



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/permitted 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 3rd Reporting Period from 2014 To 2014
PERMIT NO.: 04462 DATE: June 11, 2014
NAME OF PERMITEE: TRS Enviroganics
MAILING ADDRESS: PO Box 73006
Houston, TX 77273-3006
CONTACT NAME: Gabe Timby TELEPHONE NO.: 479-518-1554

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: 383.76 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: 93 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

Sludge Application Information
3rd Quarter Mar.-Apr.-May. 2014

LOOK
4462

Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
3/6/2014	Bammel	G	2.97	N	Y	Y	N	N
3/13/2014	Hastings	G	2.97	N	Y	Y	N	N
3/13/2014	Copperfield	G	2.43	N	Y	Y	N	N
3/13/2014	Hastings	G	2.97	N	Y	Y	N	N
3/13/2014	Bammel	G	2.97	N	Y	Y	N	N
3/14/2014	Hastings	G	2.97	N	Y	Y	N	N
3/14/2014	Hastings	G	2.97	N	Y	Y	N	N
3/14/2014	Bammel	G	2.97	N	Y	Y	N	N
3/20/2014	Bammel	G	2.97	N	Y	Y	N	N
3/24/2014	Copperfield	G	2.43	N	Y	Y	N	N
3/25/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
3/25/2014	Copperfield	G	2.43	N	Y	Y	N	N
3/25/2014	Katy	G	0.50	N	Y	Y	N	N
3/25/2014	Katy	G	0.50	N	Y	Y	N	N
3/25/2014	Katy	G	0.50	N	Y	Y	N	N
3/25/2014	Nottingham	G	2.97	N	Y	Y	N	N
3/25/2014	Katy	G	0.50	N	Y	Y	N	N
3/25/2014	Katy	G	0.50	N	Y	Y	N	N
3/26/2014	Bammel	G	2.97	N	Y	Y	N	N
3/26/2014	Katy	G	0.50	N	Y	Y	N	N
3/26/2014	Katy	G	0.50	N	Y	Y	N	N
3/27/2014	Copperfield	G	2.43	N	Y	Y	N	N
3/27/2014	Prestonwood	G	2.97	N	Y	Y	N	N
3/27/2014	Katy	G	0.50	N	Y	Y	N	N
3/27/2014	Katy	G	0.50	N	Y	Y	N	N
3/31/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
3/31/2014	Bammel	G	2.97	N	Y	Y	N	N
3/31/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Nottingham	G	2.97	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Wallis	G	16.11	N	Y	Y	N	N
4/1/2014	Katy	G	0.50	N	Y	Y	N	N
4/1/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/2/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/2/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/2/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/2/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/2/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/2/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/3/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/3/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/3/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/3/2014	SJRA 3	G	0.53	N	Y	Y	N	N

Sludge Application Information
3rd Quarter Mar.-Apr.-May. 2014

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Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
4/3/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/3/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/3/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/3/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/3/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/4/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/4/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/4/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/4/2014	SJRA 3	G	0.53	N	Y	Y	N	N
4/4/2014	Nottingham	G	2.97	N	Y	Y	N	N
4/4/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/4/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/4/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/7/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/8/2014	Katy	G	0.50	N	Y	Y	N	N
4/8/2014	Katy	G	0.50	N	Y	Y	N	N
4/8/2014	Katy	G	0.50	N	Y	Y	N	N
4/8/2014	Katy	G	0.50	N	Y	Y	N	N
4/8/2014	Katy	G	0.50	N	Y	Y	N	N
4/8/2014	Katy	G	0.50	N	Y	Y	N	N
4/8/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/8/2014	Cinco Ranch	G	2.78	N	Y	Y	N	N
4/8/2014	NWHC5	G	0.45	N	Y	Y	N	N
4/9/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/9/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/9/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/9/2014	Katy	G	0.50	N	Y	Y	N	N
4/9/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/9/2014	Katy	G	0.50	N	Y	Y	N	N
4/9/2014	Katy	G	0.50	N	Y	Y	N	N
4/9/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/9/2014	Katy	G	0.50	N	Y	Y	N	N
4/9/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/9/2014	Katy	G	0.50	N	Y	Y	N	N
4/9/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/9/2014	Katy	G	0.50	N	Y	Y	N	N
4/10/2014	Bammel	G	2.97	N	Y	Y	N	N
4/11/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/11/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/11/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/11/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/12/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/12/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/14/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/14/2014	Hastings	G	2.97	N	Y	Y	N	N
4/14/2014	Nottingham	G	2.97	N	Y	Y	N	N
4/15/2014	Hastings	G	2.97	N	Y	Y	N	N
4/16/2014	Katy	G	0.50	N	Y	Y	N	N
4/16/2014	Katy	G	0.50	N	Y	Y	N	N
4/16/2014	Katy	G	0.50	N	Y	Y	N	N
4/16/2014	Katy	G	0.50	N	Y	Y	N	N
4/17/2014	Hastings	G	2.97	N	Y	Y	N	N

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3rd Quarter Mar.-Apr.-May. 2014

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Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
4/17/2014	Hastings	G	2.97	N	Y	Y	N	N
4/17/2014	Hastings	G	2.97	N	Y	Y	N	N
4/17/2014	Hastings	G	2.97	N	Y	Y	N	N
4/18/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/18/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/18/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/21/2014	Nottingham	G	2.97	N	Y	Y	N	N
4/21/2014	Hastings	G	2.97	N	Y	Y	N	N
4/21/2014	Hastings	G	2.97	N	Y	Y	N	N
4/22/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/22/2014	Katy	G	0.50	N	Y	Y	N	N
4/22/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/22/2014	Katy	G	0.50	N	Y	Y	N	N
4/22/2014	Katy	G	0.50	N	Y	Y	N	N
4/22/2014	Katy	G	0.50	N	Y	Y	N	N
4/22/2014	Katy	G	0.50	N	Y	Y	N	N
4/22/2014	Katy	G	0.50	N	Y	Y	N	N
4/23/2014	Katy	G	0.50	N	Y	Y	N	N
4/23/2014	Katy	G	0.50	N	Y	Y	N	N
4/23/2014	Katy	G	0.50	N	Y	Y	N	N
4/23/2014	Bammel	G	2.97	N	Y	Y	N	N
4/24/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/24/2014	Katy	G	0.50	N	Y	Y	N	N
4/24/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/24/2014	Katy	G	0.50	N	Y	Y	N	N
4/24/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/24/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/24/2014	Katy	G	0.50	N	Y	Y	N	N
4/24/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/25/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/28/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/28/2014	Nottingham	G	2.97	N	Y	Y	N	N
4/28/2014	Copperfield	G	2.43	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Porter MUD	G	1.87	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Hastings	G	2.97	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/29/2014	Katy	G	0.50	N	Y	Y	N	N
4/30/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
4/30/2014	Katy	G	0.50	N	Y	Y	N	N
4/30/2014	Bammel	G	2.97	N	Y	Y	N	N
4/30/2014	Katy	G	0.50	N	Y	Y	N	N
5/2/2014	Katy	G	0.50	N	Y	Y	N	N
5/2/2014	Porter MUD	G	1.87	N	Y	Y	N	N
5/2/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
5/2/2014	Porter MUD	G	1.87	N	Y	Y	N	N
5/2/2014	Copperfield	G	2.43	N	Y	Y	N	N

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Date	WWTP Name	Field	Dry Tons	Path A	Path B	Vector	Limit 1	Limit 3
5/2/2014	Copperfield	G	2.43	N	Y	Y	N	N
5/5/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
5/5/2014	Nottingham	G	2.97	N	Y	Y	N	N
5/5/2014	Hastings	G	2.97	N	Y	Y	N	N
5/5/2014	Hastings	G	2.97	N	Y	Y	N	N
5/5/2014	Bammel	G	2.97	N	Y	Y	N	N
5/6/2014	Mills Rd	G	2.69	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Hastings	G	2.97	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Hastings	G	2.97	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Hastings	G	2.97	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/6/2014	Katy	G	0.50	N	Y	Y	N	N
5/7/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
5/7/2014	Hastings	G	2.97	N	Y	Y	N	N
5/7/2014	Katy	G	0.50	N	Y	Y	N	N
5/7/2014	Copperfield	G	2.43	N	Y	Y	N	N
5/7/2014	Katy	G	0.50	N	Y	Y	N	N
5/7/2014	Katy	G	0.50	N	Y	Y	N	N
5/7/2014	HCFWSD61	G	2.97	N	Y	Y	N	N
5/7/2014	Copperfield	G	2.43	N	Y	Y	N	N
5/7/2014	Katy	G	0.50	N	Y	Y	N	N
5/7/2014	Katy	G	0.50	N	Y	Y	N	N
5/8/2014	Hastings	G	2.97	N	Y	Y	N	N
5/8/2014	Katy	G	0.50	N	Y	Y	N	N
5/8/2014	Katy	G	0.50	N	Y	Y	N	N
5/8/2014	Hastings	G	2.97	N	Y	Y	N	N
5/8/2014	Hastings	G	2.97	N	Y	Y	N	N
5/9/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
5/9/2014	Hastings	G	2.97	N	Y	Y	N	N
5/9/2014	Bammel	G	2.97	N	Y	Y	N	N
5/9/2014	Mills Rd	G	2.69	N	Y	Y	N	N
5/9/2014	Hastings	G	2.97	N	Y	Y	N	N
5/9/2014	Copperfield	G	2.43	N	Y	Y	N	N
5/19/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
5/19/2014	Bammel	G	2.97	N	Y	Y	N	N
5/20/2014	Katy	G	0.50	N	Y	Y	N	N
5/20/2014	Katy	G	0.50	N	Y	Y	N	N
5/20/2014	Katy	G	0.50	N	Y	Y	N	N
5/20/2014	Katy	G	0.50	N	Y	Y	N	N
5/21/2014	Jackrabbit	G	2.97	N	Y	Y	N	N
5/21/2014	Wallis	G	16.11	N	Y	Y	N	N
5/21/2014	Nottingham	G	2.97	N	Y	Y	N	N
5/21/2014	Katy	G	0.50	N	Y	Y	N	N
5/22/2014	Porter MUD	G	1.87	N	Y	Y	N	N

Permit	Regulated Entity:	RN103015509	Look Ranch
WQ 004462	Customer:	CN603212135	TRS ENVIROGANICS
	Physical Location:	4.8 mi. W of Intx of Hwy 290 and Hwy 6	

Sludge Delivery Dates

3/6/2014
3/13/2014
3/14/2014
3/20/2014
3/24/2014
3/25/2014
3/26/2014
3/27/2014
3/31/2014
4/1/2014
4/2/2014
4/3/2014
4/4/2014
4/7/2014
4/8/2014
4/9/2014
4/10/2014
4/11/2014
4/12/2014
4/14/2014
4/15/2014
4/16/2014
4/17/2014
4/18/2014
4/21/2014
4/22/2014
4/23/2014
4/24/2014
4/25/2014
4/28/2014
4/29/2014
4/30/2014
5/2/2014
5/5/2014
5/6/2014
5/7/2014
5/8/2014
5/9/2014
5/19/2014
5/20/2014
5/21/2014
5/22/2014

Site # 04462

Field G

Suggested Agronomic rate 12

Metal	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn
Cumulative Metals	0.5601	0.5579	5.8813	39.5367	3.8405	1.9344	0.9971	2.2685	7.3989	71.9487

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.

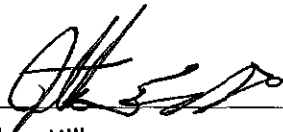
VECTOR ATTRACTION REDUCTION CERTIFICATE

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:

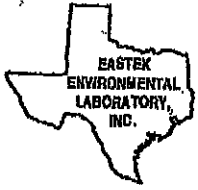


Printed Name:

Jonathan Hill

Title:

6/10/14



EASTEX ENVIRONMENTAL LABORATORY, INC.

P. O. Box 1089
Coldspring, Texas 77331

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



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:	10/17/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	10:25 AM
Sample Number:	C1350058-01	Collector:	CAG

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	93837	MPN/gram	SDS	10/17/2013	3:30:00 P	Collert 18
Percent Solid	A	2.00	%	CRT	10/18/2013	10:25:00	SM 2540G
Vector	N	0.81	mg O2/hr/g	SDS	10/17/2013	8:05:00 P	TAC 312.83(b)(4)
Volatile Percent Solid	A	64.8	%	CRT	10/21/2013	2:30:00 P	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
Pam P. Hickman, Laboratory Manager

Received

Date Entered in EATS:

1/28/14

DEC 12 2013

Cert List Updated on:

SK

*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: CINCO REGIONAL (SI Environmental) LAB NUMBER: 14B1589B
DATE COLLECTED: 17-Feb-14 DATE RECEIVED: 17-Feb-14
DATE COMPLETED: 28-Feb-14 SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
PARAMETERS:	@ 0852	
Microbial Populations		
Fecal Coliform (Colonies/gram) (Geo. Mean = 7)	4,500	2,000,000 CFU/g/TS
Vector Attraction Potential		
Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	0.25	1.5 mgO ₂ /gram/Hr.
Sludge Characteristics		
Total Solids (%)	10.00	N/A
Volatile Solids (%)	6.90	N/A
Organic Conc. (%)	69.0	
Soil pH - Measured in Water (Units)	6.69	> 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

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

CERTIFICATE OF ANALYSIS

CLIENT: COPPERFIELD MUD LAB NUMBER: 13J1343B
DATE COLLECTE 14-Oct-13 DATE RECEIVED: 14-Oct-13
DATE COMPLETE 15-Nov-13 SAMPLED BY: CC

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION: BELT PRESS CAKE LIMITS

PARAMETERS:

Microbial Populations

Fecal Coliform (Colonies/gram)
(Geo Mean = 7) 16,900 2,000,000 CFU/g/TS

Vector Attraction Pontential

Specific Oxygen Uptake Rate
(mg Oxygen/gram solids/Hr.) 0.22 1.5 mgO₂/gram/Hr.

Sludge Characteristics

Total Solids (%) 13.10 N/A

Volatile Solids (%) 7.10 N/A

Organic Conc. (%) 54.2

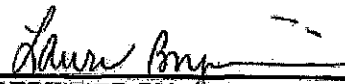
Soil pH - Measured in Water (Units) 7.05 > 5.50

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.

Note: SOUR diluted to TS <2%



CERTIFIED BY

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

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HOUSTON, TEXAS 77099
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: HASTING GREEN WWTP	LAB NUMBER: 1310587B
(HCFWSD #61)	
DATE COLLECTE 29-Aug-13	DATE RECEIVED: 29-Aug-13
DATE COMPLETE 13-Sep-13	SAMPLED BY: MB

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION:	DIGESTER	LIMITS
------------------	-----------------	---------------

PARAMETERS:

Microbial Populations

Fecal Coliform (Colonies/gram) (Geo Mean = 7)	18,600	2,000,000 CFU/g/TS
--	---------------	---------------------------


Vector Attraction Pontential

Specific Oxygen Uptake Rate (mg Oxygen/gram solids/Hr.)	1.28	1.5 mgO2/gram/Hr.
--	-------------	--------------------------

Sludge Characteristics

Total Solids (%)	1.13	N/A
Volatile Solids (%)	0.86	N/A
Organic Conc. (%)	76.1	
Soil pH - Measured in Water (Units)	6.84	> 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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HOUSTON, TEXAS 77099
(281) 568-7880

CERTIFICATE OF ANALYSIS

CLIENT: JACKRABBIT PUD LAB NUMBER: 14B2511B

DATE COLLECTED: 26-Feb-14 DATE RECEIVED: 26-Feb-14

DATE COMPLETED: 13-Mar-14 SAMPLED BY: FW

SAMPLE TYPE: Processes to Significantly Reduce Pathogens (PSRP)

LOCATION: Digester LIMITS

PARAMETERS:

Microbial Populations

Fecal Coliform (Colonies/gram)
(Geo Mean = 7) 2,200 000,000 CFU/g/l

Vector Attraction Potential

Specific Oxygen Uptake Rate
(mg Oxygen/gram solids/Hr.) 0.61 1.5 mgO2/gram/

Sludge Characteristics

Total Solids (%) 2.10 N/A

Volatile Solids (%) 1.50 N/A

Organic Conc. (%) 71.4

Soil pH - Measured in Water (Units) 6.23 > 5.50

SOUR diluted to TS < 2.0%


CERTIFIED BY

Ref. STANDARD METHODS 18th Ed. & *EPA SW-846

9222D - F. COLI 540G - TS & VS

2710B - SOUR *9045 - pH



Chaparral Laboratories, Inc.



T104704204

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 Katy
Attn: Eddie Pierce
P.O. Box 617
Katy, TX 77492

Customer ID: CKATY
Sample ID: 13090155
Date Received: 09/05/2013
Date Reported: 10/02/2013

Project: City of Katy WWTP
Location: Fort Bend County, TX

Analytical Results

Collection Point: Digester 4B	Date/Time Collected: 09/05/2013 08:50
Sample Type: Grab	Collector: CRH

Parameter	Result	Units	Date/Time	Analyst	Bottle	Method	QCID	Acad
Ammonia Nitrogen	<0.002	%	09/10/2013 10:06	JCG	-01	EPA 350.2	QC1309129	NELAC
Cadmium	<2.0	mg/kg	09/24/2013 13:03	TLP	-01	EPA 7000 B	QC1309347	NELAC
Chromium	<20.0	mg/kg	09/24/2013 14:20	TLP	-01	EPA 7000 B	QC1309348	NELAC
Copper	357.4	mg/kg	09/24/2013 10:36	TLP	-01	EPA 7000 B	QC1309342	NELAC
Lead	23.8	mg/kg	09/24/2013 15:33	TLP	-01	EPA 7000 B	QC1309346	NELAC
Mercury	0.68	mg/kg	09/13/2013 15:38	TLP	-01	EPA 7471 A	QC1309225	NELAC
Nickel	12.7	mg/kg	09/24/2013 12:27	TLP	-01	EPA 7000 B	QC1309343	NELAC
Nitrate Nitrogen	0.22	%	09/16/2013 08:50	TLP	-01	EPA 353.2	QC1309331	NELAC
Oxygen Uptake Rate	0.27	mg/g/h	09/06/2013 11:09	JWH	-01	SM 2710 B	QC1309126	
Total Kjeldahl Nitrogen	4.02	%	09/10/2013 07:18	JCG	-01	SM 4500-NH3 C	QC1309284	
Total Phosphorus	1.58	%	09/23/2013 07:03	JCG	-01	EPA 365.2	QC1309329	NELAC
Total Potassium	0.29	%	09/24/2013 15:37	TLP	-01	EPA 7000 B	QC1309345	NELAC
Total Solids	1.7	%	09/06/2013 16:19	TLP	-01	SM 2540 G	QC1309120	NELAC
Zinc	841.9	mg/kg	09/24/2013 16:08	TLP	-01	EPA 7000 B	QC1309349	NELAC
Arsenic	5.3	mg/kg	09/20/2013 16:08	SA	-02	EPA 6010	QC1309388	NELAC
Molybdenum	8.7	mg/kg	09/20/2013 16:08	SA	-02	EPA 6010	QC1309389	NELAC
Selenium	8.7	mg/kg	09/20/2013 16:08	SA	-02	EPA 6010	QC1309390	NELAC
7 Pt Fecal Geometric Mean	654327	CFU/g/TS	09/07/2013 09:15	JCG	-03	Calculation	QC1309146	
Fecal Coliform	591281	CFU/g/TS	09/06/2013 08:00	TLP	-03	SM 9222 D	QC1309145	NELAC
Fecal Coliform	663905	CFU/g/TS	09/06/2013 08:00	TLP	-04	SM 9222 D	QC1309145	NELAC
Fecal Coliform	685534	CFU/g/TS	09/06/2013 08:00	TLP	-05	SM 9222 D	QC1309145	NELAC
Fecal Coliform	768996	CFU/g/TS	09/06/2013 08:00	TLP	-06	SM 9222 D	QC1309145	NELAC
Fecal Coliform	618294	CFU/g/TS	09/06/2013 08:00	TLP	-07	SM 9222 D	QC1309145	NELAC
Fecal Coliform	633513	CFU/g/TS	09/06/2013 08:00	TLP	-08	SM 9222 D	QC1309145	NELAC
Fecal Coliform	633525	CFU/g/TS	09/06/2013 08:00	TLP	-09	SM 9222 D	QC1309145	NELAC
TCLP	See Page Report			SA	-10	N/A	QC1310009	NELAC
PCB	See Page Report			SA	**	N/A	QC1310010	NELAC

Date Entered in EATS:

Cert List Updated on:

10/8/13

Wednesday, October 02, 2013

Certificate of Analysis Page 1 of 5



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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	SampleType:	Grab
Site:	Digester	Collect Time:	1:50 PM
Sample Number:	01328698-01	Collector:	CAG

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	93127	MPN/gram	SDS	6/13/2013	6:50:00 P	Collet 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

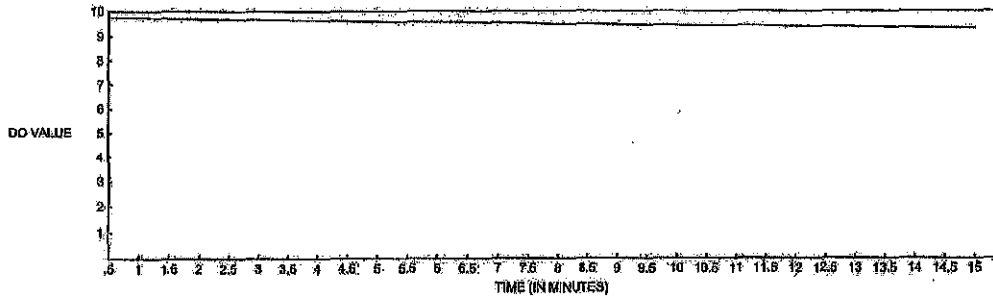
*NELAC Status: A=Accredited N=Accreditation not offered O=Not Accredited P=Approved

Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to 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 01/06/2013 12:08 collected by Angel Rodriguez from the Digester at 01/06/2014 09:10

PARAMETER	RESULT	UNITS	METHOD	ANALYST	ANALYSIS TIME
Fecal Coliform Sample ID: 11028862	15,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Sample ID: 11028863	17,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Sample ID: 11028864	14,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Sample ID: 11028865	25,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Sample ID: 11028866	22,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Sample ID: 11028867	17,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Sample ID: 11028868	15,000	CFU/g TS	SM 9222 D	HI	01/06/2014 13:45
Fecal Coliform Geometric Mean	1.8E+04	18,000	CFU/g TS		
Total Solids Sample ID: 11028859	1.9	%	SM 2540 G	CL	01/07/2014 15:21
S.O.U.R. Test Sample ID: 11028859	0.26	mg O2/hr/g TS	SM 2710 B	HI	01/06/2014 02:04



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 1.6 mg O2/hr/g TS.

Derek McCoy

 Derek McCoy
 Technical Director



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

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Porter Digester

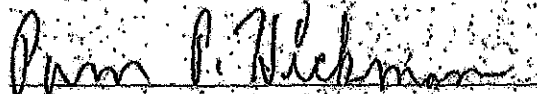
Collect Date:	7/16/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	9:45 AM
Sample Number:	C1334582-02	Collector:	BMB

Test		Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	1438	MPN/gram	SDS	7/16/2013	5:26:00 P	Colilert 18
Percent Solid	A	1.30	%	WGW	7/19/2013	2:50:00 P	SM 2640G
Vector	N	0.11	mg O2/hr/g	SDS	7/16/2013	6:25:00 P	TAC 312.83(b)(4)
Volatile Percent Solid	A	73.6	%	WGW	7/22/2013	9:40:00 A	SM 2640G

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

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www.eastexlabs.com eastexlab@eastex.net



Prestonwood
Water District Management
P.O. Box 679
Spring, TX 77383

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: Prestonwood Digester


Collect Date:	8/13/2013	Sample Type:	Grab
Site:	Digester	Collect Time:	8:30 AM
Sample Number:	C1938895-01	Collector:	SRA

Test	*	Result	Units	Tech	Date	Time	Method
Percent Solid	A	1.70	%	ANP	8/14/2013	9:58:00 A	SM 2540G
Vector	N	0.69	mg O ₂ /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 = <1.6 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.

Wednesday, August 21, 2013

Page 3 of 1

EL12_CustRept_PSRP 020413



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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	Sample Type:	Grab
Site:	Digester	Collect Time:	7:15 AM
Sample Number:	G1322226-01	Collector:	KH

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	16227	MPN/gram	SDS	5/7/2013	1:54:00 PM	Colifert 16
Percent Solid	A	1.80	%	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 = $41.5 \text{ mg/O}_2\text{/g Solids/hr}$

*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

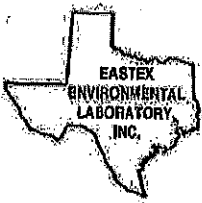
Most current versions applicable for methods listed are being used. Sample was diluted to less than 2% prior to sour analyses.

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Friday, May 31, 2013

Page 1 of 1

EL12_CuslRept_PSRP 020413



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NWHC MUD 5
Municipal District Services,
406 W Grand Pkwy S, Ste
Katy, TX 77494

Biosolids Pathogen and Vector Attraction Analysis LABORATORY ANALYSIS REPORT

Project ID: NWHC MUD 5 Digester


Collect Date:	9/3/2013	SampleType:	Grab
Site:	Digester	Collect Time:	12:20 PM
Sample Number:	C1342423-01	Collector:	ANP

Test	*	Result	Units	Tech	Date	Time	Method
Fecal Coliform IDEXX	N	3577	MPN/gram	SDS	9/3/2013	4:44:00 PM	Collert 18
Percent Solid	A	1.60	%	ANP	9/4/2013	9:20:00 AM	SM 2540G
Vector	N	0.20	mg O2/hr/g	SDS	9/3/2013	6:23:00 PM	TAC 312.83(b)(4)
Volatile Percent Solid	A	57.9	%	CRT	9/6/2013	12:00:00 P	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.



Chaparral Laboratories, Inc.



T104704204

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: Victor Svoboda
P.O. Box 190
Wallis, TX 77485-0190

Customer ID: CWALLIS
Sample ID: 14020931
Date Received: 02/27/2014
Date Reported: 03/24/2014

Project: City of Wallis
Location: Austin County, TX

Analytical Results

Collection Point: Digester
Sample Type: Grab

Date/Time Collected: 02/27/2014 12:10
Collector: JWH

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Date/Time</u>	<u>Analyst</u>	<u>Bottle</u>	<u>Method</u>	<u>QC ID</u>	<u>Acrd</u>
Ammonia Nitrogen	0.36	%	03/21/2014 10:01	JCG	-01	EPA 350.2	QC1403293	NELAC
Cadmium	2.7	mg/kg	03/18/2014 12:22	TLP	-01	EPA 7000 B	QC1403239	NELAC
Chromium	51.5	mg/kg	03/18/2014 13:10	TLP	-01	EPA 7000 B	QC1403236	NELAC
Copper	395.8	mg/kg	03/18/2014 10:26	TLP	-01	EPA 7000 B	QC1403237	NELAC
Lead	90.9	mg/kg	03/18/2014 12:45	TLP	-01	EPA 7000 B	QC1403240	NELAC
Mercury	1.3	mg/kg	03/20/2014 11:02	TLP	-01	EPA 7471 A	QC1403276	NELAC
Nickel	33.9	mg/kg	03/18/2014 10:49	TLP	-01	EPA 7000 B	QC1403238	NELAC
Oxygen Uptake Rate	<0.1	mg/g/h	03/04/2014 10:23	MHE	-01	SM 2710 B	QC1403163	
Total Kjeldahl Nitrogen	3.06	%	03/19/2014 08:15	JCG	-01	SM 4500-NH3 C	QC1403294	
Total Phosphorus	2.90	%	03/19/2014 07:28	JCG	-01	EPA 365.2	QC1403292	NELAC
Total Potassium	0.23	%	03/18/2014 13:33	TLP	-01	EPA 7000 B	QC1403235	NELAC
Total Solids	57.9	%	03/03/2014 15:10	TLP	-01	SM 2540 G	QC1403037	NELAC
Zinc	1662	mg/kg	03/18/2014 14:12	TLP	-01	EPA 7000 B	QC1403241	NELAC
Arsenic	14.5	mg/kg	03/11/2014 13:13	SA	-02	EPA 6010	QC1403176	NELAC
Molybdenum	6.27	mg/kg	03/11/2014 13:13	SA	-02	EPA 6010	QC1403177	NELAC
Nitrate Nitrogen	<0.002	%	03/11/2014 15:06	SA	-02	SM 4500-NO3	QC1403179	NELAC
Selenium	12.0	mg/kg	03/11/2014 13:13	SA	-02	EPA 6010	QC1403178	NELAC
7 Pt Fecal Geometric Mean	10024	CFU/g/TS	03/01/2014 13:35	TLP	-03	Calculation	QC1403040	
Fecal Coliform	11104	CFU/g/TS	02/28/2014 12:06	TLP	-03	SM 9222 D	QC1403039	NELAC
Fecal Coliform	7226	CFU/g/TS	02/28/2014 12:06	TLP	-04	SM 9222 D	QC1403039	NELAC
Fecal Coliform	21968	CFU/g/TS	02/28/2014 12:06	TLP	-05	SM 9222 D	QC1403039	NELAC
Fecal Coliform	12542	CFU/g/TS	02/28/2014 12:06	TLP	-06	SM 9222 D	QC1403039	NELAC
Fecal Coliform	7366	CFU/g/TS	02/28/2014 12:06	TLP	-07	SM 9222 D	QC1403039	NELAC
Fecal Coliform	5437	CFU/g/TS	02/28/2014 12:06	TLP	-08	SM 9222 D	QC1403039	NELAC
Fecal Coliform	11483	CFU/g/TS	02/28/2014 12:06	TLP	-09	SM 9222 D	QC1403039	NELAC

Quality Control