



SPDES Permit No. NY0028410

**Long Term Control Plan
Annual Post Construction Monitoring
Status Report**

Reporting Period: *July 2017 through June 2018*

Amended Administrative Order

CWA-02-2014-3033

(Amends CWA-02-2012-3024)

September 2018

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- A. RTC Monthly Performance Reports

1. INTRODUCTION

The Buffalo Sewer Authority (Authority) received approval of its Long Term Control Plan (LTCP) from the United States Environmental Protection Agency (USEPA) and New York State Department of Environmental Conservation (NYSDEC) on March 18, 2014. The Authority entered into an Amended Administrative Order on April 16, 2014 (herein after referred to as the AO), with the USEPA. This AO establishes a schedule for implementation of the Authority's LTCP, approved by the USEPA and NYSDEC.

The AO in part requires that the Authority submit written Annual Post Construction Monitoring (PCM) Status Reports to the USEPA and NYSDEC to be included with the Semi-Annual Status Report.

This report covers July 2017 through June 2018 which serves as Annual PCM Report No. 2.

2. DISCUSSION OF PCM TASKS BEGUN OR COMPLETED

Post construction monitoring of the Bird and Lang RTC projects has continued in the last reporting period. The number of SPP events and volume of overflow that the structures have prevented is being monitored. The monthly performance reports for the reporting period are included in Appendix A. Post construction monitoring of the Smith St. RTC will commence in the next reporting period.

Flow metering for the model calibration project have also been used for preconstruction monitoring of the Willert Park Green Infrastructure project. Meters located in the sewershed will be reinstalled during the next reporting period for post construction monitoring of the green infrastructure project.

3. RESULTS OF PCM EFFORTS

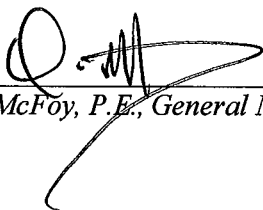
During the reporting period, a total of 55 SPP overflow events, or approximately 58.6 million gallons of overflow, has been prevented by the Bird and Lang RTC projects.

4. MODEL UPDATES COMPLETED

The calibration process has been completed. The QA/QC process of the model and the preparation of the report will be completed in the next reporting period.

5. CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



Oluwole A. McFoy, P.E., General Manager

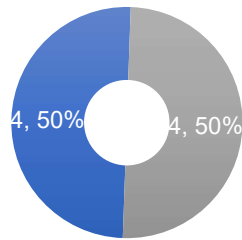
29 Apr 18

Date

Bird Ave. RTC Monthly Performance Report

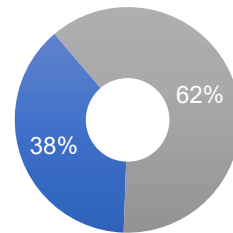
July 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

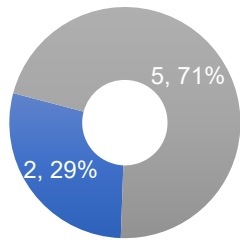
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
4	4	4,030,697	6,514,137

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
7/7/2017	12,778	-	100%
7/12/2017	895,286	119,189	88%
7/13/2017	894,684	73,089	92%
7/13/2017	894,684	1,658,453	35%
7/16/2017	344,970	-	100%
7/20/2017	894,684	4,663,407	16%
7/24/2017	29,761	-	100%
7/28/2017	63,851	-	100%

Bird Ave. RTC Monthly Performance Report

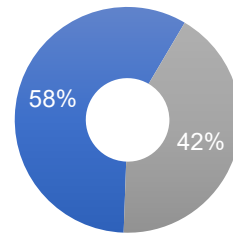
August 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

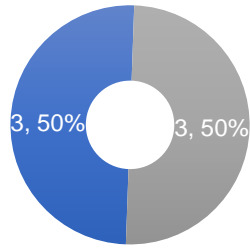
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
2	5	4,714,627	3,424,016

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
8/3/2017	48,316	-	100%
8/3/2017	859,823	706,344	55%
8/4/2017	894,022	42,775	95.4%
8/12/2017	867,696	9,920	99%
8/15/2017	278,662	-	100%
8/17/2017	884,090	143,404	86%
8/22/2017	882,018	2,521,573	26%

Bird Ave. RTC Monthly Performance Report

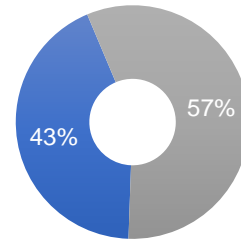
September 2017

Prevented SPP Events



- Number of Prevented SPP Overflow Events
- Number of Occurred SPP Overflow Events

Prevented SPP Volume



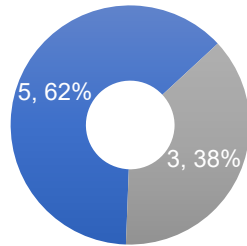
- Prevented SPP Overflow Volume (Gal.)
- Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
3	3	4,387,095	5,793,127
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
9/3/2017	894,684	662,376	57%
9/4/2017	895,827	2,440,873	27%
9/7/2017	500,069	-	100%
9/7/2017	787,771	2,689,878	23%
9/8/2017	463,640	-	100%
9/29/2017	845,104	-	100%

Bird Ave. RTC Monthly Performance Report

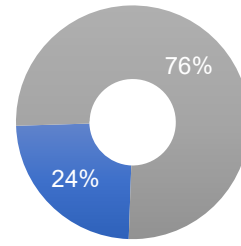
October 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



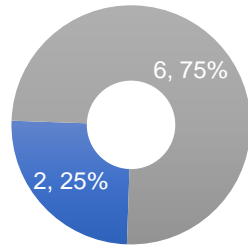
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
5	3	5,752,170	18,265,488
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
10/9/2017	893,846	9,235,949	9%
10/11/2017	299,438	-	100%
10/15/2017	828,051	-	100%
10/24/2017	822,766	-	100%
10/25/2017	894,684	2,397,403	27%
10/28/2017	583,745	-	100%
10/29/2017	535,116	-	100%
10/30/2017	894,524	6,632,136	12%

Bird Ave. RTC Monthly Performance Report

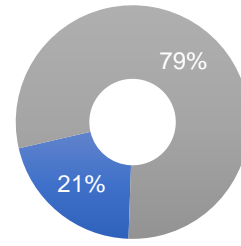
November 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



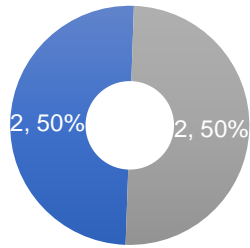
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
2	6	5,314,411	20,203,624
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
11/2/2017	888,228	2,905,628	23%
11/3/2017	893,667	1,405,213	39%
11/5/2017	651,729	14,211,155	4%
11/9/2017	845,342	5,716	99%
11/13/2017	38,589	-	100%
11/16/2017	878,896	50,043	95%
11/18/2017	894,524	1,625,869	35%
11/30/2017	223,436	-	100%

Bird Ave. RTC Monthly Performance Report

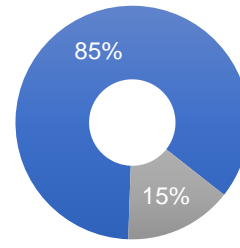
December 2017

Prevented SPP Events



- Number of Prevented SPP Overflow Events
- Number of Occurred SPP Overflow Events

Prevented SPP Volume



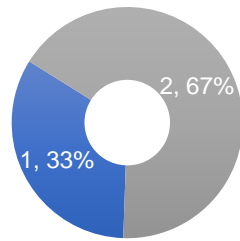
- Prevented SPP Overflow Volume (Gal.)
- Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
2	2	2,282,625	400,887
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
12/5/2017	893,846	399,831	69.1%
12/6/2017	100,432	-	100.0%
12/18/2017	860,837	1,056	99.9%
12/23/2017	427,510	-	100.0%

Bird Ave. RTC Monthly Performance Report

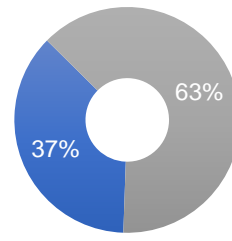
January 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

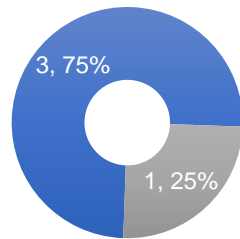
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	2	2,613,969	4,477,943

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
01/10/2018	892,308	4,214,880	17.5%
01/22/2018	892,672	263,063	77.2%
01/27/2018	828,989	-	100.0%

Bird Ave. RTC Monthly Performance Report

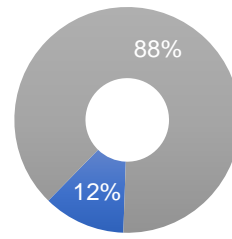
February 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

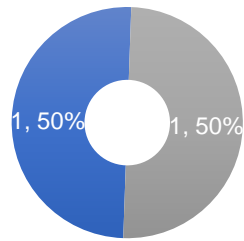
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
3	1	1,742,736	13,067,356

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
02/04/2018	333,121	-	100.0%
02/11/2018	132,186	-	100.0%
02/14/2018	385,982	-	100.0%
02/15/2018	891,447	13,067,356	6.4%

Bird Ave. RTC Monthly Performance Report

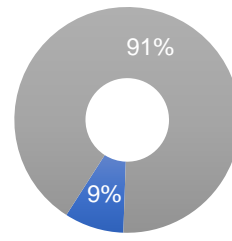
March 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



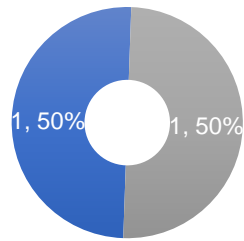
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	1	957,885	10,292,992
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
03/27/2018	65,372	-	100.0%
03/29/2018	892,513	10,292,992	8.0%

Bird Ave. RTC Monthly Performance Report

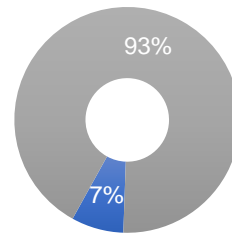
April 2018

Prevented SPP Events



- Number of Prevented SPP Overflow Events
- Number of Occurred SPP Overflow Events

Prevented SPP Volume



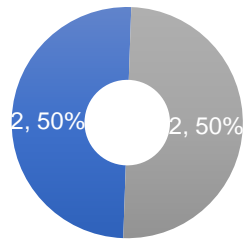
- Prevented SPP Overflow Volume (Gal.)
- Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	1	1,579,801	19,527,923
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
04/12/2018	690,008	-	100.0%
04/15/2018	889,793	19,527,923	4.4%

Bird Ave. RTC Monthly Performance Report

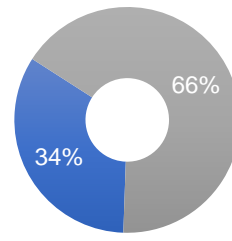
May 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

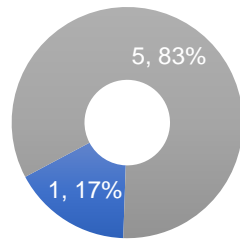
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
2	2	2,514,253	4,986,206

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
05/04/2018	291,122	-	100.0%
05/10/2018	445,498	-	100.0%
05/15/2018	890,525	422,545	67.8%
05/22/2018	887,108	4,563,661	16.3%

Bird Ave. RTC Monthly Performance Report

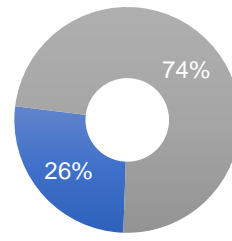
June 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

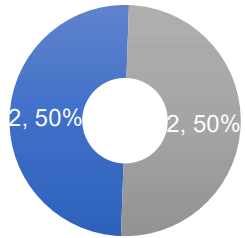
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	5	5,306,722	14,817,204

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
06/13/2018	876,256	-	100%
06/18/2018	895,697	5,964,910	13%
06/24/2018	895,953	1,378,059	39%
06/27/2018	895,564	676,744	57%
06/27/2018	848,891	55,046	94%
06/28/2018	894,361	6,742,445	12%

Lang Ave. RTC Monthly Performance Report

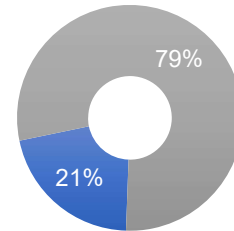
July 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



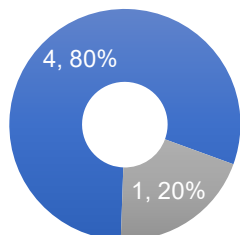
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
2	2	2,212,486	8,232,547
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
7/12/2017	37,591	-	100%
7/13/2017	490,036	-	100%
7/13/2017	844,174	6,996,804	11%
7/20/2017	840,685	1,235,743	40%

Lang Ave. RTC Monthly Performance Report

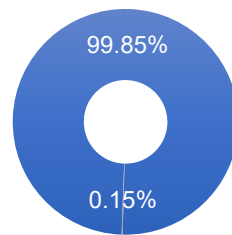
August 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

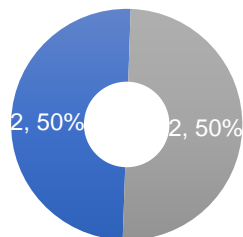
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
4	1	2,943,138	4,314

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
8/4/2017	188,974	-	100%
8/4/2017	870,694	-	100%
8/12/2017	881,293	4,314	99.5%
8/17/2017	142,780	-	100%
8/22/2017	859,397	-	100%

Lang Ave. RTC Monthly Performance Report

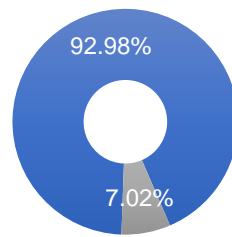
September 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

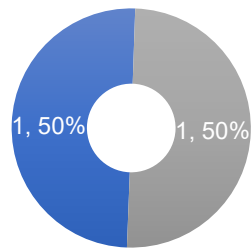
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
2	2	1,903,300	143,748

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
9/3/2017	124,505	-	100%
9/4/2017	850,842	31,477	96%
9/7/2017	879,578	112,271	88.7%
9/29/2017	48,375	-	100%

Lang Ave. RTC Monthly Performance Report

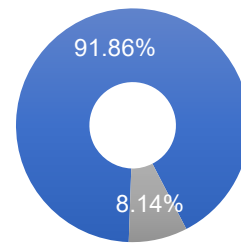
October 2017

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



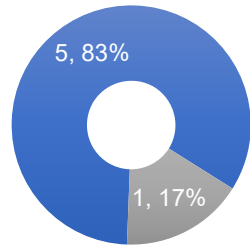
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	1	1,758,789	155,888
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
10/9/2017	881,014	155,888	85%
10/30/2017	877,775	-	100%

Lang Ave. RTC Monthly Performance Report

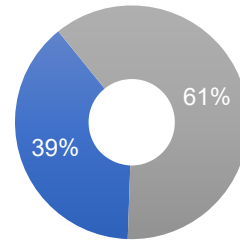
November 2017

Prevented SPP Events



- Number of Prevented SPP Overflow Events
- Number of Occurred SPP Overflow Events

Prevented SPP Volume



- Prevented SPP Overflow Volume (Gal.)
- Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
5	1	2,554,394	4,054,619
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
11/2/2017	634,237	-	100%
11/3/2017	186,170	-	100%
11/5/2017	348,158	-	100%
11/5/2017	244,841	-	100%
11/5/2017	879,870	4,054,619	18%
11/19/2017	261,118	-	100%

December 2017 Lang Ave. RTC KPI Report

(no activations this month)

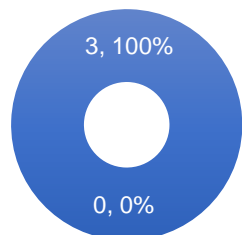


ARCADIS | Design & Consultancy
for natural and
built assets

Lang Ave. RTC Monthly Performance Report

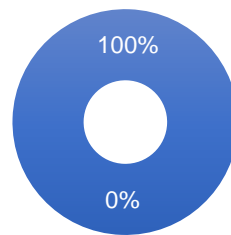
January 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

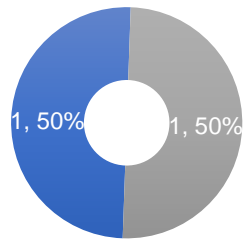
Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

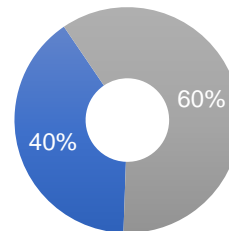
Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
3	0	947,817	-
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
01/11/2018	848,093	-	100%
01/12/2018	43,739	-	100%
01/23/2018	55,985	-	100%

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



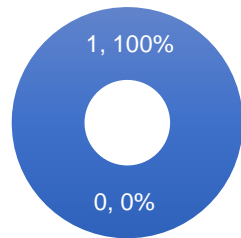
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	1	950,417	1,428,842
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
02/15/2018	109,126	1,428,842	7%
02/19/2018	841,291	-	100%

Lang Ave. RTC Monthly Performance Report

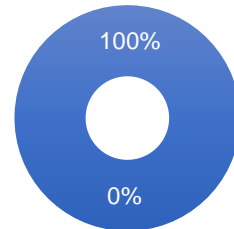
March 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



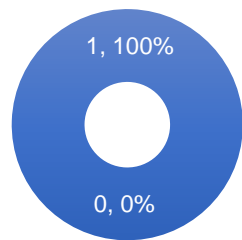
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	0	839,443	-
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
03/29/2018	839,443	-	100%

Lang Ave. RTC Monthly Performance Report

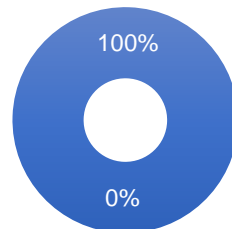
April 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



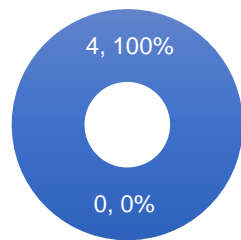
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
1	0	840,069	-
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
04/15/2018	840,069	-	100%

Lang Ave. RTC Monthly Performance Report

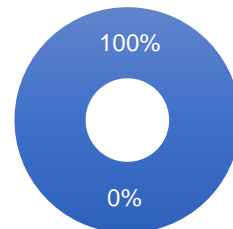
May 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



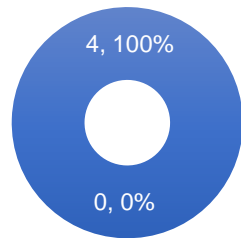
■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
4	0	274,749	-
Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
05/15/2018	11,465	-	100%
05/20/2018	108,415	-	100%
05/22/2018	146,317	-	100%
05/22/2018	8,552	-	100%

Lang Ave. RTC Monthly Performance Report

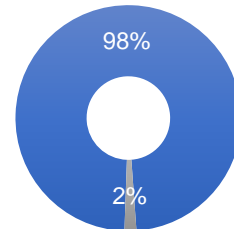
June 2018

Prevented SPP Events



■ Number of Prevented SPP Overflow Events
■ Number of Occurred SPP Overflow Events

Prevented SPP Volume



■ Prevented SPP Overflow Volume (Gal.)
■ Occurred SPP Overflow Volume (Gal.)

Number of Prevented SPP Overflow Events	Number of Occurred SPP Overflow Events	Prevented SPP Overflow Volume (Gal.)	Occurred SPP Overflow Volume (Gal.)
4	0	2,226,979	38,517

Event Date	SPP Overflow Volume Prevented	SPP Overflow Volume Occurred	Percent Capture
06/18/2018	832,256	38,517	96%
06/24/2018	523,998	-	100%
06/27/2018	28,543	-	100%
06/28/2018	842,182	-	100%