

File Copy

1505A

Investigation # 1286698

MSW PA_1505A_CO_20151002_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

INFORMATION COPY
FOR FILE ROOM

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 # 1286698

Incident Numbers

221173	221161
221334	221157
221321	

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 10/02/2015 -- 11/02/2015

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): MSWC MPL - Investigation of MSW complaint

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

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

Other Staff Member(s):

Role	Name
Investigator	SETH TATE
Supervisor	ALMA JEFFERSON
Investigator	JOHN BREGGER
Investigator	ROLAND THOMAS
Investigator	CARLOS GRIGGS
QA Reviewer	CASIMIR ONWUKA

Associated Check List

Checklist Name

MSW COMPLAINT INVESTIGATION

Unit Name

complaint

Investigation Comments:

INTRODUCTION

On October 1, 2, and 7, 2015, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office received complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on September 28, 29, and 30, 2015 and October 1, and 2, 2015.

On October 2, 2015, Mr. Richard Blackney, Mr. John Bregger, Mr. Carlos Griggs, and Mr. Seth Tate, Environmental Investigators for the TCEQ Houston Region Office, conducted an odor survey in the area surrounding BRL. On October 7, 2015, Mr. Blackney and Mr. Roland Thomas, Environmental Investigators for the TCEQ Houston Region Office, conducted an on-site investigation of BRL. The complaints were unconfirmed for nuisance odors at the time of the investigation.

BACKGROUND

The most recent Odor Complaint Investigation (No. 1282994) at BRL was conducted on September 10, 2015. No violations were alleged as a result of the investigation.

GENERAL FACILITY AND PROCESS INFORMATION

BRL 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 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 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. 221157, 221161, 221173, 221321, and 221334). Meteorological conditions during the time the odors were alleged are included in Attachment 2.

Description of Alleged Effects:

No adverse health effects were alleged by the complainants.

Meteorological data at the time of the odor survey

Wind direction: varying between NNW and NNE

Wind Speed: 8.1 to 9.5 mph

Temperature: 72.2 to 77.0°F

Meteorological data taken from TCEQ's continuous air monitoring stations.

Summary of on-site investigation:

An odor survey in the area surrounding BRL was conducted on October 2, 2015. The investigators arrived at the first survey point located at the 2600 block of Sweet Wind. Odor Survey (OS) 1 took place crosswind of BRL and was conducted at 9:28 a.m., lasting 15 minutes. No odors were detected at OS No. 1.

The investigators went to OS No. 2 located at the 3000 block of Sunrise Run Lane. OS No. 2 took place crosswind of BRL and was conducted at 9:53 a.m., lasting 15 minutes. No odors were detected at OS No. 2.

BLUE RIDGE LANDFILL - FRESNO

10/2/2015 to 11/2/2015 Inv. # - 1286698

Page 3 of 4

The investigators then went to OS No. 3 located at the 2500 block of Naill Road. OS No. 3 took place downwind of BRL and was conducted at 10:22 a.m. and lasted approximately 25 minutes. A very light odor reminiscent of spray paint was detected for approximately six minutes at OS No. 3.

The investigators then went to OS No. 4 located at the intersection of Porter Ridge and Rapidcreek. OS No. 4 took place upwind of BRL and was conducted at 11:00 a.m. and lasted approximately 15 minutes. No landfill odors were detected.

OS No. 5 took place upwind of BRL at the intersection of 2234 and 521 beginning at 12:17 p.m. No landfill odors were detected during the 15 minutes spent at OS No. 5.

Aerial view maps of the OS locations and the OS logs are included in Attachment 3.

On October 7, 2015, the investigators arrived at BRL at approximately 9:30 a.m., and met with Mr. Burgess Stengl, Environmental Manager with Republic Services and Mr. Matt Montagna, Landfill Operations Manager. Mr. Montagna drove the investigators to the solidification basin, where ground wood was seen being mixed with liquid waste prior to disposal at the working face. A system of misters for the purpose of neutralizing odors was observed to be in operation. Mr. Montagna drove the investigators to the MSW working face, by which piles of soil were observed. Heavy equipment was observed nearby hauling additional soil. No issues were noted at the MSW working face or the Class 1 working face.

According to Mr. Montagna, BRL receives Class 1 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 at the end of each operating day. BRL is authorized, by permit, to use tarps as alternate daily cover on the MSW working face. Historically, BRL has used six inches of soil on the MSW working face on Tuesdays, Thursdays and Saturdays, and a combination of soil and tarps for cover on Mondays, Wednesdays, and Fridays. However, according to Mr. Montagna, recently they have been using soil exclusively at the end of each operating day. The investigators obtained copies of the cover logs for September and October of 2015 (Attachment 4). No issues were noted.

Description of Odor:

Odors typical of landfill garbage were not detected during the odor survey.

Description of the Effects on the Investigators:

No health effects were experienced by the investigators.

Description of the Terrain Features of the Area:

Terrain is flat with businesses, houses and other buildings.

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." A frequency of odors was not determined as odors characteristic of landfills were not documented by the investigators during the odor survey.

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

No violations of solid waste management requirements were noted as a result of this investigation.

No Violations Associated to this Investigation

Signed Richard Black
Environmental Investigator

Date 12/23/2015

Signed Alma L. Jefferson
Supervisor

Date 12/23/2015

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

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

December 28, 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.: 1286698
Incident Nos.: 221157, 221161, 221173, 221321, 221334

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on October 1, 2015, October 2, 2015, and October 7, 2015 requests for assistance regarding the offensive odor at the above-referenced facility. In response to this request, Mr. Richard Blackney of this office conducted an investigation on October 2, 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.

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 Mr. Blackney at this office at (713) 767-3718.

Sincerely,

A handwritten signature in cursive script that reads "Alma L. Jefferson".

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

ALJ/RLB/rsv

TCEQ Complaint Report

12/23/2015
8:29:30AM

COPY

Incident No: 221157
Media Type: WASTE
Start Date: 9/30/2015
Received Date: 10/01/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
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:
Address:

Title:

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

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL

Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

Complainant alleged smelling a significant odor.

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: 1286698

TCEQ Complaint Report

12/23/2015
8:31:15AM

COPY

Incident No: 221161

Media Type: WASTE

Start Date: 9/29/2015

Received Date: 10/01/2015

Method : EMAIL

Staff Member: RBLACKNE

Status: Closed

Status Date: 12/23/2015

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:

Address:

Title:

Number Complaining: 1

Frequency: CURRENT

Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL

Nature: ODOR

Effect: ENVIRONMENTAL

Initial Problem

Complainant alleged smelling bad strong odor.

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: 1286698

TCEQ Complaint Report

COPY

12/23/2015
8:32:17AM

Incident No: 221321
Media Type: WASTE
Start Date: 9/28/2015
Received Date: 10/07/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
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:
Address:

Title:

Number Complaining: 1
Frequency: INTERMITTENT
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL
Nature: ODOR
Effect: GENERAL

Initial Problem

Complainant stated continues to note very strong foul odors.

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: 1286698

TCEQ Complaint Report

COPY

12/23/2015
8:31:47AM

Incident No: 221173
Media Type: WASTE
Start Date: Unknown
Received Date: 10/02/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
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:
Address:

Title:

Number Complaining: 1
Frequency: PAST
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL
Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

Complainant alleges an awful smell is coming from the facility.

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: 1286698

Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on October 2, 2015 through October 7, 2015

List of Attachments

- | | |
|---------------------|---|
| Attachment 1 | TCEQ Central Registry information for Blue Ridge Landfill |
| Attachment 2 | Meteorological conditions for September 28, 29, 30, 2015 and October 1, 2, 2015 |
| Attachment 3 | Map of Odor Survey locations and Odor Logs |
| Attachment 4 | September and October of 2015 cover logs |

ATTACHMENT 1

[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

ATTACHMENT 2



[Home](#)
[Publ](#)
[Busin](#)
[Govern](#)
[Air](#)
[Lar](#)
[Water](#)

[Air Quality Maps](#)
[Data Reports](#)
[AutoQC](#)
[Water Data](#)
[Site Info](#)

All TCEQ applications, including LEADS, will be unavailable Saturday, October 3 and Sunday, October 4 for a scheduled power outage by the Texas Facilities Commission. All TCEQ applications should be back online by Monday, October 5, 2015. Please check back for further updates.

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 and to control cell highlighting based on measured nitrogen dioxide levels. 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 Manvel Croix Park C84 [Select a different site](#)

Month: **Day:** **Year:** **Time Format:**
 September 28 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights:
 Moderate
 Unhealthy for Sensitives
 Unhealthy
 Very Unhealthy
 Hazardous
 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 **Monday, September 28, 2015**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												Par Me
	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	
Nitric Oxide	-0.2	0.2	0.9	0.1	0.2	0.2	0.7	2.7	3.1	2.9	1.5	2.0	0.9	0.6	0.8	0.2	0.4	0.4	0.4	0.2	0.5	0.8	0.8	0.2	Nitri
Nitrogen Dioxide	0.3	0.4	-1.1	-0.2	1.0	1.3	5.7	9.2	8.6	8.8	5.1	5.2	1.3	-0.3	1.1	0.9	2.8	3.7	5.4	5.4	4.7	5.3	5.3	3.1	Nitro
Oxides of Nitrogen	0.1	0.6	-0.1	-0.1	1.2	1.5	6.4	12.0	11.8	11.8	6.7	7.3	2.2	0.4	1.9	1.1	3.3	4.1	5.9	5.7	5.2	6.1	6.1	3.3	Oxid Nitro
Ozone	25	26	27	27	23	18	14	10	15	21	24	26	36	40	32	34	32	28	20	16	14	13	10	9	Ozor
Wind Speed	6.0	7.4	6.0	5.5	4.0	3.6	4.8	5.2	6.5	7.7	7.3	7.5	9.3	9.8	9.8	8.8	9.1	7.7	6.7	5.2	5.0	4.2	5.6	5.0	Wind
Resultant Wind Speed	5.6	7.1	5.5	5.1	3.8	3.4	4.5	4.9	6.1	7.3	6.6	7.0	8.6	9.0	9.1	8.2	8.4	7.2	6.3	4.9	4.7	3.9	5.4	4.7	Resul Wind
Resultant Wind Direction	5	343	358	17	316	327	324	340	349	338	352	358	0	358	354	10	5	1	355	337	333	319	335	346	Resul Wind Dire
Maximum Wind Gust	12.4	13.8	10.6	12.6	8.0	6.7	8.6	9.3	12.2	14.9	15.0	14.4	16.8	18.6	18.4	15.8	17.9	15.8	12.1	10.4	10.8	8.3	10.6	9.2	Maxi Wind
Std. Dev. Wind Direction	19	17	23	22	19	20	18	21	19	19	24	22	22	22	21	21	23	21	21	17	18	20	16	18	Std. Wind Dire
Outdoor Temperature	71.0	70.3	70.2	69.5	69.5	69.9	70.2	71.2	72.6	74.0	74.4	75.2	76.9	77.9	77.2	77.2	76.9	74.8	74.1	73.1	72.4	72.0	72.4	72.6	Outd Tem
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	7:00	8:00	9:00	10:00	11:00	Par Me
	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.																								

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



[Home](#)
[Publ](#)
[Busin](#)
[Govern](#)
[Air](#)
[Lar](#)
[Water](#)

[Air Quality Maps](#)
[Data Reports](#)
[AutoQC](#)
[Water Data](#)
[Site Info](#)

All TCEQ applications, including LEADS, will be unavailable Saturday, October 3 and Sunday, October 4 for a scheduled power outage by the Texas Facilities Commission. All TCEQ applications should be back online by Monday, October 5, 2015. Please check back for further updates.

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 and to control cell highlighting based on measured nitrogen dioxide levels. 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 Manvel Croix Park C84 [Select a different site](#)

Month: Day: Year: Time Format:

September 29 2015 12 Hour (AM/PM) Generate Report Plot Data

Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitives Unhealthy Very Unhealthy Hazardous
 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 **Tuesday, September 29, 2015**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												Par Me	
	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		
Nitric Oxide	0.3	0.5	0.4	-0.1	0.3	1.7	3.5	6.6	5.2	2.9	1.6	0.5	0.8	0.1	0.1	0.7	0.0	0.3	0.5	0.9	4.3	1.0	0.7	1.3	Nitri	
Nitrogen Dioxide	2.0	1.5	2.4	1.8	2.0	8.7	10.2	10.4	9.0	5.4	1.8	0.5	-0.1	-1.0	-1.2	-0.6	-1.1	0.9	3.5	4.4	4.6	1.8	3.0	4.9	Nitro Diox	
Oxides of Nitrogen	2.4	2.0	2.8	1.8	2.4	10.5	13.9	17.2	14.4	8.3	3.4	1.1	0.8	-0.9	-1.1	0.2	-1.1	1.3	4.1	5.4	9.0	2.9	3.8	6.2	Oxid Nitro	
Ozone	11	11	12	13	12	5	3	7	12	22	32	38	37	40	37	35	27	20	10	7	1	2	2	2	Ozor	
Wind Speed	7.0	5.7	4.7	5.3	5.4	3.9	5.4	6.1	6.9	8.3	9.7	9.0	10.4	10.3	9.6	9.8	3.9	2.2	1.1	0.9	1.0	1.7	2.1	2.5	Wind	
Resultant Wind Speed	6.5	5.4	4.4	5.2	5.1	3.6	5.2	5.8	6.5	7.8	8.9	8.4	9.6	9.5	8.9	8.3	0.9	1.6	0.8	0.1	0.5	1.5	2.1	2.4	Resul Wind	
Resultant Wind Direction	9	358	352	333	347	16	341	351	354	358	11	22	14	25	32	56	319	173	308	48	275	304	313	301	Resul Wind Direc	
Maximum Wind Gust	14.1	10.3	9.4	10.7	9.9	8.5	11.4	12.2	12.5	15.6	17.3	17.1	19.4	20.3	21.3	25.5	11.8	4.1	3.8	1.9	2.4	3.4	3.4	4.3	Maxi Wind	
Std. Dev. Wind Direction	20	18	22	14	19	22	16	19	20	21	23	22	22	23	23	31	70	40	46	75	60	22	11	13	Std. Wind Direc	
Outdoor Temperature	72.8	72.2	71.5	71.0	70.3	70.1	70.1	71.9	73.6	76.7	79.3	81.6	82.9	84.7	86.2	83.7	76.1	76.8	76.1	75.4	74.7	74.5	74.4	74.5	Outd Temp	
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	7:00	8:00	9:00	10:00	11:00	Par Me	
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.																										

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



[Home](#)
[Publ](#)
[Busint](#)
[Govern](#)
[Air](#)
[Lar](#)
[Water](#)

[Air Quality Maps](#)
[Data Reports](#)
[AutoGC](#)
[Water Data](#)
[Site Info](#)

All TCEQ applications, including LEADS, will be unavailable Saturday, October 3 and Sunday, October 4 for a scheduled power outage by the Texas Facilities Commission. All TCEQ applications should be back online by Monday, October 5, 2015. Please check back for further updates.

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 and to control cell highlighting based on measured nitrogen dioxide levels. 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 Manvel Croix Park C84 [Select a different site](#)

Month: September **Day:** 30 **Year:** 2015 **Time Format:** 12 Hour (AM/PM)
 [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights:
 Moderate
 Unhealthy for Sensitives
 Unhealthy
 Very Unhealthy
 Hazardous

 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 **Wednesday, September 30, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me		
	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
Nitric Oxide	0.3	1.2	5.0	5.6	4.3	6.6	21.4	26.4	11.6	3.1	0.9	0.1	0.5	0.1	0.5	-0.0	0.2	-0.0	0.3	1.3	0.4	0.8	0.6	0.4	Nitri
Nitrogen Dioxide	4.7	5.5	8.6	9.0	9.0	10.4	11.9	13.9	13.5	6.5	1.6	-0.6	-0.8	-1.0	-0.6	-0.9	0.7	1.3	8.5	11.3	12.1	7.6	4.7	4.5	Nitric Diox
Oxides of Nitrogen	5.1	6.8	13.8	14.8	13.4	17.2	33.8	40.8	25.4	9.6	2.5	-0.4	-0.2	-0.9	-0.0	-0.9	0.9	1.3	8.9	12.7	12.6	8.4	5.3	5.0	Oxid Nitre
Ozone	2	0	0	0	0	0	0	3	11	24	36	46	49	52	56	56	53	48	35	24	15	10	8	4	Ozor
Wind Speed	1.8	2.1	2.7	2.7	2.7	2.7	3.1	4.3	5.5	7.1	8.8	8.5	8.1	8.1	7.6	8.8	8.2	7.2	4.2	2.6	0.8	0.9	1.2	1.6	Wing
Resultant Wind Speed	1.8	2.1	2.6	2.7	2.6	2.5	2.9	4.1	5.2	6.6	8.1	7.7	7.4	7.3	6.7	8.0	7.8	6.9	4.1	2.5	0.7	0.8	1.1	1.6	Resu Wing
Resultant Wind Direction	308	297	309	318	329	347	350	355	3	3	24	23	15	20	12	14	26	26	32	35	38	269	296	318	Resu Wind Dire
Maximum Wind Gust	4.1	4.4	5.4	5.8	5.2	6.5	6.2	8.5	10.2	13.3	15.8	15.9	14.9	16.1	15.5	16.4	16.5	13.4	10.2	6.0	1.7	2.9	1.9	3.4	Maxi Wind
Std. Dev. Wind Direction	11	11	11	12	12	19	20	16	20	21	22	25	24	25	28	24	18	18	11	10	32	33	12	15	Std. Wind Dire
Outdoor Temperature	73.8	73.6	73.5	72.8	72.7	72.8	72.9	75.1	78.3	81.1	83.2	85.1	86.0	87.1	88.2	88.7	88.3	86.9	84.3	82.2	79.1	76.2	75.2	73.8	Outd Tem
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	7:00	8:00	9:00	10:00	11:00	Par Me
	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.																								

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



- Home
- Public
- Business
- Government
- Air
- Land
- Water

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 and to control cell highlighting based on measured nitrogen dioxide levels. 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 Manvel Croix Park C84 [Select a different site](#)

Month: Day: Year: Time Format:
 October 1 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitives Unhealthy Very Unhealthy Hazardous
 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, October 1, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me			
	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	
Nitric Oxide	0.3	0.8	5.2	6.8	1.7	6.5	3.0	2.9	1.7	1.3	1.2	1.0	0.2	0.2	0.1	0.0	-0.1	0.2	0.8	0.8	0.4	0.1	0.4	0.6	Nitri	
Nitrogen Dioxide	6.4	5.0	9.9	19.4	19.3	19.4	15.0	10.7	5.8	3.8	2.9	4.4	2.8	0.7	0.0	-0.0	1.0	3.9	5.6	10.0	5.7	8.2	15.1	8.9	Nitric Diox	
Oxides of Nitrogen	6.8	6.0	15.2	26.5	21.3	26.2	18.2	13.7	7.6	5.2	4.2	5.4	3.1	0.9	0.1	0.0	1.0	4.2	6.5	10.9	6.1	8.3	15.7	9.6	Oxid Nitric	
Ozone	3	1	0	2	2	2	8	17	29	37	45	65	64	72	70	67	62	50	41	28	17	12	15	30	Ozono	
Wind Speed	0.9	1.8	2.6	4.2	2.4	4.1	5.1	6.5	8.2	7.9	5.9	6.0	6.8	7.4	7.8	8.2	6.5	5.3	5.1	2.1	1.4	2.0	5.0	5.7	Wind	
Resultant Wind Speed	0.7	1.3	2.5	4.0	2.3	4.0	5.0	6.3	7.9	7.3	5.2	5.1	6.0	6.5	7.0	7.5	6.0	5.1	5.0	1.9	1.3	1.9	4.7	5.4	Resu Wind	
Resultant Wind Direction	289	7	1	18	8	32	35	46	59	66	25	16	12	347	356	2	9	29	33	19	347	343	8	17	Resu Wind Dire	
Maximum Wind Gust	2.4	5.3	4.9	7.2	5.5	7.6	9.1	11.5	15.3	15.2	12.9	11.0	12.4	19.8	17.0	16.9	13.8	11.0	10.1	5.5	2.7	4.9	11.3	11.3	Maxi Wind	
Std. Dev. Wind Direction	40	45	14	14	21	12	11	13	16	22	30	31	28	29	25	24	23	17	12	25	16	19	20	17	Std. Wind Dire	
Outdoor Temperature	72.9	72.5	73.5	73.8	72.9	71.9	71.3	72.3	74.6	76.4	78.1	80.1	82.1	84.4	85.4	86.4	86.4	85.1	82.6	80.0	78.2	76.3	77.1	75.8	Outd Tem	
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	7:00	8:00	9:00	10:00	11:00	Par Me	
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.																										

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.



Home | Public | Business | Government | Air | Land | Water

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 and to control cell highlighting based on measured nitrogen dioxide levels. 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 Manvel Croix Park C84 [Select a different site](#)

Month: Day: Year: Time Format:

October 2 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitives Unhealthy Very Unhealthy Hazardous

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 **Friday, October 2, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me			
	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	
Nitric Oxide	0.4	-0.1	-0.1	0.3	0.1	0.8	1.7	2.9	1.8	1.4	1.1	0.5	0.3	0.6	0.9	0.2	0.1	0.2	0.7	0.5	-0.1	0.2	1.0	0.4	Nitri	
Nitrogen Dioxide	3.4	2.6	2.6	5.9	8.2	9.1	17.2	13.6	7.8	4.8	3.3	2.5	0.8	0.2	-0.3	-0.3	-0.3	2.1	6.4	11.6	15.6	17.1	9.8	7.8	Nitric Diox	
Oxides of Nitrogen	3.8	2.6	2.5	6.2	8.4	10.0	19.1	16.7	9.7	6.2	4.4	3.0	1.2	0.8	0.6	-0.1	-0.2	2.4	7.1	12.2	15.7	17.5	10.9	8.4	Oxid Nitric	
Ozone	32	32	32	25	22	23	14	25	36	45	48	56	65	67	66	67	65	57	43	31	19	12	12	8	Ozor	
Wind Speed	4.3	3.8	4.1	4.4	5.4	5.3	3.9	6.6	9.1	8.9	8.1	8.2	9.5	9.9	9.2	9.1	7.9	6.6	5.0	3.6	3.0	2.6	2.2	2.2	Wind	
Resultant Wind Speed	4.2	3.6	3.9	4.2	5.2	5.2	3.8	6.5	8.7	8.1	7.2	7.2	8.7	8.7	8.3	8.4	7.4	6.1	4.8	3.5	2.9	2.6	2.1	2.2	Resul Wind	
Resultant Wind Direction	23	18	13	18	32	40	31	33	34	30	12	345	343	347	346	342	339	1	23	29	40	28	11	6	Resul Wind Dire	
Maximum Wind Gust	8.7	7.5	8.0	12.1	9.8	9.9	8.3	15.5	16.1	16.9	15.3	16.7	18.9	18.9	20.5	16.9	15.7	13.7	9.6	6.8	4.9	4.4	4.0	3.8	Maxi Wind	
Std. Dev. Wind Direction	15	15	16	17	13	11	12	14	16	25	26	27	24	28	25	23	22	23	16	15	12	12	15	16	Std. Wind Dire	
Outdoor Temperature	73.8	71.9	70.3	68.6	66.9	65.5	64.2	65.4	67.4	69.9	72.2	74.7	77.0	79.4	80.4	80.9	81.1	79.9	76.4	73.4	70.2	69.0	67.2	65.4	Outd Tem	
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	7:00	8:00	9:00	10:00	11:00	Par Me	
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.																										

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.

ATTACHMENT 3

Blue Ridge Landfill, MSW Permit No. 1505A

OS 3

OS 4

McHard Rd

Gour Rd

S Post Oak Rd

Hiram Clarke Rd

Alameda Rd

OS 5

Shadow Creek Pk

OS 1

Trinity Bay Dr

OS 2

N Broadway S

521

© 2015 Google



2600 block of Sweet Wind

OS1

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-2-15 Start Time: 9:28

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	no odor
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	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

3000 block Sunrise Run Ln.

OS2

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-2-15 Start Time: 9:53

Minutes	Odor Intensity VL, L, M, S, VS
1 min	" "
2	" "
3	" "
4	" "
5	" "
6	" "
7	" "
8	
9	
10	
11	
12	
13	
14	
15	
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	
47	
48	
49	
50	
51	
52	
53	no odor
54	" "
55	" "
56	" "
57	" "
58	" "
59	" "
60	" "

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

2500 Dock Nail

053

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-2-15 Start Time: 10:22

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	VL spraypaint -
23	VL like smell
24	M
25	L
26	S
27	VL
28	no odor
29	no odor
30	no odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
32	M
33	no odor
34	no odor
35	no odor
36	no odor
37	no odor
38	no odor
39	no odor
40	no odor
41	no odor
42	no odor
43	no odor
44	no odor
45	no odor
46	no odor
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

116200 Porter Ridge + Rapidcreek

Supplemental Investigator's Odor Intensity Time Log

054

Date of Investigation: 10-2-15 Start Time: 11:00

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
2	" "
3	" "
4	" "
5	" "
6	" "
7	" "
8	" "
9	" "
10	" "
11	" "
12	" "
13	" "
14	" "
15	
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	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	no odor

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

2234 + 521

055

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: ~~12~~ 10-2-15 Start Time: 12:17

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	no odor
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	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

ATTACHMENT 4



Blue Ridge Landfill, MSW-1505A

CLASS 1

COVER APPLICATION LOG NON HAZARDOUS

Month / Year: SEPT 2015

Line #	Daily Cover		Approved Alternate Daily Cover		Elevation MSL	Inspection Date of Daily Cover	Erosion or Leachate Seepage Observed	Corrective Action ^h	Soil Stockpile Required/ (y ³)	Rain (inches) ≥ 0.5"	Rain (inches) ≥ 0.5"	Final Cover Per Final Closure Plan	Inspection Date of Intermediate Final Cover	Erosion Detected ≥ 4"	Date Erosion Corrected ^g	Corrective Action ^h	Final Cover Certification Report Reference	Supervisor Signature ⁱ
	AMT ¹	Grid Area	Method ²	AMT ¹														
1	5.0	5.0	B	5.0	54	10/1/15	Yes			Yes	Yes	T	10/1/15	Yes				[Signature]
2	5.0	5.0	B	5.0	54	10/2/15	Yes			Yes	Yes	T	10/2/15	Yes				[Signature]
3	5.0	5.0	B	5.0	54	10/3/15	Yes			Yes	Yes	T	10/3/15	Yes				[Signature]
4	5.0	5.0	B	5.0	54	10/4/15	Yes			Yes	Yes	T	10/4/15	Yes				[Signature]
5																		
6	5.0	5.0	B	5.0	54	10/5/15	Yes			Yes	Yes	T	10/5/15	Yes				[Signature]
7	5.0	5.0	B	5.0	54	10/6/15	Yes			Yes	Yes	T	10/6/15	Yes				[Signature]
8	5.0	5.0	B	5.0	54	10/7/15	Yes			Yes	Yes	T	10/7/15	Yes				[Signature]
9	5.0	5.0	B	5.0	54	10/8/15	Yes			Yes	Yes	T	10/8/15	Yes				[Signature]
10	5.0	5.0	B	5.0	54	10/9/15	Yes			Yes	Yes	T	10/9/15	Yes				[Signature]
11	5.0	5.0	B	5.0	54	10/10/15	Yes			Yes	Yes	T	10/10/15	Yes				[Signature]
12																		
13	5.0	5.0	B	5.0	54	10/11/15	Yes			Yes	Yes	T	10/11/15	Yes				[Signature]
14	5.0	5.0	B	5.0	54	10/12/15	Yes			Yes	Yes	T	10/12/15	Yes				[Signature]
15	5.0	5.0	B	5.0	54	10/13/15	Yes			Yes	Yes	T	10/13/15	Yes				[Signature]
16	5.0	5.0	B	5.0	54	10/14/15	Yes			Yes	Yes	T	10/14/15	Yes				[Signature]
17	5.0	5.0	B	5.0	54	10/15/15	Yes			Yes	Yes	T	10/15/15	Yes				[Signature]
18	5.0	5.0	B	5.0	54	10/16/15	Yes			Yes	Yes	T	10/16/15	Yes				[Signature]
19																		
20	5.0	5.0	B	5.0	54	10/17/15	Yes			Yes	Yes	T	10/17/15	Yes				[Signature]
21	5.0	5.0	B	5.0	54	10/18/15	Yes			Yes	Yes	T	10/18/15	Yes				[Signature]
22	5.0	5.0	B	5.0	54	10/19/15	Yes			Yes	Yes	T	10/19/15	Yes				[Signature]
23	5.0	5.0	B	5.0	54	10/20/15	Yes			Yes	Yes	T	10/20/15	Yes				[Signature]
24	5.0	5.0	B	5.0	54	10/21/15	Yes			Yes	Yes	T	10/21/15	Yes				[Signature]
25	5.0	5.0	B	5.0	54	10/22/15	Yes			Yes	Yes	T	10/22/15	Yes				[Signature]
26																		
27	5.0	5.0	B	5.0	54	10/23/15	Yes			Yes	Yes	T	10/23/15	Yes				[Signature]
28	5.0	5.0	B	5.0	54	10/24/15	Yes			Yes	Yes	T	10/24/15	Yes				[Signature]
29	5.0	5.0	B	5.0	54	10/25/15	Yes			Yes	Yes	T	10/25/15	Yes				[Signature]
30	5.0	5.0	B	5.0	54	10/26/15	Yes			Yes	Yes	T	10/26/15	Yes				[Signature]
31																		

AMT = Amount of cover (soil) in y³ 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 c

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

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

SOE 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 ti

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

Size of the working face. A 50 y³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

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

Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.

COVER APPLICATION LOG

REPUBLIC SERVICES
 Blue Ridge Landfill, MSW-1505A
 MSW

Line #	Daily Cover		Approved Alternate Daily Cover		Elevation	Inspection Date of Daily Cover	Erosion of Leachate Seep Detected	Corrective Action	Soil Stockpile Requiring (Y/N)	Rain (Inches) ≥ 0.5"	Rain (Inches) ≥ 0.5"	Intermediate Cover		Final Cover		Inspection Date of Intermediate Cover	Erosion 2-4' Detected	Date Erosion Corrected	Corrective Action	Final Cover Certification Report Reference	Supervisor Signature	
	Grid Area	Method	Grid Area	Method								Grid Area	Method	Grid Area	Method							
1	54D	6" B			48-54	Inspected	No		No													
2	54D	6" B			50-56	Inspected	No		No													
3	48D	6" B			46-50	Inspected	No		No													
4					50-54	Inspected	No		No													
5	54D	6" B			50-54	Inspected	No		No													
6	180	6" B			48-54	Inspected	No		No													
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						
25																						
26																						
27																						
28																						
29																						
30																						
31																						

AMT = Amount of cover (as) 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.
 Erosion of daily cover must be corrected within 24 hours after the event is acceptable. 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
 SCP 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 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.

