



## 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 4th Reporting Period from 2012 To 2013  
 PERMIT NO.: 04462 DATE: September 15, 2013  
 NAME OF PERMITEE: TRS Enviroganics  
 MAILING ADDRESS: PO Box 73006  
Houston, TX 77273-3006  
 CONTACT NAME: Todd Shearin TELEPHONE NO.: (336) 266-9134

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

1. Class B Sewage Sludge -Land Applied: 45.26 dry tons/quarter  
 2. Treated Domestic Septage- Land Applied: 0.00 gallons/quarter  
 Method used to treat Domestic Septage N/A  
 3. Water Treatment Plant Sludge- Land Applied: 0.0 dry tons/quarter  
 4. Class A Sludge- Land Applied: 0.00 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: Bermuda-hay cutting & heavy grazing  
 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 Deg 04 Min Longitude: 96 Deg 05 Min  
 e. Site physical address: 4.8 miles west of the intersection of Hwy 290 & Hwy 6

**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

- 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 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: PO Box 73006  
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 CONTACT NAME: Todd Shearin TELEPHONE NO.: (336) 266-9134

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

- |   |  |                                 |
|---|--|---------------------------------|
| 1. Class B Sewage Sludge -Land Applied:   | <u>301.22</u>  | dry tons/quarter                |
| 2. Treated Domestic Septage- Land Applied:  | <u>0.00</u>  | gallons/quarter                 |
| Method used to treat Domestic Septage   | <u>N/A</u>   |                                 |
| 3. Water Treatment Plant Sludge- Land Applied:  | <u>0.0</u>   | dry tons/quarter                |
| 4. Class A Sludge- Land Applied:  | <u>0.00</u>  | dry tons/quarter                |
| a. Acreage used for Sludge Application/disposal at this site:   | <u>78.0</u>  | acres                           |
| b. Site Vegetation (such as grass type etc) and # of cuttings:  | <u>Bermuda-hay cutting &amp; heavy grazing</u>                   |                                 |
| 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 <u>                    </u>                                  | No <u>X</u>                     |
| d. Site Location Latitude:  | <u>30 Deg 04 Min</u>   | Longitude: <u>96 Deg 05 Min</u> |
| e. Site physical address:   | <u>4.8 miles west of the intersection of Hwy 290 &amp; Hwy 6</u> |                                 |

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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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 NAME OF PERMITEE: TRS Enviroganics  
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Houston, TX 77273-3006  
 CONTACT NAME: Todd Shearin TELEPHONE NO.: (336) 266-9134

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

1. Class B Sewage Sludge -Land Applied: 416.87 dry tons/quarter  
 2. Treated Domestic Septage- Land Applied: 0.00 gallons/quarter  
 Method used to treat Domestic Septage N/A  
 3. Water Treatment Plant Sludge- Land Applied: 0.0 dry tons/quarter  
 4. Class A Sludge- Land Applied: 0.00 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: Bermuda-hay cutting & heavy grazing  
 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 Deg 04 Min Longitude: 96 Deg 05 Min  
 e. Site physical address: 4.8 miles west of the intersection of Hwy 290 & Hwy 6

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

**SOURCES APPROVED FOR  
LOOK RANCH  
WQ0004462000**

As of 9/1/13

Source Name	Source Permit #	Source Name	Source Permit #	Source Name	Source Permit #
ATASCOCITA 109	WQ0011533-001	HC MUD 150	WQ0011863-001	Prestonwood MUD	WQ0011089-001
BAMMEL	WQ0011105-001	HC MUD 157	WQ0011906-001	REID ROAD	WQ0011563-001
BARWOOD	WQ0010876-001	HC MUD 166	WQ0012474-001	REMINGTON MUD	WQ0013328-001
BELLAIRE	WQ0010550-001	HC MUD 230	WQ0012877-001	RENN ROAD	WQ0012078-001
BRAZOS ISD	WQ0011719-001	HC MUD 238	WQ0012802-001	RICHEY ROAD	WQ0011563-001
CHELFORD	WQ0011599-001	HC MUD 250	WQ0014811-001	ROLLING CREEK UD	WQ0012841-001
CINCO CENTRAL (HC MUD 81)	WQ0013558-001	HC MUD 358 (FAIRFIELD)	WQ0013296-002	ROMAN FOREST	WQ0013638-001
CNP	WQ0011239-001	HC MUD 368	WQ0012044-001	SHENANDOAH, CITY OF	WQ0012212-001
COFFIELD UNIT	WQ0010823-001	HC WCID 074	WQ0010679-001	SJRA - MAIN	WQ0011401-001
(HC MUD 208)	WQ0011947-001	HC WCID 116	WQ0010955-001	SJRA - 3	WQ0011658-001
COUNTRYSIDE ESTATES	WQ0011249-001	HC WCID 119	WQ11024-001	SPLENDORA, CITY OF	WQ0013389-001
CREEKSIDE VILLAGE	WQ0014531-001	HC WCID 133	WQ0014538-001	STEEPLECHASE (HC MUD 123)	WQ0012121-001
CYPRESS KLEIN UD	WQ0011366-001	HC WCID 84	WQ0010558-001	SUGARLAND REGION	WQ0011317-001
DAISETTA, CITY OF	WQ0010736-001	HITCHCOCK	WQ0010690-001	TIMBERLAKE ID	WQ0011267-001
DECKER HILLS	WQ0012587-001	HORSEPEN BAYOU	WQ0012128-001	TIMBERLANE	WQ0011142-002
EL DORADO	WQ0011302-001	JACKRABBIT PUD	WQ0011290-001	TRAIL OF THE LAKES	WQ0011901-001
EMERALD FOREST	WQ0011201-001	JERSEY VILLAGE	WQ0012681-001	TOMBALL NORTH PLANT 1	WQ0010616-001
ESTELLE UNIT	WQ0011180-002	KATY, CITY OF	WQ0010706-001	TOMBALL SOUTH	WQ0010616-002
FAULKEY GULLY MUD	WQ0011832-001	KLEINWOOD	WQ0011409-001	TRESCHWIG CENTRAL	WQ0011141-001
FLATONIA, CITY OF	WQ0010101-001	LAKE FOREST	WQ0011084-001	WALLIS, CITY OF	WQ0010765-001
FB MUD 23	WQ0011999-001	LAMAR ISD-WILLIAMS	WQ0013007-001	WEST UNIVERSITY	WQ0010058-001
FB MUD 37	WQ0012370-001	LANGHAM CREEK	WQ0011682-001	WHC MUD 07	WQ0012140-001
FB WCID 2	WQ0010086-002	LIBERTY, CITY OF	WQ0010108-001	WHC MUD 11	WQ0013689-001
GALVESTON CO WCID 8 (SANTA FE)	WQ0010174-001	LUTHER UNIT	WQ0012458-002	WHC MUD 17	WQ0012247-001
GRAND LAKES 4	WQ0013245-001	MAYDE CREEK	WQ11969-001	WHITE OAK BAYOU	WQ0011538-001
GRAND MISSION MUD 1	WQ0014231-001	MC WCID 1	WQ0010857-001	WINCHESTER (WHC MUD 10)	WQ0014072-001
Greenwood UD	WQ0011061-001	MILLS ROAD	WQ0011907-002	City of Houston - Beltway	WQ0010495-111
GULF COAST TRADE	WQ0011829-001	MONT BELVIEU	WQ0011030-001	City of Houston - Chocolate Bayou	WQ0010495-009
HASTINGS GREEN	WQ0010876-002	MONTGOMERY, CITY OF	WQ0011521-001	City of Houston - Green Ridge	WQ0010495-110
HC MUD 001	WQ0011630-001	NORTH HAMPTON	WQ0010910-001	City of Houston - Imperial Valley	WQ0010495-101
HC MUD 006	WQ0011273-001	NORTHPOINTE REGIONAL (NWHC MUD 15)	WQ0011939-001	City of Houston - Keegans Bayou	WQ0010495-119
HC MUD 023	WQ0011485-001	NOTTINGHAM	WQ0012479-001	City of Houston - Kinwood Central	WQ0010495-146
HC MUD 024	WQ0011988-001	NWHC MUD 05	WQ0011824-002	City of Houston - Metro Central	WQ0010495-136
HC MUD 070	WQ0011486-001	NWHC MUD 16	WQ0011935-001	City of Houston - North Gate	WQ0010495-100
HC MUD 071	WQ0011917-001	OLD EGYPT	WQ0014141-001	City of Houston - Sims North	WQ0010495-002
HC MUD 102	WQ0011523-001	PACK UNIT	WQ0013743-001	City of Houston - Southeast	WQ0010495-079
HC MUD 105	WQ0011792-002	PORTER MUD	WQ0012242-001	City of Houston - Upper Brays	WQ0010495-116
HC MUD 127	WQ0012209-001	Prairie View A&M	WQ0011275-002		

Site # 04462

Field E

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.0036	0.0025	0.0111	0.1727	0.0064	0.0003	0.0053	0.0094	0.0036	0.3672

Site # 04462

Field F

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.5281	0.5742	5.7278	60.9893	3.6138	1.9356	0.9797	2.1789	7.3140	73.4424

Site # 04462

Field G

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.0727	0.0479	0.2327	3.8251	0.1679	0.0091	0.1319	0.1884	0.0832	7.6687

**Permit**  
**WQ 004462**

Regulated Entity:  
Customer:  
Physical Location:

RN103015509      **Look Ranch**  
CN603212135      TRS ENVIROGANICS  
4.8 mi. W of intx of Hwy 290 and Hwy 6

Sludge Delivery Dates

6/1/2013	6/24/2013	7/8/2013	7/29/2013
6/1/2013	6/24/2013	7/8/2013	7/31/2013
6/3/2013	6/24/2013	7/8/2013	7/31/2013
6/3/2013	6/25/2013	7/8/2013	8/1/2013
6/3/2013	6/25/2013	7/9/2013	8/2/2013
6/3/2013	6/25/2013	7/9/2013	8/2/2013
6/3/2013	6/26/2013	7/9/2013	8/5/2013
6/4/2013	6/26/2013	7/10/2013	8/6/2013
6/4/2013	6/26/2013	7/10/2013	8/6/2013
6/4/2013	6/26/2013	7/10/2013	8/6/2013
6/4/2013	6/26/2013	7/10/2013	8/7/2013
6/5/2013	6/26/2013	7/10/2013	8/7/2013
6/5/2013	6/27/2013	7/10/2013	8/8/2013
6/5/2013	6/27/2013	7/11/2013	8/9/2013
6/5/2013	6/28/2013	7/11/2013	8/12/2013
6/5/2013	6/28/2013	7/11/2013	8/12/2013
6/6/2013	6/28/2013	7/11/2013	8/12/2013
6/6/2013	6/28/2013	7/12/2013	8/13/2013
6/6/2013	6/29/2013	7/12/2013	8/13/2013
6/6/2013	7/1/2013	7/15/2013	8/14/2013
6/6/2013	7/1/2013	7/15/2013	8/14/2013
6/6/2013	7/1/2013	7/15/2013	8/14/2013
6/6/2013	7/1/2013	7/15/2013	8/14/2013
6/6/2013	7/1/2013	7/16/2013	8/14/2013
6/7/2013	7/1/2013	7/16/2013	8/15/2013
6/7/2013	7/1/2013	7/17/2013	8/15/2013
6/10/2013	7/1/2013	7/17/2013	8/15/2013
6/11/2013	7/1/2013	7/18/2013	8/16/2013
6/11/2013	7/2/2013	7/18/2013	8/16/2013
6/11/2013	7/2/2013	7/19/2013	8/19/2013
6/12/2013	7/2/2013	7/19/2013	8/19/2013
6/12/2013	7/2/2013	7/19/2013	8/19/2013
6/13/2013	7/2/2013	7/22/2013	8/20/2013
6/13/2013	7/2/2013	7/22/2013	8/21/2013
6/14/2013	7/2/2013	7/22/2013	8/22/2013
6/17/2013	7/3/2013	7/22/2013	8/23/2013
6/17/2013	7/3/2013	7/24/2013	8/23/2013
6/17/2013	7/3/2013	7/24/2013	8/23/2013
6/18/2013	7/3/2013	7/24/2013	8/23/2013
6/18/2013	7/3/2013	7/24/2013	8/26/2013
6/18/2013	7/4/2013	7/24/2013	8/26/2013
6/19/2013	7/5/2013	7/25/2013	8/28/2013
6/19/2013	7/5/2013	7/25/2013	8/28/2013
6/20/2013	7/5/2013	7/25/2013	8/28/2013
6/21/2013	7/5/2013	7/26/2013	8/29/2013
6/21/2013	7/5/2013	7/26/2013	8/30/2013
6/21/2013	7/8/2013	7/29/2013	8/30/2013
6/24/2013	7/8/2013	7/29/2013	

Sludge Land Application Information

	<u>date</u>	<u>Field</u>	<u>Source</u>	<u>Tons</u>	<u>Path A</u>	<u>Path B</u>	<u>Vector</u>	<u>Limit 1</u>	<u>Limit 3</u>
1	6/1/2013	F	HC WCID 133	8.81	N	Y	Y	N	N
2	6/1/2013	F	Treschwig	3.69	N	Y	Y	N	N
3	6/3/2013	F	Chelford	10.79	N	Y	Y	N	N
4	6/3/2013	F	Copperfield	4.69	N	Y	Y	N	N
5	6/3/2013	F	Jackrabbit	2.39	N	Y	Y	N	N
6	6/3/2013	F	Nottingham	2.7	N	Y	Y	N	N
7	6/3/2013	F	Treschwig	7.39	N	Y	Y	N	N
8	6/4/2013	F	Chelford	5.39	N	Y	Y	N	N
9	6/4/2013	F	Copperfield	2.34	N	Y	Y	N	N
10	6/4/2013	F	Mayde Creek	6.64	N	Y	Y	N	N
11	6/4/2013	F	Porter	2.97	N	Y	Y	N	N
12	6/5/2013	F	Copperfield	2.34	N	Y	Y	N	N
13	6/5/2013	F	Jackrabbit	2.39	N	Y	Y	N	N
14	6/5/2013	F	Mayde Creek	6.64	N	Y	Y	N	N
15	6/5/2013	F	SJRA 3	5.87	N	Y	Y	N	N
16	6/5/2013	F	Treschwig	7.39	N	Y	Y	N	N
17	6/6/2013	F	Bammel	2.58	N	Y	Y	N	N
18	6/6/2013	F	Copperfield	2.34	N	Y	Y	N	N
19	6/6/2013	F	Faulkey Gully	6.1	N	Y	Y	N	N
20	6/6/2013	F	Horsepen	2.12	N	Y	Y	N	N
21	6/6/2013	F	Horsepen	6.36	N	Y	Y	N	N
22	6/6/2013	F	Mayde Creek	3.32	N	Y	Y	N	N
23	6/6/2013	F	Mayde Creek	1.11	N	Y	Y	N	N
24	6/6/2013	F	SJRA 3	1.17	N	Y	Y	N	N
25	6/7/2013	F	Faulkey Gully	6.1	N	Y	Y	N	N
26	6/7/2013	F	Horsepen	6.36	N	Y	Y	N	N
27	6/10/2013	F	Chelford	5.39	N	Y	Y	N	N
28	6/11/2013	F	Copperfield	2.34	N	Y	Y	N	N
29	6/11/2013	F	Nottingham	2.7	N	Y	Y	N	N
30	6/11/2013	F	Prestonwood	2.19	N	Y	Y	N	N
31	6/12/2013	F	Chelford	5.39	N	Y	Y	N	N
32	6/12/2013	F	Copperfield	2.34	N	Y	Y	N	N
33	6/13/2013	F	Chelford	5.39	N	Y	Y	N	N
34	6/13/2013	F	Copperfield	2.34	N	Y	Y	N	N
35	6/14/2013	F	Chelford	5.39	N	Y	Y	N	N
36	6/17/2013	F	Chelford	5.39	N	Y	Y	N	N
37	6/17/2013	F	Cinco	3.88	N	Y	Y	N	N
38	6/17/2013	F	Nottingham	2.7	N	Y	Y	N	N
39	6/18/2013	F	Chelford	5.39	N	Y	Y	N	N
40	6/18/2013	F	Cinco	7.76	N	Y	Y	N	N
41	6/18/2013	F	Prestonwood	2.19	N	Y	Y	N	N
42	6/19/2013	F	Chelford	10.79	N	Y	Y	N	N
43	6/19/2013	F	Cinco	1.35	N	Y	Y	N	N
44	6/20/2013	F	Prestonwood	2.19	N	Y	Y	N	N
45	6/21/2013	F	Chelford	5.39	N	Y	Y	N	N
46	6/21/2013	F	Copperfield	2.34	N	Y	Y	N	N
47	6/21/2013	F	Jackrabbit	2.39	N	Y	Y	N	N
48	6/24/2013	F	Bammel	2.58	N	Y	Y	N	N

<u>Sludge Land Application Information</u>				<u>Path A</u>	<u>Path B</u>	<u>Vector</u>	<u>Limit 1</u>	<u>Limit 3</u>	
1	6/24/2013	F	Chelford	10.79	N	Y	Y	N	N
2	6/24/2013	F	Jackrabbit	2.39	N	Y	Y	N	N
3	6/24/2013	F	Nottingham	2.7	N	Y	Y	N	N
4	6/25/2013	F	Chelford	2.7	N	Y	Y	N	N
5	6/25/2013	F	Jackrabbit	2.39	N	Y	Y	N	N
6	6/25/2013	F	Lake Forest	6.85	N	Y	Y	N	N
7	6/26/2013	F	Chelford	8.09	N	Y	Y	N	N
8	6/26/2013	F	Copperfield	2.34	N	Y	Y	N	N
9	6/26/2013	F	Hastings Green	2.4	N	Y	Y	N	N
10	6/26/2013	F	HC WCID 133	8.81	N	Y	Y	N	N
11	6/26/2013	F	Lake Forest	1.71	N	Y	Y	N	N
12	6/26/2013	F	Lake Forest	3.43	N	Y	Y	N	N
13	6/27/2013	F	Hastings Green	7.2	N	Y	Y	N	N
14	6/27/2013	F	HC WCID 133	5.87	N	Y	Y	N	N
15	6/28/2013	F	Chelford	8.09	N	Y	Y	N	N
16	6/28/2013	F	Jackrabbit	2.39	N	Y	Y	N	N
17	6/28/2013	G	Porter	2.39	N	Y	Y	N	N
18	6/28/2013	G	Hastings Green	9.6	N	Y	Y	N	N
19	6/29/2013	G	Chelford	2.7	N	Y	Y	N	N
20	7/1/2013	G	Bammel	2.58	N	Y	Y	N	N
21	7/1/2013	G	Chelford	2.7	N	Y	Y	N	N
22	7/1/2013	G	Copperfield	2.34	N	Y	Y	N	N
23	7/1/2013	G	Hastings Green	7.2	N	Y	Y	N	N
24	7/1/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
25	7/1/2013	G	Mills Road	2.12	N	Y	Y	N	N
26	7/1/2013	G	Nottingham	2.7	N	Y	Y	N	N
27	7/1/2013	G	Renn Road	3.18	N	Y	Y	N	N
28	7/1/2013	G	Treschwig	3.31	N	Y	Y	N	N
29	7/2/2013	G	Bammel	2.58	N	Y	Y	N	N
30	7/2/2013	G	Chelford	2.7	N	Y	Y	N	N
31	7/2/2013	G	Copperfield	2.34	N	Y	Y	N	N
32	7/2/2013	G	Hastings Green	4.8	N	Y	Y	N	N
33	7/2/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
34	7/2/2013	G	Renn Road	6.36	N	Y	Y	N	N
35	7/2/2013	G	Treschwig	9.94	N	Y	Y	N	N
36	7/3/2013	G	Chelford	8.09	N	Y	Y	N	N
37	7/3/2013	G	Hastings Green	9.6	N	Y	Y	N	N
38	7/3/2013	G	Mayde Creek	3.32	N	Y	Y	N	N
39	7/3/2013	G	Renn Road	6.36	N	Y	Y	N	N
40	7/3/2013	G	Treschwig	6.62	N	Y	Y	N	N
41	7/4/2013	G	Chelford	2.7	N	Y	Y	N	N
42	7/5/2013	G	Chelford	5.39	N	Y	Y	N	N
43	7/5/2013	G	Copperfield	4.69	N	Y	Y	N	N
44	7/5/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
45	7/5/2013	G	Mayde Creek	6.64	N	Y	Y	N	N
46	7/5/2013	G	Treschwig	6.62	N	Y	Y	N	N
47	7/8/2013	G	Bammel	2.58	N	Y	Y	N	N
48	7/8/2013	G	Chelford	5.39	N	Y	Y	N	N

Sludge Land Application Information

0

	<u>date</u>	<u>Field</u>	<u>Source</u>	<u>Tons</u>	<u>Path A</u>	<u>Path B</u>	<u>Vector</u>	<u>Limit 1</u>	<u>Limit 3</u>
1	7/8/2013	G	Hastings Green	4.8	N	Y	Y	N	N
2	7/8/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
3	7/8/2013	G	Mayde Creek	6.64	N	Y	Y	N	N
4	7/8/2013	G	Treschwig	1.66	N	Y	Y	N	N
5	7/9/2013	G	Chelford	2.7	N	Y	Y	N	N
6	7/9/2013	G	Copperfield	2.34	N	Y	Y	N	N
7	7/9/2013	G	Hastings Green	9.6	N	Y	Y	N	N
8	7/10/2013	G	Chelford	5.39	N	Y	Y	N	N
9	7/10/2013	G	Hastings Green	4.8	N	Y	Y	N	N
10	7/10/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
11	7/10/2013	G	Nottingham	2.7	N	Y	Y	N	N
12	7/10/2013	G	SJRA 3	4.06	N	Y	Y	N	N
13	7/10/2013	G	HC WCID 133	5.87	N	Y	Y	N	N
14	7/11/2013	G	Bammel	2.58	N	Y	Y	N	N
15	7/11/2013	G	Copperfield	4.69	N	Y	Y	N	N
16	7/11/2013	G	SJRA 3	2.03	N	Y	Y	N	N
17	7/11/2013	G	HC WCID 133	8.81	N	Y	Y	N	N
18	7/12/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
19	7/12/2013	G	Faulkey Gully	6.1	N	Y	Y	N	N
20	7/15/2013	G	Copperfield	2.34	N	Y	Y	N	N
21	7/15/2013	G	Hastings Green	2.4	N	Y	Y	N	N
22	7/15/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
23	7/15/2013	G	Walls	16.3	N	Y	Y	N	N
24	7/16/2013	G	Bammel	2.58	N	Y	Y	N	N
25	7/16/2013	G	Copperfield	2.34	N	Y	Y	N	N
26	7/17/2013	G	Copperfield	2.34	N	Y	Y	N	N
27	7/17/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
28	7/18/2013	G	Bammel	2.58	N	Y	Y	N	N
29	7/18/2013	G	Porter	2.97	N	Y	Y	N	N
30	7/19/2013	G	Copperfield	2.34	N	Y	Y	N	N
31	7/19/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
32	7/19/2013	G	Mills Road	2.12	N	Y	Y	N	N
33	7/22/2013	G	Bammel	2.58	N	Y	Y	N	N
34	7/22/2013	G	Copperfield	2.34	N	Y	Y	N	N
35	7/22/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
36	7/22/2013	G	Nottingham	2.7	N	Y	Y	N	N
37	7/24/2013	G	Bammel	2.58	N	Y	Y	N	N
38	7/24/2013	G	Copperfield	2.34	N	Y	Y	N	N
39	7/24/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
40	7/24/2013	G	HC WCID 133	2.94	N	Y	Y	N	N
41	7/24/2013	G	Cinco	4.06	N	Y	Y	N	N
42	7/25/2013	G	Copperfield	2.34	N	Y	Y	N	N
43	7/25/2013	G	HC WCID 133	11.74	N	Y	Y	N	N
44	7/25/2013	G	Cinco	8.12	N	Y	Y	N	N
45	7/26/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
46	7/26/2013	G	Cinco	8.12	N	Y	Y	N	N
47	7/29/2013	G	Bammel	2.58	N	Y	Y	N	N
48	7/29/2013	G	Copperfield	2.34	N	Y	Y	N	N

Sludge Land Application Information

0

	<u>date</u>	<u>Field</u>	<u>Source</u>	<u>Tons</u>	<u>Path A</u>	<u>Path B</u>	<u>Vector</u>	<u>Limit 1</u>	<u>Limit 3</u>
1	7/29/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
2	7/31/2013	G	Copperfield	2.34	N	Y	Y	N	N
3	7/31/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
4	8/1/2013	G	Bammel	2.58	N	Y	Y	N	N
5	8/2/2013	G	Copperfield	2.34	N	Y	Y	N	N
6	8/2/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
7	8/5/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
8	8/6/2013	G	Bammel	2.58	N	Y	Y	N	N
9	8/6/2013	G	Copperfield	2.34	N	Y	Y	N	N
10	8/6/2013	G	Nottingham	2.7	N	Y	Y	N	N
11	8/7/2013	G	Bammel	2.58	N	Y	Y	N	N
12	8/7/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
13	8/8/2013	G	Copperfield	4.69	N	Y	Y	N	N
14	8/9/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
15	8/12/2013	G	Copperfield	2.34	N	Y	Y	N	N
16	8/12/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
17	8/12/2013	G	Hastings Green	4.8	N	Y	Y	N	N
18	8/13/2013	G	Hastings Green	7.2	N	Y	Y	N	N
19	8/13/2013	G	Porter	2.97	N	Y	Y	N	N
20	8/14/2013	G	Bammel	2.58	N	Y	Y	N	N
21	8/14/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
22	8/14/2013	G	Nottingham	2.7	N	Y	Y	N	N
23	8/14/2013	G	Hastings Green	7.2	N	Y	Y	N	N
24	8/14/2013	G	SJRA 3	8.65	N	Y	Y	N	N
25	8/15/2013	G	Copperfield	2.34	N	Y	Y	N	N
26	8/15/2013	G	Hastings Green	4.8	N	Y	Y	N	N
27	8/15/2013	G	Mills Road	2.12	N	Y	Y	N	N
28	8/16/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
29	8/16/2013	G	Hastings Green	4.8	N	Y	Y	N	N
30	8/19/2013	G	Copperfield	2.34	N	Y	Y	N	N
31	8/19/2013	G	Jackrabbit	2.39	N	Y	Y	N	N
32	8/19/2013	G	Hastings Green	7.2	N	Y	Y	N	N
33	8/20/2013	E	Hastings Green	9.6	N	Y	Y	N	N
34	8/21/2013	E	Jackrabbit	2.39	N	Y	Y	N	N
35	8/22/2013	E	Copperfield	4.69	N	Y	Y	N	N
36	8/23/2013	E	Bammel	2.58	N	Y	Y	N	N
37	8/23/2013	E	Copperfield	2.34	N	Y	Y	N	N
38	8/23/2013	E	Jackrabbit	2.39	N	Y	Y	N	N
39	8/23/2013	E	Prestonwood	2.19	N	Y	Y	N	N
40	8/26/2013	E	Jackrabbit	2.39	N	Y	Y	N	N
41	8/26/2013	E	Nottingham	2.7	N	Y	Y	N	N
42	8/28/2013	E	Copperfield	2.34	N	Y	Y	N	N
43	8/28/2013	E	Jackrabbit	2.39	N	Y	Y	N	N
44	8/28/2013	E	Prestonwood	2.19	N	Y	Y	N	N
45	8/29/2013	E	Copperfield	2.34	N	Y	Y	N	N
46	8/30/2013	E	Copperfield	2.34	N	Y	Y	N	N
47	8/30/2013	E	Jackrabbit	2.39	N	Y	Y	N	N



# EASTEX ENVIRONMENTAL LABORATORY, INC.

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Bammel UD  
Water District Management  
P.O. Box 579  
Spring, TX 77383

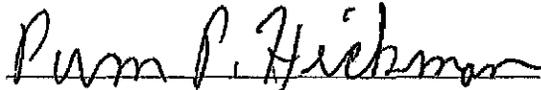
## Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Bammel Dig

Collect Date:	7/25/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	12:40 PM
Sample Number:	C1335857-01	Collector:	CAG

Test	*	Result	Units	Tech	Date	Time	Method
Percent Solid	A	1.80	%	WGW	7/26/2013	3:15:00 P	SM 2540G
Vector	N	0.56	mg O2/hr/g	SDS	7/25/2013	5:43:00 P	TAC 312.83(b)(4)

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g  
40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr  
\*Fecal Coliform result is a geometric mean of seven individual samples.

  
Pam P. Hickman, Laboratory Manager

\*NELAC Status:A=Accredited N=Accreditation not offered O=Not Accredited P=Approved  
Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.  
The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.



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Bammel UD  
Water District Management  
P.O. Box 579  
Spring, TX 77383

## Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Bammel Dig

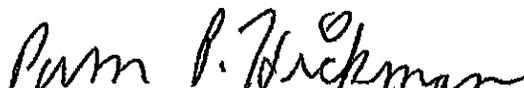
Collect Date:	7/8/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	11:25 AM
Sample Number:	C1332761-01	Collector:	SRA

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	49822	MPN/gram	LDP	7/8/2013	2:25:00 PM	Collert 18
Percent Solid	A	2.10	%	CEW	7/11/2013	2:00:00 P	SM 2540G
Vector	N	2.88	mg O <sub>2</sub> /hr/g	CEW	7/8/2013	3:30:00 PM	TAC 312.83(b)(4)
Volatile Percent Solid	A	76.8	%	CEW	7/12/2013	11:00:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O<sub>2</sub>/g Solids/hr

\*Fecal Coliform result is a geometric mean of seven individual samples.

  
Pam P. Hickman, Laboratory Manager

\*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

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11011 BROOKLET Dr. #230  
HOUSTON, TEXAS 77099  
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: CHELFORD CITY RWTF      LAB NUMBER: AD29977B  
DATE COLLECTE 20-Jul-12      DATE RECEIVED: 20-Jul-12  
DATE COMPLETE 01-Aug-12      SAMPLED BY: CC

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
	@ 0818	
PARAMETERS:		
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	79,300	1,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.40	1.5 mgO <sub>2</sub> /gram/Hr
Sludge Characteristics		
Total Solids (%)	0.58	N/A
Volatile Solids (%)	0.39	N/A
Organic Conc. (%)	67.2	
Soil pH - Measured in Water (Units)	6.62	> 5.50
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS < 2.0%

  
CERTIFIED BY

Ref. STANDARD METHODS 18th Ed. & \*EPA SW-846  
9222D - F. COLI 2540G - TS & VS  
2710B - SOUR      \*9045 - pH

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CERTIFICATE OF ANALYSIS

CLIENT: CINCO REGIONAL (Si Environmental)      LAB NUMBER: AD58982B  
DATE COLLECTE 13-Dec-12      DATE RECEIVED: 13-Dec-12  
DATE COMPLETE 18-Dec-12      SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 1500	
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	15,900	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.12	1.5 mgO <sub>2</sub> /gram/Hr.
Sludge Characteristics		
Total Solids (%)	2.34	N/A
Volatile Solids (%)	1.16	N/A
Organic Conc. (%)	49.6	
Soil pH - Measured in Water (Units)	6.90	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS <2.0%

  
CERTIFIED BY

Ref. STANDARD METHODS 21st Ed. & \*EPA SW-846  
9222D - F. COLI 2540G - TS & VS  
2710B - SOUR \*9045 - pH

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CERTIFICATE OF ANALYSIS

CLIENT: COPPERFIELD                      LAB NUMBER: AD62753B  
DATE COLLECTED: 03-Jan-13              DATE RECEIVED: 03-Jan-13  
DATE COMPLETED: 21-Jan-13              SAMPLED BY: PM

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	CAKE GRAB @ 1220	LIMITS
PARAMETERS:		
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	4,549	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	0.20	1.5 mgO <sub>2</sub> /gram/Hr.
Sludge Characteristics		
Total Solids (%)	13.48	N/A
Volatile Solids (%)	8.30	N/A
Organic Conc. (%)	61.6	
Soil pH - Measured in Water (Units)	7.27	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

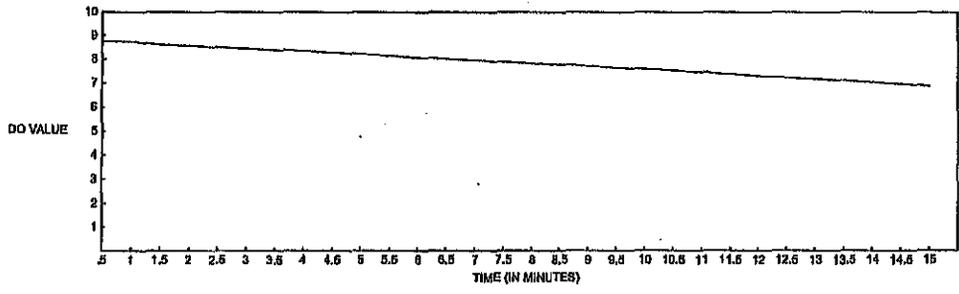
SOUR DILUTED TO TS <2%

Ref. STANDARD METHODS 18th Ed. & \*EPA SW-846  
9222D - F. COLI    2540G - TS & VS  
2710B - SOUR      \*9045 - pH

  
CERTIFIED BY

Analysis performed on sludge sample received on 05/08/2013 11:20 collected by Kenneth Elliot from the Digester at 05/08/2013 05:40

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform Sample ID: 10918009	74,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Sample ID: 10918010	59,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Sample ID: 10918011	68,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Sample ID: 10918012	71,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Sample ID: 10918013	63,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Sample ID: 10918014	66,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Sample ID: 10918015	72,000	CFU/g TS	SM 9222 D	DB	05/08/2013 11:35
Fecal Coliform Geometric Mean	6.7E+04	67,000	CFU/g TS		
Total Solids Sample ID: 10918006	1.7	%	SM 2540 G	OD	05/08/2013 15:21
S.O.U.R. Test Sample ID: 10918006	0.91	mg O2/hr/g TS	SM 2710 B	OD	05/08/2013 02:49



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

**CLASS: B**

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

  
 \_\_\_\_\_  
 Derek McCoy  
 Technical Director

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11011 BROOKLET Dr. #230  
HOUSTON, TEXAS 77099  
(281) 568-7880

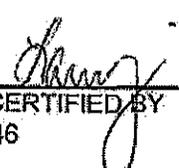
CERTIFICATE OF ANALYSIS

CLIENT: HASTING GREEN WWTP      LAB NUMBER: 13B0004B  
(HCFWSD #61)  
DATE COLLECTED: 01-Feb-13      DATE RECEIVED: 01-Feb-13  
DATE COMPLETE: 13-Mar-13      SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 1134	
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	1,500	1,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.39	1.5 mgO <sub>2</sub> /gram/Hr.
Sludge Characteristics		
Total Solids (%)	1.20	N/A
Volatile Solids (%)	0.60	N/A
Organic Conc. (%)	50.0	
Soil pH - Measured in Water (Units)	6.80	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS <2.0%

  
CERTIFIED BY

Ref. STANDARD METHODS 21st Ed. & \*EPA SW-846  
9222D - F. COLI 2540G - TS & VS  
2710B - SOUR      \*9045 - pH



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Horsepen Mud  
Municipal District Services,  
406 W Grand Pkwy S, Ste  
Katy, TX 77494

## Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Horsepen Digs

Collect Date:	5/7/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	7:30 AM
Sample Number:	C1322184-01	Collector:	BDS

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Collform IDEXX	N	1483245	MPN/gram	SDS	5/7/2013	4:30:00 PM	Collert 18
Percent Solid	A	1.90	%	LAB	5/8/2013	9:45:00 AM	SM 2540G
Vector	N	0.36	mg O2/hr/g	SDS	5/7/2013	1:40:00 PM	TAC 312.83(b)(4)
Volatile Percent Solid	A	77.9	%	LAB	5/9/2013	2:15:00 PM	SM 2540G

40 CFR 503 Criterion for Fecal Collform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

\*Fecal Collform result is a geometric mean of seven individual samples.

  
Pam P. Hickman, Laboratory Manager

\*NELAC Status:A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

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HOUSTON, TEXAS 77099  
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CERTIFICATE OF ANALYSIS

CLIENT: HCWCID #133                      LAB NUMBER: 13F0938B  
DATE COLLECTED: 11-Jun-13              DATE RECEIVED: 11-Jun-13  
DATE COMPLETED: 18-Jun-13            SAMPLED BY: WP

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 1415	
Microbial Populations		
Fecal Coliform (Colony/gram) (Geo Mean = 7)	8,600	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.12	1.5 mgO <sub>2</sub> /gram/Hr.
Sludge Characteristics:		
Total Solids (%)	1.68	N/A
Volatile Solids (%)	1.04	N/A
Organic Conc. (%)	61.9	
Soil pH - Measured in Water (Units)	6.81	> 6.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS <2.0%

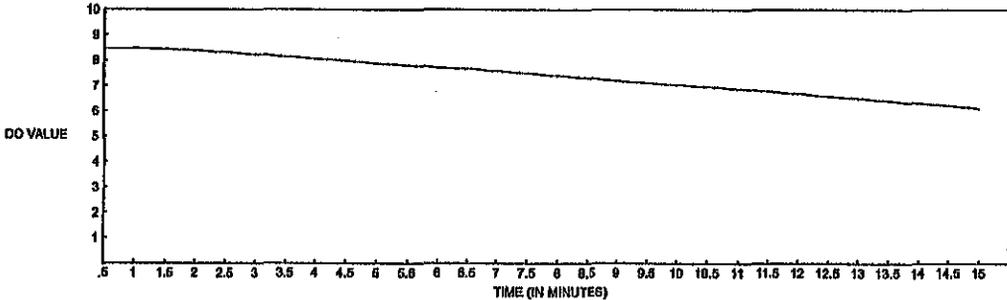
  
CERTIFIED BY

Ref. STANDARD METHODS 21st Ed. & \*EPA SW-846  
9222D - F, COLI 2540G - TS & VS  
2710B - SOUR \*9045 - pH



Analysis performed on sludge sample received on 11/05/2012 11:40 collected by Kenneth Elliot from the Digester at 11/05/2012 06:05

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform Sample ID: 10848604	82,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Sample ID: 10848605	82,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Sample ID: 10848606	79,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Sample ID: 10848607	85,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Sample ID: 10848608	80,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Sample ID: 10848609	81,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Sample ID: 10848610	84,000	CFU/g TS	SM 9222 D	DB	11/05/2012 12:31
Fecal Coliform Geometric Mean	8.2E+04	82,000	CFU/g TS		
Total Solids Sample ID: 10848602	1.4	%	SM 2540 G	OD	11/05/2012 16:23
S.O.U.R. Test Sample ID: 10848602	0.77	mg O2/hr/g TS	SM 2710 B	OD	11/05/2012 03:09



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

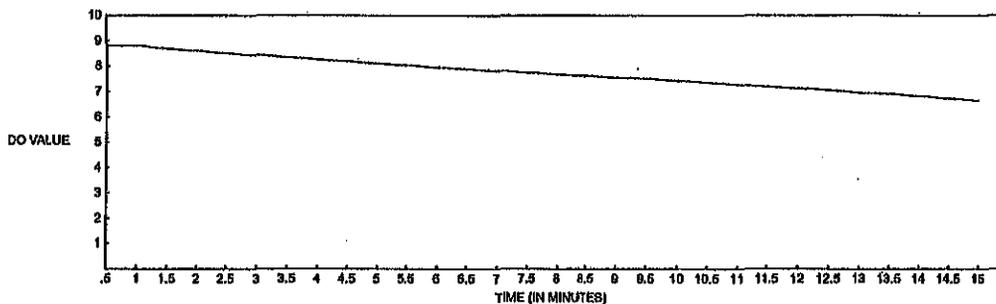
**CLASS B - PASS**

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

Derek McCoy  
 Technical Director

Analysis performed on sludge sample received on collected by Angel Rodriguez from the Digester at 02/05/2013 09:25

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Collform Sample ID: 10884075	66,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Sample ID: 10884076	79,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Sample ID: 10884077	72,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Sample ID: 10884078	73,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Sample ID: 10884079	66,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Sample ID: 10884080	72,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Sample ID: 10884081	75,000	CFU/g TS	SM 9222 D	DB	02/05/2013 14:36
Fecal Collform Geometric Mean	7.2E+04	72,000	CFU/g TS		
Total Solids Sample ID: 10884072	1.3	%	SM 2540 G	OD	02/05/2013 16:50
S.O.U.R. Test Sample ID: 10884072	1.10	mg O2/hr/g TS	SM 2710 B	OD	02/03/2013 04:24



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

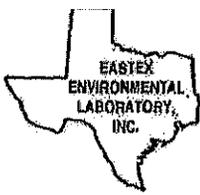
CLASS B - PASS

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal collform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

*Paul Canevaro*  
 Paul Canevaro  
 Laboratory Director

FEB 13 2013

*ON*



# EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089  
Coldspring, Texas 77331

(936) 653-3249 (800) 525-0508  
www.eastexlabs.com eastexlab@eastex.net



Mills Road  
Water District Management  
P.O. Box 579  
Spring, TX 77383

## Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Mills Rd Digester

Collect Date:	6/13/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	1:50 PM
Sample Number:	C1328698-01	Collector:	CAG

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	93127	MPN/gram	SDS	6/13/2013	6:50:00 P	Collert 18
Percent Solid	A	2.00	%	WGW	6/14/2013	1:35:00 P	SM 2540G
Vector	N	0.82	mg O2/hr/g	SDS	6/13/2013	7:44:00 P	TAC 312.83(b)(4)
Volatile Percent Solid	A	67.2	%	WGW	6/17/2013	9:50:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

\*Fecal Coliform result is a geometric mean of seven individual samples.

Pam P. Hickman, Laboratory Manager

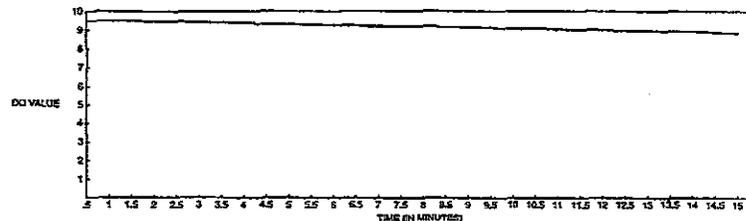
\*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to our analyses.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.

Analysis performed on sludge sample received on 01/07/2013 12:00 collected by Angel Rodriguez from the Digester at 01/07/2013 09:40

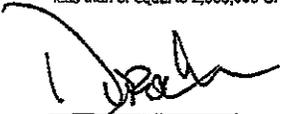
PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform    Sample ID: 10870597	48,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Sample ID: 10870598	93,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Sample ID: 10870599	45,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Sample ID: 10870600	100,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Sample ID: 10870601	52,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Sample ID: 10870602	48,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Sample ID: 10870603	98,000	CFU/g TS	SM 9222 D	DB	01/07/2013 12:19
Fecal Coliform    Geometric Mean	6.5E+04	65,000	CFU/g TS		
Total Solids    Sample ID: 10870594	2.3	%	SM 2540 G	OD	01/08/2013 15:07
S.O.U.R. Test    Sample ID: 10870594	0.30	mg O2/hr/g TS	SM 2710 B	OD	01/07/2013 01:24



The total solids is diluted to <math>\approx 2.0\%</math> for the S.O.U.R. test when necessary.

**CLASS B - PASS**

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

  
 \_\_\_\_\_  
 Derek McCoy  
 Technical Director



# EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089  
 Coldspring, Texas 77331  
 (936) 653-3249 \* (800) 525-0508



P. O. Box 631375  
 Nacogdoches, Texas 75963-1375  
 (936) 569-8879

Porter MUD  
 P.O. Box 1030  
 Porter, TX 77365

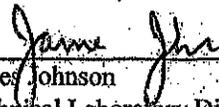
## BIOSOLIDS PATHOGEN AND VECTOR ATTRACTION ANALYSIS

PLANT: Porter Digester  
 DATE: 7/11/12  
 TIME: 10:10  
 SAMPLER: CEW  
 SAMPLE MATRIX: Digester  
 SAMPLE NO. C1233136-01

PARAMETER	RESULTS	STATUS *	40 CFR 503 CRITERION		METHOD	DATE TECH/TIME
			CLASS B	CLASS A		
<b>PATHOGENS:</b>						
<b>INDICATOR ORGANISM</b>						
Fecal Coliform #n/grams dry sludge	40000	A	2,000,000 T.S. CFU/g	1,000 T.S. MPN/g	SM 9222 D (APHA, 1992)	RCS;1645 7/11/12
*Fecal Coliform result is a geometric mean of 7 individual samples						

<b>VECTOR ATTRACTION:</b>						
<b>REDUCTION:</b>						
	Results	1.26	N	<1.5 mg/O <sub>2</sub> /g Solids/hr	SM 2710 B (APHA, 1992)	RCS;1715 7/11/12
		mg/O <sub>2</sub> /g Solids/hr				

<b>BIOSOLIDS CHARACTERISTICS:</b>						
Total Solids:	1.2 %	N			SM 2540 G (APHA, 1992)	CRB;1200 7/12/12
Volatile Solids:	70.8 %	N			SM 2540 G (APHA, 1992)	CRB;1130 7/13/12

  
 James Johnson  
 Technical Laboratory Director

\*NELAC Status: A = Accredited; N = Accreditation not offered; O = Not Accredited; P = Approved

Most current versions applicable for methods listed are being used.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.

8/27/2012 12:02



# EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089  
Coldspring, Texas 77331

(936) 653-3249 (800) 525-0508  
www.eastexlabs.com eastexlab@eastex.net



Prestonwood  
Water District Management  
P.O. Box 579  
Spring, TX 77383

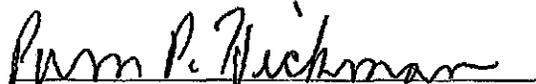
## Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Prestonwood Digester

Collect Date:	8/13/2013	SampleType:	Grab
Site:	Digester	Collect Time:	8:30 AM
Sample Number:	C1338895-01	Collector:	SRA

Test	*	Result	Units	Tech	Date	Time	Method
Percent Solid	A	1.70	%	ANP	8/14/2013	9:55:00 A	SM 2540G
Vector	N	0.69	mg O2/hr/g	SDS	8/13/2013	6:15:00 P	TAC 312.83(b)(4)

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g  
40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr  
\*Fecal Coliform result is a geometric mean of seven individual samples.

  
Pam P. Hickman, Laboratory Manager

\*NELAC Status:A=Accredited N=Accreditation not offered O=Not Accredited P=Approved  
Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.  
The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.

ENVIRODYNE LABORATORIES, INC.  
11011 BROOKLET Dr. #230  
HOUSTON, TEXAS 77099  
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: RENN RD MUD (ST Environmental Services)      LAB NUMBER: 13D0493B  
DATE COLLECTED: 03-Apr-13      DATE RECEIVED: 03-Apr-13  
DATE COMPLETE: 20-Apr-13      SAMPLED BY: MB

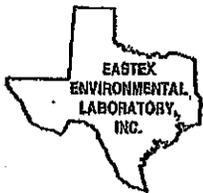
SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 0845	
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo Mean = 7)	12,800	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	0.75	1.5 mgO <sub>2</sub> /gram/Hr.
Sludge Characteristics		
Total Solids (%)	1.89	N/A
Volatile Solids (%)	1.19	N/A
Organic Conc. (%)	63.0	
Soil pH - Measured in Water (Units)	6.82	> 5.50
Sample Temp. (C/F)	N/A	20/68 (+/- 10C)
Ambient Temp. (C/F)	N/A	N/A
Test Temp. - Start / Stop (C)	22/22	(+/- 1C) - Var.

SOUR diluted to TS < 2%

  
CERTIFIED BY

Ref. STANDARD METHODS 21st Ed. & \*EPA SW-846  
9222D - F. COLI2540G - TS & VS  
2710B - SOUR      \*9045 - pH



# EASTEX ENVIRONMENTAL LABORATORY, INC.

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www.eastexlabs.com eastexlab@eastex.net



San Jacinto River Authority WWTP 3  
WWTP #3  
P.O. Box 7537  
The Woodlands, TX 77387

## Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: SJRA #3 Digester

Collect Date:	5/7/2013	SampleType:	Grab
Site:	Digester	Collect Time:	7:15 AM
Sample Number:	C1322228-01	Collector:	KH

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	16227	MPN/gram	SDS	5/7/2013	1:54:00 PM	Collert 18
Percent Solid	A	1.90	%	LAB	5/10/2013	9:40:00 A	SM 2540G
Vector	N	0.24	mg O2/hr/g	SDS	5/7/2013	1:40:00 PM	TAC 312.83(b)(4)
Volatile Percent Solid	A	75.7	%	LAB	5/14/2013	9:00:00 A	SM 2540G

40 CFR 503 Criterion for Fecal Coliform Class B = 2,000,000 MPN/g. For Class A = 1,000 MPN/g

40 CFR 503 Criterion for Vector Class B = <1.5 mg/O2/g Solids/hr

\*Fecal Coliform result is a geometric mean of seven individual samples.

  
Pam P. Hickman, Laboratory Manager

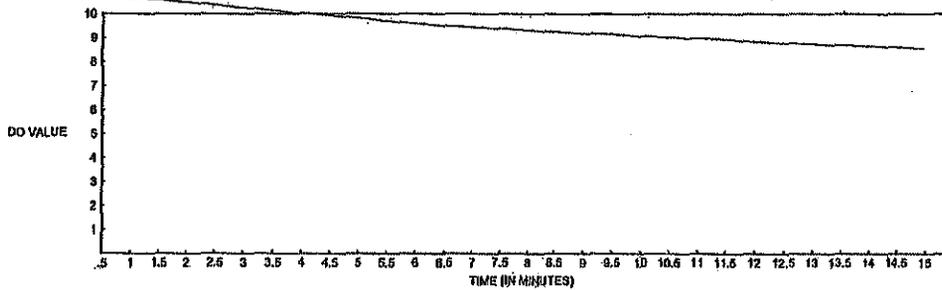
\*NELAC Status:A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

The test results in this report relate only to the samples received and the report shall not be reproduced except in full, without the approval of the laboratory.

Analysis performed on sludge sample received on 03/04/2013 17:25 collected by Jason Keasling from the Digester at 03/04/2013 10:45

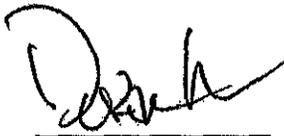
PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform	Sample ID: 10893907	54,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Sample ID: 10893908	58,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Sample ID: 10893909	52,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Sample ID: 10893910	60,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Sample ID: 10893911	55,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Sample ID: 10893912	57,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Sample ID: 10893913	53,000	CFU/g TS	SM 9222 D	DB 03/04/2013 17:30
Fecal Coliform	Geometric Mean	5.5E+04	55,000	CFU/g TS	
Total Solids	Sample ID: 10893904	1.5	%	SM 2540 G	OD 03/04/2013 16:49
S.O.U.R. Test	Sample ID: 10893904	0.86	mg O2/hr/g TS	SM 2710 B	OD 03/02/2013 06:27



The total solids is diluted to <= 2.0% for the S.O.U.R. test when necessary.

**CLASS B - PASS**

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/g TS and the S.O.U.R. must be less than or equal to 1.5 mg O2/hr/g TS.

  
 Derek McCoy  
 Technical Director

**RECEIVED**  
 MAR 14 2013

BY: 



# Chaparral Laboratories, Inc.



861 State Hwy 19 P.O. Box 1622 Huntsville, TX 77342-1622 www.chaparrallabs.com Phone: 936-291-1881 Fax: 936-295-1731

## Certificate of Analysis

City of Wallis  
 Attn: James McCain  
 P.O. Box 190  
 Wallis, TX. 77485-0190

Sample Site: Wallis  
 Location: Wallis, TX

Sample Point: Drying Bed

Sample Number: 93703  
 Client Number: 5617  
 Date Received: 10/20/2011  
 Date Reported: 11/15/2011

Date/Time Collected: 10/20/2011 8:05  
 Collected By: Don Stovall  
 Sample Type: Grab

Test	Result	Units	Date	Initials	Bottle	Method
% Solids	96.7	%	10/21/11 10:57	TLP	-01	SM 2540 G
Arsenic	0.75	mg/kg	10/25/11 9:58	JZZ	-01	EPA 7010
Cadmium	2.3	mg/kg	11/01/11 13:23	JZZ	-01	EPA 7000B
Chromium	39.3	mg/kg	11/01/11 15:30	JZZ	-01	EPA 7000B
Copper	467.5	mg/kg	11/01/11 14:25	JZZ	-01	EPA 7000B
Lead	82.3	mg/kg	11/01/11 13:48	JZZ	-01	EPA 7000B
Mercury	0.63	mg/kg	10/21/01 12:54	JZZ	-01	EPA 7471A
Molybdenum	8.8	mg/kg	10/26/11 8:55	JZZ	-01	EPA 7010
Nickel	21.5	mg/kg	11/01/11 10:04	JZZ	-01	EPA 7000B
Selenium	1.6	mg/kg	10/25/11 13:30	JZZ	-01	EPA 7010
Zinc	1975	mg/kg	11/01/11 12:35	JZZ	-01	EPA 7000B
Ammonia Nitrogen	0.21	%	10/31/11 10:13	JCG	-01	EPA 350.2
NO3N+NO2N	0.0002	%	10/24/11 7:30	JZZ	-01	EPA 353.2
Total Kjeldahl Nitrogen	2.9	%	11/07/11 15:47	TLP	-01	(SM4500-NH3C)
Total Phosphorus	0.95	%	10/31/11 7:50	JCG	-01	EPA 365.2
Total Potassium	0.13	%	11/01/11 14:55	JZZ	-01	EPA 7000B
Oxygen Uptake Rate	<0.1	mg/g/h	10/21/11 13:40	TLP	-01	(SM 2710 B)
Fecal Coliform	24402	CFU/g/TS	10/21/11 7:54	TLP	-02	SM 9222 D
Fecal Coliform	24735	CFU/g/TS	10/21/11 7:54	TLP	-03	SM 9222 D
Fecal Coliform	23950	CFU/g/TS	10/21/11 7:54	TLP	-04	SM 9222 D
Fecal Coliform	24752	CFU/g/TS	10/21/11 7:54	TLP	-05	SM 9222 D
Fecal Coliform	24423	CFU/g/TS	10/21/11 7:54	TLP	-06	SM 9222 D
Fecal Coliform	23498	CFU/g/TS	10/21/11 7:54	TLP	-07	SM 9222 D
Fecal Coliform	23981	CFU/g/TS	10/21/11 7:54	TLP	-08	SM 9222 D
TCLP	CA			PA	-09	
PCB's	CA			PA	-10	

( ) Non-NELAC Accredited Analyte  
 CA : Contract Analysis. This test was performed by Pace Analytical. Results are on the inclusion list.  
 Fecal Coliform Geometric Mean : 24,245  
 PA analyses are by Pace Analytical.

Date Entered in EATS:

5/17/12  
 Cert List Updated on:

# Geometric Mean for Fecal Coliform Results

## City of Wallis

Sample Date	Fecal Coliform Results(CFU/g TS)
10/20/2011	24402
10/20/2011	24,735
10/20/2011	23,950
10/20/2011	24,752
10/20/2011	24,423
10/20/2011	23,498
10/20/2011	23,981

<b>Geometric Mean</b> <b>24,245 CFU/g TS</b>
---

# Certificate Of Insurance

## 30 TAC §37.9145 Commercial Liability

Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer	Add'l Prem.	Return Prem.
EPC 9040526 06	5/3/2013	5/3/2014	5/3/2013	36208000	---	---

**Named Insured and Mailing Address:**

TERRA RENEWAL LLC  
 1100 E. CAMPBELL ROAD, SUITE 22  
 RICHARDSON, TX 75081

**Producer:**

WELLS FARGO INSURANCE SERVICES USA  
 5151 BELT LINE ROAD, SUITE 200  
 DALLAS, TX 75254

### CERTIFICATE OF INSURANCE FOR COMMERCIAL LIABILITY

Name and Address of Insurer (herein called the "Insurer"):

Steadfast Insurance Company  
 Administrative Office  
 1400 American Lane Schaumburg, IL  
 60196-1056

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

Terra Renewal Services, Inc.  
 TRS Envirogenics, Inc.  
 1100 E. Campbell Road, Suite 22  
 Richardson, TX 75081

Additional Insured: Texas Commission on Environmental Quality Physical Address:

12100 Park 35 Circle, MC 184, Austin, TX 78753 Mailing Address: MC 184, P. O.  
 Box 13087, Austin, TX 78711-3087

Facilities covered: (list for each facility: permit number, name, and physical and mailing addresses)

Landowner	Longitude	Latitude	County	Location	Mailing Address	Retroactive Date
Barbra Look permit WQ4462	96 Deg 5"	30 Deg 4"	Waller	4.8 mi. W. of intersection. of Hwy 290 and Hwy. 6	P O Box 3036 Russellville, AR 72811	April 11,2007
James Henderson permit WQ4460	94 Deg 30'	30 Deg 33'	Liberty	4 mi E of intersection of FM 1410 and FM 61, at the intersection of Deavers Road and FM 1410	P O Box 3036 Russellville, AR 72811	April 11,2007
Mary Weber permit	96 Deg 5'	30 Deg 6'	Waller	0.2 mi. W of intersection of FM 359 & Pierceall Rd.	P O Box 3036 Russellville, AR	April 11,2007

WQ4501					72811	
Reavis Farms permit WQ4463	98 Deg 30'	26 Deg 25'	Hidalgo	1.25 mi. W of intersection of FM 2221 and Seven Mile Road	P O Box 3036 Russellville, AR 72811	April 11,2007
Santa Anita Ranch (Burning Tree) permit WQ4803	96 Deg 35'	32 Deg 12'	Kaufman	5 mi. E on State Hwy 243 to CR 101. Site is adjacent to NW side of CR101, approx .75miles from intersection of 243/101	P O Box 3036 Russellville, AR 72811	April 11,2007
Griffin Farm Permit 4513	94 Deg 46'	32 Deg 26'	Gregg	Farm to Market Road 2087, approx. 1.6 miles S of the intersection of Farm to Market Road 1845 and Farm to Market Road 2087.	P O Box 3036 Russellville, AR 72811	April 11,2007
Jose Martinez Permit WQ4817	98 Deg 32'	26 Deg 38'	Starr	On the north side of La Morita Road, approx. 1/8 mile west of the intersection of La Morita Road and FM 755	P O Box 3036 Russellville, AR 72811	April 11,2007
Iron Farm Cattle Permit WQ0004830000	94 Deg 48'	32 Deg 23'	Gregg	E. side of Farm-to-Market Road 2276, extending from approx. 300' N. of the intersection of FM 2267 and FM 349, approx. 1.5 mi. E. of the City of Kilgore, Gregg County, TX	P.O. Box 3036 Russellville, AR 72811	August 7, 2008
Reavis Farm South Permit 04861	98 Deg 30'	26 Deg 25'	Hidalgo	Approx. 1.25 mi. W. of the intersection of Farm-to-Market 2221 and Seven Mile Road in Hidalgo County, TX	P.O. Box 3036 Russellville, AR 72811	August 7, 2008
Reavis McCook North Permit WQ004923000	98 Deg 28'	26 Deg 31'	Starr	Adjacent to unnamed road north of FM 490, located approx. 6 mi. east of McCook, TX and 2 mi. north of FM 490, in Starr County, TX.	P.O. Box 3036 Russellville, AR 72811	May 03, 2010
Reavis McCook South Permit WQ004924000	98 Deg 25'	26 Deg 28'	Hidalgo	Located at the NE. corner of the intersection of CR 3239 and Mile 16 Road, approx. 1.78 mi. south of the intersection of FM 490 and CR 3239, approx. 2.75 Mi. west of McCook TX.4. In Hidalgo County, TX	P.O. Box 3036 Russellville, AR 72811	May 03, 2010
Ayers/Wyatt Permit WQ004943000	94 Deg 44'	33 Deg 06'	Morris	Adjacent to west side of County Road 3201, approximately 1.9 miles west of intersection of County Road 3201 and County Road 3112, approximately 1.7 miles north of intersection of County Road 3112 and State Hwy 49, approximately 2.5 miles west of Daingerfield, Texas.	P O Box 3036 Russellville, AR 72811	July 30, 2010

Freeman/ Conner Permit Application	94 Deg 47'	33 Deg 07'	Morris	Adjacent to east side of County Road 1233, approximately 2.9 miles from the intersection of County Road 1233 and State Hwy 49, approximately 6.1 miles north of Daingerfield, Texas.	P O Box 3036 Russellville, AR 72811	August 30, 2010
Hooser Farm Permit Application	96 Deg 50'	32 Deg 06'	Ellis & Navarro	Center of property located at intersection of Hamrock Road and Joes Road, approximately 1.1 mile south of intersection of Hamrock Road and Hooser Road, approximately 1.5 mile west of intersection of Hooser Road and Farm-to-Market Road 667, approximately 4.5 miles south of Italy, Texas in Ellis and Navarro Counties.	P O Box 3036 Russellville, AR 72811	November 2, 2010
Center Ranch Permit WQ0004961000	31 Deg 17'7	95 Deg 52'56	Leon	3582 FM road 811	P.O. Box 399, Dardanelle, AR 72834	Date of 1 <sup>st</sup> Application
Sloan Farm Permit Application	96° 20' 09"W	32° 07' 49" N	Navarro	Located on Brookshire Road 1 mile north of the intersection of Highway 31 and Brookshire Road	P.O. Box 399, Dardanelle, AR 72834	Date of 1 <sup>st</sup> Application

Per Occurrence Limit: \$3,000,000  
Annual Aggregate Limit: \$6,000,000  
Policy Number: Effective EPC 9040526-06  
Date: May 3, 2013

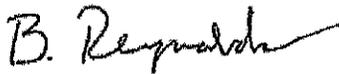
The Insurer hereby certifies that it has issued to the Insured a commercial liability policy of insurance identified above to provide coverage for bodily injury and property damage to compensate persons injured or property damaged as a result of Class B sewage sludge land application at the facilities identified above.

The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9100 (relating to Commercial Liability Insurance), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9145 (relating to Certificate of Insurance for Commercial Liability) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.



**Brandon Reynolds**  
**Environmental Underwriter**  
Authorized Representative of  
Steadfast Insurance Company  
Administrative Office  
1400 American Lane  
Schaumburg, IL 60196-1056

**Certificate Of Insurance**  
**30 TAC §37.9155 Environmental Impairment**



Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer	Add'l Prem.	Return Prem.
EPC 9040526 06	5/3/2013	5/3/2014	5/3/2013	36208000	---	---

**Named Insured and Mailing Address:**

TERRA RENEWAL LLC  
 1100 E. CAMPBELL ROAD, SUITE 22  
 RICHARDSON, TX 75081

**Producer:**

WELLS FARGO INSURANCE SERVICES USA  
 5151 BELT LINE ROAD, SUITE 200  
 DALLAS, TX 75254

**CERTIFICATE OF INSURANCE FOR ENVIRONMENTAL IMPAIRMENT**

Name and Address of Insurer (herein called the "Insurer"):

Steadfast Insurance Company  
 Administrative Office  
 1400 American Lane  
 Schaumburg, IL 60196-1056

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

Terra Renewal Services, Inc.  
 TRS Enviroganics, Inc.  
 1100 E. Campbell Road, Suite 22  
 Richardson, TX 75081

Additional Insured:

Texas Commission on Environmental Quality Physical Address: 12100 Park  
 35 Circle, MC 184, Austin, TX 78753 Mailing Address: MC 184, P. O. Box  
 13087, Austin, TX 78711-3087

Facilities covered: (list for each facility: permit number, name, and physical and mailing addresses)

Landowner	Longitude	Latitude	County	Location	Mailing Address	Retroactive Date
Barbra Look permit WQ4462	96 Deg 5"	30 Deg 4"	Waller	4.8 mi. W. of intersection of Hwy 290 and Hwy. 6	P O Box 3036 Russellville, AR 72811	April 11,2007
James Henderson permit WQ4460	94 Deg 30'	30 Deg 33'	Liberty	4 mi E of intersection of FM 1410 and FM 61, at the intersection of Deavers Road and FM 1410	P O Box 3036 Russellville, AR 72811	April 11,2007

Mary Weber permit WQ4501	96 Deg 5'	30 Deg 6'	Waller	0.2 mi. W of intersection of FM 359 & Pierceall Rd.	P O Box 3036 Russellville, AR 72811	April 11,2007
Reavis Farms permit WQ4463	98 Deg 30'	26 Deg 25'	Hidalgo	1.25 mi. W of intersection of FM 2221 and Seven Mile Road	P O Box 3036 Russellville, AR 72811	April 11,2007
Santa Anita Ranch (Burning Tree) permit WQ4803	96 Deg 35'	32 Deg 12'	Kaufman	5 mi. E on State Hwy 243 to CR 101. Site is adjacent to NW side of CR101, approx .75miles from intersection of 243/101	P O Box 3036 Russellville, AR 72811	April 11,2007
Griffin Farm Permit 4513	94 Deg 46'	32 Deg 26'	Gregg	Farm to Market Road 2087, approx. 1.6 miles S of the intersection of Farm to Market Road 1845 and Farm to Market Road 2087.	P O Box 3036 Russellville, AR 72811	April 11,2007
Jose Martinez Permit WQ4817	98 Deg 32'	26 Deg 38'	Starr	On the noth side of La Morita Road, approx. 1/8 mile west of the intersection of La Morita Road and FM 755	P O Box 3036 Russellville, AR 72811	April 11,2007
Iron Farm Cattle Permit WQ0004830000	94 Deg 48'	32 Deg 23'	Gregg	E. side of Farm-to-Market Road 2276, extending from approx. 300' N. of the intersection of FM 2267 and FM 349, approx. 1.5 mi. E. of the City of Kilgore, Gregg County, TX	P.O. Box 3036 Russellville, AR 72811	August 7, 2008
Reavis Farm South Permit 04861	98 Deg 30'	26 Deg 25'	Hidalgo	Approx. 1.25 mi. W. of the intersection of Farm-to-Market 2221 and Seven Mile Road in Hidalgo County, TX	P.O. Box 3036 Russellville, AR 72811	August 7, 2008
Reavis McCook North Permit WQ004923000	98 Deg 28'	26 Deg 31'	Starr	Adjacent to unnamed road north of FM 490, located approx. 6 mi. east of McCook, TX and 2 mi. north of FM 490, in Starr County, TX.	P.O. Box 3036 Russellville, AR 72811	May 03, 2010
Reavis McCook South Permit WQ004924000	98 Deg 25'	26 Deg 28'	Hidalgo	Located at the NE. corner of the intersection of CR 3239 and Mile 16 Road, approx. 1.78 mi. south of the intersection of FM 490 and CR 3239, approx. 2.75 Mi. west of McCook TX.4. In Hidalgo County, TX	P.O. Box 3036 Russellville, AR 72811	May 03, 2010
Ayers/Wyatt Permit WQ004943000	94 Deg 44'	33 Deg 06'	Morris	Adjacent to west side of County Road 3201, approximately 1.9 miles west of intersection of County Road 3201 and County Road 3112, approximately 1.7 miles north of intersection of County Road 3112 and State Hwy 49, approximately 2.5 miles west of Daingerfield,	P O Box 3036 Russellville, AR 72811	July 30, 2010

				Texas.		
<b>Freeman/ Conner Permit WQ0004947000</b>	94 Deg 47'	33 Deg 07'	Morris	Adjacent to east side of County Road 1233, approximately 2.9 miles from the intersection of County Road 1233 and State Hwy 49, approximately 6.1 miles north of Daingerfield, Texas.	P O Box 3036 Russellville, AR 72811	August 30, 2010
<b>Hooser Farm Permit WQ000495000</b>	96 Deg 50'	32 Deg 06'	Ellis & Navarro	Center of property located at intersection of Hamrock Road and Joes Road, approximately 1.1 mile south of intersection of Hamrock Road and Hooser Road, approximately 1.5 mile west of intersection of Hooser Road and Farm-to-Market Road 667, approximately 4.5 miles south of Italy, Texas in Ellis and Navarro Counties.	P O Box 3036 Russellville, AR 72811	November 2, 2010
<b>Center Ranch Permit WQ0004961000</b>	31 Deg 17'7	95 Deg 52'56	Leon	3582 FM road 811	P.O. Box 399, Dardanelle, AR 72834	Date of 1st Application
<b>Sloan Farm Permit Application</b>	96° 20' 09"W	32° 07' 49" N	Navarro	Located on Brookshire Road 1 mile north of the intersection of Highway 31 and Brookshire Road	P.O. Box 399, Dardanelle, AR 72834	Date of 1 <sup>st</sup> Application

Per Occurrence Limit: \$3,000,000  
Annual Aggregate Limit: \$6,000,000  
Policy Number: Effective EPC 9040526-06  
Date: May 3, 2013

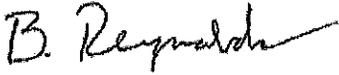
The Insurer hereby certifies that it has issued to the Insured an Environmental Impairment policy of insurance identified above to provide financial assurance for corrective action related to the facilities identified above.

The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9105 (relating to Environmental Impairment Insurance), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9155 (relating to Certificate of Insurance for Environmental Impairment) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M.



**Brandon Reynolds**  
**Environmental Underwriter**  
Authorized Representative of  
Steadfast Insurance Company  
Administrative Office  
1400 American Lane  
Schaumburg, IL 60196-1056

## SLUDGE APPLIER'S CERTIFICATION

I certify, under penalty of law, that the requirements to obtain information in 30 TAC Section 312.42(e) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the requirements to obtain information have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

I certify, under penalty of law, that the site restrictions in Section 312.82(b)(3) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the site restrictions have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

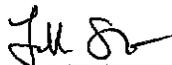
## VECTOR ATTRACTION REDUCTION CERTIFICATE

I certify, under penalty of law, that the vector attraction reduction requirement in Section 312.83(b) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

## CUMUATIVE LOADING CERTIFICATE

I certify, under penalty of law, that the management practices in 30 TAC Section 312.44 have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

Signature:



Printed Name:

Todd Shearin

Title:

Director, Municipal Environmental Services