

MSW PA\_1505A\_20161122\_Investigation Report  
Texas Commission on Environmental Quality  
Investigation Report

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

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**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

**Investigation # 1381752**

**Incident Numbers**

247766	247773
247669	247689
247717	247678
247735	247664
247726	247761
247764	247697
247751	247771
247721	247732
247757	247681
247777	247727
247671	247679
247676	247684
247687	247718
247698	247695
247833	247694
247831	247673
247759	247680
247830	247658
247769	247666
247730	247770
247683	247690
247720	247724
247661	247762
247758	247763
247775	247659

**Investigator:** RICHARD BLACKNEY

**Site Classification** TYPE 1

**Conducted:** 11/22/2016 -- 05/09/2017

**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):**

**BLUE RIDGE LANDFILL - FRESNO**

11/22/2016 to 5/9/2017 Inv. # - 1381752

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Role	Title	Name	Phone
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 668-9739

**Other Staff Member(s):**

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	TOM COLLINS

**Associated Check List**

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	complaint

**Investigation Comments:**

**INTRODUCTION**

On November 21, 28, 29, December 1 and 2, 2016, the Texas Commission on Environmental Quality Houston Region Office Waste Section (TCEQ Houston) received 63 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on November 18, 19, 23, 24, 25, 28, 30, and December 1, 2016.

On November 22 and 25, 2016, Mr. John Nguyen, Emergency Response Coordinator of TCEQ Houston, conducted odor surveys in the area surrounding BRL. On December 5, 2016, Mr. Richard Blackney, Environmental Investigator of TCEQ Houston, conducted an unannounced Odor Complaint Investigation at BRL.

**BACKGROUND**

On October 18, 2016 through November 10, 2016, a Surface Emissions Monitoring (SEM) Investigation (Consolidated Compliance and Enforcement Data System [CCEDS] Investigation No. 1370033) was conducted by the TCEQ Houston Region Air Section. On November 10, 2016, the Air Section investigators observed several wet areas where gas and liquid were bubbling on the landfill cover.

During a Waste Section Investigation begun on October 18, 2016, (CCEDS Investigation No. 1376757), an alleged violation was noted for failure to document repair to cover on the November 2016 cover log following the bubbling that was observed on November 10, 2016. This violation 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

**BLUE RIDGE LANDFILL - FRESNO**

**11/22/2016 to 5/9/2017 Inv. # - 1381752**

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12:00 pm. The surrounding land use includes industrial facilities and residential subdivisions.

**Complainant Information:**

See confidential files (TCEQ Incident Nos. 247658, 247659, 247661, 247664, 247666, 247669, 247671, 247673, 247676, 247678, 247679, 247680, 247681, 247683, 247684, 247687, 247689, 247690, 247694, 247695, 247697, 247698, 247717, 247718, 247720, 247721, 247724, 247726, 247727, 247730, 247732, 247735, 247751, 247757, 247758, 247759, 247761, 247762, 247763, 247764, 247766, 247769, 247770, 247771, 247773, 247775, 247777, 247830, 247831, 247833, 247835, 247837, 248007, 248008, 248009, 248011, 248114, 248116, 248119, 248121, 248122, 248123 and 248290).

**Description of Alleged Effects:**

Headache and nausea were described as resulting from the odors.

**November 22, 2016 Odor Survey:**

Mr. Nguyen arrived at the first survey point located at the end of Sidonie Road in Houston. Odor Survey (OS) no. 1 took place crosswind of BRL and was conducted at 8:00 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 1.

Mr. Nguyen went to OS site no. 2 located at the 4600 block of North Ripple Ridge Drive in Houston. OS No. 2 took place downwind of BRL and was conducted at 8:21 p.m. Odors typical of landfill garbage were detected intermittently during the 15 minutes spent at OS site no. 2, averaging to very light.

Mr. Nguyen then went to OS Site no. 3 located at the intersection of West Broadway St. and Kingsley Drive in Pearland. OS No. 3 took place upwind of BRL and was conducted at 8:51 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 3.

**Meteorological data at the time of the November 22, 2016 odor survey:**

Wind direction: SSE

Resultant Wind Speed: 7.4 to 9.3 mph

Temperature: 71.7 to 72.1°F

Meteorological data from TCEQ's continuous air monitoring stations and aerial view maps of the OS locations and the OS logs are included in Attachment 2.

**November 25, 2016 Odor Survey:**

Mr. Nguyen arrived at the first survey point located at the intersection of West Broadway St. and Kingsley Drive in Pearland. OS no. 1 took place crosswind of BRL and was conducted at 8:00 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 1.

Mr. Nguyen went to OS site no. 2 located at the 3400 block of Golden Cypress Lane in Pearland. OS No. 2 took place crosswind of BRL and was conducted at 8:26 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 2.

Mr. Nguyen then went to OS Site no. 3 located at the 6200 block of McHard Road in Houston. OS No. 3 took place crosswind of BRL and was conducted at 9:00 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 3.

**Meteorological data at the time of the November 25, 2016 odor survey:**

Wind direction: N

Resultant Wind Speed: 1.0 to 4.7 mph

Temperature: 64.7 to 65.1°F

Meteorological data from TCEQ's continuous air monitoring stations and aerial view maps of the OS locations and the OS logs are included in Attachment 3.

**December 5, 2016 on-site investigation:**

On December 5, 2016, Mr. Blackney arrived at BRL, and met with Mr. Burgess Stengl, Environmental Manager; and Mr. Matt Montagna, Landfill Operations Manager, to whom the purpose and scope of the investigation were explained.

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 and MSW cell at the end of each operating day. Mr. Blackney viewed the MSW and Class 1 working faces, by which piles of soil were observed. Mr. Blackney obtained copies of the cover logs for November and December 2016 (Attachment 4).

BRL has a system of misters for the purpose of neutralizing odors. Mr. Blackney viewed the misting system in operation. At the time of the investigation, another odor control system, this one using vapor rather than mist, was being finalized, but was not yet operational.

Description of Odor:

Odors typical of landfill garbage were detected during the November 22, 2016 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 also detected during investigations conducted on October 31, 2016 (Investigation No. 1371383) and November 16, 2016 (Investigation No. 1376355), the frequency of odors documented by the Waste Section is a "weekly occurrence".

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

ADDITIONAL INFORMATION

Some of the incidents for this complaint are included in Data Maintenance File Review No. 1381766.

On April 27, 2017, a letter (Attachment 5) was received from BRL regarding the alleged violation for failure to document repair to cover on the November 2016 cover log. The letter included an amended cover log and supporting documentation. The Corrective Action column of the cover log was not filled out for the days that corrective action was performed.

SUMMARY OF INVESTIGATION FINDINGS

OUTSTANDING ALLEGED VIOLATION

The following alleged violation was noted and remains outstanding:

Site Operating Plan 4.18.5 / 30 Texas Administrative Code §330.121(a) – General (Category C3)

Repairs to cover are required to be documented in the cover log. The date of detection of erosion, or other repair issue, and the date of completion of repair (including any reasons for delays) will be included.

Bubbling on the landfill cover was observed during the Surface Emissions Monitoring Investigation conducted at Blue Ridge Landfill on November 10, 2016. During a November 16, 2016 on-site visit, the facility representative stated that additional soil had been applied to the landfill following the November 10, 2016 observation of bubbling. However, neither the date of detection of the issue nor the date of completion of repair were documented in the cover log.

Blue Ridge Landfill was requested to amend the November 2016 MSW cover log, and have the amendments signed by the Landfill Manager or his designee. To verify compliance, Blue Ridge Landfill was requested to submit the amended November 2016 MSW cover log to the TCEQ Houston Region Office, along with the

**BLUE RIDGE LANDFILL - FRESNO**

**11/22/2016 to 5/9/2017 Inv. # - 1381752**

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supporting documentation that serves as a basis for the amendment.

On April 27, 2017, a letter was received from Blue Ridge Landfill that included an amended cover log and supporting documentation. The Corrective Action column of the cover log was not filled out for the days that corrective action was performed.

Blue Ridge Landfill is requested to amend the November 2016 MSW cover log and submit it to the TCEQ Houston Region Office.

**OUTSTANDING ALLEGED VIOLATION(S)**

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**Track Number:** 633990

**Compliance Due Date:** To Be Determined

**Violation Start Date:** Unknown

**30 TAC Chapter 330.121(a)**

**PERMIT 1505A, Site Operating Plan 4.18.5**

Repairs will be documented in the cover log.

**Alleged Violation:**

**Investigation: 1376757**

Comment Date: 03/06/2017

Repairs to cover are required to be documented in the cover log. The date of detection of erosion, or other repair issue, and the date of completion of repair (including any reasons for delays) will be included.

Bubbling on the landfill cover was observed during the Surface Emissions Monitoring Investigation conducted at Blue Ridge Landfill on November 10, 2016. During a November 16, 2016 on-site visit, the facility representative stated that additional soil had been applied to the landfill following the November 10, 2016 observation of bubbling. However, neither the date of detection of the issue nor the date of completion of repair were documented in the cover log.

**Investigation: 1376355**

Comment Date: 03/30/2017

Compliance with this regulation was evaluated during the investigation conducted on November 16, 2016.

**Investigation: 1381752**

Comment Date: 05/09/2017

Compliance with this regulation was evaluated during the investigation conducted on December 5, 2017.

**Recommended Corrective Action:** Blue Ridge Landfill was requested to amend the November 2016 MSW cover log, and have the amendments signed by the Landfill Manager or his designee. To verify compliance, Blue Ridge Landfill was requested to submit the amended November 2016 MSW cover log to the TCEQ Houston Region Office, along with the supporting documentation that serves as a basis for the amendment.

On April 27, 2017, a letter was received from Blue Ridge Landfill that included an amended cover log and supporting documentation. The Corrective Action column of the cover log was not filled out for the days that corrective action was performed.

Blue Ridge Landfill is requested to amend the November 2016 MSW cover log and submit it to the TCEQ Houston Region Office.

Signed Richard Blackey  
Environmental Investigator

Date 05/12/2017

Signed Alma L. Jefferson  
Supervisor

Date 05/12/2017

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

- Enforcement Action Request (EAR)
- Letter to Facility (specify type): additional compliance request
- Investigation Report
- Sample Analysis Results
- Manifests
- Notice of Registration

- Maps, Plans, Sketches
- Photographs
- Correspondence from the facility
- Other (specify): See list of attachments

# Texas Commission on Environmental Quality Investigation Report

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

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**Regulated Entity Name: BLUE RIDGE LANDFILL**

**Regulated Entity Number: RN102610102**

**Investigation #** 1381766

**Incident Numbers**

248011	248290
247835	248116
248007	247837
248123	248008
248009	248119
248114	248121
248122	

**Investigator:** RICHARD BLACKNEY

**Site Classification** TYPE 1

**Conducted:** 11/22/2016 -- 05/09/2017

**NAIC Code:** 562212

**SIC Code:** 4953

**SIC Code:** 1521

**Program(s):** MUNICIPAL SOLID WASTE DISPOSAL

**Investigation Type:** Data Maintenance File Review

**Location:** LOCATED ON 2200 FM 521

**Additional ID(s):** 1505A

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

**Local Unit:**

**Activity Type(s):**

**Principal(s):**

**Role**

**Name**

RESPONDENT

BLUE RIDGE LANDFILL TX LP

**Contact(s):**

**Role**

**Title**

**Name**

**Phone**

**Other Staff Member(s):**

**Role**

**Name**

Supervisor

ALMA JEFFERSON

QA Reviewer

TOM COLLINS

## Associated Check List

**Checklist Name**

**Unit Name**

**Investigation Comments:**

This Data Maintenance File Review was created to associate additional incidents for Investigation No. 1381752.

**No Violations Associated to this Investigation**

Signed Richard Blackley  
Environmental Investigator

Date 05/12/2017

Signed Alma L. Jefferson  
Supervisor

Date 05/12/2017

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

Enforcement Action Request (EAR)

Letter to Facility (specify type) : \_\_\_\_\_

Investigation Report

Sample Analysis Results

Manifests

Notice of Registration

Maps, Plans, Sketches

Photographs

Correspondence from the facility

Other (specify) : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



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## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 12, 2017

**CERTIFIED MAIL #7014 0510 0001 2634 2361  
RETURN RECEIPT REQUESTED**

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

Re: Additional Compliance Documentation Needed for:  
Blue Ridge Landfill, 2200 FM 521 Rd., Fresno (Fort Bend County), Texas 77545  
TCEQ Municipal Solid Waste Permit No.: 1505A

Dear Mr. Stengl:

On December 5, 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.

The TCEQ Houston Region Office has received the compliance documentation that you submitted April 26, 2017. However, information is still needed for the alleged violation listed in the enclosed summary. Please submit to our office within 30 days of receipt of this letter a written description of corrective action taken and the required compliance documentation demonstrating that alleged violation has been resolved.

The TCEQ appreciates your assistance in this matter and looks forward to receiving your response. If you or members of your staff have any questions regarding these matters, please feel free to contact Mr. Blackney in the Houston Region 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

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 November 22, 2016 through December 5, 2016**

**OUTSTANDING ALLEGED VIOLATION**

The following alleged violation was noted and remains outstanding:

**Site Operating Plan 4.18.5 / 30 Texas Administrative Code §330.121(a) - General**

Repairs to cover are required to be documented in the cover log. The date of detection of erosion, or other repair issue, and the date of completion of repair (including any reasons for delays) will be included.

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On April 26, 2017, a letter was received from Blue Ridge Landfill that included an amended cover log and supporting documentation. The Corrective Action column of the cover log was not filled out for the days that corrective action was performed.

Blue Ridge Landfill is requested to amend the November 2016 MSW cover log and submit it to the TCEQ Houston Region Office.

**Blue Ridge Landfill**  
**2200 F.M. 521, Fresno (Fort Bend County), TX 77545**  
**Municipal Solid Waste Permit No. 1505A**  
**MSW Complaint Investigation**  
**Conducted on November 22 to December 5, 2016**

List of Attachments

Attachment 1	Central Registry Information for Blue Ridge Landfill
Attachment 2	Map of November 22, 2016 Odor Survey locations and Odor Logs
Attachment 3	Map of November 25, 2016 Odor Survey locations and Odor Logs
Attachment 4	November and December 2016 Cover Logs
Attachment 5	Letter from Blue Ridge Landfill

# **ATTACHMENT 1**

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

*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	TXR15N796	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

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# **ATTACHMENT 2**



Air Quality Maps    Data Reports    AutoQC    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 #4    Manvel Croix Park C84    [Select a different site](#)

Month:    Day: Year:    Time Format:

November    22    2016    12 Hour (AM/PM)    [Generate Report](#)    [Plot Data](#)

Green underline for validated data

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for Tuesday, **November 22, 2016**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												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	
Nitric Oxide	-0.1	-0.1	-0.0	-0.0	-0.0	0.2	0.5	1.2	<b>2.2</b>	0.6	0.3	0.1	0.2	0.0	0.2	0.2	0.0	-0.1	-0.0	-0.0	-0.0	-0.0	-0.1	0.0	Nitric Oxide
Nitrogen Dioxide	8.2	8.2	5.1	7.6	6.8	10.4	<b>15.7</b>	13.6	9.8	3.6	2.2	1.9	2.0	1.9	2.2	2.2	2.8	4.3	5.7	4.4	1.9	<b>1.7</b>	1.8	1.9	Nitrogen Dioxide
Oxides of Nitrogen	8.0	8.0	5.0	7.5	6.7	10.5	<b>16.1</b>	14.7	11.8	4.2	2.4	2.0	2.1	1.9	2.4	2.4	2.7	4.2	5.7	4.3	1.8	<b>1.6</b>	1.6	1.8	Oxides of Nitrogen
Ozone	16	16	19	13	18	17	<b>12</b>	15	22	34	39	<b>41</b>	41	41	40	39	37	34	30	30	33	33	31	31	Ozone
Wind Speed	1.9	3.5	<b>1.8</b>	<b>3.5</b>	<b>2.8</b>	5.0	4.1	4.1	<b>6.9</b>	10.0	14.5	15.1	14.3	<b>15.8</b>	15.2	11.9	11.9	10.0	8.2	7.1	9.4	7.6	<b>5.9</b>	6.5	Wind Speed
Resultant Wind Speed	1.9	3.4	<b>1.7</b>	3.3	2.7	4.9	4.0	4.0	6.8	9.8	14.1	14.7	13.9	<b>15.4</b>	14.9	13.6	11.7	9.8	8.1	7.0	9.3	7.4	5.8	6.4	Resultant Wind Speed
Resultant Wind Direction	<b>121</b>	121	131	129	147	147	163	157	155	163	172	<b>177</b>	176	170	167	168	164	157	151	149	164	166	169	160	Resultant Wind Direction
Maximum Wind Gust	<b>4.0</b>	5.5	6.4	6.7	6.8	8.5	6.9	7.9	11.6	18.8	25.5	25.3	<b>27.8</b>	26.8	25.3	25.9	22.1	17.6	13.4	12.6	15.8	13.5	10.6	10.4	Maximum Wind Gust
Std. Dev. Wind Direction	10	11	<b>19</b>	19	11	12	12	12	11	13	14	13	14	13	12	11	11	11	10	10	<b>9</b>	10	10	9	Std. Dev. Wind Direction
Outdoor Temperature	<b>59.5</b>	59.5	60.4	60.2	62.1	63.9	64.5	66.6	69.9	74.8	78.1	78.2	<b>79.3</b>	79.0	79.0	77.9	76.5	74.3	72.7	71.6	72.1	71.7	71.1	70.8	Outdoor Temperature

x.xx Indicates the data has been validated.  
 Maximum values for each parameter are **bold** within the table. Minimum values are **bold italic**.  
 \* - 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.



#1 Shadow L. on

# Cul-de-sac and Investigator's Odor Intensity Time Log

Wind:

SE 9 mph

Date of Investigation: 11/22/2016 Start Time 8:00 PM/2000

Name and Address of Alleged Source: Blue Ridge Landfill

Investigator's Name: Print: John Nguyen Sign: \_\_\_\_\_

S 11 mph

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	11
3	11
4	11
5	11
6	11
7	11
8	11
9	11
10	11
11	11
12	11
13	11
14	11
15	11
16	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
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Offensiveness: Highly \_\_\_\_\_ Offensive  Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_

Dominant Odor Intensity For:

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

112 N. Cripple Ridge Dr.  
Park

### Investigator's Odor Intensity Time Log

Date of Investigation: 11/22/2016 Start Time 8:21 pm  
 Name and Address of Alleged Source: Blue Ridge Landfill  
 Investigator's Name: Print: John Nguyen Sign: \_\_\_\_\_

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	L
22	none
23	"
24	"
25	VL
26	none
27	"
28	"
29	"
30	L

Minutes	Odor Intensity VL, L, M, S, VS
31 min	none
32	"
33	"
34	"
35	VL
36	
37	
38	
39	
40	
41	
42	
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SE 4 mph

Offensiveness: Highly \_\_\_\_\_ Offensive X Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_  
 Dominant Odor Intensity For:

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

5027 Pharmacy  
on Broadway

### Investigator's Odor Intensity Time Log

Date of Investigation: 11/24/2016 Start Time 8:51 PM  
 Name and Address of Alleged Source: Blue Ridge Landfill  
 Investigator's Name: Print: John Nguyen Sign: \_\_\_\_\_

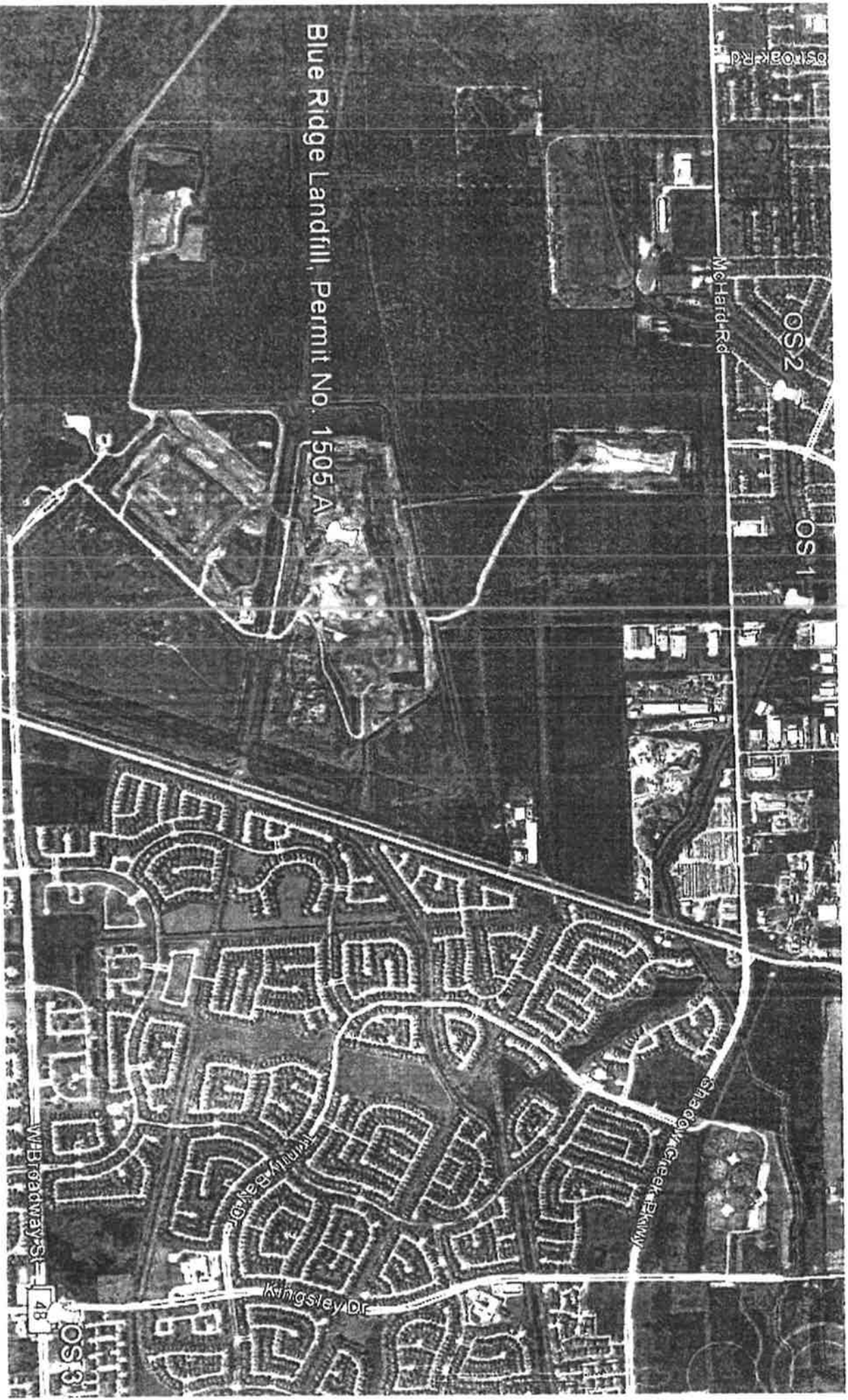
Minutes	Odor Intensity VL, L, M, S, VS
1 min	None
2	11
3	11
4	1
5	11
6	
7	
8	
9	
10	
11	
12	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	None
52	11
53	11
54	11
55	11
56	11
57	11
58	11
59	11
60	11

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

Dominant Odor Intensity For:

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



Blue Ridge Landfill, Permit No. 1505 A

McHard Rd

OS 2

OS 1

W Broadway St 48

OS 3

Windsor Dr

Kingsley Dr

Shadong Creek Rd

OS 1000 Rd

# **ATTACHMENT 3**



[Air Quality Maps](#)  
 [Data Reports](#)  
 [AutoQC](#)  
 [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   **Manvel Croix Park C84**   [Select a different site](#)

Month:  Day:  Year:  Time Format: 
  
 
  
 ✓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, **November 25, 2016**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Paran Meas				
	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	0.1	0.1	<b>0.0</b>	0.2	0.0	0.2	0.8	1.0	0.8	<b>3.3</b>	2.6	1.8	0.8	1.2	0.7	0.3	0.2	0.0	0.1	0.1	0.4	0.3	0.0	0.0	Nitric O		
Nitrogen Dioxide	9.0	7.8	9.7	9.8	11.3	13.4	17.2	11.7	<b>7.5</b>	14.1	13.6	11.7	9.0	10.8	12.0	8.9	8.4	13.9	<b>22.0</b>	15.4	15.4	21.0	15.5	13.1	Nitrogen Dioxide		
Oxides of Nitrogen	9.1	<b>7.8</b>	9.6	9.9	11.2	13.6	17.9	12.7	8.2	17.1	16.1	13.3	9.8	11.9	12.6	9.2	8.5	13.9	<b>21.9</b>	15.4	15.7	21.1	15.5	13.1	Oxides of Nitrogen		
Ozone	14	16	11	7	10	7	<b>6</b>	12	22	15	19	28	42	46	<b>58</b>	50	46	30	16	13	9	8	14	13	Ozone		
Wind Speed	<b>1.8</b>	<b>3.1</b>	<b>2.0</b>	<b>2.0</b>	<b>3.9</b>	<b>1.9</b>	<b>3.7</b>	<b>3.8</b>	<b>4.1</b>	<b>5.0</b>	5.1	4.8	5.9	5.0	<b>6.9</b>	6.7	4.4	2.6	2.3	1.6	<b>1.5</b>	5.0	4.7	4.8	Wind S		
Resultant Wind Speed	1.7	3.0	1.9	1.9	3.8	1.8	3.4	3.6	2.1	4.4	4.8	4.6	5.6	3.9	<b>6.2</b>	6.2	4.1	2.4	2.0	1.3	<b>1.0</b>	4.7	4.5	4.5	Resultant Wind S		
Resultant Wind Direction	38	21	39	72	45	36	76	87	38	43	75	62	69	93	31	14	18	30	48	23	<b>356</b>	5	355	<b>2</b>	Resultant Wind Direction		
Maximum Wind Gust	4.4	5.0	4.0	6.7	7.0	5.7	7.2	8.9	9.0	10.9	9.3	9.0	12.0	9.6	<b>14.0</b>	13.4	8.3	4.2	4.2	<b>3.5</b>	4.0	11.0	9.5	9.6	Maximum Wind Gust		
Std. Dev. Wind Direction	<b>14</b>	16	18	22	17	20	20	21	<b>56</b>	29	20	16	20	39	25	22	21	21	26	36	47	18	17	19	Std. Dev. Wind Direction		
Outdoor Temperature	61.1	61.9	61.4	<b>60.9</b>	61.4	61.0	61.5	61.7	64.5	63.9	65.2	67.1	69.5	72.1	<b>72.9</b>	72.3	71.9	70.1	68.4	66.6	64.7	65.1	64.1	62.9	Outdoor Temperature		
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	Paran Meas		
		Morning											Afternoon														
x.xx Indicates the data has been validated. Maximum values for each parameter are <b>bold within the table</b> . Minimum values are <b>bold italic</b> . 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.

-1 Lvs per vial  
on Broadway

### Investigator's Odor Intensity Time Log

Date of Investigation: 11/25/2016 Start Time 8:00 PM  
 Name and Address of Alleged Source: Blue Ridge Landfill  
 Investigator's Name: Print: John Nguyen Sign: \_\_\_\_\_

NSW Imp

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	"
3	"
4	"
5	"
6	"
7	"
8	"
9	"
10	"
11	"
12	"
13	"
14	"
15	"
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Offensiveness: Highly \_\_\_\_\_ Offensive  Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_  
 Dominant Odor Intensity For:

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

# Investigator's Odor Intensity Time Log

Date of Investigation: 11/05/2016 Start Time 8:26  
 Name and Address of Alleged Source: Blue Ridge Landfill  
 Investigator's Name: Print: John Nguyen Sign: \_\_\_\_\_

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
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9	
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22	
23	
24	
25	
26	none
27	
28	
29	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	M
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*Smells like fabric softener*

*2 Dmgh*

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

Dominant Odor Intensity For:

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



#5 Blue Ridge Elementary

### Investigator's Odor Intensity Time Log

Date of Investigation: 11/25/2016 Start Time 9:00 pm  
 Name and Address of Alleged Source: Blue Ridge Landfill  
 Investigator's Name: Print: John Nguyen Sign: \_\_\_\_\_

NW Imp

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	
3	
4	
5	
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7	
8	
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12	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
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Offensiveness: Highly \_\_\_\_\_ Offensive  Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_  
 Dominant Odor Intensity For:

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

OS 3

McHard Rd

Blue Ridge Landfill, Permit No. 1505 A

OS 2

Whefordway St

92

OS 11

Top of the Hill Dr

Kingsley Dr

Shadow Creek Dr



# **ATTACHMENT 4**



COVER APPLICATION LOG

MSW  
Blue Ridge Landfill, MSW-1505A

Line #	Daily Cover		Approved Alternate Daily Cover		Elevation	MSL	Inspection Date of Daily Cover	Erosion of Leachate Seep Detected	Date of Erosion or Leachate Seep Corrected	Corrective Action	Soil Stockpile Required (yd <sup>3</sup> )	Rain (Inches) 2.0 5"	Rain (Inches) 2.0 5"	Intermediate Cover		Final Cover		Inspection Date of Intermediate & Final Cover	Erosion 2.4' Detected	Date Erosion Corrected	Corrective Action	Month / Year	Final Cover Certification Report Reference	Supervisor Signature			
	AMT <sup>1</sup>	Grid Area	Method <sup>2</sup>	T <sup>3</sup>										Grid Area	Method <sup>2</sup>	T <sup>3</sup>	Grid Area								Method <sup>2</sup>	T <sup>3</sup>	
1	600	44-50	B		40-44									500	Y-2	12"	B										
2	500	44-50	B		44-50									500	Y-2	12"	B										
3	500	44-50	B		50-54									500	Y-2	12"	B										
4	4700	44-50	B		54-58									500	Y-2	12"	B										
5	500	44-50	B		40-44																						
6																											
7	600	44-50	B		44-48									500	Y-2	12"	B										
8	500	44-50	B		48-52									500	Y-2	12"	B										
9	500	44-50	B		52-56									500	Y-2	12"	B										
10	500	44-50	B		40-44									500	Y-2	12"	B										
11	600	44-50	B		44-48									500	Y-2	12"	B										
12	500	44-50	B		48-52									500	Y-2	12"	B										
13																											
14	600	44-50	B		50-56									500	Y-2	12"	B										
15	600	44-50	B		40-44									500	Y-2	12"	B										
16	500	44-50	B		44-48									500	Y-2	12"	B										
17	500	44-50	B		48-52									500	Y-2	12"	B										
18	500	44-50	B		52-56									500	Y-2	12"	B										
19	500	44-50	B		56-57									500	Y-2	12"	B										
20																											
21	700	44-50	B		40-42									500	Y-2	12"	B										
22	500	44-50	B		42-44									500	Y-2	12"	B										
23	500	44-50	B		44-46									500	Y-2	12"	B										
24	500	44-50	B		46-48									500	Y-2	12"	B										
25	500	44-50	B		48-50									500	Y-2	12"	B										
26	500	44-50	B		50-52									500	Y-2	12"	B										
27																											
28	600	44-50	B		50-52									500	Y-2	12"	B										
29	500	44-50	B		52-56									500	Y-2	12"	B										
30	700	44-50	B		40-44									500	Y-2	12"	B										
31																											

AMT = Amount of cover (soil) in yd<sup>3</sup> or alternate daily cover in bags or tarp area  
 T = Thickness in inches  
 Methods: A = Tarp Machine B = Soil by Heavy Equipment S = Spray-On  
 Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TOCE Regional Office. If not corrected within 5 days attach documentation stating reasons for delay.  
 Corrective Action R = Replacing cover material; G = Grading M = Compacting, S = Seeding  
 SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum allocated size of the working face. A 50 yd<sup>3</sup> soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.  
 Signature entries were accomplished as stated in the Cover Application Log.

Third Party Co-Master Resolving Phase 3 - Meeting November 2016

Third Party Party Day on site - inter-dial - 1000

ended work in Row 3

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COVER APPLICATION LOG

MSW

Month / Year: December 20, 2011

Line #	Daily Cover				Approved Alternate Daily Cover				Elevation MSL	Inspection Date of Daily Cover	Erosion or Leachate Seep Detected	Corrective Action	Soil Stockpile Required (yd <sup>3</sup> )	Rain (Inches) ≥ 0.5"	Rain (Inches) ≥ 0.5"	Intermediate Cover		Final Cover		Final Cover Completion Reason Reference	Supervisor Signature
	Grid Area	T <sup>2</sup>	Method	AMT	Grid Area	T <sup>2</sup>	Method	AMT								Grid Area	T <sup>2</sup>	Method	AMT		
1	500	50.51	6"	B					44.48												
2	500	50.51	6"	B					48.50					0.5	✓						
3	500	50.51	6"	B					50.52					1.5	✓						
4														1.5	✓						
5																					
6																					
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8																					
9																					
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31																					

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. Also document starting 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 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.  
Signature certifies work accomplished as stated in the Cover Application Log.

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# **ATTACHMENT 5**



April 26, 2017

Ms. Alma L. Jefferson, Waste Section Team Leader  
Texas Commission on Environmental Quality  
Houston Region Office  
5425 Polk St., Ste. H  
Houston, TX 77023-1452

Re: Response to Notice of Violation for the Focused Investigation and On-Site  
Follow-up Investigation  
Blue Ridge Landfill, 2200 FM 521 Road, Fresno, (Fort Bend County), Texas  
TCEQ MSW Permit 1505A

Dear Ms. Jefferson:

This letter is in response to the March 30, 2017, Notice of Violation to Blue Ridge Landfill alleging a violation of Section 4.18.5 of the Site Operating Plan. Your letter states that although bubbling observed on November 10, 2016, during a TCEQ Region 12 Air Section investigation, was repaired as required, a notation of the observation and repair was not on the November 2016 MSW cover log. Your letter requests Blue Ridge Landfill to amend the November 2016 MSW cover log, have the amendments signed by the Landfill Manager or his designee, and send the cover log and supporting documentation to the TCEQ Houston Region Office.

The amended November 2016 MSW cover log and supporting documentation are attached to this letter. The Blue Ridge Landfill is providing my November 10, 2016 field notes, which reference two areas of "bubbling" and the approximate locations. These notes support the observations noted on the amended MSW cover log. Although not noted in my field notes, I personally observed the repair of the "bubbling" noted near "Marker Q". The other "bubbling" is recorded in my notes as being "NW of [gas extraction well] 3-53A". From the attached Blue Ridge Landfill grid map showing the gas extraction well locations, the "bubbling" near well 3-53A was within grid letters X and Y. The Blue Ridge MSW cover log notes that cover was placed within those grid letters from November 8 through November 14, 2016. As you can see, the documentation exists and, therefore, an amendment is not required for this repair.

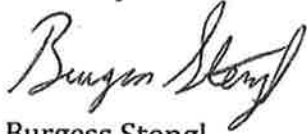
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Please contact me at 713-676-7669 if you require additional information or have any questions regarding this documentation.

Sincerely,

A handwritten signature in cursive script that reads "Burgess Stengl".

Burgess Stengl  
Environmental Manager

Attachments

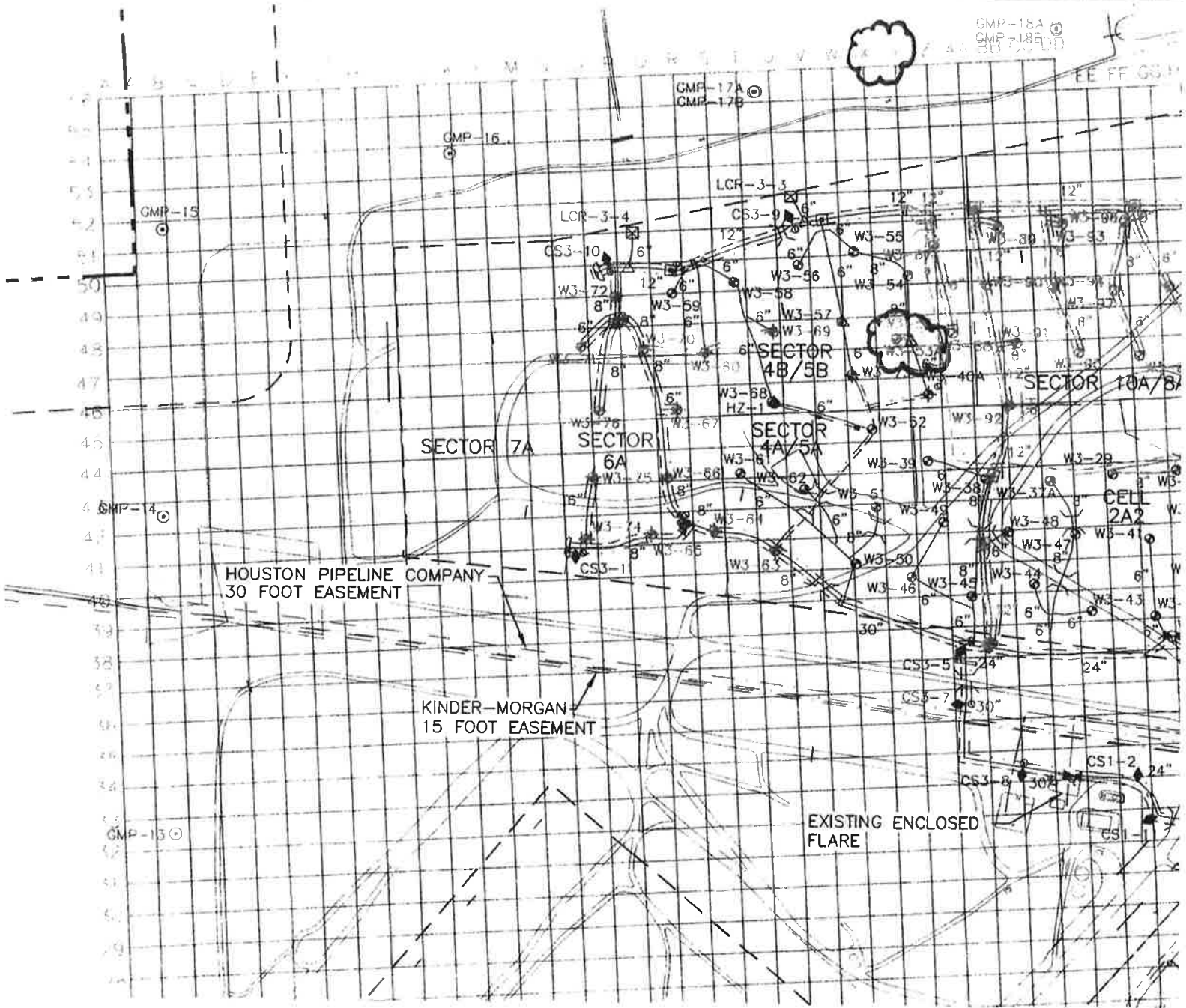
Cc: Matt Montagna, Blue Ridge Landfill

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Marker Q - Bubbling  
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BURGESS STENGL FIELD NOTES

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LUVER APPLICATION LOG

Blue Ridge Landfill, MSW-1505A

MSW

AMT	Daily Cover		Approved Alternate Daily Cover		Elevation MSL	Inspection Date of Daily Cover	Erosion of Leachate Seep Delected	Date Erosion or Leachate Seep Corrected	Corrective Action	Soil Stockpile Required (Y <sup>2</sup> )	Rain (inches) ≥ 0.5"	Rain (inches) ≥ 0.5"	Intermittent Cover		Final Cover		Inspection Date of Intermediate & Final Cover	Erosion & Leachate Delected	Date Erosion Corrected	Corrective Action	Final Cover Certification Region References	Months: Year	Signature	
	6" Soil	Method	AMT	Method									Grid Area	T	Method	T								Method
1	600	48-50	6"	B	40-44	11-18-11							Y-2	12"	B									
2	500	48-50	6"	B	44-50								Y-2	12"	B									
3	500	48-50	6"	B	50-58								Y-2	12"	B									
4	700	48-50	6"	B	54-58								Y-2	12"	B									
5	500	48-50	6"	B	40-44								Y-2	12"	B									
6																								
7	600	48-50	6"	B	44-48								Y-2	12"	B									
8	500	48-50	6"	B	48-52								Y-2	12"	B									
9	500	48-50	6"	B	52-56								Y-2	12"	B									
10	500	48-50	6"	B	40-44								Y-2	12"	B									
11	600	48-50	6"	B	44-48								Y-2	12"	B									
12	500	48-50	6"	B	48-50								Y-2	12"	B									
13																								
14	600	48-50	6"	B	50-56								Y-2	12"	B									
15	600	48-50	6"	B	40-44								Y-2	12"	B									
16	500	48-50	6"	B	44-48								Y-2	12"	B									
17	500	48-50	6"	B	48-52								Y-2	12"	B									
18	500	48-50	6"	B	52-56								Y-2	12"	B									
19	500	48-50	6"	B	56-57								Y-2	12"	B									
20																								
21	700	48-50	6"	B	40-42								Y-2	12"	B									
22	500	48-50	6"	B	42-44								Y-2	12"	B									
23	500	48-50	6"	B	44-46								Y-2	12"	B									
24																								
25	500	48-50	6"	B	46-48								Y-2	12"	B									
26	500	48-50	6"	B	48-50								Y-2	12"	B									
27																								
28	600	48-50	6"	B	50-52								Y-2	12"	B									
29	500	48-50	6"	B	52-56								Y-2	12"	B									
30	700	48-50	6"	B	40-44								Y-2	12"	B									
31																								

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 4.15. Additional documentation area on back of form.  
 Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.  
 Corrective Action: R = Restoring cover material, G = Grading, M = Compacting, S = Seeding  
 SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum allocated size of the working face. A 50 yd<sup>3</sup> soil stockpile is required within 100 ft of the Regulated Aesthetic-Containing Material (RACM) disposal area.  
 Signature certifies work accomplished as stated in the Cover Application Log.

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Hand entry description recording phase 3 During November 2014

1.14.15 Survey showing 219 old water installations

swaged pipes on phase 3

"Bubbling" area near X-Y covered. "Bubbling" near Well 5-53A (grid number 6) covered. B. Lloyd