
2/27/14	37	0.019

Leadwood

Sample Results for February 2014

	Big River #4		Leadwood South #1		Leadwood East #2		Leadwood North #3	
Sample Date	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3	**TSP** ug/m3	**Lead** ug/m3
2/3/14	31	0.014	26	0.039	28	0.015	25	0.007
2/4/14	20	0.006	24	0.023	21	0.006	16	0.005
2/5/14	10	0.003	11	0.005	11	0.003	10	0.000
2/6/14	27	0.016	8	0.007	11	0.004	12	0.004
2/7/14	17	0.006	13	0.015	16	0.006	11	0.004
2/10/14	21	0.006	63	0.120	28	0.013	23	0.006
2/11/14	22	0.006	48	0.111	49	0.031	26	0.019
2/12/14	30	0.012	45	0.107	57	0.032	28	0.013
2/13/14	7	0.007	13	0.026	16	0.006	12	0.007
2/14/14	14	0.006	17	0.019	9	0.006	13	0.007
2/17/14	8	0.007	15	0.013	invalid	invalid	11	0.007
2/18/14	17	0.013	20	0.007	16	0.007	17	0.007
2/19/14	19	0.013	19	0.026	31	0.013	invalid	invalid
2/20/14	15	0.014	14	0.007	11	0.000	18	0.000
2/21/14	17	0.007	21	0.013	12	0.007	8	0.007
2/24/14	30	0.019	22	0.032	26	0.013	13	0.007
2/25/14	18	0.013	29	0.044	14	0.006	11	0.000
2/26/14	23	0.019	18	0.019	11	0.007	14	0.007
2/27/14	37	0.019	33	0.032	29	0.013	21	0.007
2/28/14	28	0.013	19	0.006	27	0.006	23	0.007

Monthly Avg. TSP	21	24	22	16
Monthly Avg. Pb	0.011	0.034	0.010	0.006
Jan-14	0.015	0.025	0.005	0.003
Dec-13	0.006	0.016	0.003	0.003
Rolling 3-Month	**0.011**	**0.025**	**0.006**	**0.004**

Three month rolling average must be less than 0.15 ug/m3

NOTES: 2/17/2014 Leadwood East: Motor failure
2/19/2014 Leadwood North: Motor Bearing went out

	Big River QA	
Sample Date	**TSP** ug/m3	**Lead** ug/m3
2/4/14	22	0.008
2/6/14	28	0.015
2/11/14	35	0.006
2/13/14	11	0.007
2/18/14	15	0.013
2/20/14	9	0.007
2/25/14	18	0.013
2/27/14	37	0.019

Federal Site

Sample Results for February 2014

Sample Date	St. Joe (Ballfields) **PM10** (ug/m3)	Big River#4 **PM10** (ug/m3)	Water Treatment **PM10** (ug/m3)
2/1/14	#DIV/0!	8	8
2/4/14	#DIV/0!	15	16
2/7/14	#DIV/0!	17	11
2/10/14	#DIV/0!	15	16
2/13/14	#DIV/0!	24	20
2/16/14	#DIV/0!	12	18
2/19/14	#DIV/0!	23	16
2/22/14	#DIV/0!	5	19
2/25/14	#DIV/0!	10	12
2/28/14	#DIV/0!	22	12

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	#DIV/0!	15	15

NOTES: Waiting on Throat table for St. Joe PM10 monitor

Sample Date	Big River QA **PM10** (ug/m3)
2/4/14	18
2/10/14	9
2/16/14	24
2/22/14	22
2/28/14	22

Rivermines

Sample Results for February 2014

Sample Date	Big River #4 **PM10** (ug/m3)	Rivermines South #1 **PM10** (ug/m3)	Rivermines North #2 **PM10** (ug/m3)	Rivermines East #3 **PM10** (ug/m3)
2/1/14	8	9	7	8
2/4/14	15	16	15	16
2/7/14	17	8	7	11
2/10/14	15	24	22	16
2/13/14	24	22	10	20
2/16/14	12	3	13	18
2/19/14	23	20	10	16
2/22/14	5	11	12	19
2/25/14	10	26	10	12
2/28/14	22	12	10	12
Monthly Avg. PM10	15	15	12	15

Compliance with NAAQS is less than 150 ug/m3

NOTES:

Sample Date	Big River QA **PM10** (ug/m3)
2/4/14	18
2/10/14	9
2/16/14	24
2/22/14	22
2/28/14	22

National Site

Sample Results for February 2014

Sample Date	Big River #4 **PM10** (ug/m3)	Ozark #1 **PM10** (ug/m3)	Soccer Park #2 **PM10** (ug/m3)	Water Treatment **PM10** (ug/m3)
2/1/14	8	7	15	8
2/4/14	15	13	20	16
2/7/14	17	12	14	11
2/10/14	15	24	22	16
2/13/14	24	17	35	20
2/16/14	12	11	5	18
2/19/14	23	24	21	16
2/22/14	5	invalid	15	19
2/25/14	10	5	13	12
2/28/14	22	7	14	12

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	15	13	17	15

NOTES: 2/22/2014 National #1 sample: Motor failure

Sample Date	Big River QA **PM10** (ug/m3)
2/4/14	18
2/10/14	9
2/16/14	24
2/22/14	22
2/28/14	22

Leadwood

Sample Results for February 2014

Sample Date	Big River #4 **PM10** (ug/m3)	Leadwood South #1 **PM10** (ug/m3)	Leadwood East #2 **PM10** (ug/m3)	Leadwood North #3 **PM10** (ug/m3)
2/1/14	8	11	7	6
2/4/14	15	15	11	33
2/7/14	17	9	9	6
2/10/14	15	18	26	8
2/13/14	24	14	19	19
2/16/14	12	19	22	8
2/19/14	23	27	11	14
2/22/14	5	4	11	4
2/25/14	10	11	12	1
2/28/14	22	1	13	10

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	15	13	14	11

NOTES:

Sample Date	Big River QA **PM10** (ug/m3)
2/4/14	18
2/10/14	9
2/16/14	24
2/22/14	22
2/28/14	22

Meterological Data -Old Lead Belt

February, 2014

hourly or 24 hr	Date	time (24 hr)	Wind Sp, mph	Wind Dir	Sigma-theta	Temp-C	Pressure (mm Hg)	rain gauge (in)	Power supply
24	2/1/2014	2400	5.213	307.7	16.76	3.435	742	0.17	13.36
24	2/2/2014	2400	5.758	345.5	17.44	-4.74	751	0	13.68
24	2/3/2014	2400	2.549	355.1	18.02	-7.31	753	0.01	13.72
24	2/4/2014	2400	3.587	33.18	18.8	-4.169	748	0.01	13.76
24	2/5/2014	2400	7.93	314.7	16.04	-7.06	753	0	13.75
24	2/6/2014	2400	4.428	328.5	14.88	-13.68	758	0	13.8
24	2/7/2014	2400	1.485	90.8	16.68	-12.72	755	0	13.89
24	2/8/2014	2400	2.132	183.3	18.57	-3.355	749	0.01	13.79
24	2/9/2014	2400	4.615	348.9	15.68	-3.126	750	0	13.73
24	2/10/2014	2400	5.643	0.99	18.3	-9.3	755	0	13.78
24	2/11/2014	2400	1.854	52.59	20.33	-11.99	756	0	13.84
24	2/12/2014	2400	1.093	26.31	17.31	-8.23	749	0.14	13.8
24	2/13/2014	2400	3.711	240.4	16.31	-0.058	742	0	13.69
24	2/14/2014	2400	6.078	303	18.97	-1.273	740	0.25	13.58
24	2/15/2014	2400	3.781	213.5	18.64	-4.604	747	0	13.74
24	2/16/2014	2400	3.625	25.39	19.12	-1.127	748	0	13.72
24	2/17/2014	2400	5.731	214.4	20.72	3.551	744	0	13.5
24	2/18/2014	2400	5.333	205.8	13.55	7.29	743	0.01	13.54
24	2/19/2014	2400	2.566	153.8	19.22	8.1	743	0	13.53
24	2/20/2014	2400	9.54	207	18.46	12.96	735	0.01	13.33
24	2/21/2014	2400	8.38	239.9	19.29	8.34	743	0	13.23
24	2/22/2014	2400	4.509	213.8	20.34	9.37	743	0	13.21
24	2/23/2014	2400	5.833	16.11	16.84	1.193	749	0	13.29
24	2/24/2014	2400	2.525	52.34	23.34	-1.719	752	0	13.33
24	2/25/2014	2400	5.491	353.6	17.56	-1.942	751	0	13.34
24	2/26/2014	2400	6.185	304	21.59	-6.294	749	0	13.41
24	2/27/2014	2400	4.689	332.6	22.01	-3.144	747	0	13.39
24	2/28/2014	2400	4.884	151.1	21.09	1.159	745	0	13.37