

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 25, 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), TX
Regulated Entity No.: 102610102
TCEQ MSW Permit No.: 1505A
Investigation No.: 1513387

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on August 23, 24, 27, 28, 30, and 31, 2018 and September 4, 5, 6, and 7, 2018 requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Reyna L. Loosmore of this office conducted an investigation on September 6, 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,

A handwritten signature in dark ink, reading "Alma L. Jefferson", is positioned above the typed name.

Alma L. Jefferson, Team Leader
Waste Section
Houston Region Office

ALJ/RLL/na

MSW PA_1505A_C _20180906_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 # 1513387

Incident Numbers

291121	291230
291585	291726
291118	291568
291723	290930
291122	291736
291232	291729
291732	291359
291362	291582
290934	291233
291116	291784
291360	291721
291357	290933
291722	291734
291235	291584
290929	

Investigator: REYNA LOOSMORE

Site Classification TYPE 1

Conducted: 09/06/2018 -- 09/17/2018

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,
FRESNO, TX , 77545

Local Unit: REGION 12 - HOUSTON

Activity Type(s): MSWC MPL - Investigation of MSW
complaint

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

BLUE RIDGE LANDFILL - FRE

9/6/2018 to 9/17/2018 Inv. # - 1513387

Page 2 of 5

Role	Title	Name	Phone
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MR CHANCE SEELY	Phone (281) 835-6142
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MS AMY KUBINSKI	Phone (281) 835-6142
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

Other Staff Member(s):

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	BETHANY BATCHELOR

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	1505A Complaint

Investigation Comments:**INTRODUCTION**

On August 23, 24, 27, 28, 30, 31, September 4, 5, 6 and 7, 2018, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 29 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 April 15, August 23, 24, 26, 29, 30, 31, September 1, 5 and 6, 2018.

On September 6, 2018, Ms. Reyna L. Loosmore, Environmental Investigator of the TCEQ Houston Region Office, conducted an odor survey and an unannounced on-site Odor Complaint Investigation at BRL and in the surrounding area.

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.

As part of the approved Odor Control Plan, BRL notified the TCEQ by letter dated August 27, 2018, that the facility would be performing surface emission monitoring beginning September 10, 2018. BRL notification letter received on August 29, 2018 is included in Attachment 1.

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

BLUE RIDGE LANDFILL - FREI

9/6/2018 to 9/17/2018 Inv. # - 1513387

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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. 290929, 290930, 290933, 290934, 291116, 291118, 291121, 291122, 291230, 291232, 291233, 291235, 291357, 291359, 291360, 291362, 291568, 291582, 291584, 291585, 291721, 291722, 291723, 291726, 291729, 291732, 291734, 291736 and 291784.

Description of Alleged Effects:

Nausea, headaches and irritation of nose were described as occurring because of the odors.

Meteorological data at the time of the odor survey:

Date: September 6, 2018

Wind Direction: north-northeast (NNF) to east to southeast (SE)

Wind Speed: average 10 mph

Outdoor Temperature: 81.6 – 83.4 °F

Meteorological data taken from TCEQ's continuous air monitoring station Manvel Croix Park C84 weather station (Attachment 2).

Odor Survey (OS):

The investigator conducted OS No. 1 at 8:41 a.m., crosswind of BRL at the 13000 block of Palm Ridge Lane in Pearland. No odors were detected during the 15 minutes spent at OS No. 1.

OS No. 2, located near the intersection of Evergreen Street and Arover in Houston and crosswind of BRL, was conducted at 9:03 a.m. No odors were detected during the 15 minutes spent at OS No. 2.

OS No. 3, located near the intersection of Windward Bay Drive and Biscayne Bay Drive in Pearland and crosswind of Sewer Lift Station, was conducted at 9:26 a.m. No odors were detected during the 15 minutes spent at OS No. 3.

OS No. 4, located at the 1900 block of Cayman Bend Lane in Pearland and crosswind of Akzo Nobel Surface Chemistry (Akzo), was conducted at 9:47 a.m. No odors were detected during the 15 minutes spent at OS No. 4.

OS No. 5, located at the 3000 block of Bluebonnet Drive in Houston, downwind of Akzo and upwind of Lone Star Landfill, was conducted at 10:11 a.m. Rotten eggs odors were intermittently detected during one (1) of the 15 minutes spent at OS No. 5, averaging to a very light intensity.

OS No. 6, located at the 1100 block of Fruge Road in Pearland and upwind of Brenntag Southwest/Syntech Chemicals, was conducted at 10:35 a.m. No odors were detected during the 15 minutes spent at OS No. 6.

OS No. 7, located at 1801 Kingsley Drive in Pearland and crosswind of the Reflection Bay Wastewater Treatment Plant (WWTP), was conducted at 10:58 a.m. No odors were detected during the 15 minutes spent at OS No. 7.

An aerial view map of the OS location and the OS log are included in Attachment 2.

Summary of the on-site investigation:

Following the odor survey, the investigator arrived at BRL and met with Mr. Chance Seely, Environmental

Specialist; Ms. Amy Kubinski, Environmental Specialist and Mr. Mark Meadows, Division Manager, to whom the purpose and scope of the investigation were explained.

Six inches of soil is applied at the end of each operating day to the Class 1 and MSW working faces. The facility representatives drove the investigator to the MSW and Class 1 working faces, by which piles of soil were observed. No erosion was observed on the slopes of the landfill during the investigation. The investigator obtained a copy of the MSW and Class 1 cover logs from August 1 to September 5, 2018 (Attachment 3). The cover logs indicate that soil is applied to the working faces as required.

Description of Odor:

Rotten eggs odors were detected during the odor survey.

Description of the Effects on the Investigator:

No health effects were experienced by the investigator.

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 investigator detected odors at OS No. 5, upwind of Lone Star Landfill.

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

According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive", the odor of landfill gas/leachate is characterized as "highly offensive", and rotten eggs odor is characterized as "highly offensive". Landfill garbage odors were previously detected coming from the direction of BRL on July 12 and 23, 2018. Therefore, the frequency of odors documented by the investigator is a monthly occurrence.

CONCLUSION

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

No Violations Associated to this Investigation

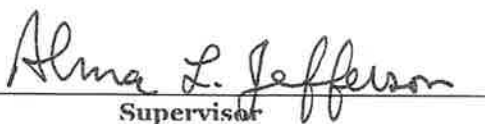
Signed


Environmental Investigator

Date

10/25/2018

Signed


Supervisor

Date

10/25/2018

Attachments: (in order of final report submittal)

☐ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type) : No Action letter

☐ Investigation Report

☐ Sample Analysis Results

☐ Manifests

☐ Notice of Registration

☒ Maps, Plans, Sketches

☐ Photographs

☒ Correspondence from the facility

☒ Other (specify) :

See list of Attachments

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

List of Attachments

Attachment 1: August 27, 2018 Surface Emission Notification Letter

Attachment 2: Meteorological Information, Map of Odor Survey locations and Odor Logs

Attachment 3: August/September 2018 Cover Logs



August 12, 2019

Mr. Jason Vester, Waste Action Manager
Texas Commission on Environmental Quality
Region 12 Office
2125 Pohl St., Ste. 2
Houston, TX 77057-1422

Dear Mr. Vester:

As part of the Texas Commission on Environmental Quality (TCEQ) Approval Order No. 2019-1023-RW-E, Section 12.1.1 and Section 2.1 of the approved April 2018 River Water Control Plan, the TCEQ Region 12 Office has been assigned to provide monitoring for the TCEQ Region 12 Office that the next 2018 further action monitoring will be conducted on the TCEQ Region 12 Office of the TCEQ Region 12 Office for the TCEQ Region 12 Office.

ATTACHMENT 1

It is noted that the monitoring system may be constructed due to conditions outside of the control of the facility. Such conditions include, but are not limited to, weather events and scheduled activities with the equipment. If the conditions outside of the facility will result in the TCEQ Region 12 Office's inability to conduct the monitoring, you are requested to provide the TCEQ Region 12 Office with a copy of the monitoring system to be constructed.

If you have any questions regarding this request, please contact the TCEQ Region 12 Office at 713-676-1000.

RECEIVED
AUG 12 2019
REGION 12

Sincerely,
[Signature]
Bryan Smith
Environmental Manager

Mark N. Anderson, P.E., District Engineer
TCEQ Region 12 Office



P.O. Box 879 Fresno, TX, 77545
o 281-835-6142 f 281-835-6146 republicservices.com

August 27, 2018

Mr. Jason Ybarra, Waste Section Manager
Texas Commission on Environmental Quality
Region 12 Office
5425 Polk St., Ste. H
Houston, TX 77023-1452

Dear Mr. Ybarra,

As part of the Texas Commission on Environmental Quality (TCEQ) Agreed Order No. 2016-1923-AIR-E, Section IV, 3.b.iii.4., and Section 5.2 of the approved April 2018 Blue Ridge Odor Control Plan, Blue Ridge Landfill TX, LP (Blue Ridge) is notifying the TCEQ Region 12 Office that the next 2018 surface emission monitoring will begin on September 10, 2018. Blue Ridge is obligated to provide at least 72 hours (five business days) notice to the TCEQ Region 12 Office of the dates for the emission monitoring.

Please note that the monitoring event may be rescheduled due to conditions outside of the control of the facility. Such conditions include, but are not limited to, weather events and scheduling conflicts with the consultants. If this should occur, the facility will notify the TCEQ Region 12 immediately of any change.

If you have any questions regarding this request, please feel free to contact me at 713-676-7669.

Sincerely,

Burgess Stengl
Environmental Manager

RECEIVED
AUG 29 2018
REGION 12

Cc: Mark Meadows, Blue Ridge Landfill
Tim Telepak – Tetra Tech

REGION 12

ATTACHMENT 2

REGION 12

TYNNEHODATA

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

▼ Select a different site

Month: Day: Year: Time Format:

September ▼ 6 ▼ 2018 ▼ 12 Hour (AM/PM) ▼ Generate Report Plot Data

✓ Green underline for validated data

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Thursday, September 6, 2018**. All times shown are in CST.

Parameter Measured	Morning												Afternoon							
	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	-0.1	-0.0	-0.0	-0.1	0.3	1.3	5.0	<u>14.0</u>	2.8	0.8	0.7	0.3	0.3	0.1	-0.0	-0.1	-0.0	-0.0	-0.1	
Nitrogen Dioxide	1.6	1.5	1.7	3.4	3.4	4.0	5.0	<u>13.2</u>	7.8	5.1	6.3	4.1	3.3	1.8	1.4	1.1	1.1	1.2	1.7	
Oxides of Nitrogen	1.5	1.6	1.7	3.5	3.9	5.4	10.2	<u>27.7</u>	10.9	6.1	7.3	4.6	3.8	2.0	1.5	1.1	1.2	1.2	1.7	
Ozone	4	3	2	3	1	0	1	5	17	22	25	27	<u>30</u>	30	27	27	26	27	29	
Wind Speed	1.7	0.8	1.4	1.1	0.3	0.9	1.4	3.5	3.0	2.2	4.9	4.2	5.4	<u>8.2</u>	6.2	6.5	8.2	7.6	5.5	
Resultant Wind Speed	1.7	0.6	1.2	1.0	0.2	0.7	1.2	3.2	1.9	1.8	4.5	3.8	5.1	<u>7.9</u>	5.8	6.2	7.9	7.4	5.4	
Resultant Wind Direction	346	336	317	4	199	301	<u>349</u>	17	NNE 24	E 88	SE 129	114	150	179	193	177	163	173	167	
Maximum Wind Gust	2.5	2.2	3.7	3.1	0.3	3.0	2.9	6.8	6.2	5.9	16.2	13.2	12.1	<u>16.8</u>	12.6	14.3	13.7	13.4	12.4	
Std. Dev. Wind Direction	13	40	33	27	<u>51</u>	30	32	22	49	34	21	25	19	15	21	18	16	14	15	
Outdoor Temperature	77.1	76.9	76.3	76.8	76.2	<u>75.7</u>	76.4	79.1	81.6	83.1	83.4	79.0	81.4	82.6	81.6	83.4	<u>84.4</u>	83.5	80.7	
Parameter 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	
	Morning												Afternoon							
Maximum values for each parameter are bold within the table. Minimum values are bold italic .																				
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.																				

REGION 12

REGION 12

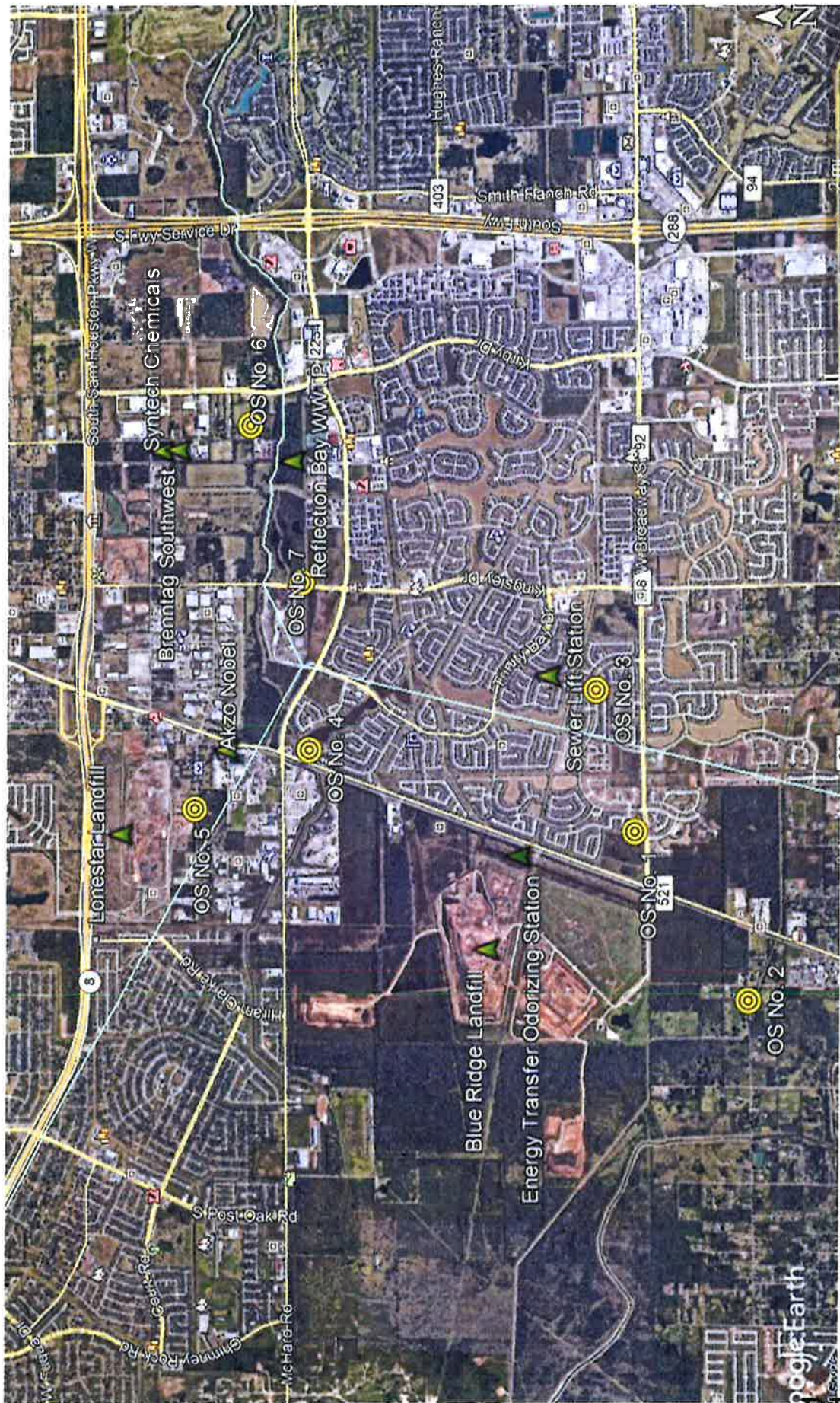
PLEASE NOTE: This data has not been verified by the TCEQ and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TCEQ ambient monitoring sites and may include data collected by other outside agencies. This data is 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.

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Last Modified Tuesday, 30 Jan 2018



TCEQ Waste Section
September 6, 2018 Odor Surveys

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reyna Loosmore
Date of Investigation: 9/6/18

Location: 13000 block of Palm Ridge Ln
Start Time: 0841 hrs

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No odor
2	No odor
3	No odor
4	No odor
5	No odor
6	No odor
7	No odor
8	No odor
9	No odor
10	No odor
11	No odor
12	No odor
13	No odor
14	No odor
15	No odor
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30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
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60	

Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

REGION 12

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reyna Loosmore
Date of Investigation: 9/6/18

Location: 0.04 mi east of intersection of
Start Time: 0903 hrs Greengrass
& Ave 1

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No Odor
2	No Odor
3	No Odor
4	No Odor
5	No Odor
6	No Odor
7	No Odor
8	No Odor
9	No Odor
10	No Odor
11	No Odor
12	No Odor
13	No Odor
14	No Odor
15	No Odor
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

REGION 12

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reyna Loosmore
 Date of Investigation: 9/6/18

Location: Intersection of Windward Bay Dr & Biscayne Bay Dr
 Start Time: 0926h

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No odor
2	No odor
3	No odor
4	No odor
5	No odor
6	No odor
7	No odor
8	No odor
9	No odor
10	No odor
11	No odor
12	No odor
13	No odor
14	No odor
15	No odor
16	
17	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

REGION 12

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reyna Loosmore
Date of Investigation: 9/6/18

Location: 1900 block of Cayman Bend Ln
Start Time: 0947 hrs

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No Odor
2	No Odor
3	No Odor
4	No Odor
5	No Odor
6	No Odor
7	No Odor
8	No Odor
9	No Odor
10	No Odor
11	No Odor
12	No Odor
13	No Odor
14	No Odor
15	No Odor
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

REGION 12

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reyna Loosmore
Date of Investigation: 9/6/18

Location: 3000 block of Bluebonnet Dr.
Start Time: 1011 hrs

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No Odor
2	No Odor
3	No odor
4	No Odor
5	No Odor
6	No odor
7	No Odor
8	L M
9	No odor
10	No odor
11	No odor
12	No odor
13	No Odor
14	No odor
15	No Odor
16	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: Rotten eggs

Offensiveness: Highly ☒ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity: 0.2

	VS	S	M	L	VL	No Odor
1 Min			ix3		✓	
10 Min						
1 Hour						

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reynold Loosmore Location: 1100 block of Fringe Road
 Date of Investigation: 9/6/18 Start Time: 1035 hr

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No odor
2	No odor
3	No odor
4	No odor
5	No odor
6	No odor
7	No odor
8	No odor
9	No odor
10	No odor
11	No odor
12	No odor
13	No odor
14	No odor
15	No odor
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
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36	
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42	
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Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
30 Min						

REGION 12

Supplemental Investigator's Odor Intensity Time Log

Investigator: Reyna Loosmore
Date of Investigation: 9/6/18

Location: 1801 Kingsley Drive
Start Time: 1058 hrs

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No odor
2	No odor
3	No odor
4	No odor
5	No odor
6	No odor
7	No odor
8	No odor
9	No odor
10	No odor
11	No odor
12	No odor
13	No odor
14	No odor
15	No odor
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
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42	
43	
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Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

ATTACHMENT 3

REGION 12

REGION 12



Blue Ridge Landfill, MSW-1505A

MSW

COVER APPLICATION LOG

Daily Cover		Approved Alternate Daily Cover		Elevation		Inspection Date of Daily Cover ¹	Erosion or Leachate Seep Detected ²	Date Erosion or Leachate Seep Corrected ³	Corrective Action ⁴	Soil Stockpile Required ⁵ (yd ³)	Rain (inches)	Rain (inches) ≥ 0.5"	Intermediate Cover			Final Cover Per Final Closure Plan			Inspection Date of Intermediate & Final Cover ⁶	Erosion ≥ 4" Detected ⁷	Date Erosion Corrected ⁸	Corrective Action ⁹	Final Cover Certification Report Reference	Month / Year	Supervisor Signature ¹⁰
AMT ¹¹	Grid Area	T ¹²	Method ¹³	MSL	MSL								Grid Area	AMT ¹⁴	T ¹⁵	Method ¹⁶	Grid Area	AMT ¹⁷	T ¹⁸						
1	50	27.22	6"		68-72						0.1									Uninspected	Yes				
2	50	27.22	6"								0.1									Uninspected	Yes				
3	750	27.22	6"		72-80						0.1									Uninspected	Yes				
4	750	27.22	6"		68-68						0.1									Uninspected	Yes				
5	750	27.22	6"		68-75						0.1									Uninspected	Yes				
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REGION 12

AMT = Amount of cover (soil) in yd³ 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

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. 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 TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.

Corrective Action: R = Restoring cover material; 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 amount of soil required is dependent upon the maximum allocated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area. Signature certifies work accomplished as stated in the Cover Application Log.

REGION 12

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Blue Ridge Landfill, MSW-1505A

COVER APPLICATION LOG CLASS I NON HAZARDOUS

0151

Month / Year: 03/2015

Daily Cover		Approved Alternate Daily Cover		Elevation	Inspection Date of Daily Cover ¹	Erosion or Leachate Seep Detected	Corrective Action ⁴	Soil Stockpile Required ⁷ (yd ³)	Rain (inches) ≥ 0.5"	Intermediate Cover			Final Cover			Inspection Date of Intermediate & Final Cover ⁶	Erosion or Leachate Seep Detected	Date Erosion Corrected ⁵	Corrective Action ⁴	Final Cover Certification Report Reference	Supervisor Signature ³
AMT ²	Grid Area	T ³	Method ³							AMT ²	Grid Area	T ³	Method ³	AMT ²	Grid Area	T ³					
1				MSL	✓	✓			✓								✓				
2																					
3	500	B-31	B	54"	✓																
4	500	B-31	B	56"	✓																
5	500	B-31	B	53"	✓																
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AMT = Alternate cover (soil) in yd³ or alternate daily cover in bags or tarp area

T = Thickness in Inches

Methods: B = 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.

Erosion or Leachate Seep Detected: Erosion or Leachate Seep Detected 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 TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.

Corrective Action: R = Restoring cover material; 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 amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

Signature penalties work accomplished as stated in the Cover Application Log

REGION 12

REGION 12

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COVER APPLICATION LOG

Blue Ridge Landfill, MSW-1505A

Month / Year: August 2018

Daily Cover	6" Soil	Approved Alternate Daily Cover			Elevation	Inspection Date of Daily Cover ⁶	Erosion or Leachate Seep Detected	Corrective Action ⁴	Soil Stockpile Required (yd) ⁵	Rain (inches) ≥ 0.5"	Rain (inches)	Intermediate Cover			Final Cover			Inspection Date of Intermediate Cover ⁷	Erosion 2' or Greater Detected	Date Erosion Corrected ⁸	Corrective Action ⁹	Final Cover Certification Report Reference	Supervisor Signature ¹⁰
		AMT ¹	Grid Area	T ²	Method ³							Grid Area	T ²	Method ³	Grid Area	T ²	Method ³						
1	750	57-58	6"	B	—	47-55	✓	—	—	—	—	—	—	—	—	—	—	8-2-18	✓	8-2-18	G	—	[Signature]
2	750	57-58	6"	B	—	55-62	✓	—	—	—	—	—	—	—	—	—	—	8-3-18	✓	8-3-18	G	—	[Signature]
3	750	57-58	6"	B	—	40-48	✓	—	—	—	—	—	—	—	—	—	—	8-4-18	✓	8-4-18	R+G	—	[Signature]
4	500	57-58	6"	B	—	48-57	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
5	750	57-58	6"	B	—	50-58	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
6	750	57-58	6"	B	—	58-62	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
7	750	57-58	6"	B	—	60-66	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
8	750	57-58	6"	B	—	64-74	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
9	750	57-58	6"	B	—	74-80	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
10	750	57-58	6"	B	—	80-82	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
11	500	57-58	6"	B	—	60-67	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
12	750	57-58	6"	B	—	67-75	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
13	750	57-58	6"	B	—	75-82	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
14	750	57-58	6"	B	—	40-48	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
15	750	57-58	6"	B	—	48-55	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
16	750	57-58	6"	B	—	55-57	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
17	750	57-58	6"	B	—	40-48	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
18	500	57-58	6"	B	—	40-48	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
19	750	57-58	6"	B	—	48-56	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
20	750	57-58	6"	B	—	40-48	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
21	750	57-58	6"	B	—	40-48	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
22	750	57-58	6"	B	—	41-56	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
23	750	57-58	6"	B	—	56-62	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
24	750	57-58	6"	B	—	61-63	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
25	500	57-58	6"	B	—	60-68	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
26	750	57-58	6"	B	—	63-72	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
27	750	57-58	6"	B	—	72-78	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
28	750	57-58	6"	B	—	72-78	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
29	750	57-58	6"	B	—	72-78	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
30	750	57-58	6"	B	—	72-78	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]
31	750	57-58	6"	B	—	72-78	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	[Signature]

AMT = Alternate daily cover (soil) in yd³ or alternate daily cover in bags or tarp area

T = Thickness in inches

Method: A = Spraying Machine, B = Soil by Heavy Equipment, S = Spray-On

Inspected 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.

Erosion 2' or greater after the area is accessible. Erosion of intermediate 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 stating reasons for delay

Corrective Action: R = Restoring cover material; 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 amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

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

REGION

1	
2	Graded to remove erosions Phase II West Slope M-S 13-20
3	Graded to remove erosions Phase II South Slope A-G 17-27
4	Recover & Graded to remove erosions & arrange on Phase III North Slope 20-33/50-54
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15	Recover & Graded to remove erosion 55-64/48-50 Phase III
16	Recover & Graded to remove erosion on slope 55-64/44-47 Phase III
17	Recover & Graded to remove erosion for deck Phase III 11 11-12/48-51
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22	Recover & Graded to remove erosion & Run Phase III Top Deck 11-12/44-48
23	Recover & Graded Phase II South Slope H-D 20-27
24	Recover & Graded Phase II South Slope D-G 24-27
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Blue Ridge Landfill, MSW-1505A

COVER APPLICATION LOG CLASS I NON HAZARDOUS

Page 1 of 2

Daily Cover		Approved Alternate Daily Cover		Elevation MSL	Inspection Date of Daily Cover ¹	Erosion or Leachate Detected ²	Date of Erosion or Leachate Detected ²	Corrective Action ³	Soil Stockpile Required ⁴ (yd ³)	Rain (inches) ≥ 0.5"	Rain (inches) ≥ 0.5"	Intermediate Cover 12" Soil		Final Cover Per Final Closure Plan		Inspection Date of Intermediate & Final Cover ⁵	Erosion 2-4" Detected ⁶	Date Erosion Corrected ⁷	Corrective Action ⁸	Final Cover Certification Report Reference	Month / Year: <i>August 2018</i>	Supervisor Signature ⁹
AMT ¹⁰	Grid Area	T ¹¹	Method ¹²									AMT ¹³	Grid Area	T ¹⁴	Method ¹⁵							
1	500	4-32	B	56'	✓																	
2	500	4-32	B	58'	✓																	
3	500	4-32	B	69'	✓																	
4																						
5																						
6	500	4-32	B	42'	✓																	
7	500	4-32	B	44'	✓																	
8	500	4-32	B	46'	✓																	
9	500	4-32	B	48'	✓																	
10	500	4-32	B	50'	✓																	
11																						
12																						
13	500	4-32	B	52'	✓																	
14	500	4-32	B	54'	✓																	
15	500	4-32	B	56'	✓																	
16	500	4-32	B	42'	✓																	
17	500	4-32	B	44'	✓																	
18																						
19																						
20	500	4-32	B	46'	✓																	
21	500	4-32	B	48'	✓																	
22	500	4-32	B	50'	✓																	
23	500	4-32	B	52'	✓																	
24	500	4-32	B	42'	✓																	
25																						
26																						
27	500	4-32	B	44'	✓																	
28	500	4-32	B	46'	✓																	
29	500	4-32	B	48'	✓																	
30	500	4-32	B	50'	✓																	
31	500	4-32	B	52'	✓																	

AMT = Area of cover (soil) in yd² or alternate daily cover in bags or tarp area

T = Thickness in inches

Method: 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. Erosion or leachate 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 TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.

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

SOP Section 7.7.4 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

Signature/initials work accomplished as stated in the Cover Application Log

REGION 12

REGION 12

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