Jon Niermann, Chairman
Emily Lindley, Commissioner
Toby Baker, Executive Director



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 19, 2018

Mr. Burgess Stengl Environmental Manager Blue Ridge Landfill TX LP P O Box 879 Fresno, Texas 77545

Re:

Investigation Request at:

Blue Ridge Landfill, 2200 FM 521 Rd, Fresno (Fort Bend County), Texas

Regulated Entity No.: 102610102 TCEQ MSW Permit No.: 1505A Investigation No.: 1532183

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on November 27, and 28, 2018 and December 03, 2018, requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Reyna L. Loosmore and Mr. Carlos Griggs of this office conducted an investigation on December 02, and 06, 2018. No violations are being alleged as a result of the investigation.

For more information about our complaint process, you may access the publication GI-278: *Do You Want to Make an Environmental Complaint? Do You Have Information or Evidence?* on our website at www.tceq.texas.gov.

We appreciate your assistance in this matter and your interest in protecting the quality of our environment. If you have any questions concerning these findings, or if we can be of further assistance, please contact Ms. Loosmore at this office (713) 767-3706.

Sincerely,

Alma L. Jefferson, Manger

Alma L. Jefferson

Waste Section

Houston Region Office

ALJ/RLL/ug

#### MSW PA\_1505A\_CP\_20181202\_Investigation

#### Texas Commission on Environmental Quality Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

#### Customer: Blue Ridge Landfill TX, LP Customer Number: CN602820599

### Regulated Entity Name: BLUE RIDGE LANDFILL Regulated Entity Number: RN102610102

Investigation # 1532183	<b>Incident Numbers</b>	
	298424	297944
	298427	298400
	297946	298420
	298422	297941
	297947	299090
	298425	297948
	298421	297942
	297949	297940
	297943	298017
T PETALL LOOGNODE		

Investigator: REYNA LOOSMORE Site Classification TYPE 1

**Conducted:** 12/02/2018 -- 12/06/2018 **NAIC Code:** 562212

NAIC Code: 486210 SIC Code: 4922 SIC Code: 4953 SIC Code: 1521

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Compliance Investigation Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

Address: 2200 FM 521 RD, Local Unit: REGION 12 - HOUSTON

FRESNO, TX, 77545 Activity Type(s): MSWCMPL - Investigation of MSW

complaint

Principal(s):

Role Name

RESPONDENT BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone	
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office	(713) 676-7669
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office	(713) 676-7669
PARTICIPATED IN	DIVISION MANAGER	MR MARK MEADOWS	Phone	(281) 668-9739

#### **BLUE RIDGE LANDFILL - FRESNO**

12/2/2018 to 12/6/2018 Inv. # - 1532183

#### Page 2 of 4

#### Other Staff Member(s):

Role Name

QA Reviewer BETHANY BATCHELOR
Investigator CARLOS GRIGGS
Supervisor ALMA JEFFERSON

#### **Associated Check List**

Checklist Name

MSW COMPLAINT INVESTIGATION

Unit Name 1505A Complaint

#### **Investigation Comments:**

#### INTRODUCTION

On November 27, 28 and December 3, 2018, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 18 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on November 24, 26 and December 1 and 2, 2018.

On December 2, 2018, Ms. Reyna L. Loosmore and Mr. Carlos Griggs, Environmental Investigators of the TCEQ Houston Region Office Waste Section, conducted odor surveys in the area surrounding BRL. On December 6, 2018, Ms. Loosmore, conducted an unannounced on-site Odor Complaint Investigation at BRL.

#### BACKGROUND

A Notice of Enforcement was issued to BRL on October 21, 2016 for failure to prevent nuisance odor conditions. On July 12, 2017, Agreed Order Docket No. 2016-1923-AIR-E was signed by the TCEQ. By letter dated April 10, 2018, the TCEQ Enforcement Division approved BRL Odor Control Plan, thus requiring BRL to implement all provisions of the plan in accordance with the approved schedule.

#### GENERAL FACILITY AND PROCESS INFORMATION

BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

The landfill is authorized to dispose of MSW including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2, and Class 3 non-hazardous industrial solid waste; and certain special wastes. Liquid waste will be accepted at the Liquid Waste Bulking Facility for stabilization and subsequent disposal. BRL may not accept regulated hazardous waste, prohibited polychlorinated biphenyls, or untreated medical waste.

The waste acceptance hours are Monday through Friday, 4:00 a.m. to 5:00 p.m., and Saturdays from 5:30 a.m. to 12:00 p.m. The surrounding land use includes industrial facilities and residential subdivisions.

#### Complainant Information:

TCEQ Incident Nos. 297940, 297941, 297942, 297943, 297944, 297946, 297947, 297948, 297949, 298017, 298420, 298421, 298422, 298424, 298425, 298427 and 299090.

Description of Alleged Effects:

Headache, nausea, cough and sleeplessness were described as occurring because of the odors.

Meteorological data at the time of the odor survey:

Date: December 2, 2018

Wind Direction: southwest (SW) to west

#### **BLUE RIDGE LANDFILL - FRESNO**

#### 12/2/2018 to 12/6/2018 Inv. # - 1532183

#### Page 3 of 4

Wind Speed: 0.8 - 2.3 miles per hour (mph)

Outdoor Temperature: 52.5 - 53.6 °F

Meteorological data taken from TCEQ's continuous air monitoring station Manvel Croix Park C84 weather station (Attachment 1).

Odor Survey (OS):

The investigators conducted OS No. 1 at 3:26 a.m., crosswind of BRL at the intersection of Amy Ridge Road and McHard Road (FM 521). No odors were detected during the 60 minutes spent at OS No. 1.

OS No. 2, located at the 3100 block of Vintage View Lane in Pearland and crosswind of BRL, was conducted at 4:30 a.m. No odors were detected during the 60 minutes spent at OS No. 2.

OS No. 3, located at the 2400 block of Lost Bridge Lane in Pearland and downwind of BRL, was conducted at 4:34 a.m. No odors were detected during the 60 minutes spent at OS No. 3.

OS No. 4, located at the 2100 block of Pearl Bay Court and downwind of BRL, was conducted at 5:36 a.m. Garbage odors were detected during one (1) of the 60 minutes spent at OS No. 4, averaging to a very light intensity.

OS No. 5, located at the 1900 block of Cayman Bend Lane in Pearland and crosswind of BRL, was conducted at 5:38 a.m. No odors were detected during the 60 minutes spent at OS No. 5.

An aerial view map of the OS location and the OS log are included in Attachment 1.

Summary of the on-site investigation:

On December 6, 2018, Ms. Loosmore arrived at BRL and met with Mr. Mark Meadows, Division Manager, and Mr. Burgess Stengl, Environmental Manager, to whom the purpose and scope of the investigation were explained.

The facility representatives drove the investigator to the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained a copy of the MSW and Class 1 cover logs from November 1 to December 5, 2018 (Attachment 2). The cover logs indicate that six (6) inches of soil is applied at the end of each operating day to the Class 1 and MSW working faces as required.

Description of Odor:

Garbage odors were detected during the odor survey.

Description of the Effects on the Investigator:

No health effects were experienced by the investigators.

Description of the Terrain Features of the Area:

Terrain is flat with residences and businesses.

Location of the Source of the Odor:

While off-site, the investigators detected odors from the direction of BRL.

Odor Frequency, Intensity, Duration and Offensiveness (FIDO) Chart Evaluation:

According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive". Landfill garbage odors were previously detected coming from the direction of BRL on October 18, 28 and November 24, 2018. Therefore, the frequency of odors documented by the investigator is a monthly occurrence.

CONCLUSION

#### **BLUE RIDGE LANDFILL - FRESNO**

12/2/2018 to 12/6/2018 Inv. # - 1532183

Page 4 of 4

According to FIDO protocol, nuisance odor conditions were not confirmed during the investigation conducted on December 2 and 6, 2018. The complaints are closed.

No Violations Associated to this Investigation

Signed Frivironmental Investigator	Date 12/19/2018
Signed Alma L. Jefferson Supervisor	Date 12/19/2018
Attachments: (in order of final report submi	ittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type): NATURE (	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	See 4st of Attachments
Notice of Registration	

#### Blue Ridge Landfill 2200 F.M. 521, Fresno (Fort Bend County), TX 77545 Municipal Solid Waste Permit No. 1505A MSW Complaint Investigation Conducted on December 2 and 6, 2018

#### List of Attachments

Attachment 1: Meteorological Information, Map of Odor Survey locations and Odor Logs

Attachment 2: November and December 2018 Cover Logs

### ATTACHMENT 1

**Air Quality Maps** 

Data Reports

**AutoGC** 

Water Data

Site Info

# Manvel Croix Park C84 Data by Site by Date (all parameters)

Use this form to retrieve hourly data collected at Manvel Croix Park C84. Although this is the most current data, it is not considered official until it has been certified by the technical staff. This information is updated hourly.

This web page provides the most current hourly averaged data available. Our convention for time-tagging data is the beginning of each hour. For example, values shown for the noon hour are based on measurements taken from noon to 1:00 p.m. The noon average will not be calculated until after 1:00 p.m. The noon average will then be available on our external server from 1:15 p.m. to 1:30 p.m. This results in an apparent one-hour time lag in the data. We also present our data in Local Standard Time for each measuring site. For most of Texas this is Central Standard Time. During Daylight Savings, this introduces another apparent one-hour time lag in the data.

Use the controls below to select a different date or time format. Click on the Generate Report button once you have made your selections.

Click on the Plot Data button once the tabular report has been generated to open a separate window containing data plots.

Find Site:		CAMS AQS	Description	
CAMS 84	Manvel Croix Park C84			<ul> <li>Select a different site</li> </ul>
Month:	Day: Year: Time F	ormat:		
December ▼	2 ▼ 2018 ▼ 12 Hour	(AM/PM) ▼ Gener	ate Report Plot Data	
✓ Groop III	ndorline for validated	data		

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Sunday, December 2, 2018**. All times shown are in CST.

Parameter						Мо	rning	]										Afte	rnooi
Measured	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00
Nitric Oxide	-0.2	SPN	SPN	SPN	SPN	SPN	-0.1	0.3	1.1	2.2	1.7	1.3	0.8	0.3	0.2	0,3	0.1	-0.1	-0.1
<u>Nitrogen</u> <u>Dioxide</u>	7.2	SPN	SPN	SPN	SPN	SPN	2.9	3.7	5.9	7.5	6.9	6.4	5.8	5.3	5.4	6.5	9.5	18.2	21.0
Oxides of Nitrogen	7.2	SPN	SPN	SPN	SPN	SPN	2.8	4.0	7.0	9.8	8.6	7.8	6.6	5.7	5.7	6.9	9.7	18.4	21.2
Ozone	16	8	9	7	8	14	16	15	19	24	30	35	41	45	48	<u>50</u>	46	31	25
Wind Speed	2.3	2.7	2.2	0.8	2.3	2.0	0.9	1.5	4.5	6.7	6.6	6.5	6.0	4.5	4.7	4.1	4.3	2.8	3.7
Resultant Wind Speed	2.2	2.6	2.2	0.6	2.1	1.8	0.6	1.4	4.2	<u>6.3</u>	6.2	6.0	5.5	4.0	4.3	3.8	4.1	2.8	3.4
Resultant Wind Direction	200	197	199	222	217	225	262	248	293	329	345	<u>356</u>	353	13	12	17	42	35	53
Maximum Wind Gust	4.0	4.4	3.6	2.0	4.2	3.7	3.0	4.2	10.1	12.9	12.6	11.4	11.4	9.7	9.3	7.7	8.8	5.2	5.3
Std. Dev. Wind Direction	15	12	13	39	22	21	45	22	20	20	20	22	23	26	26	22	15	9	23
Outdoor Temperature	56.6	55.7	54.5	53.6	52.5	52.6	53.1	54.0	59.9	64.9	68.9	71.3	73.4	75.1	76.5	<u>76.9</u>	76.0	73.2	69.4
Parameter	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00
Measured						Mo	rning	I										Afte	rnooi
	Maxi	mum '	values	for e	ach pa	arame	ter are	bolo	<b>!</b> withi	n the	table. N	1inimur	n value	es are	bold	italic			
	R _ [	Data fi	rom th	nis ins	trume	nt me	ets EF	A qua	lity as	suran	ce crite	ria for	regulat	ory p	urpose	es.			

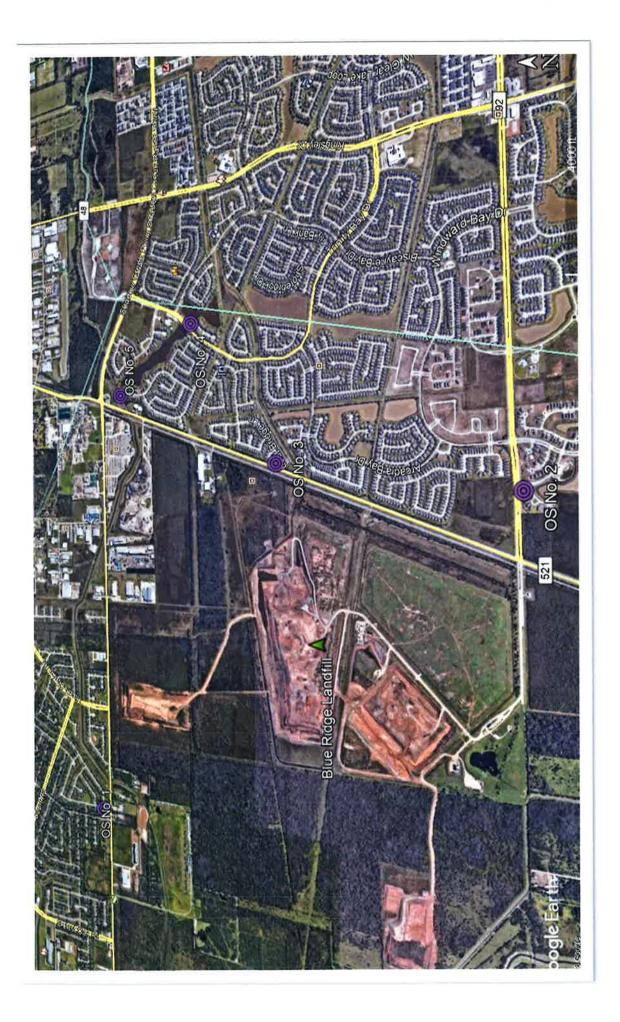
**PLEASE NOTE:** This data has not been verified by the TCEQ and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TCEQ ambient monitoring sites and may include data collected by other outside agencies. This data is updated hourly. All times shown are in local standard time unless otherwise indicated.

Following EPA reporting guidelines, negative values may be displayed in our hourly criteria air quality data, down to the negative of the EPA listed Method Detection Limit (MDL) for the particular instrument that made the measurements. The reported concentrations can be negative due to zero drift in the electronic instrument output, data logger channel, or calibration adjustments to the data. Prior to 1/1/2013, slightly negative values were automatically set to zero.

Site Help | Disclaimer | Site Policies | Accessibility | Our Compact with Texans | TCEQ Homeland Security | Statewide Links: Texas.gov | Texas Homeland Security | TRAIL Statewide Archive | Texas Veterans Portal

© 2002-2017 Texas Commission on Environmental Quality

Last Modified Tuesday, 30 Jan 2018



TCEQ Waste Section
December 2, 2018 Odor Surveys

Investigator: Reyna Location: Location: Location: Location: Location: Location: Start Time: 3:26 am

Minutes	Odor Intensity VL, L, M, S, VS
mia	No odor
	No odor
	No odor
	No order
1	No odor
	No odor
	Noodor
	No orbr
	Noodar
0	No odor
1	No art
2	Noodor
3	No orbit
4	No order
5	No color
6	No odor
7	No order
8	Noodor
19	Noodor
<b>2</b> 0	No orlor
21	No order
22	Nooder
23	No order
24	No odor
25	No order
25	Noad
27	Noodor
28	No ord
29	No odor
30	No orlor

Minutes	Odor Intensity VI., L, M, S, VS
31 min	NO COOR
	NO OWN
32	Noodor
33	12. 0 0 0 0
34	<u>NO OCOV</u>
35	No ogor
36	No Odor
37	No oda
38	No orion
1	No mor
39	No oder
40	No Mor
41.	No odas
12	100 000
13	NO (0,0)
44	NO alok
45	Nio Orbr
46	Nooda
47	No odor
1	Nooder
48	No odor
49	No own
50	No Odor
51	100 00
52	100 000
53	NO 010
54	No ada
55	No odor
56	No oder
	No odor
57	We corr
58	No orr
59	110 CMV
60	NO COL

	escription: veness: Hi		Offensive	Unpleasant_	Not U	npleasant
17_1_1_1_1	Average In	tensity:			TVL.	No Odor
A CHÉTTECH		IS	M	- L		
1 Min	VS	S	M	E.		
		S	M	Ē.		

Minutes	Odor Intensity VL, L, M, S, VS
min	Noodor
	No odo/
	Noodol
	Woodol
	No odol
	No odo!
	No odor
	No odo
	No odo
	No ode
	No odor
	Wooder
3	Noodoc
1	Wooder
	No ado
5	No odol
7	Noodar
8	wooder
9	Woodor
0	Nooder
1	1100001
2	6100dar
3	Woods
4	256 odo/
5	Nooder
6	Noval
7	Nodor
8	Wood
9	No odo
0	Noodor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	Noodor
32	Noodur
33	No wor
34	wo dul
35	No od o/
36	No odor
37	No oder
38	No odor
39	No odor
40	wo oder
41	Moder
42	Nooder
43	No odor
44	No oder
45	Noude
46	Nooder
47	Noodo
48	Wooder
49	Nodol
50	
51	Noodor
52	Woodo/
53	Noodor
54	Noodol
55	Nodol
56	20000
57	No odel
58	Noodor
59 60	Wooder

	escription: reness: Hig		Offensive	Unpleasant	Not U	npleasant
Weighted	Average Im	tensity:	M	L	VL	No Odor
	VS	3				
1 Min					_	
1 Drain					1	1
10 Min						

Supplemental Investigator's Odor Intensity Time Log
Investigator: Peyna Lasmore Location: 240 March 10th Bridge Lin
Date of Investigation: December 2,2018 Start Time: 4:34 am

Minutes	Odor Intensity VL, L, M, S, VS
mia	No char
	No oder
	NO OCC
	No oda
	No arr
	No oder
	No order
	No or
3	No oder
-	NO CIC
.0	NO OCC
1	NOUCU
2	NO OCO
13	No our
14	No oda
5	NO 000
16	NO OCC
7	No over
.8	No Occ
19	No oda
20	No adr
21	Noar
22	Noaks
	No Odr
23	Norder
24	Norm
25	No car
26	TWO COL
27	No over
28	Ma Com
29	NO CONT
0	NOUU

Vinutes	Odor Intensity VL, L, M, S, VS
31 min	No oder
32	No adr
33	No color
34	No oder
35	No oder
36	NO Oda
37	No odr
38	No colo
39	No oder
40	No odr
41	No oder
42	Nooder
43	No oder
44	No oder
45	No oda
46	NO Oda
47	No oder
48	No oda
49	No oda
50	Nooder
51	no acc
52	100 Och
53	No oda
54	No ada
55	No acc
56	No oda
57	No aar
58	NO COCI
59	NO COL
60	NO 001

	escription: reness: Hi		Offensive	Unpleasant	Not U	npleasant
eighted	Average In	tensity:	M	I L	VL	No Odor
	VS	5				
ı Min	VS	8				
	VS	5				

Investigator: Carles Criggs Location: 2100 Block of Pearl Bay Court Date of Investigation: 12 2 19 Start Time: 5 3 5 4 ~

Minutes	Odor Intensity VL, L, M, S, VS
min	Noodo
	Nodol
	Noodor
	Noodot
	Noods
	Noodol
	Nood
	W L
	Noodor
.0	Nodol
1	NO 0001
2	Noodol
3	Nobol
4	No 0001
5	6/2 add
.6	NSoder
7	No oder
18	Woodo!
19	Noode
20	No oder
21	No odol
22	Noodol
23	Nodol
24	Noodo
25	Noodel
26	No odal
27	No odel
28	We odo!
29	No od61
30	No odol

1 Hour

Minutes	Odor Intensity VL, L, M, S, VS
31 min	Noodel
32	Noodor
33	Noodac
34	Noodal
35	Noodol
36	Noodol
37	Woods
38	Nodol
39	Noodor
40	Novdor
41	No ode/
42	Nooder
43	No ode/
44	Nooder
45	Noodo
46	W2008
47	No oder
48	
49	2000
50	Novdor
51	No 00de1
52	
53	No edel
54	No ode/
55	doodar
56	Nodo/
57	Noodor
58	No odo/
59 60	No odol

	escription: reness: Hi	ghly(	Offensive	Unpleasant	. Not Un	pleasant
Veighted	Average In	tensity:	M	T.	VL	No Odor
Veighted	Average In VS	tensity:	M	L	Y 1 .	
Veighted 1 Min		tensity:	M	L	VL X \m;	

Supplemental Investigator's Odor Intensity Time Log
Investigator: Regna Cosmove Location: 1900 by ck of Cagman Bend of Date of Investigation: December 2,7018 Start Time: 5:38 am

Minutes	Odor Intensity VL, L, M, S, VS
min	No odar
	No odar
â	No odor
X	NO oder
	NO COLOR
	No oder
	No odor
3	No oda
9	No odar
10	No orbi
1	No orlar
2	Nactor
3	No odor
4	No odor
15	la cas
16	No order
17	No oda
18	100 are
19	No orbi
20	No orbr
21	No orbar
22	No odor
23	No odor
24	No ora
25	No oda
2 <del>6</del>	No coor
27	No odor
28	No are
19	No ocor
30	NO COOK

Minutes	Odor Intensity VI., L, M, S, VS
31 min	No Odor
32	100 OUDL
33	NO OCO
34	100 odar
35	No oda
36	NO Odor
37	No odor
38	No odor
39	No ador
40	No order
41	NOCACL
42	Noor
43	No order
44	No oran
45	NO Orbi
46	No coor
47	No odor
48	No orbi
49	No order
50	NO CHOL
51	No ora
52	No oda
53	NO (UD)
54	No ador
55	No Over
56	ho oda
57	No Oder
58	No over
59	No oda
60	NO CO

	escription: veness: Hi		Offensive	Unpleasant	Not U	npleasant
87_1_1_N1	Average In	tensity:		17	VL	No Odor
ASSISTER		S	M	<u>L</u>		
1 Min	VS	S	М			
		S	M	£		

## ATTACHMENT 2

Page 1 of 2

SERVICES

Blue Ridge Landfill, MSW-1505A

COVER APPLICATION LOG

20-44-00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Blue Ridge Landfill, MSW-1505A  Blue Ridge Landfill, MSW-1505A  Daily Cover  6* Soil  1750 50-57 64 8  2750	Method We wo Wo We wood		ed Afternate Spray-On or Ond Area	Tarps Daily Cove	1 1 1 1 1 1 1 1 1	3 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	-	Erosion or Leachate & Scep Detected	Date Erwin or Leachate Seap Corrected	Action <sup>6</sup>	Storkylie Required (yd²)	Rain (inches)	Rain (inches)	AMT	nes) (noches) 20.5"  12" Soi  12" Soi  12" Soi  13" Soi  15" MAIT! Grid Area Till M	oil Till	ethod3	AMT.	rid Area			Method	Method	Method	Inspection Ension Date Ero Date of 24' Inamediate Detected & Correct & Final Cover' Method* winspected vires  #/3/ #/1/3/	Inspection Evision Date Erosion Date Erosion Date Erosion Date Erosion Date Erosion Date Erosion 2 4" Corrected & Final Cover?  Method* Winspected Vers # 11/3/18  ###################################	Inspection Evision Date Erosion Office Cornectore Information Described S Final Cover Cover Cover Cover Information Described S Final Cover Cover Information Cover Informatio	Inspection Evision Date Erosion Date Erosion Date Erosion Date Erosion Date Erosion Date Erosion 2 4" Corrected & Final Cover?  Method* Winspected Vers # 11/3/18  ###################################
		Approved Alternate Daily Cover Stee	Approved Allemate Daily Cover Spray-On or Tarps  AT God Area T Method	70d.	70d.	70d.	P   % @		Inspection Late of Daily Cover*	Erosion or Leachate Seep Detected	Date Exision or Leachate Seep Corrected <sup>©</sup>			Rain (inches)	Rain (inches) ≥ 0.5 <sup>-4</sup>	<del>     </del>	Intermediate 12* So Grid Area					Final Cov	over sure Plan	Method	Method	Method	Inspection Epision Date Ero Date of 2.4" Currect Information Detected & Final & Final & Formation Cover' Method* **Inspected \cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	Inspection Eosion Date Erosion Date of ≥4" Corrected*  Intermediate Detected & Final Cover*  Method* viinspected <*Yes	Inspection Eroson Date Eroson Corrective In Date of Park of Corrected Action Action Corrected Cover Co	Inspection Eroson Date Eroson Corrective In Date of Park of Corrected Action Action Corrected Cover Co
- 38.42 \ - 32.58 \ \ - 32.58 \ \ \ \ - 32.58 \ \ \ \ - 32.58 \ \ \ \ - 32.58 \ \ \ \ - 32.58 \ \ \ \ \ - 32.58 \ \ \ \ \ - 32.58 \ \ \ \ \ \ - 32.58 \ \ \ \ \ \ \ - 32.58 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- 38.62 \ - 30.58 \ \ - 30.58 \ \ \ \ - 30.58 \ \ \ \ - 30.58 \ \ \ \ - 30.58 \ \ \ \ - 30.58 \ \ \ \ \ - 30.58 \ \ \ \ \ - 30.58 \ \ \ \ \ - 30.58 \ \ \ \ \ \ - 30.58 \ \ \ \ \ \ - 30.58 \ \ \ \ \ \ \ - 30.58 \ \ \ \ \ \ \ \ - 30.58 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1	1	1	1		1 1 1	154											$\sqcup$			Ш						1/2/2	1/2/2	1/2/2
		1	1		1	1	AS /	95.	7					015											(	(		11/3/18	11/3/18	11/3/18
			)	LνI		)	<u>်</u> ပ်	29.9	1										Ц	Ш	П						81/5/18			
			1		1	1 1	1 1	18	1					0							+						nlplis	T	T	T
		-	1		1 1	1		2.55	1					0,1							$\pm$									
		2	1	-	١			941	1						1					1						1	11-9-18			Ø.
		+	1	-	)	+	_	45.	1											11	+						8-01-11			RaG
		+	, I	1	١	)	17	25-0	1											П	$\forall$						11-12-13	-	-	-
		50	1	-	t			25.0	7											П							11-13-16	11-13-14	11-13/8 G	
	25.80 1 20.85	B			1		Ц	500	1											L										
		B		1	1	١		1-8-0	7																					
	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	7	1		1	1		-80	1						1						-									
		7)	7	-	1	1			1												I									
				-					ķ.					20 20 20							П									
		J I	i	-	1	ı	I 1	47	1					121																
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 - 1 - 23-52 1	B	1	_		ţ	- 67	-73	7											1	H				7	Į	7	7	7	7
1 05-th 1 1 1 1 1 25-27 1 1 1 1 25-27 1 1 1 1 25-27 1 1 1 1 25-27 1 1 1 1 25-27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7. 8. 8. 1 1. 10. 14. 14. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Ω Ω	1	#	1	1	1	15-2	/					2 6						- 1	+									
105-14	75.00	00		1	j	ľ	7	356	7											ı	-									
205-hh	75.00	Q /	1	+	1	1	183		7							-					+									
305-hh	75.55 - 1 - 75-75 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5		1		I	+																							
105-64	75-8		1.	1	1	I		144	1							-									1	7	/	/	\	
44-50	75-6 44-50	ני ני		1			- ['	6	1																		N-9-1	J. 38-10	11.38-58 C	
	12-08	Ū)	15.0		,	1			7																		11.29.18			

AMT = Amount of cover (soil) in vo or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine. B = Soil by Heavy Equipment, S = Spray-On

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEO Regional Office. If not corrected within 5 days, attach documentation starting reasons for delay Inspect areas with daily over or alternated alily over or alternated alily over each day the sit is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 5 or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form

Corrective Action: R = Restoring cover material; G = Grading, M = Compacting; S = Seeding

POP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum atticipated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material (RACM) disposal area.

Signature certifies work accomplished as stated in the Cover Application Log.

N .
3 GRANGED TO REPRINCE GROSSIONS PROLITE MOUNTS CLOPE MM-TT/52-56
5 GARRED TO REPART STUSTONS PLANETH SOUTH LLOPE. PT-114 37-38 GOODED HOW TOOK INSTITUTE THE SOUTH SOUTH THIS
GANDED TO DEPHIL GLOSSIONS PLASETIL ADMINISTRACE HH.III SO-53
0 1
9 GRANDED TO WERE SECRETORS PHOSE TIL NOWAY SLAVE SI-BUR /53-56
Recovery Gooded to Report was endine love Phys
12 Recover + Graded TO REPAIR RUTS Phase TI (-F/24-25 + Granded
Coppeled TO ROPAID EROSIONS PASSETT 4-D/
15
16
17
18
119
20
21
22
23
24
26
28
28 GRADEL TO REPORT Leaders Leaves - Physe II sourt shoe K-m/44-45, East shoe 1/1-X1/42-45
Granted to neare landown wars upon scope so-silis, was men 3.80 + well -77, w
30
31

# COVER APPLICATION LOG CLASS I NON HAZARDOUS

- c/as ad

San D 3   6"   3	1500 Blue Ric	e Ridge	Blue Ridge Landfill, MSW-1505A  Daily Cover  6" Soil  AMT Grid Area 7" Method A  5" OC C-3   6" B  5" OC C-3   6" B	bill bill	W-1505A  Mathred AMT		Approved Alternate Daily Cover	Tarps	Memod dvet	48 war	Inspection Date of Daily Cover	Erasion o y Leachate Seep Detected	Inspection Erosion of Date Date of Daily Leachald Erosion of Cover Seep Leachald Seep Leachald Seep Leachald Seep Leachald Seep Leachald Vives	Gorrective Action <sup>6</sup>	Soil Stockpile Required (yd²)	Rain (inches)	Rain inches	AMT	Intermediate Cover	o <sub>ii</sub> e Cover			Method <sup>1</sup> AMT	Method <sup>®</sup> AMT	Method <sup>®</sup> AMT	Final Closure Plan  Per Final Closure Plan  Method <sup>3</sup> AMT <sup>-</sup> Grid Area T <sup>-2</sup>	Final Cover  For Final Closure Plan  Method <sup>3</sup> AWI <sup>-1</sup> Grid Area 1 <sup>-2</sup> Method	Final Cover  For Final Closure Plan  Method <sup>®</sup> AMT <sup>*</sup> Grid Area T <sup>*</sup> Method	Final Closure Plan  Final Closure Plan  Per Final Closure Plan  A Final  Cover Cover Cover Cover Avirage Parameters  Method AMT Gall Area T Method Avirage Avirage  Method AMT Cover	Final Corser Inspection Employ Date Employ	Final Cover Inspection Employ Date Erosion Corrective Date of 2.4" Corrected Action <sup>5</sup> Method AMT Gord Area T <sup>2</sup> Method variety Action <sup>5</sup> Method AMT Gord Area T <sup>2</sup> Method variety Action <sup>5</sup>	Final Corser Inspection Employ Date Employ
D-31 6" B SZ" 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 000				D			1		00	,																					
D-3/6" 33 57/1  D-3/6" 33 57/1  H-19 6" 8 57/1  H-29 6" 8	500		w	. 9	W	1	Ĭ	Ţ	1	52	7											$\rightarrow$										
D-31 6" 3	B S B				ಟ	1	ï	1	1	22	1																					
1.29 6" B	7 50%	_			ÇÜ,	1	١	ï	)	75	7																					
11-19 6" 3	8 500	-	3	2	0	1	1	1	1	25	7																					
# 129 6" B	9 500		1.5.0	6"	W	1	Ŷ	1	)	07	1										-							_		_	_	
# 129 6" 8 42 1 # 129 6" 8 42 1 # 129 6" 8 52 1 # 129 6" 8	0	+																														
#-29 6" B 52 L #-29 6" B 52 L #-20 6" B	2500			77	δ	1	)	1		r r	7																					
1. 55 1. 2 1. 2 1. 3 1. 3 1. 3 1. 3 1. 3 1. 3	300				O <sub>5</sub>	1	1	i	ı	45	7																					
1.55 6, 9 25 1 1.55 6, 9 25 1 1.55 6, 9 61 1 1.55 6, 9	500			1	σ		1	١	ι	84	1																					
H-29 6" 3 55"  H-24 6" B 61  H-24 6" B 61  6-29 6" B 61  6-29 6" B 61  6-29 6" B 61  6-39 6" B 61  6-39 6" B 61  6-39 6" B 52  6-39 6" B 53  6-39 6" B 53	5 500			~	(3)	Ĭ	1	١	1	52	1																					
H-29 6" B 57  H-29 6" B 57  6-29 6" B 57  6-29 6" B 4/2  6-29 6" B 4/2  6-29 6" B 4/2  6-39 6" B 4/2  6-39 6" B 4/2  6-39 6" B	6 500	.H C		- 14	3	1	١	١	١		V																1	1	1	1	1	
H-29 6" B 57  H-29 6" B 57  6-29 6" B 4/2  6-29 6" B 4/2  6-29 6" B 4/2  6-29 6" B	7																															
H-29 6" B 57  H-29 6" B 57  6-29 6" B 4/2  6-29 6" B 4/2  6-29 6" B 4/2  6-29 6" B	8																				П	11										
#25 6" B 61 6-29 6" B 61 6-29 6" B 42 6-29 6" B 44 6-29 6" B 46 6-29 6" B 46 6-29 6" B 46 6-29 6" B 46 6-29 6" B	500		-	10	Ø	l		١	١	47	1											100	- 1									
1629 6" B 61 6-29 6" B 42 6-29 6" B 44 6-29 6" B 46 6-29 6" B 46 6-29 6" B 46 6-29 6" B 52 6-29 6" B	8			-	70	١	t	1	1	3	1																1					
6-29 6" B 49 6 6-29 6" B 49 6 6-29 6" B 49 6 6-29 6" B	5			*	23	1	1	1		0	6																					*
6-29 6" B 44 6 6-29 6" B 44 6 6-29 6" B 46 6-29 6" B 46 6-29 6" B 46 6-29 6" B 46 6-29 6" B	7	``	_	4	Ø	1				-											T	- 1										
6-29 6" B 44 6 6 B	24	C	-		_				1	7	,											- 1										
6-29 6" B 49 6 6 6 7 6 6 8 49 6 6 6 7 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7	25																					K A										
6-29 6" B 4% c	8500		29	_	W	1	1	1	¥.	44	7																(	(	(	(	(	
8-24 6 3 55.	7 500		30	_	W	1	t	C	1	416	1																					
6-29 6 3 55'	28 500				ستا	1	١	)	7	ر د	7																4					
6-29 6 3 55'	29 50				ω.	1	)	1	١	52	7																		11-20	11-29-18	11-27-18 6	
	301 500	_	_		121	,	J.	1	1.	55.	1										Т								DE THE STATE OF TH	S. Deepl.	9 8/KM	

<sup>31</sup> AMT = Amount of cover (soil) in yd<sup>3</sup> or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEO Regional Office. If not corrected within 5 days, attach documentation starting reasons for delay. Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5° or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation are on back of form

Signature certifies work accomplished as stated in the Cover Application Log. Corrective Action: R = Restoring cover materiat; G = Grading, M = Compacting; S = Seeding
SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum attripated size of the working face. A 50 yd soil stockpile is required within 1,000 ft of the Regulated Asbesto-Containing Material (RACM) disposal area.

5.
8
90
10
11
12
13
74
15
30
17
188
190
20
21
22
23
24
25
26
27
28
28 Society To people for phose I Top beck 32-28/ A-F
30 Banker To lepan. Pure The Neck 15-10/F-M

SERVICES

Blue Ridge Landfill, MSW-1505A

# COVER APPLICATION LOG

Page 1 of 2

Month / Year: December 2018

AMT	<u>u</u>	30	29	28	27	26	25	24	23	22	21	20	19	18	17	ģ	15	14	13	12	: [	5 0	٥	20 -	0	UI	4	ω	2		Ĺ,	
= Amo																										5550	250	3750		_	AMT <sup>†</sup>	
unt of cover																										25-54 MM - NA	35 - 25 14 PA	56-57		15000	Grid Area	Daily Cover
(soil) in						T		T									T	T			1			T		9	6 =	5.	_	5	<b>T</b> ²	over
vd or alte																										συ	B	ir)		(X)	Method	
mate dai																										3	)	)		ł	AMT'	Appn
AMT = Amount of cover (soil) in yo or alternate daily cover in bags or tarp area																										1	)	ĵ		}	Grid Area	Approved Atlemate Dally Cover Spray-On or Tarps
ags or ta																										)	)	1		1	T <sup>2</sup>	Tarps
rp area																										١	1	l		١	Method	
																										106-72	60-66	52-58		50-52		Elevation
																										1	1	-			Villapected	Inspection Erosion or Date of Daily Leachate i Seep Cover Detected
																								T						_	1 v=Yes	Erosion or Leachate Seep Detected
																																Erosion or Leachate Seep Corrected <sup>2</sup>
																																Corrective Action <sup>e</sup>
																							1									Soli Stockpile Required <sup>7</sup> (yd <sup>3</sup> )
																																Rain
																						1			T						√=Yes	Rain (inches) ≥ 0,5**
						Ī		T				_				Ī		T							1						AMT	
																															Grid Area	Intermed
						-	H									r	H				1	1	1	1							a T²	Intermediate Cover
						T	T	T	T	Г	L		T		T	T	T	T			1		1			T					Method	
																															AMT,	
																															Grid Area	Final Cover Per Final Closure Plan
				T			T	Ħ									l				Ħ	1							T		T <sup>2</sup>	Final Cover inal Closure Plai
																															Method	
		×																										1			Method \=Inspected	Inspection Date of 2.4"  Intermediate Detected & Final Cover*
															Г																veyes	Erosion ≥ 4" Detecled
																										12/5/18	12/41	12/3/18				Date Erosion Corrected <sup>5</sup>
				-		-						L		_	L	L		L						_	-	(8)	14/18	-	L			
																										8	3	2+6				Action of
																																Final Cover Certification Report Reference
																										des	Service Services	Rest			)	Supervisor Signature*

T = Thickness in inches

Erosion of daily cover must be corrected within 24 hours after the area is accessible, Erosion of intermediate or final cover must be corrected within 6 days of detection unless approved by TCEQ Regional Office, if not corrected within 5 days, atach documentation slatting reasons for delay. Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more, Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form. Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more, Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.

Corrective Action: R = Restoring cover material; G = Grading, M = Compacting; S = Seeding

Signature certifies work accomplished as stated in the Cover Application Log. SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum altcipated size of the working face. A 50 yd3 soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material (RACM) disposal area.

N a	
3 Recover a Gooder To reform Rus & warea Phone III TOP DECK HA-DD/18-45 & EE-HH/16-51	
essons or leading work More III south Slove 12-40	
10 DD-11/52-56	
7	
Ο	
.59	
15	
16	
18	
19	
20	
22	
23	
25	
26	
27	
28)	

# COVER APPLICATION LOG CLASS I NON HAZARDOUS

Month / Year: December 2018

Act   Contact   14   Marcol   Act   Contact
ANT COLORS 17 Intend ANT COLORS 17 Intend Colors 17 Inten
\$\frac{30}{60} (60.74) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
7
10   10   10   10   10   10   10   10
12
10
177   178     178
168     179
22         23         24         25         26         27         28         29         30
23
24
25
28
27         28         29         30         30
228
30
30

 $AMT=Amount\ of\ cover\ (soil)\ in\ y d^2$  or alternate daily cover in bags or tarp area T=Thickness in mohes

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermedate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation starting reasons for delay. Methods: A = Tarp Machine. B = Soil by Heavy Equipment, S = Spray-On Inspect areas with delity cover or alternate delity cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more, inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form, inspect areas with delity cover or alternate delity cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more, inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.

Corrective Action: R = Restoring cover material; G = Grading, M = Compacting; S = Seeding

Signature certifies work accomplished as stated in the Cover Application Log. SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum attributed size of the working face. A 50 yd soil stockpile is required within 1000 of the Regulated Asbesto-Containing Material (RACM) disposal area.

