

File Copy

1505A

Investigation # 1282 994



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*

November 30, 2015

Mr. Burgess Stengl  
Environmental Manager  
Blue Ridge Landfill TX LP  
5757A Oates Road  
Houston, Texas 77078

Re: Investigation Request at:  
Blue Ridge Landfill, 2200 FM 521 Rd, Fresno, TX 77545-8214  
TCEQ MSW Permit No.: 1505A  
**Investigation No.: 1282994**  
**Incident No(s): 219502**


Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on August 26, 2015 a request for assistance regarding the offensive odor at the above-referenced facility. In response to this request, Ms. Ursula Guzman of this office conducted an investigation on September 10, 2015. 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](http://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. Guzman at this office at (713) 422-8964.

Sincerely,

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

ALJ/UAG/rsv



## TCEQ Complaint Report

11/05/2015  
3:55:15PM

COPY

**Incident No:** 219502  
**Media Type:** WASTE  
**Start Date:** 8/20/2015 **Start Time:** 12:00:00AM  
**Received Date:** 08/26/2015  
**Method :** EMAIL

**Staff Member:** UGUZMAN  
**Status:** Closed  
**Status Date:** 10/07/2015  
**Priority:** Within 14 Calendar Days

**Regulated Entity:** BLUE RIDGE LANDFILL

**RN102610102**

**Address:** 2200 FM 521 RD  
FRESNO, FORT BEND County, TX 77545  
**Physical Location:** LOCATED ON 2200 FM 521

**Responsible Party:** BLUE RIDGE LANDFILL TX LP

**Title:** ENVIRONMENTAL  
MANAGER

**Address:** 2200 FM 521 RD, FRESNO, TX 77545

**Number Complaining:** 1  
**Frequency:** CURRENT  
**Alleged Source:** BLUE RIDGE LANDFILL

**Program Group:** MUNICIPAL  
SOLID WASTE - HIGH LEVEL

**Nature:** ODOR  
**Effect:** ENVIRONMENTAL

### Initial Problem

Complainant alleges offensive odor emitting from regulated entity made complainant's eyes water.

### Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

### Closure Comments

More information will be available upon approval of the investigation report.

**Investigation Number:** 1282994



MSW\_PA\_1505A\_CO\_20150910\_Investigation Report  
**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](mailto:oce@tceq.texas.gov)

INFORMATION COPY  
FOR R12 FILE ROOM

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

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**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

**Investigation #** 1282994

**Incident Numbers**

219502

**Investigator:** URSULA GUZMAN

**Site Classification** TYPE 1

**Conducted:** 09/10/2015 -- 11/30/2015

**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**

**Name**

**Phone**

REGULATED  
ENTITY  
CONTACT

OPERATIONS  
MANAGAER

MR MATT  
MONTAGNA

Work (713) 676-7664

REGULATED  
ENTITY MAIL  
CONTACT

ENVIRONMENTAL  
MANAGER

MR BURGESS STENGL

Work (713) 676-7669

PARTICIPATED  
IN

OPERATIONS  
MANAGER

MR MATT  
MONTAGNA

Work (713) 676-7664

**Other Staff Member(s):**

**Role**

**Name**

QA Reviewer  
Supervisor  
Investigator

KATIE PHILLIPS  
ALMA JEFFERSON  
RICHARD BLACKNEY

**Associated Check List**

**Checklist Name**

MSW COMPLAINT INVESTIGATION

**Unit Name**

Complaint Checklist

**Investigation Comments:**

**INTRODUCTION**

On August 26, 2015, an odor complaint was received by the Texas Commission on Environmental Quality (TCEQ) Houston Region Office (TCEQ Consolidated Compliance and Enforcement Data System (CCEDS) Incident No. 219502). The complainant alleged that on August 20-25, 2015, there was an offensive odor that made the complainant's eyes water emitting from Blue Ridge Landfill (BRL), located at 2200 FM 521, Fresno (Fort Bend County), Texas 77545. An aerial view map of the facility with Odor Survey (OS) locations is provided in Attachment 1.

On September 10, 2015, Ms. Ursula Guzman and Mr. Richard Blackney, Environmental Investigators for the TCEQ Houston Region Office, conducted an unannounced odor complaint investigation in the area surrounding BRL, and on site at BRL to determine if, in relation to the complaint, there were violations of operational rules or standards.

**BACKGROUND**

The Houston Region Office files were reviewed and a CCEDS search was conducted pursuant to this investigation. The most recent odor complaints were previously investigated at BRL on June 10, 2015 (Investigation No. 1259322), and July 7, 2015 (Investigation No. 1261849). No odor nuisance violations were noted as a result.

**GENERAL FACILITY AND PROCESS INFORMATION**

BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste Permit No. 1505A. The facility is identified in the TCEQ Central Registry by the Regulated Entity No. RN102610102 and Customer No. CN602820599 (Attachment 2). The landfill received its permit in March 1985 and began operating on January 31, 1986. In January 2006, the landfill submitted a major permit amendment to: (i) increase the permit boundary from 598.6 acres to 1,344.88 acres; (ii) increase the fill area from 301.89 acres to 784.24 acres; (iii) and increase the maximum height from the current 58 feet to 170 feet. The permit amendment authorization was approved on July 2, 2010.

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 certain special wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. The special waste currently accepted includes: dead animals, sludge and Class 2 industrial waste.

The current waste acceptance hours are Monday through Friday from 4:00 AM to 5:00 PM and Saturday from 5:30 AM to 12:00 PM. The surrounding land use includes light industry, agricultural production, and several residential subdivisions.

**Complainant Information:**

See confidential file (Incident No. 219502). The meteorological conditions during the time of the alleged complaint are included in Attachment 3.

**Description of Alleged Effects:**

The complaint alleged that the odor made the complainant's eyes water.

**INVESTIGATION**

The investigators surveyed the first survey point at the 2700 block of Autumn Falls Drive, Pearland, Texas 77584 at 12:13 PM. No odors were detected during the 15 minutes spent at OS 1.

The investigators surveyed the second survey point at the 5900 block of Santa Christi Drive, Houston, Texas 77053 at 12:39 PM. No odors were detected during the 15 minutes spent at OS 2.



The investigators surveyed the third survey point at the 2500 block of Nail Road, Fresno, Texas 77545 at 1:05 PM. No odors were detected during the 15 minutes spent at OS 3. The OS logs are found in Attachment 4.

The wind direction during the time of the three odor surveys varied between south-southeast (SSE), west-southwest (WSW) and west (W), making OS one (1) and OS two (2) downwind of BRL at different times. OS three (3) was crosswind and downwind of BRL at the time of the investigation.

The investigators arrived at BRL at approximately 1:30 PM and met with Mr. Matt Montagna, Operations Manager for BRL. The purpose and scope of the investigation were explained to Mr. Montagna. Mr. Montagna then drove the investigators to the municipal solid waste (MSW) cell working face which manages putrescible household waste, special waste, Class 2, and Class 3 industrial waste; the Class 1 working face; and the solidification basin. Fly ash and wood chips were observed to be available for use as a solidifying agent in the solidification basin. No issues were noted regarding the solidification basin, MSW cell, or Class 1 cell. The investigators also observed that a landfill deodorizer system was in use at the time of the investigation.

BRL uses six inches of soil for daily cover Monday through Friday on the Class 1 non-hazardous cell and six inches of soil for daily cover Monday through Saturday on the MSW working face. Mr. Montagna then provided the investigators with the cover logs for the MSW cell and the Class 1 non-hazardous waste cell for the month of August 2015 (Attachment 5). The daily cover logs were reviewed and appeared to be adequate.

Meteorological data at the time of the investigation

Cloud cover: Scattered Clouds  
Wind direction: SSE, WSW, W  
Wind speed: 3.5 – 10.4 miles per hour  
Temperature: 80 – 87 degrees Fahrenheit  
Precipitation: 0.00 - 0.01 inch

The information above was received from the Weather Underground (Attachment 6).

Description of odor:  
No odors were detected during the investigation.

Description of the effects on the Investigator:  
No health effects were experienced by investigators

Description of the terrain features of the area:  
Terrain is flat with houses and streets.

Location of the source of the odor:  
The alleged source of the odor is BRL.

#### ODOR FIDO CHART EVALUATION:

The intensity and offensiveness of any odors observed during the investigation using the terms identified for those factors on the Frequency Intensity Duration Offensiveness (FIDO) chart were noted as follows:

Per the FIDO odor characterization examples, landfill garbage/waste odor is characterized as "offensive". The frequency category has been determined to be a "single occurrence".

Physical effects experienced by the investigator which are indicative of adverse effects upon health:

The investigators 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.

CONCLUSION

The complaint is unconfirmed for nuisance odors.

**No Violations Associated to this Investigation**

Signed <sup>for</sup> Ursula Dugman  
Environmental Investigator

Date 11/30/2015

Signed Alma L. Jefferson  
Supervisor

Date 11/30/2015

**Attachments: (in order of final report submittal)**

- ☐ Enforcement Action Request (EAR)
- ☒ Letter to Facility (specify type) : No Action
- ☐ 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 FM 521 Road, Fresno (Fort Bend County), Texas 77545  
Municipal Solid Waste Permit No. 1505A  
MSW Odor Complaint Investigation  
Conducted on September 10, 2015**

**LIST OF ATTACHMENTS**

- Attachment 1.** BRL Aerial View Map with OS locations
- Attachment 2.** BRL Central Registry information
- Attachment 3.** Meteorological Conditions on August 20 - 25, 2015
- Attachment 4.** Odor Survey Logs
- Attachment 5.** BRL Cover Logs for August 2015
- Attachment 6.** Meteorological Conditions on September 10, 2015

# ATTACHMENT 1

<b>RN: 102610102</b>	<b>Blue Ridge Landfill Odor Complaint</b>	<b>County: Fort Bend</b>
	<b>Address: 2200 FM 521 Road, Fresno, TX 77545</b>	<b>Investigator: Ursula Guzman</b>
<b>MSW Permit #: 1505A</b>	<b>Comments: Aerial Map of Odor Survey Locations (OS #1, 2, and 3)</b>	<b>Date: 09/10/2015</b>



## **ATTACHMENT 2**

[Questions or Comments >>](#)[Query Home](#) [Customer Search](#) [RE Search](#) [ID Search](#) [Document Search](#) [Search Results](#) [TCEQ 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)

#### 1-5 of 5 Records

CN Number	Customer Name	Customer Role	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	PENDING
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	89429	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	CANCELLED
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

## **ATTACHMENT 3**



**Weather History for Houston / Southwest Airport, TX**

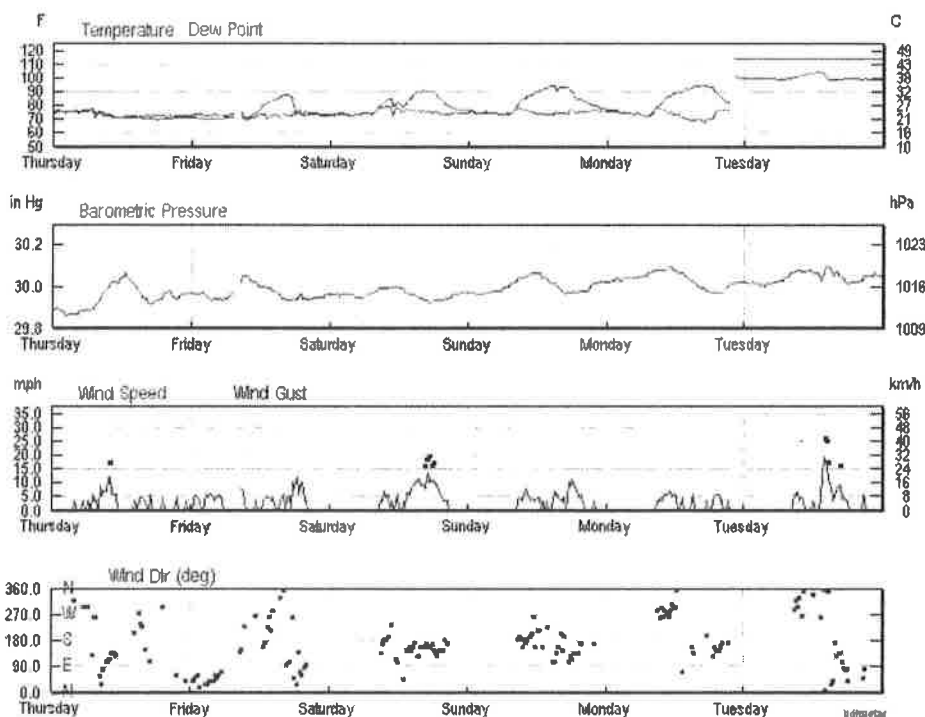
August 20, 2015 through August 25, 2015

August 20, 2015 through August 25, 2015

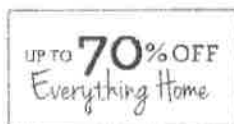
August 20 2015 - TO - August 25 2015 Go

Daily Weekly Monthly Custom

	Max	Avg	Min	Sum
Temperature				
Max Temperature	115 °F	97 °F	78 °F	
Mean Temperature	115 °F	88 °F	75 °F	
Min Temperature	115 °F	80 °F	71 °F	
Degree Days				
Heating Degree Days (base 65)	0	0	0	0
Cooling Degree Days (base 65)	50	24	10	141
Growing Degree Days (base 50)	65	38	25	230
Dew Point				
Dew Point	80 °F	74 °F	68 °F	
Precipitation				
Precipitation	1.77 in	0.47 in	0.00 in	2.82 in
Snowdepth				
Snowdepth				
Wind				
Wind	20 mph	2 mph	0 mph	
Gust Wind	28 mph	19 mph	16 mph	
Sea Level Pressure				
Sea Level Pressure	30.09 in	29.99 in	29.86 in	



Certify This Report



## Weather History &amp; Observations

2015	Temp. (°F)			Dew Point (°F)			Humidity (%)			Sea Level Press. (in)			Visibility (mi)			Wind (mph)			Precip. (in)	Events
Aug	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	low	high	avg	high	sum	
20	78	75	72	77	73	70	99	96	90	30.06	29.94	29.86	10	8	2	13	1	18	0.56	Rain , Thunderstorm
21	89	80	71	76	73	70	99	87	59	30.05	29.96	29.93	10	9	1	13	3	18	1.77	Rain , Thunderstorm
22	91	82	73	80	76	73	99	86	61	30.00	29.96	29.92	10	9	2	14	2	20	0.25	Rain , Thunderstorm
23	95	84	74	78	76	74	100	80	50	30.06	30.00	29.96	10	8	0	12	1	17	0.00	Fog , Thunderstorm
24	115	94	73	79	74	68	99	75	41	30.09	30.03	29.97	10	8	0	7	1		0.00	Fog
25	115	115	115	-	-	-	73	65	62	30.09	30.04	30.00	10	9	2	20	2	28	0.24	Rain , Thunderstorm

Comma Delimited File

[Show full METARS](#)
[METAR FAQ](#)
[Comma Delimited File](#)

# ATTACHMENT 4

## Investigator FIDO Log

1. Characterize the odor to determine which Offensiveness table to use (Not Unpleasant to Highly Offensive)
2. Assess the Intensity of odor (Very Light to Very Strong), for variable intensities use Supplemental Investigator's Odor Intensity Time Log.
3. Determine the total Duration of the odor(s) (1 minute to 24 hours)
4. Evaluate the Frequency of odor occurrence (Single Occurrence to Daily)
5. Identify the block on the chart that corresponds to the information from Steps 1-4 and determine if a nuisance condition exists.

[illegible]

OS # 1

## Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: Sept 10, 2015 Start Time: 12:13

Minutes	Odor Intensity VL, L, M, S, VS
1 min	NO ODOR (N)
2	N
3	N
4	N
5	N
6	N
7	N
8	N
9	N
10	N
11	N
12	N
13	N
14	N
15	N
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
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57	
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59	
60	

Offensiveness: Highly \_\_\_\_\_ Offensive X Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

Weighted Average Intensity:

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

OS #2

# Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: Sept 10, 2015 Start Time: 12:39

Minutes	Odor Intensity VL, L, M, S, VS
1 min	2
2	2
3	2
4	2
5	2
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
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56	
57	
58	
59	
60	

Offensiveness: Highly \_\_\_\_\_ Offensive X Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

Weighted Average Intensity:

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

BS # 3

## Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 9-10-15 Start Time: 1:05

Minutes	Odor Intensity VL, L, M, S, VS
1 min	N
2	N
3	N
4	N
5	N
6	N
7	N
8	N
9	N
10	N
11	N
12	N
13	N
14	N
15	N
16	
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25	
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28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
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42	
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Offensiveness: Highly \_\_\_\_\_ Offensive ☒ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

Weighted Average Intensity:

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

# **ATTACHMENT 5**





Blue Ridge Landfill, MSW-1505A

# COVER APPLICATION LOG

Page 1 of 2

MSW

Month / Year: Aug 2015

Supervisor Signature: [Signature]

Daily Cover				Approved Alternate Daily Cover				Elevation	Inspection Date of Daily Cover <sup>1</sup>	Erosion or Leachate Seep Detected <sup>2</sup>	Corrective Action <sup>3</sup>	Soil Stockpile Required <sup>4</sup> (yd <sup>3</sup> )	Rain (Inches) $\geq 0.5"$	Rain (Inches)	Intermediate Cover: 12" Soil				Final Cover Per Final Closure Plan				Inspection Date of Intermediate & Final Cover <sup>5</sup>	Erosion $\geq 4"$ Detected	Date Erosion Corrected <sup>6</sup>	Corrective Action <sup>7</sup>	Final Cover Certification Report Reference	Month / Year	Supervisor Signature <sup>8</sup>	
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>								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>								
1	6	6"	B	6	6"	6"	B	90-115	✓																					
2																														
3	6	6"	B	6	6"	6"	B	85-90	✓																					
4	6	6"	B	6	6"	6"	B	90-95	✓																					
5	6	6"	B	6	6"	6"	B	95-100	✓																					
6	6	6"	B	6	6"	6"	B	100-105	✓																					
7	6	6"	B	6	6"	6"	B	105-110	✓																					
8	6	6"	B	6	6"	6"	B	105-115	✓																					
9																														
10	6	6"	B	6	6"	6"	B	85-90	✓																					
11	6	6"	B	6	6"	6"	B	90-95	✓																					
12	6	6"	B	6	6"	6"	B	95-100	✓																					
13	6	6"	B	6	6"	6"	B	100-105	✓																					
14	6	6"	B	6	6"	6"	B	105-110	✓																					
15	6	6"	B	6	6"	6"	B	110-115	✓																					
16																														
17	6	6"	B	6	6"	6"	B	75-100	✓																					
18	6	6"	B	6	6"	6"	B	100-105	✓																					
19	6	6"	B	6	6"	6"	B	105-110	✓																					
20	6	6"	B	6	6"	6"	B	110-115	✓																					
21	6	6"	B	6	6"	6"	B	85-90	✓																					
22	6	6"	B	6	6"	6"	B	90-95	✓																					
23																														
24	6	6"	B	6	6"	6"	B	95-100	✓																					
25	6	6"	B	6	6"	6"	B	90-95	✓																					
26	6	6"	B	6	6"	6"	B	90-95	✓																					
27	6	6"	B	6	6"	6"	B	95-100	✓																					
28	6	6"	B	6	6"	6"	B	100-105	✓																					
29	6	6"	B	6	6"	6"	B	105-110	✓																					
30	6	6"	B	6	6"	6"	B	90-95	✓																					

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

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 7.7.4 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 yd<sup>3</sup> 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.

CLASS 1

Month / Year: Aug 2015



COVER APPLICATION LOG CLASS I NON HAZARDOUS

Line	Daily Cover		Approved Alternate Daily Cover		Elevation	Inspection Date of Daily Cover <sup>a</sup>	Erosion or Leachate Seep Detected	Corrective Action <sup>a</sup>	Soil Stockpile Required? (yd <sup>3</sup> )	Rain (inches)	Rain (inches) ≥ 0.5"	Intermediate Cover			Final Cover Per Final Closure Plan			Inspection Date of Intermediate & Final Cover <sup>c</sup>	Erosion ≥ 4" Detected	Date Erosion Corrected <sup>d</sup>	Corrective Action <sup>d</sup>	Final Cover Certification Report Reference	Month / Year	Signature
	AMT <sup>1</sup>	Grid Area	T <sup>2</sup>	Method <sup>2</sup>								Grid Area	AMT <sup>3</sup>	T <sup>3</sup>	Method <sup>3</sup>	Grid Area	AMT <sup>4</sup>							
1																								
2																								
3	144	R-22	6"	B	44.50	✓																		
4	180	S-23	6"	B	44.50	✓																		
5	144	S-24	6"	B	44.50	✓																		
6	90	S-24	6"	B	44.50	✓																		
7	504	S-25	6"	B	44.50	✓																		
8																								
9																								
10	160	S-25	6"	B	44.50	✓																		
11	144	S-25	6"	B	44.50	✓																		
12	180	S-25	6"	B	44.50	✓																		
13	504	S-25	6"	B	44.50	✓																		
14	504	S-26	6"	B	44.50	✓																		
15																								
16																								
17	504	S-26	6"	B	44.50	✓																		
18	504	S-26	6"	B	44.50	✓																		
19	504	S-26	6"	B	44.50	✓																		
20	504	S-26	6"	B	44.50	✓																		
21	504	S-26	6"	B	44.50	✓																		
22																								
23																								
24	504	S-26	6"	B	44.50	✓																		
25	504	S-26	6"	B	44.50	✓																		
26	504	S-26	6"	B	44.50	✓																		
27	504	S-26	6"	B	44.50	✓																		
28	504	S-26	6"	B	44.50	✓																		
29																								
30																								
31	504	S-26	6"	B	44.50	✓																		

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

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

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

# **ATTACHMENT 6**



### Hourly Weather History & Observations

Time (COT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
12:15 AM	74.8 °F		73.0 °F	94%	29.94 in	10.0 mi	Calm	Calm		N/A		Clear
12:35 AM	73.4 °F		72.5 °F	97%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
12:55 AM	73.4 °F		72.5 °F	97%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
1:15 AM	73.6 °F		72.7 °F	97%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
1:35 AM	74.5 °F		73.0 °F	95%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
1:55 AM	75.2 °F		72.9 °F	92%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
2:15 AM	75.2 °F		73.6 °F	95%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
2:35 AM	75.2 °F		73.4 °F	94%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
2:55 AM	74.8 °F		73.4 °F	95%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
3:15 AM	74.3 °F		73.2 °F	96%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
3:35 AM	74.1 °F		73.4 °F	98%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
3:55 AM	74.5 °F		73.4 °F	96%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
4:15 AM	75.4 °F		73.8 °F	95%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
4:35 AM	75.2 °F		73.6 °F	95%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
4:55 AM	74.6 °F		73.6 °F	97%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
5:15 AM	74.7 °F		73.8 °F	97%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
5:35 AM	75.4 °F		73.9 °F	95%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
5:55 AM	75.4 °F		73.9 °F	95%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
6:15 AM	75.0 °F		73.6 °F	95%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
6:35 AM	74.5 °F		73.4 °F	98%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
6:55 AM	74.8 °F		73.6 °F	98%	29.93 in	10.0 mi	Calm	Calm		N/A	Thunderstorm	Clear
7:15 AM	74.3 °F		73.4 °F	97%	29.93 in	7.0 mi	Calm	Calm		N/A	Thunderstorm	Clear
7:35 AM	74.3 °F		73.8 °F	98%	29.94 in	5.0 mi	Calm	Calm		N/A		Scattered Clouds
7:55 AM	76.1 °F		75.2 °F	97%	29.94 in	7.0 mi	Calm	Calm		N/A	Thunderstorm	Scattered Clouds
8:15 AM	77.9 °F		75.7 °F	93%	29.95 in	7.0 mi	Calm	Calm		N/A		Scattered Clouds
8:35 AM	78.8 °F		76.1 °F	91%	29.96 in	10.0 mi	ESE	8.1 mph		N/A	Thunderstorm	Overcast
8:55 AM	75.6 °F		72.7 °F	91%	29.96 in	1.0 mi	ESE	8.1 mph		0.28 in	Rain	Heavy Rain
9:15 AM	75.4 °F		73.8 °F	95%	29.97 in	7.0 mi	North	8.1 mph		0.02 in	Rain , Thunderstorm	Rain
9:35 AM	74.5 °F		72.9 °F	95%	29.96 in	4.0 mi	North	4.6 mph		0.05 in	Rain	Rain
9:55 AM	75.6 °F		74.3 °F	96%	29.95 in	7.0 mi	Calm	Calm		0.05 in		Overcast
10:15 AM	80.1 °F	85.2 °F	75.6 °F	86%	29.95 in	10.0 mi	Calm	Calm		N/A		Scattered Clouds
10:35 AM	81.7 °F	88.3 °F	75.2 °F	81%	29.95 in	10.0 mi	Calm	Calm		N/A		Clear
10:55 AM	82.6 °F	89.9 °F	75.4 °F	79%	29.96 in	10.0 mi	South	3.5 mph		N/A		Clear
11:15 AM	83.7 °F	92.4 °F	76.3 °F	78%	29.96 in	10.0 mi	South	4.6 mph		N/A	Thunderstorm	Scattered Clouds
11:35 AM	84.4 °F	93.9 °F	76.3 °F	77%	29.95 in	10.0 mi	South	4.8 mph		N/A		Scattered Clouds
11:55 AM	84.9 °F	94.1 °F	75.9 °F	74%	29.95 in	10.0 mi	South	4.6 mph		N/A		Scattered Clouds
12:15 PM	87.1 °F	96.3 °F	76.8 °F	71%	29.94 in	10.0 mi	SSE	6.9 mph		N/A	Thunderstorm	Scattered Clouds
12:35 PM	85.3 °F	93.7 °F	74.8 °F	71%	29.95 in	10.0 mi	WSW	3.5 mph		N/A	Thunderstorm	Scattered Clouds
12:55 PM	80.1 °F	84.4 °F	73.2 °F	80%	29.95 in	10.0 mi	West	10.4 mph		N/A	Rain	Light Rain
1:15 PM	78.4 °F		73.2 °F	84%	29.95 in	10.0 mi	WSW	6.9 mph		N/A		Light Drizzle
1:35 PM	77.9 °F		73.9 °F	88%	29.95 in	10.0 mi	Calm	Calm		N/A	Rain , Thunderstorm	Light Thunderstorms and Rain
1:55 PM	77.0 °F		74.3 °F	91%	29.93 in	10.0 mi	Calm	Calm		0.01 in		Drizzle
2:15 PM	77.4 °F		73.8 °F	89%	29.93 in	10.0 mi	Calm	Calm		N/A	Thunderstorm	Scattered Clouds
2:35 PM	79.5 °F		73.0 °F	80%	29.93 in	10.0 mi	South	4.6 mph		N/A		Scattered Clouds
2:55 PM	81.0 °F	85.7 °F	75.0 °F	82%	29.93 in	10.0 mi	Calm	Calm		N/A		Mostly Cloudy
3:15 PM	81.3 °F	87.6 °F	75.4 °F	82%	29.93 in	10.0 mi	Calm	Calm		N/A	Thunderstorm	Mostly Cloudy
3:35 PM	78.3 °F		74.8 °F	89%	29.93 in	3.0 mi	SSW	5.8 mph		0.05 in	Rain	Heavy Rain
3:55 PM	75.2 °F		74.1 °F	96%	29.93 in	0.8 mi	ESE	11.5 mph	16.1 mph	0.77 in	Rain , Thunderstorm	Heavy Thunderstorms and Rain
4:15 PM	74.5 °F		73.6 °F	97%	29.92 in	2.5 mi	ESE	6.9 mph		0.12 in	Rain	Heavy Rain
4:35 PM	75.2 °F		74.3 °F	97%	29.92 in	3.0 mi	ESE	6.9 mph		0.22 in	Rain	Heavy Rain

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## Weather History for Houston / Southwest Airport, TX

Thursday, September 10, 2015

Thursday, September 10, 2015

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September 10 2015 View

Next Day »

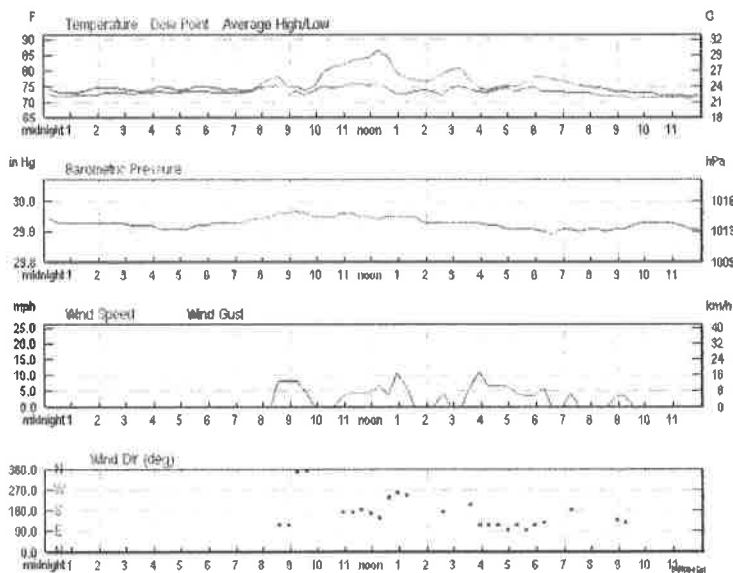
Daily Weekly Monthly Custom

	Actual	Average (KHOU)	Record (KHOU)
<b>Temperature</b>			
Mean Temperature	80 °F	81 °F	
Max Temperature	87 °F	81 °F	88 °F (1993)
Min Temperature	72 °F	72 °F	59 °F (1988)
<b>Degree Days</b>			
Heating Degree Days	0	0	
Month to date heating degree days		0	
Since 1 July heating degree days		0	
Cooling Degree Days	14	16	
Month to date cooling degree days		173	
Year to date cooling degree days		2555	
Growing Degree Days	30 (Base 50)		
<b>Moisture</b>			
Dew Point	74 °F		
Average Humidity	91		
Maximum Humidity	98		
Minimum Humidity	71		
<b>Precipitation</b>			
Precipitation	1.39 in	0.16 in	1.82 in (1998)
Month to date precipitation		1.46	
Year to date precipitation		33.33	
<b>Sea Level Pressure</b>			
Sea Level Pressure	29.93 in		
<b>Wind</b>			
Wind Speed	1 mph (SSE)		
Max Wind Speed	12 mph		
Max Gust Speed	16 mph		
Visibility	9 miles		
Events	Rain , Thunderstorm		

Click here for data from the nearest station with official NWS data (KHOU).

T = Trace of Precipitation, MM = Missing Value

Source: NWS Daily Summary



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Time (CDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Conditions
4:55 PM	76.1 °F		75.0 °F	96%	29.91 in	5.0 mi	East	6.9 mph		0.26 in	Rain	Light Rain
5:15 PM	75.7 °F		74.1 °F	95%	29.91 in	5.0 mi	ESE	4.6 mph		0.02 in	Rain	Light Rain
5:35 PM	76.6 °F		74.7 °F	94%	29.91 in	10.0 mi	East	3.5 mph		0.02 in		Light Drizzle
5:55 PM	78.6 °F		75.6 °F	90%	29.91 in	10.0 mi	ESE	3.5 mph		0.02 in		Mostly Cloudy
6:15 PM	78.9 °F		74.1 °F	85%	29.90 in	10.0 mi	SE	5.8 mph		N/A		Mostly Cloudy
6:35 PM	77.9 °F		74.1 °F	88%	29.89 in	10.0 mi	Calm	Calm		N/A		Scattered Clouds
6:55 PM	77.4 °F		73.8 °F	89%	29.91 in	10.0 mi	Calm	Calm		N/A		Scattered Clouds
7:15 PM	76.8 °F		73.4 °F	89%	29.91 in	10.0 mi	South	4.8 mph		N/A		Mostly Cloudy
7:35 PM	76.1 °F		73.4 °F	91%	29.90 in	10.0 mi	Calm	Calm		N/A		Scattered Clouds
7:55 PM	75.6 °F		73.4 °F	93%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
8:15 PM	75.2 °F		72.7 °F	92%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
8:35 PM	74.7 °F		72.5 °F	93%	29.90 in	10.0 mi	Calm	Calm		N/A		Clear
8:55 PM	74.1 °F		72.3 °F	94%	29.91 in	10.0 mi	SE	3.5 mph		N/A		Clear
9:15 PM	73.9 °F		72.5 °F	95%	29.91 in	10.0 mi	SE	3.5 mph		N/A		Clear
9:35 PM	73.4 °F		71.8 °F	95%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
9:55 PM	73.4 °F		72.0 °F	95%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
10:15 PM	73.4 °F		72.0 °F	95%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
10:35 PM	73.0 °F		72.0 °F	96%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
10:55 PM	73.0 °F		72.0 °F	96%	29.93 in	10.0 mi	Calm	Calm		N/A		Clear
11:15 PM	73.0 °F		72.1 °F	97%	29.92 in	10.0 mi	Calm	Calm		N/A		Clear
11:35 PM	72.3 °F		71.8 °F	98%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear
11:55 PM	72.7 °F		72.0 °F	98%	29.91 in	10.0 mi	Calm	Calm		N/A		Clear

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