



June 13, 2017

Ms. Charlene Fitch  
Missouri Department of Natural Resources  
Division of Environmental Quality  
1730 East Elm Street  
Jefferson City, Missouri 65101

**Re: Second Quarter 2017 Assessment Monitoring Event Summary Report  
Bridgeton Landfill, LLC - Bridgeton Landfill  
Missouri DNR Permit #MO -118912**

Dear Ms. Fitch:

On behalf of Bridgeton Landfill, LLC, Jett Environmental Consulting is submitting the *Assessment Monitoring Event Summary Report* for the Second Quarter 2017 groundwater assessment monitoring event at the Bridgeton Landfill.

In accordance with the December 17, 2013 *Assessment Monitoring Plan (AMP)* – Wells 104-SS and 104-SD (AMP) and the August 18, 2014 addendum to the AMP, a groundwater assessment monitoring event was performed at the Bridgeton Landfill during the Second Quarter of 2017. Sampling was performed by Feezor Engineering, Inc. on May 2, 3 and 8, 2017, concurrently with the facility's quarterly groundwater detection monitoring event. Laboratory analysis of groundwater samples was performed by Pace Analytical Services, LLC. The complete laboratory data package was dated May 31, 2017.

As specified in Section 4.4 of the AMP, the following groundwater monitoring wells constitute the facility's assessment wells: 104-SS, 104-SD, 104-KS, 209-SS, 209-SD, 210-SS, 210-SD, 211-SS, and 211-SD. **Figure 1** illustrates the locations of the facility's assessment wells. The results of the Second Quarter 2017 assessment event are summarized on the attached **Table 1**. The volatile organic compound (VOC) concentrations at 104-SS and 104-SD decreased compared to the previous event in Fourth Quarter 2016. No VOC detections were exhibited at 104-KS, 209-SS, 209-SD, 210-SS, 210-SD, 211-SS, and 211-SD during the Second Quarter 2017 event. In accordance with Section 4.7 of the AMP, the results of the assessment monitoring will be discussed in more detail in the *Annual Assessment Monitoring Report*, due August 31, 2017.

The AMP specified semi-annual sampling beginning with the fourth quarter 2015 event. The semi-annual events are scheduled to be conducted in conjunction with the second and fourth quarter groundwater detection monitoring events (typically May and November). **Table 2** summarizes the anticipated assessment sampling schedule for the next semi-annual event (November 2017).

Per an October 14, 2016 Missouri Department of Natural Resources (MDNR) letter, the site submitted an *Updated AMP* to MDNR on November 14, 2016. At the time of submittal of this *Second Quarter 2017 Assessment Monitoring Event Summary Report*, MDNR comments have not been received regarding the *Updated AMP*.

If you have any questions or comments, please contact me at [steve.jett@jettenviro.com](mailto:steve.jett@jettenviro.com) or 314-496-4654.

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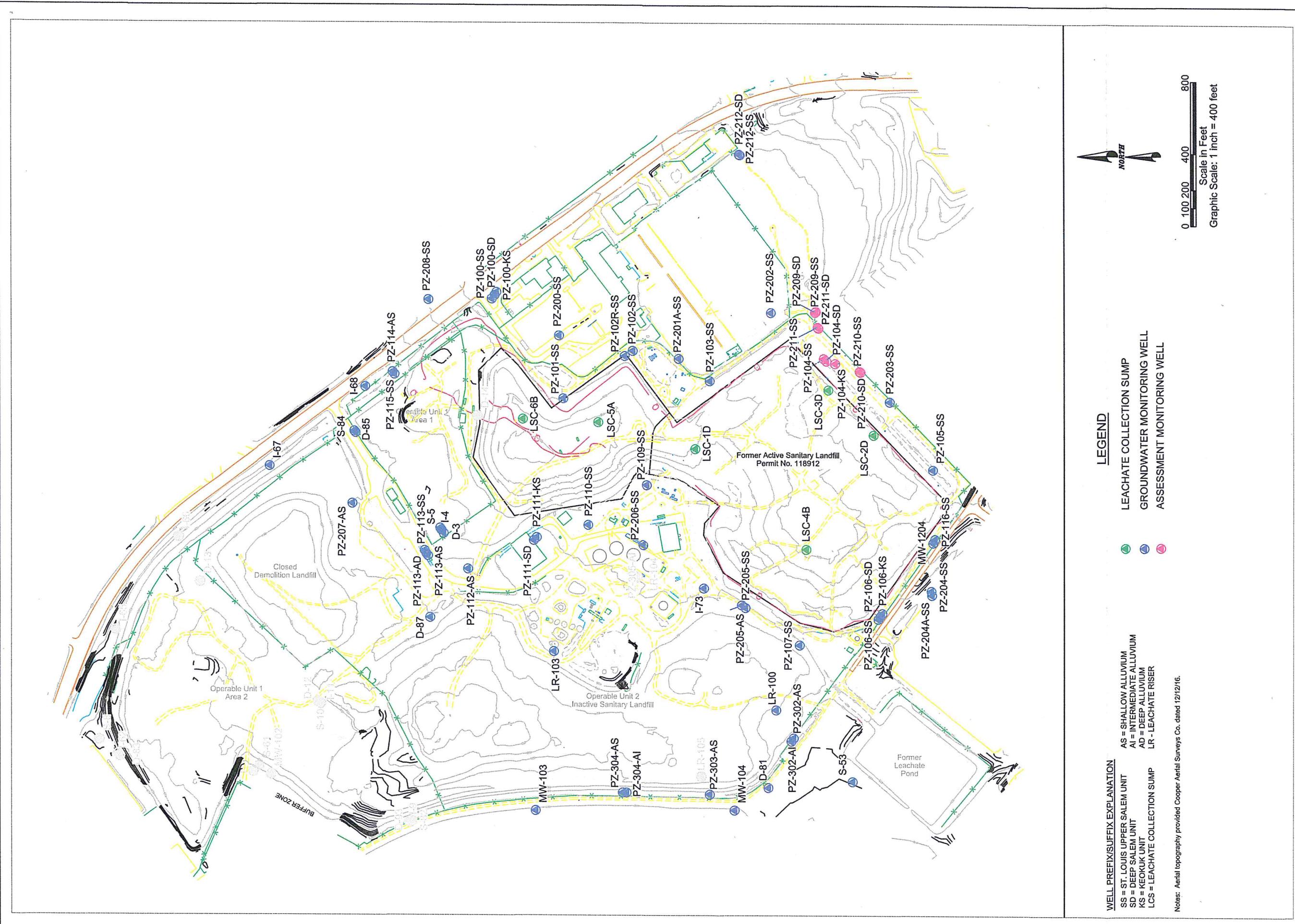
Sincerely,



Steve Jett, P.G.  
Owner

cc: *Dana Sincox – Bridgeton Landfill, LLC (1 Hardcopy & PDF via Email)*  
*Jessie Merrigan – Lathrop & Gage (PDF via Email)*  
*Victoria Warren – Republic Services (PDF via Email)*  
*Mark Milward – Saint Louis County Department of Public Health (PDF via Email)*

Attachments: *Figure 1 – Assessment Monitoring Wells*  
*Table 1 – Assessment Monitoring Results*  
*Table 2 – Anticipated Assessment Sampling Schedule*



**Figure 1**  
**Assessment Monitoring Wells Map**  
**Bridgeton Landfill, LLC - Bridgeton, Missouri**

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**JETT** ENVIRONMENTS

Table 1  
Assessment Monitoring Results, May 2017 Event

Bridgeton Landfill, LLC									
Constituent	Units	Constituent Type	PZ-104-SS	PZ-104-SD	PZ-104-KS	PZ-209-SS	PZ-209-SD	PZ-210-SS	PZ-210-SD
			05/08/17	05/08/17	05/08/17	05/03/17	05/03/17	05/02/17	05/02/17
<b>Inorganic Constituents</b>									
Arsenic, Total	ug/L	10 CSR 80-3 App I+II	16.2	<5	<5	<5	<5	<5	<5
Barium, Total	ug/L	10 CSR 80-3 App I+II	574	105	92.4	84	49	83.3	69.4
Beryllium, Total	ug/L	10 CSR 80-3 App I+II	<2	<2	<2	<2	<2	<2	<2
Cadmium, Total	ug/L	10 CSR 80-3 App I+II	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium, Total	ug/L	10 CSR 80-3 App I+II	9.5	<5	<5	<5	<5	<5	<5
Cobalt, Total	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
Copper, Total	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
Lead, Total	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
Nickel, Total	ug/L	10 CSR 80-3 App I+II	48.5	<10	<10	<10	<10	<10	<10
Selenium, Total	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
Sulfide	mg/L	10 CSR 80-3 App II	<1	<10	<1	2.1	<1.2	<1	<1
Vanadium, Total	ug/L	10 CSR 80-3 App I+II	<10	<10	<10	<10	<10	<10	<10
Zinc, Total	ug/L	10 CSR 80-3 App I+II	<20	<20	<20	<20	<20	<20	<20
<b>Organic Constituents</b>									
1,2,4-Trimethylbenzene	ug/L	MDNR-Specified	<5	<5	<5	<5	<5	<5	<5
1,2-Dichlorobenzene	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
1,2-Dichlorethane	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
1,3,5-Trimethylbenzene	ug/L	MDNR-Specified	<5	<5	<5	<5	<5	<5	<5
1,4-Dichlorobenzene	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
1-Chlorobutane	ug/L	MDNR-Specified	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	ug/L	10 CSR 80-3 App I+II	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	10 CSR 80-3 App I+II	<10	<10	<10	<10	<10	<10	<10
Benzene	ug/L	10 CSR 80-3 App I+II	213	400	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	10 CSR 80-3 App I+II	<5	<5	<5	<5	<5	<5	<5
Isopropylbenzene	ug/L	MDNR-Specified	<5	<5	<5	<5	<5	<5	<5
Methyl Ethyl Ketone	ug/L	10 CSR 80-3 App I+II	<10	<10	<10	<10	<10	<10	<10
Methyl-tert-butyl Ether	ug/L	MDNR-Specified	7.9	<5	<5	<5	<5	<5	<5
PCB Aroclor 1221	ug/L	10 CSR 80-3 App I	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
p-Cresol*	ug/L	10 CSR 80-3 App I	<10	<10	<10	<10	<10	<10	<10
Phenol	ug/L	10 CSR 80-3 App I	<10	<10	<10	<10	<10	<10	<10
p-Isopropyltoluene	ug/L	MDNR-Specified	<5	<5	<5	<5	<5	<5	<5
Tetrahydrofuran	ug/L	MDNR-Specified	<100	1150	<100	<100	<100	<100	<100
Toluene	ug/L	10 CSR 80-3 App I+II	25.4	34.3	<5	<5	<5	<5	<5
Xylenes, Total	ug/L	10 CSR 80-3 App I+II	7.4	20.4	<5	<5	<5	<5	<5

Notes:

\* p-Cresol reported by laboratory as m+p-Cresols.

**Table 2**  
**Anticipated Assessment Sampling Schedule**  
**Bridgeton Landfill, LLC**

Fourth Quarter (November) 2017 Assessment Monitoring Event