



Quarterly Sludge Summary Report Form (Class B)

- Note 1: If your site has more than one land application field, please submit a separate form for each field.
Note 2: Please place this sheet at the top of your Quarterly Sludge Report.
Note 3: If you operate other registered/permited sludge land application sites, a form should be submitted for each site.
Note 4: Please send a copy of this sheet and all attachments to the TCEQ regional office in your area.

For TCEQ Quarter 2 Reporting period from 12/1/13 to 2/28/14

PERMIT NO.: WQ0003823000 DATE:
NAME OF PERMITTEE: City of Austin, C/O Director, Austin Water Utility
MAILING ADDRESS: P.O. Box 1088
Austin, Texas 78767
Contact Name: Jody Slagle Telephone No: (512) 972-1954

Field Number (if any): Platt 1 (Submit separate form for each field, if site has two or more fields)

- 1. Class B Sewage Sludge Land Applied: 326.74 dry tons / quarter
2. Treated Domestic Septage - Land Applied: gallons / quarter
Method used to treat Domestic Septage:
3. Water Treatment Plant Sludge - Land Applied: dry tons / quarter
4. Class A sludge land applied: dry tons / quarter
a. Acreage used for Sludge Application/disposal at this site: acres
b. Site Vegetation (such as grass type etc) and # of cuttings: Coastal Bermudagrass, 4 cuts
c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of 30 TAC §312.43 (b)? Yes No X
d. Site location: Latitude: 30 Degrees 13' 06" N, Longitude: 97 Degrees 39' 12" W
e. Site physical address: 2210 S. FM 973
Austin, Texas

Sewage Sludge Only - Please attach information regarding the following items:

- * Please note the following information should be provided in computer-generated report format:
* Please place check mark before each item below to indicate that the item is attached to this report.

- X 1. Metal concentration, pathogen analysis data and vector attraction certifications of sludge for each source.
X 2. Provide a list containing the name and permit number of each source of sludge.
X 3. Date of delivery of each load of sludge land applied.
X 4. Date of land application of each load of sludge.
X 5. The cumulative metal loading rates for any metals as listed in Table 2 of 30 TAC §312.43 (b)?
X 6. The suggested agronomic rate for the class B sludge.

PLEASE MAIL THE COMPLETED QUARTERLY REPORT TO :

Texas Commission on Environmental Quality
Municipal Permits Team (MC 148)
Wastewater Permitting Section
P.O. Box 13087
Austin, TX 78711-3087



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 MAILING ADDRESS: P.O. Box 1088
Austin, Texas 78767
 Contact Name: Jody Slagle Telephone No: (512) 972-1954

Field Number (If any): Platt 2 (Submit separate form for each field, if site has two or more fields)

1. Class B Sewage Sludge Land Applied: 19333 dry tons / quarter
2. Treated Domestic Septage - Land Applied: _____ gallons / quarter
 Method used to treat Domestic Septage: _____
3. Water Treatment Plant Sludge - Land Applied: _____ dry tons / quarter
4. Class A sludge land applied: _____ dry tons / quarter
 - a. Acreage used for Sludge Application/disposal at this site: _____ acres
 - b. Site Vegetation (such as grass type etc) and # of cuttings: Coastal Bermudagrass, 4 cuts
 - c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes _____ No X
 - d. Site location: Latitude: 30 Degrees 13' 06" N, Longitude: 97 Degrees 39' 12" W
 - e. Site physical address: 2210 S. FM 973
Austin, Texas

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- X 1. Metal concentration, pathogen analysis data and vector attraction certifications of sludge for each source.
- X 2. Provide a list containing the name and permit number of each source of sludge.
- X 3. Date of delivery of each load of sludge land applied.
- X 4. Date of land application of each load of sludge.
- X 5. The cumulative metal loading rates for any metals as listed in Table 2 of 30 TAC §312.43 (b)?"
- X 6. The suggested agronomic rate for the class B sludge.

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(Class B)

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 NAME OF PERMITTEE: City of Austin, C/O Director, Austin Water Utility
 MAILING ADDRESS: P.O. Box 1088
Austin, Texas 78767
 Contact Name: Jody Slagle Telephone No: (512) 972-1954

Field Number (If any): Plat 14 (Submit separate form for each field, if site has two or more fields)

1. Class B Sewage Sludge Land Applied: 225.86 dry tons / quarter
2. Treated Domestic Septage - Land Applied: _____ gallons / quarter
 Method used to treat Domestic Septage: _____
3. Water Treatment Plant Sludge - Land Applied: _____ dry tons / quarter
4. Class A sludge land applied: _____ dry tons / quarter
 - a. Acreage used for Sludge Application/disposal at this site: _____ acres
 - b. Site Vegetation (such as grass type etc) and # of cuttings: Coastal Bermudagrass, 4 cuts
 - c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes _____ No X
 - d. Site location: Latitude: 30 Degrees 13' 06" N, Longitude: 97 Degrees 39' 12" W
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Austin, Texas

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- X 2. Provide a list containing the name and permit number of each source of sludge.
- X 3. Date of delivery of each load of sludge land applied.
- X 4. Date of land application of each load of sludge.
- X 5. The cumulative metal loading rates for any metals as listed in Table 2 of 30 TAC §312.43 (b)?"
- X 6. The suggested agronomic rate for the class B sludge.

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Austin, Texas 78767
Contact Name: Jody Slagle Telephone No: (512) 972-1954

Field Number (If any): Platt 6 (Submit separate form for each field, if site has two or more fields)

- 1. Class B Sewage Sludge Land Applied: 86.77 dry tons / quarter
2. Treated Domestic Septage - Land Applied: gallons / quarter
Method used to treat Domestic Septage:
3. Water Treatment Plant Sludge - Land Applied: dry tons / quarter
4. Class A sludge land applied: dry tons / quarter
a. Acreage used for Sludge Application/disposal at this site: acres
b. Site Vegetation (such as grass type etc) and # of cuttings: Coastal Bermudagrass, 4 cuts
c. Does any of the sludge you have generated or received DOES NOT MEET concentration limits for any of the metals listed in Table 3 of 30 TAC §312.43 (b)? Yes No X
d. Site location: Latitude: 30 Degrees 13' 06" N, Longitude: 97 Degrees 39' 12" W
e. Site physical address: 2210 S. FM 973
Austin, Texas

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- X 1. Metal concentration, pathogen analysis data and vector attraction certifications of sludge for each source.
X 2. Provide a list containing the name and permit number of each source of sludge.
X 3. Date of delivery of each load of sludge land applied.
X 4. Date of land application of each load of sludge.
X 5. The cumulative metal loading rates for any metals as listed in Table 2 of 30 TAC §312.43 (b)?
X 6. The suggested agronomic rate for the class B sludge.

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Municipal Permits Team (MC 148)
Wastewater Permitting Section
P.O. Box 13087
Austin, TX 78711-3087

TCEQ Second Quarter Report 2013 - 14
 City of Austin Hornsby Bend BMP
 Field: PLATT 1

Field	Date	Acres	Max DT (6 dt/ac)	# Loads	Cum. Loads	% TS	DT Daily	DT per Load	DT Cum	DT Remain	Loads Remain	% Complete	Total dt/ac
Platt 1	1/15/14	57	342	9	9	0.1744	18.97	2.11	18.97	323.03	153.24	6%	0.33
Platt 1	1/16/14	57	342	36	45	0.1744	75.89	2.11	94.86	247.14	117.24	28%	1.66
Platt 1	1/17/14	57	342	22	67	0.1744	46.38	2.11	141.24	200.76	95.24	41%	2.48
Platt 1	1/18/14	57	342	34	218	0.1744	71.67	2.11	212.91	129.09	61.24	62%	3.74
Platt 1	1/19/14	57	342	35	218	0.1744	73.78	2.11	286.69	55.31	26.24	84%	5.03
Platt 1	1/21/14	57	342	19	218	0.1744	40.05	2.11	326.74	15.26	7.24	96%	5.73

TCEQ Total December - February 326.74

Field: PLATT 2
 City of Austin Hornsby Bend BMP

Field	Date	Acres	Max DT (6dt/ac)	# Loads	Cum. Loads	% TS	DT Daily	DT per Load	DT Cum	DT Remain	Loads Remain	% Complete	Total dt/ac
Platt 2	2/1/14	42	252	18	18	0.1744	40.65	2.26	40.65	211.35	88.89	16%	0.97
Platt 2	2/2/14	42	252	14	32	0.156	28.28	2.02	68.94	183.06	86.08	27%	1.64
Platt 2	2/3/14	42	252	11	43	0.149	21.23	1.93	90.17	161.83	79.67	36%	2.15
Platt 2	2/4/14	42	252	15	58	0.163	31.66	2.11	121.83	130.17	58.58	48%	2.90
Platt 2	2/5/14	42	252	19	77	0.155	38.14	2.01	159.97	92.03	43.55	63%	3.81
Platt 2	2/6/14	42	252	13	90	0.152	25.59	1.97	185.56	66.44	32.06	74%	4.42
Platt 2	2/10/14	42	252	4	94	0.15	7.77	1.94	193.33	58.67	28.69	77%	4.60

TCEQ Report Total for Dec - Feb 193.33

Field: PLATT 4

Field	Date	Acres	Max DT (6 dt/ac)	# Loads	Cum. Loads	% TS	DT Daily	DT per Load	DT Cum	DT Remain	Loads Remain	% Complete	Total dt/ac
Platt 4	1/25/14	42	252	3	3	0.1744	6.78	2.26	6.78	245.22	103.14	3%	0.16
Platt 4	1/26/14	42	252	19	22	0.1744	42.91	2.26	49.69	202.31	85.09	20%	1.18
Platt 4	1/27/14	42	252	14	36	0.1744	31.62	2.26	81.31	170.69	71.79	32%	1.94
Platt 4	1/28/14	42	252	20	56	0.1744	45.17	2.26	126.48	125.52	52.79	50%	3.01
Platt 4	1/29/14	42	252	13	69	0.1744	29.36	2.26	155.84	96.16	40.44	62%	3.71
Platt 4	1/30/14	42	252	19	88	0.1744	42.91	2.26	198.76	53.24	22.39	79%	4.73
Platt 4	1/31/14	42	252	12	100	0.1744	27.10	2.26	225.86	26.14	10.99	90%	5.38

TCEQ Second Quarter Total 225.86

PLATT 6

Field	Date	Acres	Max DT (6 dt/ac)	# Loads	Cum. Loads	% TS	DT Daily	DT per Load	DT Cum	DT Remain	Loads Remain	% Complete	Total dt/ac
Platt 6	1/22/14	19	114	16	16	17.4%	36.14	2.26	36.14	77.86	32.75	32%	1.90
Platt 6	1/23/14	19	114	13	29	16.2%	27.27	2.10	63.41	50.59	22.91	56%	3.34
Platt 6	1/25/14	19	114	11	40	16.4%	23.36	2.12	86.77	27.23	12.18	76%	4.57

TCEQ Second Quarter Total 86.77

Total Land Application for TCEQ Second Quarter
 December 1, 2013 - February 28, 2014 = 832.71

Hornsby Bend Digester Performance 2013 - 2014

Volatile Solids Reduction by Anaerobic Digestion
 EPA Mass Balance Method
 Single Combined Stream from Digesters

Month	Average % Reduction
Sep-13	77.3
Oct-13	66.7
Nov-13	56.6
Dec-13	51.8
Jan-14	49.2
Feb-14	58.5
Mar-14	
Apr-14	
May-14	
Jun-14	
Jul-14	
Aug-14	
Annual Average	60.0

Pathogen Testing
 Class B Monthly Samples
 Fecal Coliform MPN

Month	Fecal C
Sep-13	27,072
Oct-13	12,017
Nov-13	50,806
Dec-13	79,365
Jan-14	625,744
Feb-14	70,968
Mar-14	
Apr-14	
May-14	
Jun-14	
Jul-14	
Aug-14	
Annual Avg	144,329

Digester Temperatures

Month	Digester 3	Digester 4	Digester 5	Digester 6	Digester 7	Digester 8	Digester 9	Digester 10	Average
Sep-13	94.3	96.5	98.5	97.8					96.8
Oct-13	90.0	95.3	95.6	94.2					93.8
Nov-13	88.2	90.3	90.9	90.4					90.0
Dec-13	85.6	86.7	86.7	86.3					86.3
Jan-14	84.9	84.5	82.6	84.5					84.1
Feb-14	80.2	80.7	77.5	79.8					79.5
Mar-14									
Apr-14									
May-14									
Jun-14									
Jul-14									
Aug-14									
Annual Average									88.4

Note: Digesters 7, 8, 9, and 10 were out of service during this period due to construction activity.

Digester Retention Time

Month	Flow MG	MG/day	MCRT
Sep-13	6.4964	0.2165467	32.325596
Oct-13	6.4184	0.2139467	32.718435
Nov-13	7.9557	0.26519	26.396169
Dec-13	8.254	0.2751333	25.44221
Jan-14	7.68495	0.256165	27.326137
Feb-14	6.7021	0.2234033	31.333463
Mar-14			
Apr-14			
May-14			
Jun-14			
Jul-14			
Aug-14			
Average	7.251925	0.241731	29.257

Notes: Digesters 3 through 6 have a total average volume of 7 MG since digester 3 holds digested sludge (and gas) prior to dewatering
 Used sludge flows from Walnut and SAR WWTPs since Hornsby meters not working during this period

Laboratory Services
Hornsby Dried Sludge - Monthly
Report Date: 06-MAR-14

Page: 1

This data has been proofed by a Laboratory Official: YES

Date	Sample Name	SM 2540 G	SM 2540 G	SM 4500-NH3 D	EPA 353.2	EPA 351.2	SW 9045	SM 4500-P BE	SM 9221 E	EPA 6010C
		%TOTAL	%VOL	NH3-N	NO3+NO2-N	TKN	PH	TP	FCOLI	NA
		%	%	MG/KG	MG/KG	MG/KG	SU	MG/KG	MPN/G	MG/KG
05-DEC-13	HBDRYSLDG-05DEC13-W	18.9	57.5	9302	39.8	55318	8.6	7971	79365	513
15-JAN-14	HBDRYSLDG-15JAN14-W	16.5	65.9	13832	7.34	68854	8.3	14259	625744	643
06-FEB-14	HBDRYSLDG-06FEB14-W	15.3	70.6	13925	10.5	74162	8.7	15467	70968	668
Minimum		15.3	57.5	9302	7.34	55318	8.3	7971	70968	513
Maximum		18.9	70.6	13925	39.8	74162	8.7	15467	625744	668
Average		16.90	64.67	12353.00	19.21	66111.33	8.53	12565.67	258692.33	608.00

Laboratory Services
Hornsby Dried Sludge - Monthly
Report Date: 06-MAR-14

This data has been proofed by a Laboratory Official: YES

Date	Sample Name	EPA 6010C	EPA 6010C	SM 2510 B	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C
		MG	CA	COND	AG	AL	AS	B	CD	CR
		MG/KG	MG/KG	UMHOS/CM	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
05-DEC-13	HBDRYSLDG-05DEC13-W	4559	83058	4580	4.16	8968	4.77	39.3	0.721	18.9
15-JAN-14	HBDRYSLDG-15JAN14-W	3470	60978	6320	4.44	5569	3.48	46.2	0.825	18.0
06-FEB-14	HBDRYSLDG-06FEB14-W	3547	46206	6490	5.70	6161	4.35	52.0	0.775	21.5
Minimum		3470	46206	4580	4.16	5569	3.48	39.3	.721	18
Maximum		4559	83058	6490	5.7	8968	4.77	52	.825	21.5
Average		3858.67	63380.67	5796.67	4.77	6899.33	4.20	45.83	.77	19.47

Laboratory Services
Hornsby Dried Sludge - Monthly
Report Date: 06-MAR-14

This data has been proofed by a Laboratory Official: YES

Date	Sample Name	EPA 6010C	EPA 6010C	EPA 7471B	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C
		CU	FE	HG	K	MO	NI	PB	SE	ZN
		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
05-DEC-13	HBDRYSLDG-05DEC13-W	229	17720	0.654	1632	6.17	16.8	16.9	2.66	494
15-JAN-14	HBDRYSLDG-15JAN14-W	227	15980	0.281	979	6.71	17.2	15.3	3.84	562
06-FEB-14	HBDRYSLDG-06FEB14-W	240	16046	0.354	1118	7.88	18.6	14.0	5.71	576
Minimum		227	15980	.281	979	6.17	16.8	14	2.66	494
Maximum		240	17720	.654	1632	7.88	18.6	16.9	5.71	576
Average		232.00	16582.00	.43	1259.67	6.92	17.53	15.40	4.07	544.00

Laboratory Services
Hornsby Compost - Monthly Grab
Report Date: 06-MAR-14

Page: 1

This data has been proofed by a Laboratory Official: YES

Date	Sample Name	SM 2540 G	SM 2540 G	SM 4500-NH3 D	EPA 353.2	EPA 351.2	SW 9045	SM 4500-P BE	SM 9221 E	EPA 6010C
		%TOTAL	%VOL	NH3-N	NO3+NO2-N	TKN	PH	TP	FCOLI	NA
		%	%	MG/KG	MG/KG	MG/KG	SU	MG/KG	MPN/G	MG/KG
05-DEC-13	HBCOMP-05DEC13-W	52.2	36.3	2426	293	26732	8.0	8069	138	532
15-JAN-14	HBCOMP-15JAN14-W	54.5	38.2	2370	314	23549	7.9	8975	6	547
06-FEB-14	HBCOMP-06FEB14-W	52.0	38.8	2675	588	23206	7.3	4496	4	622
Minimum		52	36.3	2370	293	23206	7.3	4496	4	532
Maximum		54.5	38.8	2675	588	26732	8	8975	138	622
Average		52.90	37.77	2490.33	398.33	24495.67	7.73	7180.00	49.33	567.00

Laboratory Services
Hornsby Compost - Monthly Grab
Report Date: 06-MAR-14

This data has been proofed by a Laboratory Official: YES

Date	Sample Name	EPA 6010C	EPA 6010C	SM 2510 B	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C
		MG	CA	COND	AG	AL	AS	B	CD	CR
		MG/KG	MG/KG	UMHOS/CM	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
05-DEC-13	HBCOMP-05DEC13-W	6736	152597	4940	5.06	7323	4.83	40.9	0.617	13.7
15-JAN-14	HBCOMP-15JAN14-W	6373	142712	4250	6.32	6576	5.18	38.9	0.633	14.2
06-FEB-14	HBCOMP-06FEB14-W	6294	133520	5890	6.09	7016	5.52	45.3	0.622	15.1
Minimum		6294	133520	4250	5.06	6576	4.83	38.9	.617	13.7
Maximum		6736	152597	5890	6.32	7323	5.52	45.3	.633	15.1
Average		6467.67	142943.00	5026.67	5.92	6971.67	5.18	41.70	.62	14.33

Laboratory Services
Hornsby Compost - Monthly Grab
Report Date: 06-MAR-14

This data has been proofed by a Laboratory Official: YES

Date	Sample Name	EPA 6010C	EPA 6010C	EPA 7471B	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C	EPA 6010C
		CU	FE	HG	K	MO	NI	PB	SE	ZN
		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
05-DEC-13	HBCOMP-05DEC13-W	164	11672	0.392	4620	4.05	12.0	14.6	<2	328
15-JAN-14	HBCOMP-15JAN14-W	192	10121	0.476	4315	4.58	12.6	16.5	<2	380
06-FEB-14	HBCOMP-06FEB14-W	193	10298	0.376	4978	5.08	13.4	16.8	<2	381
Minimum		164	10121	.376	4315	4.05	12	14.6		328
Maximum		193	11672	.476	4978	5.08	13.4	16.8		381
Average		183.00	10697.00	.41	4637.67	4.57	12.67	15.97		363.00