

Attachment D

Quarterly Sludge Summary Report Form

- 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 have more than one permitted site, then fill-out this form for each one of those sites.
 Note 4: Please send a copy of this sheet and all attachments to the local TCEQ regional office.

For TCEQ Quarter:	4/4	Reporting period:	From September 1, 2013 to August 31, 2014
Registration No:	WQ 0004859000	Date:	9/2/2014
Name of Registrant:	Harold H. Wallace, Jr		
Mailing Address:	101 Bar Ranch 680 IH 37 Access, Mathis, TX 78368		
Contact Person	Name	Telephone	
	Harold H. Wallace, Jr	No: 361-877-5494	

Field No. (if any): 1 (Submit separate form for each field, if site has two or more fields).

Class B Sewage Sludge Land Applied: **55.02** dry tons /quarter
 Treated Domestic Septage - Land Applied: **0.0** gallons / quarter
 Method used to treat Domestic Septage: **0.0** dry tons /quarter
 Water Treatment Plant Sludge - Land Applied: **0.0** dry tons /quarter
 Class A sludge land applied: **0.0** dry tons /quarter

a. Acreage used for Sludge Application/disposal at this site: **89.8 Acres**

b. Site Vegetation (such as grass type etc) and # of cuttings: **Coastal Hay - 3 cuts, moderate graze.**

c. Does any of the sludge you have generated or received metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No **NOT MEET** concentration limits for any of the

d. Site location Latitude: **28° 14' 14" N** Longitude: **97° 52' 52" W**

e. Site physical address: **101 Bar Ranch, 680 IH 37 Access, Mathis, TX 78368**

Please attach the information regarding the following items (Sewage Sludge only):

* Please note the following information shall be provided in computer generated report format:

* Please place check mark before each item below to indicate you have attached that item with this report.

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

PLEASE MAIL THE COMPLETED ANNUAL REPORT TO:

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

RECEIVED
SEP 12 2014
WATER QUALITY DIVISION
TCEQ

Part 1: Biosolids Application Rate

Fields 1, 4, 5

9/01/2013 to 8/31/2014

Step 1- CALCULATE QUANTITY OF NUTRIENTS & METALS IN POUNDS PER TON.

Nutrients		Percent	Conversion Factor	Pounds per ton
Total Nitrogen	(TKN)	0.31	x 20 =	6.2
Ammonium Nitrogen	(NH ₄)	0.04	x 20 =	0.8
Nitrate Nitrogen	(NO ₃)	0.16	x 20 =	3.2
Total Phosphorus	(P)	0.14	x 20 =	2.8
Total Potassium	(K)	0.07	x 20 =	1.4

Pollutants		(mg/kg x 0.002 = lb./ton)	mg/kg*	lb./ton
Total Arsenic	(As)	0.91	x 0.002 =	0.00182
Total Cadmium	(Cd)	0.85	x 0.002 =	0.0017
Total Chromium	(Cr)	12.2	x 0.002 =	0.0244
Total Copper	(Cu)	266.38	x 0.002 =	0.53276
Total Lead	(Pb)	11.57	x 0.002 =	0.02314
Total Mercury	(Hg)	0.16	x 0.002 =	0.00032
Total Molybdenum	(Mo)	3.78	x 0.002 =	0.00756
Total Nickel	(Ni)	12.25	x 0.002 =	0.0245
Total Selenium	(Se)	2.9	x 0.002 =	0.0058
Total Zinc	(Zn)	539.23	x 0.002 =	1.07846

* Values from sludge tests (dry weight)

(Conversion: mg/kg x 0.0001 = %; PPM = mg/kg)

Agronomic Rate Calculations

Step 2.- SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Note: Please include fertilizer recommendation from the local County Extension Service or equivalent source for determining the nitrogen need for the specific crop(s)

Intended Crop(s): Bermudagrass and native pasture grasses, Winter Rye.

Yield Goal(s): 6.5 tons/ac forage, 3 cuttings, moderate graze. pH: 7.7

	<u>N lb/ac</u>
A. Crop nutrient need for specific yield goal**	<u>325</u>
B. Nutrients available in soil	<u>299</u>
= 2 x NO ₃ -N (ppm)(0-6"soil depth)+ 6 x NO ₃ -N(ppm)(6-24" soil depth)	
C. Nutrient amount still needed: (A -B) (enter this amount in step 4A.)	<u>26</u>

** Crop nutrient need is based on 50 lb.N/ton of forage, Texas Agriculture Extension Service, Fertilizing Summer Perennial Pastures, Publication I-2210.

Step 3 - CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE SLUDGE.

(Use the values for Total N, NH₄-N and NO₃-N from Step 1)

	<u>%</u>	<u>lb./ton</u>
A. Organic-N = Total N-(NH ₄ -N+NO ₃ -N)	<u>0.11</u>	<u>2.2</u>
B. Ammonium Nitrogen (NH ₄ -N)	<u>0.04</u>	<u>0.8</u>
C. Nitrate Nitrogen (NO ₃ -N)	<u>0.16</u>	<u>3.2</u>
D.Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	<u>0.213</u>	<u>4.26</u>

Step 4. CALCULATE MAXIMUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (BARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	<u>26</u>
B. Enter amount from Step 3D. Total PAN in sludge	<u>4.26</u>
C. Sludge application rate(SARN)	<u>6.10</u>

Step 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SARM).

	A	B	C	D	E	F
	Cumulative Metal Limits (lb./ac.)	Max Metal Loading/yr (lb./ac./yr)	Metals in Sludge (lb./ton)	Metals Applied Annually at SARN (lb./ac./yr)	Metals Applied Annually at SARM (lb./ac./yr)	Max Sludge Loading Rate (ton/ac.)
Pollutants	Appendix C	Appendix C	(Step 1)	C x SARN	B/C	A/C
Arsenic	36	1.8	0.00182	0.011107981	0.011107981	19780.21978
Cadmium	35	1.7	0.0017	0.010375587	0.010375587	20588.23529
Chromium	2677	134	0.0244	0.148920188	0.148920188	109713.1148
Copper	1339	67	0.53276	3.251586854	3.251586854	2513.326826
Lead	268	13	0.02314	0.141230047	0.141230047	11581.67675
Mercury	15	0.76	0.00032	0.001953052	0.001953052	46875
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.0245	0.149530516	0.149530516	15306.12245
Selenium	89	4.5	0.0058	0.035399061	0.035399061	15344.82759
Zinc	2500	125	1.07846	6.582150235	6.582150235	2318.120283
Other						

If value in column B > D use nitrogen for biosolids application rate.

If value in column B < D use pollutant for biosolids application rate.

Step 6. CALCULATE SITE LIFE AND MAXIMUM APPLICATION RATE BASED ON CUMULATIVE LOADING OF NITROGEN OR LIMITING METAL(S).

A. Maximum allowable cumulative biosolids loading rate:	2318.12
B. Previous application of biosolids:	3.63
C. Remaining biosolids application rate to reach metal limits:	2314.49
D. Maximum allowable biosolids application rate:	6.10
E. Years remaining to reach the maximum cumulative loading:	379

Attachment D

Quarterly Sludge Summary Report Form

- 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 have more than one permitted site, then fill-out this form for each one of those sites.
 Note 4: Please send a copy of this sheet and all attachments to the local TCEQ regional office.

For TCEQ Quarter:	4th	Reporting period:	From September 1, 2013	to August 31, 2014
Registration No:	WQ 0004859000		Date	
Name of Registrant:	Harold H. Wallace, Jr			
Mailing Address:	101 Bar Ranch			
Contact Person	Name	Telephone		
	Harold H. Wallace, Jr	No: 361-877-5494		

Field No. (if any): 2 (Submit separate form for each field, if site has two or more fields).

Class B Sewage Sludge Land Applied: 8.37 dry tons /quarter
 Treated Domestic Septage - Land Applied: 334,790 gallons / quarter
 Method used to treat Domestic Septage: Lime Stabilization
 Water Treatment Plant Sludge - Land Applied: 0.0 dry tons /quarter
 Class A sludge land applied: 0.0 dry tons /quarter

a. Acreage used for Sludge Application/disposal at this site 121 acres

b. Site Vegetation (such as grass type etc) and # of cuttings Kleingrass, moderate graze 1Amu/1.5.

c. Does any of the sludge you have generated or received metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No NOT MEET concentration limits for any of the

d. Site location Latitude: 28° 14' 14" N Longitude: 97° 52' 52" W

e. Site physical address: 101 Bar Ranch, 680 IH 37 Access, Mathis, TX 78368

Please attach the information regarding the following items (Sewage Sludge only):

* Please note the following information shall be provided in computer generated report format:

* Please place check mark before each item below to indicate you have attached that item with this report.

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

PLEASE MAIL THE COMPLETED ANNUAL REPORT TO:

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

Part 1: Biosolids Application Rate

Field 2

9/01/2013 to 8/31/2014

Step 1- CALCULATE QUANTY OF NUTRIENTS & METALS IN POUNDS PER TON.

Nutrients		Percent	Conversion Factor	Pounds per ton
Total Nitrogen	(TKN)	0.31	x 20 =	6.2
Ammonium Nitrogen	(NH4)	0.04	x 20 =	0.8
Nitrate Nitrogen	(NO3)	0.16	x 20 =	3.2
Total Phosphorus	(P)	0.14	x 20 =	2.8
Total Potassium	(K)	0.07	x 20 =	1.4

Pollutants		<i>(mg/kg x 0.002 = lb./ton)</i>	<u>mg/kg*</u>	<u>lb./ton</u>
Total Arsenic	(As)	0.91	x 0.002 =	0.00182
Total Cadmium	(Cd)	0.85	x 0.002 =	0.0017
Total Chromium	(Cr)	12.2	x 0.002 =	0.0244
Total Copper	(Cu)	266.38	x 0.002 =	0.53276
Total Lead	(Pb)	11.57	x 0.002 =	0.02314
Total Mercury	(Hg)	0.16	x 0.002 =	0.00032
Total Molybdenum	(Mo)	3.78	x 0.002 =	0.00756
Total Nickel	(Ni)	12.25	x 0.002 =	0.0245
Total Selenium	(Se)	2.9	x 0.002 =	0.0058
Total Zinc	(Zn)	539.23	x 0.002 =	1.07846

* Values from sludge tests (dry weight)

(Conversion: mg/kg x 0.0001 = %; PPM = mg/kg)

Step 2.- SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Note: Please include fertilizer recommendation from the local County Extension Service or equivalent source for determining the nitrogen need for the specific crop(s)

Intended Crop(s): Kleingrass forage

Yield Goal(s): 6.5 tons/ac, forage for graze, 1 AMU/1.5 ac.

pH: 7.7

	<u>N lb/ac</u>
A. Crop nutrient need for specific yield goal**	<u>325</u>
B. Nutrients available in soil	<u>299</u>
= 2 x NO ₃ -N (ppm)(0-6"soil depth)+ 6 x NO ₃ -N(ppm)(6-24" soil depth)	
C. Nutrient amount still needed: (A -B) (enter this amount in step 4A.)	<u>26</u>

** Crop nutrient need is based on 50 lb.N/ton of forage, Texas Agriculture Extension Service, Fertilizing Summer Perennial Pastures, Publication I-2210.

Step 3 - CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE SLUDGE.

(Use the values for Total N, NH₄-N and NO₃-N from Step 1)

	%	lb./ton
A. Organic-N = Total N-(NH ₄ -N+NO ₃ -N)	<u>0.11</u>	<u>2.2</u>
B. Ammonium Nitrogen (NH ₄ -N)	<u>0.04</u>	<u>0.8</u>
C. Nitrate Nitrogen (NO ₃ -N)	<u>0.16</u>	<u>3.2</u>
D.Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	<u>0.213</u>	<u>4.26</u>

Step 4. CALCULATE MAXIMUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (BARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	<u>26</u>
B. Enter amount from Step 3D. Total PAN in sludge	<u>4.26</u>
C. Sludge application rate(SARN)	<u>6.10</u>

Step 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SARM).

	A	B	C	D	E	F
	Cumulative Metal Limits (lb./ac.)	Max Metal Loading/yr (lb./ac./yr)	Metals in Sludge (lb./ton)	Metals Applied Annually at SARN (lb./ac./yr)	Metals Applied Annually at SARM (lb./ac./yr)	Max Sludge Loading Rate (ton/ac.)
Pollutants	Appendix C	Appendix C	(Step 1)	C x SARN	B/C	A/C
Arsenic	36	1.8	0.00182	0.011107981	0.011107981	19780.21978
Cadmium	35	1.7	0.0017	0.010375587	0.010375587	20588.23529
Chromium	2677	134	0.0244	0.148920188	0.148920188	109713.1148
Copper	1339	67	0.53276	3.251586854	3.251586854	2513.326826
Lead	268	13	0.02314	0.141230047	0.141230047	11581.67675
Mercury	15	0.76	0.00032	0.001953052	0.001953052	46875
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.0245	0.149530516	0.149530516	15306.12245
Selenium	89	4.5	0.0058	0.035399061	0.035399061	15344.82759
Zinc	2500	125	1.07846	6.582150235	6.582150235	2318.120283
Other						

If value in column B > D use nitrogen for biosolids application rate.

If value in column B < D use pollutant for biosolids application rate.

Step 6. CALCULATE SITE LIFE AND MAXIMUM APPLICATION RATE BASED ON CUMULATIVE LOADING OF NITROGEN OR LIMITING METAL(S).

A. Maximum allowable cumulative biosolids loading rate:	2318.12
B. Previous application of biosolids:	3.63
C. Remaining biosolids application rate to reach metal limits:	2314.49
D. Maximum allowable biosolids application rate:	6.10
E. Years remaining to reach the maximum cumulative loading:	379

Attachment D

Quarterly Sludge Summary Report Form

- 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 have more than one permitted site, then fill-out this form for each one of those sites.
 Note 4: Please send a copy of this sheet and all attachments to the local TCEQ regional office.

For TCEQ Quarter:	4th	Reporting period:	From September 1, 2013 to August 31, 2014
Registration No:	WQ 0004859000	Date:	9/2/2014
Name of Registrant:	Harold H. Wallace, Jr		
Mailing Address:	101 Bar Ranch		
Contact Person	Name		Telephone
	Harold H. Wallace, Jr		No: 361-877-5494

Field No. (if any): 4 (Submit separate form for each field, if site has two or more fields).

Class B Sewage Sludge Land Applied: 41.87 dry tons /quarter
 Treated Domestic Septage - Land Applied: 0.00 gallons / quarter
 Method used to treat Domestic Septage:
 Water Treatment Plant Sludge - Land Applied: 0.00 dry tons /quarter
 Class A sludge land applied: 0.00 dry tons /quarter

a. Acreage used for Sludge Application/disposal at this site 75.7 acres

b. Site Vegetation (such as grass type etc) and # of Coastal Hay, 3cuts, moderate graze. cuttings

c. Does any of the sludge you have generated or received NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No

d. Site location Latitude: 28° 14' 14" N Longitude: 97° 52' 52" W

e. Site physical address: 101 Bar Ranch, 680 IH 37 Access, Mathis, TX 78368

Please attach the information regarding the following items (Sewage Sludge only):

* Please note the following information shall be provided in computer generated report format:

* Please place check mark before each item below to indicate you have attached that item with this report.

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

PLEASE MAIL THE COMPLETED ANNUAL REPORT TO:

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

Part 1: Biosolids Application Rate

Fields 1, 4, 5

9/01/2013 to 8/31/2014

Step 1- CALCULATE QUANTY OF NUTRIENTS & METALS IN POUNDS PER TON.

Nutrients	Percent	Conversion Factor	Pounds per ton
Total Nitrogen (TKN)	0.31	x 20 =	6.2
Ammonium Nitrogen (NH4)	0.04	x 20 =	0.8
Nitrate Nitrogen (NO3)	0.16	x 20 =	3.2
Total Phosphorus (P)	0.14	x 20 =	2.8
Total Potassium (K)	0.07	x 20 =	1.4

Pollutants (mg/kg x 0.002 = lb./ton)	mg/kg*	lb./ton
Total Arsenic (As)	0.91	x 0.002 = 0.00182
Total Cadmium (Cd)	0.85	x 0.002 = 0.0017
Total Chromium (Cr)	12.2	x 0.002 = 0.0244
Total Copper (Cu)	266.38	x 0.002 = 0.53276
Total Lead (Pb)	11.57	x 0.002 = 0.02314
Total Mercury (Hg)	0.16	x 0.002 = 0.00032
Total Molybdenum (Mo)	3.78	x 0.002 = 0.00756
Total Nickel (Ni)	12.25	x 0.002 = 0.0245
Total Selenium (Se)	2.9	x 0.002 = 0.0058
Total Zinc (Zn)	539.23	x 0.002 = 1.07846

* Values from sludge tests (dry weight)

(Conversion: mg/kg x 0.0001 = %; PPM = mg/kg)

Agronomic Rate Calculations

Step 2.- SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Note: Please include fertilizer recommendation from the local County Extension Service or equivalent source for determining the nitrogen need for the specific crop(s)

Intended Crop(s): Bermudagrass and native pasture grasses, Winter Rye.

Yield Goal(s): 6.5 tons/ac forage, 3 cuttings, moderate graze.

pH: 7.7

	<u>N lb/ac</u>
A. Crop nutrient need for specific yield goal**	<u>325</u>
B. Nutrients available in soil	<u>299</u>
= 2 x NO3-N (ppm)(0-6" soil depth)+ 6 x NO3-N(ppm)(6-24" soil depth)	
C. Nutrient amount still needed: (A -B) (enter this amount in step 4A.)	<u>26</u>

** Crop nutrient need is based on 50 lb.N/ton of forage, Texas Agriculture Extension Service, Fertilizing Summer Perennial Pastures, Publication I-2210.

Step 3 - CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE SLUDGE.

(Use the values for Total N, NH4-N and NO3-N from Step 1)

	%	lb./ton
A. Organic-N = Total N-(NH ₄ -N+NO ₃ -N)	<u>0.11</u>	<u>2.2</u>
B. Ammonium Nitrogen (NH ₄ -N)	<u>0.04</u>	<u>0.8</u>
C. Nitrate Nitrogen (NO ₃ -N)	<u>0.16</u>	<u>3.2</u>
D. Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	<u>0.213</u>	<u>4.26</u>

Step 4. CALCULATE MAXIMUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (BARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	<u>26</u>
B. Enter amount from Step 3D. Total PAN in sludge	<u>4.26</u>
C. Sludge application rate(SARN)	<u>6.10</u>

Step 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SARM).

	A	B	C	D	E	F
	Cumulative Metal Limits (lb./ac.)	Max Metal Loading/yr (lb./ac./yr)	Metals in Sludge (lb./ton)	Metals Applied Annually at SARN (lb./ac./yr)	Metals Applied Annually at SARM (lb./ac./yr)	Max Sludge Loading Rate (ton/ac.)
Pollutants	Appendix C	Appendix C	(Step 1)	C x SARN	B/C	A/C
Arsenic	36	1.8	0.00182	0.011107981	0.011107981	19780.21978
Cadmium	35	1.7	0.0017	0.010375587	0.010375587	20588.23529
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Mercury	15	0.76	0.00032	0.001953052	0.001953052	46875
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.0245	0.149530516	0.149530516	15306.12245
Selenium	89	4.5	0.0058	0.035399061	0.035399061	15344.82759
Zinc	2500	125	1.07846	6.582150235	6.582150235	2318.120283
Other						

If value in column B > D use nitrogen for biosolids application rate.

If value in column B < D use pollutant for biosolids application rate.

Step 6. CALCULATE SITE LIFE AND MAXIMUM APPLICATION RATE BASED ON CUMULATIVE LOADING OF NITROGEN OR LIMITING METAL(S).

A. Maximum allowable cumulative biosolids loading rate:	2318.12
B. Previous application of biosolids:	3.63
C. Remaining biosolids application rate to reach metal limits:	2314.49
D. Maximum allowable biosolids application rate:	6.10
E. Years remaining to reach the maximum cumulative loading:	379

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Registration No:	<u>WQ 0004859000</u>		Date <u>9/02/2014</u>
Name of Registrant:	<u>Harold H. Wallace, Jr</u>		
Mailing Address:	<u>101 Bar Ranch</u>		
Contact Person	<u>680 IH 37 Access, Mathis, TX 78368</u>		Telephone
	<u>Harold H. Wallace, Jr</u>		No: <u>361-877-5494</u>

Field No. (if any): 5 (Submit separate form for each field, if site has two or more fields).

Class B Sewage Sludge Land Applied: 53.91 dry tons /quarter
 Treated Domestic Septage - Land Applied: 0.00 gallons / quarter
 Method used to treat Domestic Septage:
 Water Treatment Plant Sludge - Land Applied: 0.00 dry tons /quarter
 Class A sludge land applied: 0.00 dry tons /quarter

a. Acreage used for Sludge Application/disposal at this site 148.8 Acres

b. Site Vegetation (such as grass type etc) and # of Coastal Hay, 3cuts, moderate graze. cuttings

c. Does any of the sludge you have generated or received NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No

d. Site location Latitude: 28° 14' 14" N Longitude: 97° 52' 52" W

e. Site physical address: 101 Bar Ranch, 680 IH 37 Access, Mathis, TX 78368

Please attach the information regarding the following items (Sewage Sludge only):

* Please note the following information shall be provided in computer generated report format:

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6. The suggested agronomic rate for the class B sludge.

PLEASE MAIL THE COMPLETED ANNUAL REPORT TO:

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

Part 1: Biosolids Application Rate**Field 6**

9/01/2013 to 8/31/2014

Step 1- CALCULATE QUANTITY OF NUTRIENTS & METALS IN POUNDS PER TON.

Nutrients		Percent	Conversion Factor	Pounds per ton
Total Nitrogen	(TKN)	0.31	x 20 =	6.2
Ammonium Nitrogen	(NH ₄)	0.04	x 20 =	0.8
Nitrate Nitrogen	(NO ₃)	0.16	x 20 =	3.2
Total Phosphorus	(P)	0.14	x 20 =	2.8
Total Potassium	(K)	0.07	x 20 =	1.4

Pollutants		<i>(mg/kg x 0.002 = lb./ton)</i>	<i>mg/kg*</i>	<i>lb./ton</i>
Total Arsenic	(As)	0.91	x 0.002 =	0.00182
Total Cadmium	(Cd)	0.85	x 0.002 =	0.0017
Total Chromium	(Cr)	12.2	x 0.002 =	0.0244
Total Copper	(Cu)	266.38	x 0.002 =	0.53276
Total Lead	(Pb)	11.57	x 0.002 =	0.02314
Total Mercury	(Hg)	0.16	x 0.002 =	0.00032
Total Molybdenum	(Mo)	3.78	x 0.002 =	0.00756
Total Nickel	(Ni)	12.25	x 0.002 =	0.0245
Total Selenium	(Se)	2.9	x 0.002 =	0.0058
Total Zinc	(Zn)	539.23	x 0.002 =	1.07846

* Values from sludge tests (dry weight)

(Conversion: mg/kg x 0.0001 = %; PPM = mg/kg)

Step 2.- SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Note: Please include fertilizer recommendation from the local County Extension Service or equivalent source for determining the nitrogen need for the specific crop(s)

Intended Crop(s): Bermudagrass and native pasture grasses, Winter Rye

Yield Goal(s): Coastal Hay, 3 tons/ac forage, 3 cuttings, moderate graze.

	<u>N lb/ac</u>
A. Crop nutrient need for specific yield goal**	<u>150</u>
B. Nutrients available in soil	<u>118</u>
= 2 x NO3-N (ppm)(0-6"soil depth)+ 6 x NO3-N(ppm)(6-24" soil depth)	
C. Nutrient amount still needed: (A -B) (enter this amount in step 4A.)	<u>32</u>

** Crop nutrient need is based on 50 lb.N/ton of forage, Texas Agriculture Extension Service, Fertilizing Summer Perennial Pastures, Publication I-2210.

Step 3 - CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE SLUDGE.

(Use the values for Total N, NH4-N and NO3-N from Step 1)

	<u>%</u>	<u>lb./ton</u>
A. Organic-N = Total N-(NH ₄ -N+NO ₃ -N)	<u>0.11</u>	<u>2.2</u>
B. Ammonium Nitrogen (NH ₄ -N)	<u>0.04</u>	<u>0.8</u>
C. Nitrate Nitrogen (NO ₃ -N)	<u>0.16</u>	<u>3.2</u>
D.Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	<u>0.213</u>	<u>4.26</u>

Step 4. CALCULATE MAXIMUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (BARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	<u>32</u>
B. Enter amount from Step 3D. Total PAN in sludge	<u>4.26</u>
C. Sludge application rate(SARN)	<u>7.51</u>

Step 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SARM).

	A	B	C	D	E	F
	Cumulative Metal Limits (lb./ac.)	Max Metal Loading/yr (lb./ac./yr)	Metals in Sludge (lb./ton)	Metals Applied Annually at SARN (lb./ac./yr)	Metals Applied Annually at SARM (lb./ac./yr)	Max Sludge Loading Rate (ton/ac.)
Pollutants	Appendix C	Appendix C	(Step 1)	C x SARN	B/C	A/C
Arsenic	36	1.8	0.00182	0.013671362	0.013671362	19780.21978
Cadmium	35	1.7	0.0017	0.012769953	0.012769953	20588.23529
Chromium	2677	134	0.0244	0.183286385	0.183286385	109713.1148
Copper	1339	67	0.53276	4.001953052	4.001953052	2513.326826
Lead	268	13	0.02314	0.173821596	0.173821596	11581.67675
Mercury	15	0.76	0.00032	0.002403756	0.002403756	46875
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.0245	0.184037559	0.184037559	15306.12245
Selenium	89	4.5	0.0058	0.043568075	0.043568075	15344.82759
Zinc	2500	125	1.07846	8.101107981	8.101107981	2318.120283
Other						

If value in column B > D use nitrogen for biosolids application rate.

If value in column B < D use pollutant for biosolids application rate.

Step 6. CALCULATE SITE LIFE AND MAXIMUM APPLICATION RATE BASED ON CUMULATIVE LOADING OF NITROGEN OR LIMITING METAL(S).

A. Maximum allowable cumulative biosolids loading rate:	2318.12
B. Previous application of biosolids:	3.63
C. Remaining biosolids application rate to reach metal limits:	2314.49
D. Maximum allowable biosolids application rate:	7.51
E. Years remaining to reach the maximum cumulative loading:	308

Attachment D

Quarterly Sludge Summary Report Form

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 have more than one permitted site, then fill-out this form for each one of those sites.
 Note 4: Please send a copy of this sheet and all attachments to the local TCEQ regional office.

For TCEQ Quarter:	Reporting period:	From September	to August 31,
Registration No:	<u>WQ 0004859000</u>	Date	
Name of Registrant:	<u>Harold H. Wallace, Jr</u>		
Mailing Address:	<u>101 Bar Ranch</u>		
Contact Person	Name	Telephone	
	<u>Harold H. Wallace, Jr</u>	No: <u>361-877-5494</u>	

Field No. (if any): 6 (Submit separate form for each field, if site has two or more fields).

Class B Sewage Sludge Land Applied: 0.42 dry tons /quarter
 Treated Domestic Septage - Land Applied: 0.0 gallons /quarter
 Method used to treat Domestic Septage:
 Water Treatment Plant Sludge - Land Applied: 0.42 dry tons /quarter
 Class A sludge land applied: 0.0 dry tons /quarter

a. Acreage used for Sludge Application/disposal at this site

b. Site Vegetation (such as grass type etc) and # of cuttings Coastal Hay, 3 cuttings, moderate graze.

c. Does any of the sludge you have generated or received NOT MEET concentration limits for any of the metals listed in Table 3 of "30 TAC §312.43 (b)"? Yes No

d. Site location Latitude: 28° 14' 14" N Longitude: 97° 52' 52" W

e. Site physical address: 101 Bar Ranch, 680 IH 37 Access, Mathis, TX 78368

Please attach the information regarding the following items (Sewage Sludge only):

* Please note the following information shall be provided in computer generated report format:

* Please place check mark before each item below to indicate you have attached that item with this report.

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

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

Part 1: Biosolids Application Rate

Fields 1, 4, 5

9/01/2013 to 8/31/2014

Step 1- CALCULATE QUANTY OF NUTRIENTS & METALS IN POUNDS PER TON.

Nutrients	Percent	Conversion Factor	Pounds per ton
Total Nitrogen (TKN)	0.31	x 20 =	6.2
Ammonium Nitrogen (NH ₄)	0.04	x 20 =	0.8
Nitrate Nitrogen (NO ₃)	0.16	x 20 =	3.2
Total Phosphorus (P)	0.14	x 20 =	2.8
Total Potassium (K)	0.07	x 20 =	1.4

Pollutants (mg/kg x 0.002 = lb./ton)	mg/kg*	lb./ton
Total Arsenic (As)	0.91	x 0.002 = 0.00182
Total Cadmium (Cd)	0.85	x 0.002 = 0.0017
Total Chromium (Cr)	12.2	x 0.002 = 0.0244
Total Copper (Cu)	266.38	x 0.002 = 0.53276
Total Lead (Pb)	11.57	x 0.002 = 0.02314
Total Mercury (Hg)	0.16	x 0.002 = 0.00032
Total Molybdenum (Mo)	3.78	x 0.002 = 0.00756
Total Nickel (Ni)	12.25	x 0.002 = 0.0245
Total Selenium (Se)	2.9	x 0.002 = 0.0058
Total Zinc (Zn)	539.23	x 0.002 = 1.07846

* Values from sludge tests (dry weight)

(Conversion: mg/kg x 0.0001 = %; PPM = mg/kg)

Step 2.- SOIL TEST ANALYSIS AND FERTILIZER RECOMMENDATIONS

Note: Please include fertilizer recommendation from the local County Extension Service or equivalent source for determining the nitrogen need for the specific crop(s)

Intended Crop(s): Bermudagrass and native pasture grasses, Winter Rye.

Yield Goal(s): 6.5 tons/ac forage, 3 cuttings, moderate graze.

pH: 7.7

	<u>N lb/ac</u>
A. Crop nutrient need for specific yield**	<u>325</u>
B. Nutrients available in soil	<u>299</u>
= 2 x NO ₃ -N (ppm)(0-6"soil depth)+ 6 x NO ₃ -N(ppm)(6-24" soil depth)	
C. Nutrient amount still needed: (A -B) (enter this amount in step 4A.)	<u>26</u>

** Crop nutrient need is based on 50 lb.N/ton of forage, Texas Agriculture Extension Service, Fertilizing Summer Perennial Pastures, Publication I-2210.

Step 3 - CALCULATE THE PLANT AVAILABLE NITROGEN (PAN) PROVIDED BY THE SLUDGE.

(Use the values for Total N, NH₄-N and NO₃-N from Step 1)

	<u>%</u>	<u>lb./ton</u>
A. Organic-N = Total N-(NH ₄ -N+NO ₃ -N)	<u>0.11</u>	<u>2.2</u>
B. Ammonium Nitrogen (NH ₄ -N)	<u>0.04</u>	<u>0.8</u>
C. Nitrate Nitrogen (NO ₃ -N)	<u>0.16</u>	<u>3.2</u>
D.Total PAN = (0.3 x 3A) + (0.5 x 3B) + 3C =	<u>0.213</u>	<u>4.26</u>

Step 4. CALCULATE MAXIMUM SLUDGE APPLICATION RATE FROM CROP NITROGEN NEED (BARN):

A. Enter amount from Step 2. Nitrogen amount still needed:	<u>26</u>
B. Enter amount from Step 3D. Total PAN in sludge	<u>4.26</u>
C. Sludge application rate(SARN)	<u>6.10</u>

Step 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SARM).

	A	B	C	D	E	F
	Cumulative Metal Limits (lb./ac.)	Max Metal Loading/yr (lb./ac./yr)	Metals in Sludge (lb./ton)	Metals Applied Annually at SARN (lb./ac./yr)	Metals Applied Annually at SARM (lb./ac./yr)	Max Sludge Loading Rate (ton/ac.)
Pollutants	Appendix C	Appendix C	(Step 1)	C x SARN	B/C	A/C
Arsenic	36	1.8	0.00182	0.011107981	0.011107981	19780.21978
Cadmium	35	1.7	0.0017	0.010375587	0.010375587	20588.23529
Chromium	2677	134	0.0244	0.148920188	0.148920188	109713.1148
Copper	1339	67	0.53276	3.251586854	3.251586854	2513.326826
Lead	268	13	0.02314	0.141230047	0.141230047	11581.67675
Mercury	15	0.76	0.00032	0.001953052	0.001953052	46875
Molybdenum	Monitor	Monitor				
Nickel	375	18.7	0.0245	0.149530516	0.149530516	15306.12245
Selenium	89	4.5	0.0058	0.035399061	0.035399061	15344.82759
Zinc	2500	125	1.07846	6.582150235	6.582150235	2318.120283
Other						

If value in column B > D use nitrogen for biosolids application rate.

If value in column B < D use pollutant for biosolids application rate.

Step 6. CALCULATE SITE LIFE AND MAXIMUM APPLICATION RATE BASED ON CUMULATIVE LOADING OF NITROGEN OR LIMITING METAL(S).

A. Maximum allowable cumulative biosolids loading rate:	2318.12
B. Previous application of biosolids:	3.63
C. Remaining biosolids application rate to reach metal limits:	2314.49
D. Maximum allowable biosolids application rate:	6.10
E. Years remaining to reach the maximum cumulative loading:	379

Wastewater Treatment Plants
September 1, 2013 to August 31, 2014

Date: 9/04/2014

Facility Name	Permit Number	Location
Aransas Pass	WQ0010521002	San Patricio
CINTAS		
Chase Field, Beeville	WQ0010124004	Bee County
Beeville, City of	WQ0010124002	Bee County
George West	WQ0010455001	Live Oak
Kleberg Co. Pct 3		Kleberg County
McMullen WCID 1		McMullen County
PEECO		
Rockport, City of	WQ0010054001	Aransas County
Skidmore, City of	WQ0014112001	Bee County
Taft, City of	WQ0010705001	San Patricio
Three Rivers, City of	WQ0010301001	Live Oak
Three Rivers, FCI	WQ0013461001	Live Oak
Tynan Water Supply WWTP	WQ0014123001	Bee County
Woodboro	WQ0010156001	San Patricio

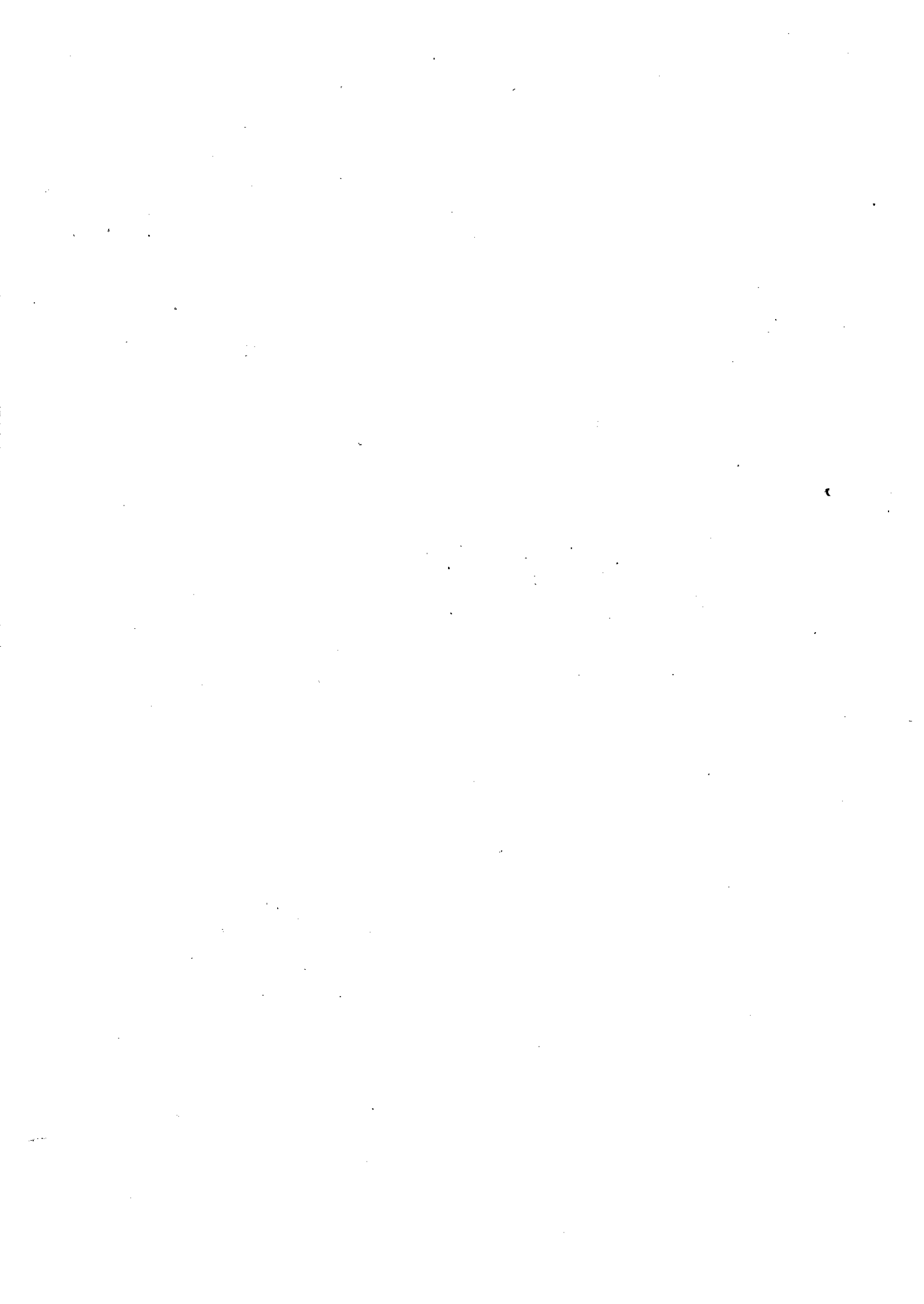
TCEQ PERMIT NO. WQ0004859000

Harold H Wallace, Jr
 101 BAR RANCH ENVIRONMENTAL
 c/o 101 Bar Ranch
 680 IH 37 Access
 Mathis, TX 78368

Date Tickets Loads Gallons Metric ton Loads Yards Metric ton Field Transporter

BIOSOLIDS

Calliham										
Aug-14	7502-7507		6	30000	2.520			0.000	2ABC	101 Bar
CINTAS										
Jun-14	7464;7276				0.000	2	40	0.003	5ABC	101 Bar
Jul-14	7294				0.000	1	20	2.250	5ABC	101 Bar
Aug-14	7227;7234				0.000	2	40	4.500	5ABC	101 Bar
City of Aransas Pass										
Jul-14	7283-7284;7287-7289;				0.000	6	90	10.125	5ABC	101 Bar
	7292				0.000			0.000	5ABC	101 Bar
Aug-14	7228-7231;7251;7296-				0.000	7	105	11.813	5ABC	101 Bar
	7297				0.000			0.000	5ABC	101 Bar
City of Beeville										
Jun-14	19140-19175;19326-				0.000	42	252	28.350	1ABC	Beeville
	19331				0.000			0.000	1ABC	Beeville
Jul-14	19348-19355				0.000	8	48	5.400	1ABC	Beeville
Aug-14	19226-19230;19357-				0.000	25	144	16.200	1ABC	Beeville
	19357				0.000			0.000	1ABC	Beeville
City of Rockport										



Jun-14	7216	1	5000	0.420			0.000	2ABC	101 Bar
TCEQ PERMIT NO. WQ0004859000								Page 3	
		Loads	Gallons	M tons	Loads	Yards	M ton	Field	Transporter
SEPTIGE									
AJ's Logistic, LLC									
Jun-14	18121	1	5460	0.459			0.000	2ABC	AJ's
A & R Septic Service									
Jun-14	1154-1170;1491-1497	24	68470	5.751			0.000	2ABC	A & R
Jul-14	1171-1185	15	29250	2.457			0.000	2ABC	A & R
Aug-14	1186-1193;18396	9	13960	1.173			0.000	2ABC	A & R
EQUIP Enterprises									
Jul-14	7224-7225	2	10000	0.840			0.000	2ABC	101 Bar
Platinum Plumbing									
Jun-14	1897618984;tom;18985-	19	92720	7.788			0.000	2ABC	Platinum Plumbing
	18990;18992-18994			0.000			0.000	2ABC	Platinum Plumbing
Jul-14	18995-19000;19101-	11	53680	4.509			0.000	2ABC	Platinum Plumbing
	19105			0.000			0.000	2ABC	Platinum Plumbing
Stump Enterprise									
Jul-14	18927;19201-19202	3	17250	1.449			0.000	2ABC	Stump
TanMar Companies, LLC									
Jul-14	19401	1	3000	0.252			0.000	2ABC	TanMar
Aug-14	18691-18692;19407	3	11000	0.924			0.000	2ABC	TanMar
		TOTAL LD	TOTAL GAL	TOTAL MT	TOTAL LD	TOTAL YD	TOTAL MT		
		118	596990	50.147	124	1179	114.641		

Wallace Quarterly Report Calculations

4th Quarter, June 1, 2014 to August 31, 2014

Biosolids

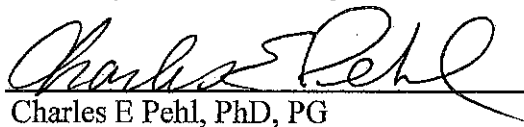
1 (mTons)	2 (mTons)	3 (mTons)	4 (mTons)	5 (mTons)	6 (mTons)
28.35	0.840		0.84	0.003	0.42
5.4	0.840		0.42	2.25	
16.2	3.780		2.25	4.5	
	0.017		2.25	10.125	
	1.697		4.5	11.813	
	0.42		6.75	12.375	
			9	6.75	
			12	1.125	
49.95	7.59	0.00	38.01	48.94	0.42
<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>
55.02	8.37	0.00	41.87	53.91	0.46

Water Sludge

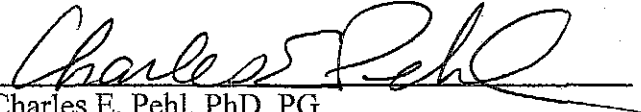
1	2	3	4	5	6
					0.42
0.00	0.00	0.00	0.00	0.00	0.42
<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>	<i>dry ton</i>
0.00	0.00	0.00	0.00	0.00	0.46

Septic

1 (gallons)	2 (gallons)	3 (gallons)	4 (gallons)	5 (gallons)	6 (gallons)
	5460				
	68470				
	29250				
	13960				
	30000				
	10000				
	92720				
	53680				
	17250				
	3000				
	11000				
0	334790	0	0	0	0


 Charles E Pehl, PhD, PG

Cumulative Soil Pollutants
to May 27, 2014

Samples Collected: May 27, 2014										
Sample Number	As (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Zn (mg/kg)
C14050263	2.62	0.705	9.41	103	17.6	0.279	2.42	5.98	1.21	157
C14050265	2.19	0.548	8.63	24.1	7.43	0.122	2.19	3.25	1.1	33.2
C14050267	2.02	0.505	3.03	21.3	6.17	0.105	2.02	2.5	1.01	32.5
C14050269	2.07	0.519	1.87	21.8	3.64	0.119	2.07	2.33	1.04	35
<i>Mean</i>	<i>2.23</i>	<i>0.57</i>	<i>5.74</i>	<i>42.55</i>	<i>8.71</i>	<i>0.16</i>	<i>2.18</i>	<i>3.52</i>	<i>1.09</i>	<i>64.43</i>
<i>St Dev</i>	<i>0.27282473</i>	<i>0.09225463</i>	<i>3.83587886</i>	<i>40.3184408</i>	<i>6.13261771</i>	<i>0.08216802</i>	<i>0.17823206</i>	<i>1.69124215</i>	<i>0.08831761</i>	<i>61.7256497</i>
<i>Kgs/Ha</i>	<i>4.98</i>	<i>1.28</i>	<i>12.85</i>	<i>95.31</i>	<i>19.51</i>	<i>0.35</i>	<i>4.87</i>	<i>7.87</i>	<i>2.44</i>	<i>144.31</i>
<i>Lbs/Ac</i>	<i>4.45</i>	<i>1.14</i>	<i>11.47</i>	<i>85.10</i>	<i>17.42</i>	<i>0.31</i>	<i>4.35</i>	<i>7.03</i>	<i>2.18</i>	<i>128.85</i>
 Charles E. Pehl, PhD, PG										

TCEQ PERMIT NO. WQ0004859000

Harold H Wallace, Jr
 101 BAR RANCH ENVIRONMENTAL
 c/o 101 Bar Ranch
 680 IH 37 Access
 Mathis, TX 78368

Date Tickets Loads Gallons Metric ton Loads Yards Metric ton Field Transporter

BIOSOLIDS

BIOSOLIDS									
Calliham									
Aug-14	7502-7507	6	30000	2.520			0.000	2ABC	101 Bar
CINTAS									
Jun-14	7464;7276			0.000	2	40	0.003	5ABC	101 Bar
Jul-14	7294			0.000	1	20	2.250	5ABC	101 Bar
Aug-14	7227;7234			0.000	2	40	4.500	5ABC	101 Bar
City of Aransas Pass									
Jul-14	7283-7284;7287-7289;			0.000	6	90	10.125	5ABC	101 Bar
	7292			0.000			0.000	5ABC	101 Bar
Aug-14	7228-7231;7251;7296-			0.000	7	105	11.813	5ABC	101 Bar
	7297			0.000			0.000	5ABC	101 Bar
City of Beeville									
Jun-14	19140-19175;19326-			0.000	42	252	28.350	1ABC	Beeville
	19331			0.000			0.000	1ABC	Beeville
Jul-14	19348-19355			0.000	8	48	5.400	1ABC	Beeville
Aug-14	19226-19230;19357-			0.000	25	144	16.200	1ABC	Beeville
	19357			0.000			0.000	1ABC	Beeville
City of Rockport									

Jun-14	7277;7465-7473;7475			0.000	11	110	12.375	5ABC	101 Bar
Jul-14	7278-7279;7285;7290-			0.000	6	60	6.750	5ABC	101 Bar
	7291;7293			0.000			0.000	5ABC	101 Bar
TCEQ PERMIT NO. WQ0004859000								Page 2	
		Loads	Gallons	M tons	Loads	Yards	M ton	Field	Transporter
Aug-14	7232			0.000	1	10	1.125	5ABC	101 Bar
				0.000			0.000	5ABC	101 Bar
				0.000			0.000	5ABC	101 Bar
City of Skidmore									
Jul-14	7478-7479	2	10000	0.840			0.000	4ABC	101 Bar
City of Three Rivers									
Jun-14	7474			0.000	1	20	2.250	4ABC	TR & 101
Jul-14	7286;7486	1	5000	0.420	1	20	2.250	4ABC	TR & 101
Aug-14	7295;7233			0.000	2	40	4.500	4ABC	TR & 101
FCI-Three Rivers									
Jun-14	7462-7463			0.000	2	40	6.750	4ABC	101 Bar
Jul-14	7280-7282			0.000	3	60	0.000	4ABC	101 Bar
Aug-14	7226;7298-7300			0.000	4	80	0.000	4ABC	101 Bar
Kleberg County Prc. 3									
Jun-14	7219	1	5000	0.420			0.000	6A	101 Bar
McMullen County Water Control Dist #1									
Jun-14	7212;7214	2	10000	0.840			0.000	2ABC	101 Bar
Jul-14	7281;7483	2	10000	0.840			0.000	2ABC	101 Bar
Aug-14	7495;7497;7501-7507	9	45000	3.780			0.000	2ABC	101 Bar
PEECO									
Jun-14	7215	1	200	0.017			0.000	2ABC	101 Bar
Jul-14	7484-7485;7487-7489	5	202000	16.968			0.000	2ABC	101 Bar
Tynan Water Supply Corp.									

Jun-14	7216	1	5000	0.420			0.000	2ABC	101 Bar
TCEQ PERMIT NO. WQ0004859000								Page 3	
		Loads	Gallons	M tons	Loads	Yards	M ton	Field	Transporter
SEPTIGE									
AJ's Logistic,LLC									
Jun-14	18121	1	5460	0.459			0.000	2ABC	AJ's
A & R Septic Service									
Jun-14	1154-1170;1491-1497	24	68470	5.751			0.000	2ABC	A & R
Jul-14	1171-1185	15	29250	2.457			0.000	2ABC	A & R
Aug-14	1186-1193;18396	9	13960	1.173			0.000	2ABC	A & R
EQUIP Enterprises									
Jul-14	7224-7225	2	10000	0.840			0.000	2ABC	101 Bar
Platinum Plumbing									
Jun-14	1897618984;18985-	19	92720	7.788			0.000	2ABC	Platinum Plumbing
	18990;18992-18994			0.000			0.000	2ABC	Platinum Plumbing
Jul-14	18995-19000;19101-	11	53680	4.509			0.000	2ABC	Platinum Plumbing
	19105			0.000			0.000	2ABC	Platinum Plumbing
Stump Enterprise									
Jul-14	18927;19201-19202	3	17250	1.449			0.000	2ABC	Stump
TanMar Companies, LLC									
Jul-14	19401	1	3000	0.252			0.000	2ABC	TanMar
Aug-14	18691-18692;19407	3	11000	0.924			0.000	2ABC	TanMar
		TOTAL LD	TOTAL GAL	TOTAL MT	TOTAL LD	TOTAL YD	TOTAL MT		
		118	596990	50.147	124	1179	114.641		