File Copy

1505 A

# MSW PA\_1505A\_CO\_20160603\_Investigation Report **Texas Commission on Environmental Quality Investigation Report**

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

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

Investigation # 1337197

**Incident Numbers** 

234594

233718

**Investigator:** 

RICHARD BLACKNEY

Site Classification TYPE 1

**Conducted:** 06/03/2016 -- 09/26/2016

**NAIC Code:** 562212

**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):

MSWCMPL - Investigation of MSW

complaint

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

Role Title **Phone** Name Office (713) 676-7669 MR BURGESS STENGL REGULATED **ENVIRONMENTAL ENTITY** MANAGER CONTACT Office (713) 676-7669 MR BURGESS STENGL PARTICIPATED ENVIRONMENTAL IN MANAGER Work (713) 676-7664 PARTICIPATED MR MATT LANDFILL IN **OPERATIONS** MONTAGNA

Other Staff Member(s):

Role

Name

MANAGER

QA Reviewer Supervisor

**CARLOS GRIGGS** 

ALMA JEFFERSON

**Associated Check List** 

Checklist Name

**Unit Name** 

MSW COMPLAINT INVESTIGATION

1505A

# **Investigation Comments:**

#### INTRODUCTION

On May 20 and June 3, 2016, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received two 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 May 19 and June 3, 2016.

On June 3, 2016, Mr. Richard Blackney, Environmental Investigator of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it.

#### BACKGROUND

On December 18, 2015, during Investigation No. 1300533, an alleged violation for erosion of cover was noted at BRL and remains outstanding.

# GENERAL FACILITY AND PROCESS INFORMATION

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 1. 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 accept municipal solid waste including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2 and Class 3 non-hazardous industrial waste; and liquid wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. Liquid wastes are sent to a bulking facility/solidification basin prior to disposal in the landfill. Hazardous waste may not be accepted for disposal.

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

#### Complainant Information:

See confidential files (TCEQ Incident Nos. 233718 and 234594).

# Description of Alleged Effects:

Effects on health were not alleged.

Meteorological data at the time of the odor survey:

Wind direction: SSE

Wind Speed: 3.6 to 8.3 mph Temperature: 75.5 to 79.0°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 2).

#### Odor Survey:

The investigator arrived at the first survey point located at the 2900 block of Pebble Falls Lane in Pearland. Odor Survey (OS) No. 1 took place upwind of BRL and was conducted at 10:35 a.m. No landfill odors were detected during the 15 minutes spent at OS No. 1.

The investigator went to OS No. 2 located at the 4600 block of Ripple Ridge in Houston. OS No. 2 took place downwind of BRL and was conducted at 10:58 a.m. No landfill odors were detected during the 15 minutes spent at OS No. 1.

Following the on-site investigation, the investigator went to OS No. 3 located at the intersection of S. Post Oak Road and FM 2234 in Houston. OS No. 3 took place downwind of BRL and was conducted at 12:27 p.m. No landfill odors were detected during the 15 minutes spent at OS No. 3.

Aerial view maps of the OS locations and the OS logs are included in Attachment 2.

#### BLUE RIDGE LANDFILL - FRESNU

# 6/3/2016 to 9/26/2016 Inv. # - 1337197

### Page 3 of 5

Summary of on-site investigation:

The investigator arrived at BRL, and met with Mr. Matt Montagna, Landfill Operations Manager, and Mr. Burgess Stengl, Environmental Manager, to whom the purpose and scope of the investigation were explained.

BRL receives Class I waste in its Class 1 disposal cell Monday through Friday, and receives MSW in the MSW cell Monday through Saturday. Six inches of soil is applied to the Class 1 cell and MSW cell at the end of each operating day. The investigator viewed the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained copies of the cover logs for May 2016 (Attachment 3). The cover logs indicate that soil is applied to the working faces as required.

At the time of the investigation, repair of some areas of erosion was observed, but some erosion gullies greater than four inches deep were still observed.

BRL has a system of misters for the purpose of neutralizing odors. The investigator viewed the misting system in operation.

Description of Odor:

Odors typical of landfill garbage were not 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: The alleged source of the odor is BRL.

#### ODOR FIDO CHART EVALUATION:

According to the Frequency, Intensity, Duration, and Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As landfill odors were detected previously during investigations conducted on April 11, 2016 (Investigation No. 1324578) and April 25, 2016 (Investigation No. 1329398), the frequency of odors documented by the Waste Section investigator is a "monthly occurrence".

Physical Effects Experienced by the Investigator which are Indicative of Adverse Effects upon Health: The investigator did not experience any physical effects during the investigation.

Normal use of Property Affected by the Odor and the Manner in which such Odor could Reasonably be Expected to Interfere with this Use:

According to FIDO protocol, a nuisance condition was not confirmed.

#### SUMMARY OF INVESTIGATION FINDINGS

#### OUTSTANDING ALLEGED VIOLATION

The following alleged violation was noted during the investigation conducted on December 18, 2015, and remains outstanding:

Site Operating Plan 4.18 / 30 Texas Administrative Code §330.165(g) – Landfill Cover (Category C4)

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

#### BLUE RIDGE LANDFILL - FRESI

6/3/2016 to 9/26/2016 Inv. # - 1337197

Page 4 of 5

On June 3, 2016, repair of many of the areas of erosion were observed, but some erosion gullies greater than four inches deep were still observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

OUTSTANDING ALLEGED VIOLATION(S)

Track Number: 598524

Compliance Due Date: To Be Determined

Violation Start Date: Unknown

30 TAC Chapter 330.165(g)

# PERMIT 1505A, Site Operating Plan 4.18.3

Erosion gullies or washed-out areas will be repaired within 5 days of detection by restoring the cover material, grading, compacting, and seeding.

Alleged Violation:

Investigation: 1300533

Comment Date: 03/18/2016

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

Investigation: 1308059

Comment Date: 04/05/2016

Erosion gullics that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

Investigation: 1314675

Comment Date: 04/22/2016

Compliance with this regulation was evaluated during investigations on February 2, 2016 and March 2, 2016.

Investigation: 1320039

Comment Date: 05/16/2016

Compliance with this regulation was evaluated during the investigation on March 14, 2016.

Investigation: 1323599

Comment Date: 06/02/2016

Compliance with this regulation was evaluated during the investigation conducted on April 6, 2016.

Investigation: 1324578

Comment Date: 07/15/2016

Compliance with this regulation was evaluated during the investigation conducted on April 11, 2016.

Investigation: 1329398

Comment Date: 07/28/2016

Compliance with this regulation was evaluated during the investigation on April 25, 2016.

Investigation: 1335255 Comment Date: 09/01/2016

#### BLUE RIDGE LANDFILL - FRESNO

6/3/2016 to 9/26/2016 Inv. # - 1337197

## Page 5 of 5

Compliance with this regulation was evaluated during the investigation conducted on May 17, 2016.

Investigation: 1337197

Comment Date: 09/26/2016

Compliance with this regulation was evaluated during the investigation conducted on June 3, 2016.

**Recommended Corrective Action:** On June 3, 2016, repair of many of the areas of erosion were observed, but some erosion gullies greater than four inches deep were still observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

Signed Relationer Environmental Investigator	Date 16/06/2016
Signed Alma L. Jofflusan Supervisor	Date 10/06/2016
Attachments: (in order of final report subn	nittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
X Letter to Facility (specify type): additional	Photographs
Investigation Report Compliance	Correspondence from the facility
Sample Analysis Results Yedwest	Other (specify) :
Manifests	See list of attachments
Notice of Registration	

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Bryan W. Shaw, Ph.D., P.E., Chairman
Toby Baker, Commissioner
Jon Niermann, Commissioner
Richard A. Hyde, P.E., Executive Director



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 6, 2016

# CERTIFIED MAIL # 7013 3020 0000 9763 2328 RETURN RECEIPT REQUESTED

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

Re:

Blue Ridge Landfill, 2200 FM 521 Rd., Fresno (Fort Bend County), Texas 77545 TCEQ Municipal Solid Waste Permit No. 1505A

Dear Mr. Stengl:

On June 3, 2016, Mr. Richard Blackney of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for municipal solid waste. Enclosed is a summary which lists the investigation findings. During a previous investigation on December 18, 2015, a concern was noted which was an alleged violation and remains outstanding.

We will monitor your progress in implementing corrective action. Please be advised, though, that if we determine during follow-up monitoring that you are not working towards compliance, further enforcement action will be considered.

The TCEQ appreciates your assistance in this matter and anticipates that you will resolve the alleged violation as required in order to protect the State's environment. If you or members of your staff have any questions, please feel free to contact Mr. Blackney in the Houston Region Office at (713) 767-3718.

Sincerely,

Alma L. Jefferson, Team Leader

lmad Jof

Waste Section

Houston Region Office

ALJ/RLB/rsv

Enclosure:

Summary of Investigation Findings

## **SUMMARY OF INVESTIGATION FINDINGS**

Blue Ridge Landfill 2200 F.M. 521, Fresno (Fort Bend County), TX 77545 Municipal Solid Waste Permit No. 1505A MSW Complaint Investigation Conducted on June 3, 2016

## **OUTSTANDING ALLEGED VIOLATION**

The following alleged violation was noted during the investigation conducted on December 18, 2015, and remains outstanding:

# Site Operating Plan 4.18.3 / 30 Texas Administrative Code §330.165(g) - Landfill Cover

Erosion gullies that are four or more inches deep on final or intermediate cover must be repaired within five days of detection by restoring the cover material, grading, compacting, and seeding unless the commission's regional office approves otherwise, based on the extent of the damage requiring more time to repair or the repairs are delayed because of weather conditions. The date of detection of erosion and date of completion of repairs, including reasons for any delays, must be documented in the cover inspection record.

Erosion of cover was observed at Blue Ridge Landfill on December 18, 2015, and the date of detection was not in the cover log, nor a reason for delay of repair of cover.

On June 3, 2016, repair of many of the areas of erosion were observed, but some erosion gullies greater than four inches deep were still observed.

Blue Ridge Landfill is requested to restore the cover material and include the date of completion of repairs in the cover log. The facility is requested to submit documentation to the TCEQ Houston Region Office to verify compliance.

# Blue Ridge Landfill 2200 F.M. 521, Fresno (Fort Bend County), TX 77545 Municipal Solid Waste Permit No. 1505A MSW Complaint Investigation Conducted on June 3, 2016

# List of Attachments

Attachment 1 Central Registry Information for Blue Ridge Landfill

Attachment 2 Map of Odor Survey locations and Odor Logs

Attachment 3 May 2016 Cover logs

# ATTACHMENT 1

Questions or Comments >>

**Customer Search** 

**RE Search** 

**ID Search** 

**Document Search** 

Search Results

TCEO Home

Query Home

# Central Registry Query - Regulated Entity Information

# **Regulated Entity Information**

RN Number: RN102610102

Name: BLUE RIDGE LANDFILL

Primary Business: MUNICIPAL SOLID WASTE LANDFILL

Street Address: 2200 FM 521 RD, FRESNO TX 77545 8214

County: FORT BEND

Nearest City: FRESNO

State: TX

Near ZIP Code: 77545

Physical Location: LOCATED ON 2200 FM 521

### Affiliated Customers - Current

Your Search Returned 5 Current Affiliation Records ( View Affiliation History )

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

### 1-5 of 5 Records

CN Number 🔺	Customer Name	Customer Role(s)	Details
CN600343826	BFI WASTE SYSTEMS OF NORTH AMERICA INC	OWNER OPERATOR	⇒
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	⇔
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	⇔
CN602820599	BLUE RIDGE LANDFILL TX LP	OWNER OPERATOR	⇔
CN603713595	GRISHAM & JHA GROUP LLC	OPERATOR	⇔

# **Industry Type Codes**

Code	Classification	Name
562212	NAICS	Solid Waste Landfill
1521	SIC	General Contractors-Single-Family Houses
1629	SIC	Heavy Construction
1794	SIC	Excavation Work
4953	SIC	Refuse Systems

# Permits, Registrations, or Other Authorizations

There are a total of 21 programs and IDs for this regulated entity. Click on a column name to change the sort order.

#### 1-21 of 21 Records

Program ▲	ID Type	ID Number	ID Status

AIR EMISSIONS INVENTORY	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	AFS NUM	4815700111	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	32691	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	51882	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	55939	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77271	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77703	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	81004	ACTIVE
AIR OPERATING PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR OPERATING PERMITS	PERMIT	1472	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	89429	ACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505A	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	64950	ACTIVE
PETROLEUM STORAGE TANK STAGE II			
STORMWATER	PERMIT	TXR05N415	CANCELLED
STORMWATER	PERMIT	TXR05S302	ACTIVE
STORMWATER	PERMIT	TXR15NZ96	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

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# **ATTACHMENT 2**

Air Quality Maps

Data Reports

AutoGC

ON ENVIRONMENTAL QUALITY

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.

 CAMS 84
 Manuel Croix Park C84
 ✓ Select a different site

 Month:
 Day: Year: Time Format:

June 🗸 3 🗸 2016 🗸 12 Hour (AM/PM) 🗸 Generale Report Plot Dala

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for Friday, June 3,

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2016. All times shown are in CST.

Green underline for validated data

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Parameter	1						rnin			_									rnoo						Para
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	7:00	8:00	9:00	10:00	11:00	Meas
Nitric Oxide	0.7	0.9	1.4	0.9	1.2	0.4	2.5	0.7	1.6	1.4	1.0	0.0	1.1	0.4	0.8	0.6	0.3	0.9	0.6	0.7	0.3	1.2	1.1	0.7	Nitric
Nitrogen Dioxide	-0.6	-1.5	-0.7	-0.2	1.6	4.3	6.0	1.9	3.4	0.8	-0.3	-1.2	-1.5	-1.6	-1.4	-1.7	-1.6	-1.0	0.7	1.4	1.0	2.9	4.9	-0.0	Nitrog Dioxid
Oxides of Nitrogen	0.2	-0.6	0.8	0.7	2.9	4.8	8.6	2.6	5.1	2.2	0.6	-1.1	-0.4	-1.3	-0.6	-1.1	-1.3	-0.0	1.4	2.1	1.3	4.2	6.1	0.7	Oxides Nitrog
Ozone	22	17	17	16	14	11	10	29	31	36	42	45	50	51	52	47	49	47	41	34	27	22	18	30	Ozone
Wind Speed	1.6	3.0	2.5	1.9	1.2	2.2	4.2	4.9	1.9	4.0	3.6	5.9	8.3	5.9	4.0	4.5	3.4	2.0	2.5	4.7	1.5	2.1	3.3	4.7	Wind 9
Resultant Wind Speed	1.1	2.8	2.4	1.8	0.9	1.4	1.4	4.3	1.0	2.4	2.8	5.3	7.9	5.5	3,4	3.5	1.1	1.5	0.9	4.4	1.4	1.9	3.2	4.4	Result Wind S
Resultant Wind Direction	185	145	126	137	137	333	360	151	122	31	153	149	146	143	161	253	193	146	65	128	129	100	106	111	Result Wind Directi
Maximum Wind Gust	4.5	5.7	4.7	6.4	6.8	6.0	11.8	12.5	5.0	6.7	7.0	11.8	16.1	10.9	8.6	10.9	7.1	6.4	6.9	10.7	4.7	4.3	6.2	10.9	Maxim Wind (
Std. Dev. Wind Direction	45	18	21	23	40	49	66	28	56	50	37	25	18	21	34	38	<u>67</u>	41	64	23	26	25	13	20	Std. Do Wind Directi
<u>Outdoor</u> emperature	71.1	70.7	70.7	70.8	71.2	71.4	71.2	70.3	70.4	72.3	75.5	77.2	79.0	80.1	80.7	77.5	79.2	78.9	78.1	73.4	72.0	72.5	72.1	72.8	Outdo
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	7:00	8:00	9:00	10:00	11:00	Parar
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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 beginning 1/1/2013, 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.

Last Modified May 2013

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2900 brock of Peloble Falls Ln

# Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	6-3-	- (6	Start Time:	10:35

	I
Minutes	Odor Intensity VL, L, M, S,VS
1 min	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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Offensiveness: Highly Offensive Unpleasant Not Unpleasant	Unpleasant Not Unpleasant	ss: Highly Offensive _	Offensiveness: Highl
---	---------------------------	------------------------	----------------------

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

4600 block Kipple Ridge

# Supplemental Investigator's Odor Intensity Time Log

D   (T   ' '	12-3-110	)	10:5	8
Date of Investigation:	Q	Start Time:	10 - 0	G

Minutes	Odor Intensity VL, L, M, S,VS
1 min	nooder
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26	
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29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	14
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
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53	
54	4
55	
56	5
57	
58	no odor
59	11
60	16

Offensiveness: Highly	_ Offensive	Unpleasant	Not Unpleasant
-----------------------	-------------	------------	----------------

Weighted Average Intensity:

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

S. Post Oak + M2234

# Supplemental Investigator's Odor Intensity Time Log

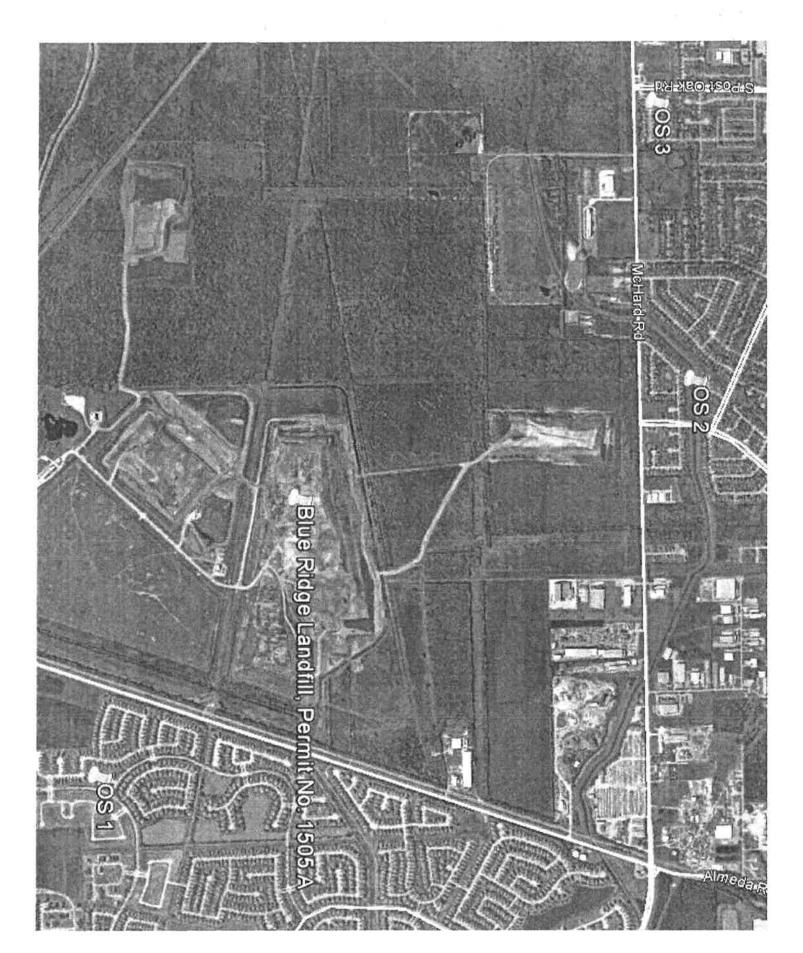
Date of Investigation:	6-3-2	2016	Start Time:	12:27
Date of Investigation	9 -		Blait Time.	

Minutes	Odor Intensity VL, L, M, S,VS
1 min	
2	
3	
4	
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Minutes	Odor Intensity VL, L, M, S, VS
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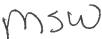
Offensiveness: Highly	Offensive	_ Unpleasant	Not Unpleasant

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



# **ATTACHMENT 3**





		Daily (				proved Alterna	ite Daily (	Cover	Elevation	Inspection	Erosion or	Date	Corrective	Soil	Rain	Dei:		_
		6* 5	Soll			Spray-On (	or Tarps		MSL	Date of Daily Cover⁴	Leachate Seep Detected	Erosion or Leachate Seep Corrected <sup>5</sup>	Action <sup>6</sup>	Stockpile Required <sup>7</sup> (yd <sup>3</sup> )	(inches)	Rain (inches) ≥ 0.5" <sup>4</sup>		
	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method		√=Inspected	v=Yes			(1.8 anvil)		v=Yes	AMT <sup>1</sup>	-
1		00.72														. 105	7	-
2	CON	54-53	6"	5		_		-	112-116	/								-
3	7150	CZ- €E 57-53	6"	B	~		-		14.120	1								-
4	1100	CC-8 & S4-53	12 4	B				7	120-124	V								-
5	1100	53-52	6"	B	_			_	112-114	V								7
6	1100	53-52	4"	B	_		~	_	116-120	V								-
7	1100	353	6"	B	-				120-124	V								<del>-</del>
8									120 121								+	_
9	1100	CC-EE 52-51	6	B	-	7	_		112-116									-
10	750	50-S1	6"	В	-		-	_	1/2.180									-
11	1100	35.31	41	B	~	_			120-124	V								-
12	1106	51-50	6"	B	_	~		<u>`</u>	112-116	~								
13	lloo	51-50	CX	B	_	~	_		114 120						Mei		-+	_
	stock	51-50	GK	В	~_	~	_	_	120-122	1					375°	-		
15									180 142						3.6"	1		7
	عادم	50-49	4"	8	_		-		112-114						1,0"	-		-
	CON	CC- ECE 50-49	6"	3	_	_	1		16-120	7					,70%	·/		-
	1100	CC-EE 56-41	6"	B	_				120-124						• 101			
19	1100	49-48	6	B	-	-	1			~						<del>-</del>		
20	1100	AA - 47	6	B		-			(CG-21) 1/20-21			-			2.0"			
	1100	AA ec	6	B	- T					V								
22		750 19							146.08						1,45"	/		-
- 1	1100	X-Z 51-50	1"	B	_		_		111 100	V								_
_		50-49	100	B					114-120									
25 1	100	45-48	6	B					120-124	V	-							_
26	1100	48.47	6"	3					124-126	V								_
27	100	48-47	6"	3 3					120-124	V								_
28 1	100	47,46	6"	B					124-126	1								_
	100	71/76	0	1-3	-				120-124	V					3.5"	1		
29	110.3	47-46	( ) !	_				-										_
	100	46-45	611	3					24-126									_
				3		v cover in ha			120-122	V								

NMT = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area

<sup>=</sup> Thickness in inches

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

nspect 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 5° or Frosion 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 approve corrective Action: R = Restoring cover material; G = Grading, M = Compacting; S = Seeding

OP 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 aticipated size of the working face. The mount of soil required is dependent upon the maximum aticipated size of the working face. The mount of soil required is dependent upon the maximum aticipated size of the working face. The mount of soil required is dependent upon the maximum aticipated size of the working face. The mount of soil required is dependent upon the maximum aticipated size of the working face.

Month / Year: MAY 2014

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ermediate Cover				Final Co		Inspection Date of Intermediate & Final Cover <sup>4</sup>	Erosion ≥ 4" Detected	Date Erosion Corrected <sup>®</sup>	Сопесtive Action <sup>6</sup>	Final Cover Certification Report Reference	Supervisor Signature <sup>i</sup>	
Grid Area	T <sup>2</sup>	Method <sup>3</sup>	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	v=Inspected	v=Yes				
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5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of forms proved by TCEQ Regional Office. If not corrected within 5 days, attach documentation starting reasons for delay.

vorking face. A 50 yd<sup>3</sup> soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material (RACM) disposal area.

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# CLASS 1

# COVER APPLICATION LOG CL

	Blue Ridge Landfill, MSW-1505A																	
	Daily Cover			Approved Alternate Daily Cover Spray-On or Tarps			Date of Da	Inspection Date of Daily Cover <sup>d</sup>	aily Leachate	ate Erosion or Leachate	Corrective Action <sup>6</sup>	Soil Stockpile Required <sup>7</sup> (yd <sup>3</sup> )	Rain (inches)	Rain (inches) ≥ 0.5 <sup>r4</sup>	Inte			
	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>3</sup>		v=Inspected	\=Yes					ν=Yes	AM~	Gne
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2	Stock	2-26	4"	B	~	)		~	451	~								_
_3		Q-22	6"	B				_	45'	V								-
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6	500	Q-26	6"	B		)	_		45	V								
7									7									-
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9	Stak	Q-24	6	B				_	45'	/							-	_
0	stak	Q-22	6"	B		~	)		45.							ì		
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8	500	Q-26	4	3	_	_	-	-	44							$\dashv$	-+	
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AT = Amount of cover (soil) in yd3 or alternate daily cover in bags or tarp area

spect 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 cosion 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 accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accroved intermediate or final cover must be corrected within 5 days of detection unless accrowed intermediate or final cover must be corrected within 5 days of detection unless according to the final cover must be corrected within 5 days of detection unless according to the final cover must be corrected within 5 days of detection unless according to the final cover must be corrected within 5 days of detection unless according to the final cover must be corrected within 5 days of detection unless according to the final cover must be corrected within 5 days of detection unless according to the final cover

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<sup>=</sup> Thickness in inches

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

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Over	Final (		Inspection Date of	Erosion	Date		Ma 4
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T <sup>2</sup> Method <sup>3</sup>	AMT <sup>1</sup> Grid Area	T <sup>2</sup> Method <sup>3</sup>	Cover				Reference
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