

AIR CP_102610102_CP_20160404_Investigation_1323431_
Texas Commission on Environmental Quality
Investigation Report

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

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1323431

Incident Numbers

230424

Investigator: GABRIELLE LAMOREAUX

Site Classification MAJOR SOURCE

Conducted: 04/04/2016 -- 04/07/2016

NAIC Code: 562212

SIC Code: 4953

SIC Code: 1521

Program(s): AIR OPERATING PERMITS

Investigation Type: Compliance Investigation

Location: LOCATED ON 2200 FM 521

Additional ID(s): FG0536E
1472

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

Local Unit: REGION 12 - HOUSTON

Activity Type(s): AIRCOMPL - AIR CMPL - AIR
COMPLAINT INV

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Cell (713) 851-0506 Office (713) 676-7669 Fax (713) 676-7882
REGULATED ENTITY MAIL CONTACT	LANDFILL OPERATION'S MANAGER	MR MATT MONTAGNA	Fax (281) 835-6146 Cell (832) 347-9496 Office (281) 668-9739 Work (713) 676-7664

Other Staff Member(s):

Role	Name
Investigator	JESSICA FOX
Investigator	CARLOS GRIGGS
Investigator	CORBETT BRINLY
QA Reviewer	ALEJANDRA DE LOS SANTOS
Investigator	JOHN BREGGER
Supervisor	CORBETT BRINLY
Investigator	JUSTIN MAYWORN
Investigator	ROBERT MCLEOD

Associated Check List

Checklist Name

AIR COMPLAINT INVESTIGATION

AIR INVESTIGATION - EQUIPMENT

MONITORING AND SAMPLING revised 06/2013

Unit Name

Site Wide

Site Wide

Investigation Comments:

INTRODUCTION

Introduction

On the dates of March 31, April 1, April 4, and April 7, 2016, TCEQ received sixty-two (62) complaints by telephone and e-mail regarding a strong odor in the vicinity of Shadow Creek Ranch neighborhood in Pearland, Texas. The complaints were documented in TCEQ incident #230424.

Complainants were contacted via telephone and email by Ms. Gabrielle Lamoreaux on April 5, 2016. All complainants claimed that a very strong chemical and/or garbage odor was present either in the early morning (0000-0900) or in the evening (1800-2300). This odor has allegedly occurred intermittently, usually once or twice a week. Several complainants claimed that the odor has become stronger and more frequent in the last six to twelve months. The majority of complainants believed that the source of the odor is Blue Ridge Landfill (BRL), located at 2200 Farm to Market (FM) 521 road, and/or an unspecified chemical plant. Several complainants claimed various health effects such as nausea, headaches, eye irritation, breathing irritation, while others only expressed concern for their health.

In order to identify the most probable source and to determine whether a nuisance condition existed, the investigators conducted odor logs at various points near BRL at a distance that was approximately equidistant to the complainants' locations from the alleged source. Odors were assessed for frequency, intensity, duration, and offensiveness.

An area map is in Attachement 1. Focus areas are indicated by red squares.

As a note, the TCEQ previously conducted a Site Full Compliance Investigation (SFCI) at BRL on March 21, 2016, to assess compliance with applicable air quality requirements (Investigation #1314997).

Investigation Narrative

The investigation took place on April 4 and 7, 2016. The investigation was conducted by Ms. Gabrielle Lamoreaux, Mr. Carlos Griggs, Mr. Justin Mayworn, Ms. Jessica Fox, Mr. Kevin McLeod, Mr. Corbett Brinly, and Mr. John Bregger. The surrounding land use is a mix of residential, commercial, and industrial areas. The terrain is flat with sporadic forest. Meterological conditions for the alleged incident dates and investigation dates are as followed:

Meterological conditions March 27, 2016 (alleged incident date)

Cloud Cover: Mostly cloudy

Wind Direction: Northwest

Wind Speed: 5 miles per hour

Temperature: 69° Fahrenheit

Precipitation: 0.00 in

Source of Meterological Conditions: Weather Underground (KAXH)

Meterological conditions March 31, 2016 (alleged incident date)

Cloud Cover: Mostly cloudy

Wind Direction: South/ Southwest

Wind Speed: 5 miles per hour

Temperature: 76° Fahrenheit

Precipitation: 0.00 in

Source of Meterological Conditions: Weather Underground (KAXH)

Meterological conditions April 2, 2016 (alleged incident date)

Cloud Cover: Sunny

BLUE RIDGE LANDFILL - FRESNO

4/4/2016 to 4/7/2016 Inv. # - 1323431

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Wind Direction: Northwest
Wind Speed: 7 miles per hour
Temperature: 58° Fahrenheit
Precipitation: 0.00 in
Source of Meteorological Conditions: Weather Underground (KAXH)

Meteorological conditions April 3, 2016 (alleged incident date)
Cloud Cover: Sunny
Wind Direction: East/ Southeast
Wind Speed: 1 mile per hour
Temperature: 58° Fahrenheit
Precipitation: 0.00 in
Source of Meteorological Conditions: Weather Underground (KAXH)

Meteorological conditions April 4, 2016 (investigation date)
Cloud Cover: Partially cloudy
Wind Direction: South/ Southeast
Wind Speed: 1 mile per hour
Temperature: 62° Fahrenheit
Precipitation: 0.00 in
Source of Meteorological Conditions: Weather Underground (KAXH)

Meteorological conditions April 6, 2016 (alleged incident date)
Cloud Cover: Partly cloudy
Wind Direction: West
Wind Speed: 3 miles per hour
Temperature: 64° Fahrenheit
Precipitation: 0.00 in
Source of Meteorological Conditions: Weather Underground (KAXH)

Meteorological conditions April 7, 2016 (investigation and alleged incident date)
Cloud Cover: Sunny
Wind Direction: South
Wind Speed: 1 mile per hour
Temperature: 63° Fahrenheit
Precipitation: 0.00 in
Source of Meteorological Conditions: Weather Underground (KAXH)

April 4, 2016

At 9:45 a.m., investigators Ms. Lamoreaux and Mr. Griggs arrived in the Shadow Creek Ranch subdivision near the intersection of FM 2234 road and FM 521 road. The investigators surveyed the area including Crystal Cove, Edge Water, and Westhaven neighborhoods and Trinity Bay Drive, Kingsley Drive, and West Broadway Street (See attachment 3 – odor survey maps). No odors were detected. The investigators left the area at 10:45 a.m.

At 11:35 a.m, the investigators surveyed Quail Bridge and Ridgemont neighborhoods. This included Court Road, Raven Ridge Drive, and Park Manor Street (See attachment 3). No odors were detected. The investigators left the area at 12:20 p.m.

April 7, 2016

At 5:34 a.m., the investigators, Ms. Lamoreaux, Mr. Bregger, Mr. Brinly, Ms. Fox, Mr. McLeod, and Mr. Mayworn arrived at the alleged area in three vehicles. At this time, the investigators experienced a petroleum odor off of TX-288 and Shadow Creek Parkway. The investigators traveled west on Shadow Creek Parkway and the odor continued for a few minutes. The investigators stopped off of Shadow Creek Parkway between Trinity Bay Drive and Alameda Road for several minutes. The investigators detected a light honeysuckle odor, which was determined to be the landfill odor control. The investigators traveled west on Shadow Creek Parkway to about Sidonie Drive. No odor was detected. The investigators turned around to Alameda Road. A landfill odor similar to rotting garbage was detected at the intersection of Alameda Road and Shadow Creek Parkway.

At 5:52 a.m., the odor was still present as the investigators drove south on Alameda Road and stopped at 810 FM

521 road. The odor was a strong landfill odor. The investigators left at the site at 5:57 a.m.

At 6:00 a.m., the investigators stopped at the mercaptan station off of Alameda Road. A very light landfill odor was detected. Ms. Laurie Rodriguez, Pretreatment Coordinator for City of Pearland, arrived shortly afterwards and discussed with the investigators about incoming complaints. Mr. Matt Montagna, Landfill Operation's Manager, saw the investigators and stopped at the mercaptan station. Mr. Montagna discussed with the investigators about the odors and how the landfill was spraying an odor control substance. The investigators split into three teams and left the site at 6:20 a.m.

At 6:22 a.m., investigators Ms. Lamoreaux and Mr. Mayworn stopped on the east side of Alameda Road to conduct an odor survey (See attachment 2 – Investigators' Odor Logs). A moderate to strong landfill odor was detected, but after several minutes it became very light to light. The odor survey ended and the investigators left at 6:40 a.m.

At 6:30 a.m., investigators Mr. Brinly and Mr. Bregger detected a garbage odor at Laura Ingalls Wilder Elementary located at 2225 Kingsley Drive. The investigators returned to the school at 6:40 a.m. but did not detect any odor. They left the site at 6:50 a.m.

At 6:33 a.m., investigators Mr. McLeod and Ms. Fox conducted a one hour odor survey on Laurel Loch Lane (See attachment 2). A light to moderate landfill/ garbage odor was detected. The odor was not of sufficient frequency, intensity, duration, and offensiveness to confirm a nuisance condition. The investigators left the site at 7:37 a.m.

At 6:40 a.m., investigators Ms. Lamoreaux and Mr. Mayworn stopped at 810 FM 521 road and conducted a one hour odor survey (See attachment 2). The offensive landfill odor was moderate. Towards the end of the survey, a honeysuckle odor was detected, which was determined to be the odor control from the landfill. The investigators also collected a 30 minute summa canister sample, from 6:53 a.m. to 7:23 a.m. The investigators left the site at 7:45 a.m.

At 6:55 a.m., investigators Mr. Brinly and Mr. Bregger detected a sweet odor while driving south on Tarpon Bay Court.

At 7:03 a.m., the investigators detected a very light garbage odor at Swift Creek Drive and Beacon Springs. At 7:07 a.m., the investigators conducted a thirty minute odor survey at the intersection of Horizon View Lane and Swift Creek Drive. A very light to light garbage odor was detected. The odor was not of sufficient frequency, intensity, duration, and offensiveness to confirm a nuisance condition. The investigators left the site at 7:37 a.m.

At 7:57 a.m., investigators Ms. Lamoreaux and Mr. Mayworn detected a landfill odor at the intersection of Cambridge Bay Drive and Harborside Lane. The odor dissipated after a few minutes. The investigators left site at 8:00 a.m.

At 8:01 a.m., investigators Ms. Lamoreaux and Mr. Mayworn arrived at the end of Cayman Bend Lane. No odor was detected. The investigators left the site at 8:06 a.m.

At 8:07 a.m., investigators Ms. Lamoreaux and Mr. Mayworn arrived at Rolling Fog Drive and Fire Water Lane. A landfill odor was detected. The odor dissipated after a few minutes. The investigators left site at 8:14 a.m.

At 8:17 a.m., investigators Ms. Lamoreaux and Mr. Mayworn arrived at Trinity Bay Drive and Pebble Bay Drive. A garbage odor was detected. The odor was strong for a minute but became very light in a few minutes. The investigators left the site at 8:25 a.m.

At 8:28 a.m., investigators Ms. Lamoreaux and Mr. Mayworn joined Ms. Fox, Mr. McLeod, and Ms. Rodriguez of City of Pearland at Fountain Rock Drive and Arcadia Bay Drive. They had detected a strong chemical odor that the investigators characterized as fried onion, cabbage, burnt bread, sulfur, or garlic. The mixed odor dissipated rapidly, but was determined to be moving to the east. The investigators left the site at 8:33 a.m.

At 8:34 a.m., the investigators stopped at Shadowmere Drive and were joined by investigators Mr. Brinly and Mr. Bregger. A strong mixed fried onion/ cabbage odor was detected but faded after a few minutes. The investigators left at 8:40 a.m.

At 8:41 a.m., the investigators detected a strong mixed fried onion/ cabbage odor and stopped on the side Trinity Bay Drive. The investigators collected a 15 second grab sample with a summa canister at 8:42 a.m. The investigators and Ms. Rodriguez left the site at 8:48 a.m.

At 8:50 a.m., the investigators and Ms. Rodriguez arrived at Village of Diamond Bay Water Park. The investigators detected a moderate garbage odor. A 15 second grab sample was collected with a summa canister at 8:52 a.m. Ms. Rodriguez received information that a landfill odor was being detected at the waste water treatment plant. Ms. Rodriguez left to the landfill to determine if they were discharging leachate. The investigators left the site at 9:05 a.m.

At 9:12 a.m., the investigators arrived at the waste water treatment plant. The investigators met with Mr. Eric Wilson, Director of Public Works, from City of Pearland and Councilman Derrick Reed. The investigators went on top of the waste water treatment facility to observe the operations and assess the odors. Faint landfill odors were detected intermittently by some investigators. Ms. Rodriguez arrived on-site and mentioned that BRL did not discharge their leachate system. The investigators left the site at 9:55 a.m.

At 10:29 a.m., investigators Ms. Lamoreaux and Mr. Mayworn detected a rotting fish/garbage odor from Kirby Drive and Spectrum Boulevard. The investigators joined Ms. Fox and Mr. McLeod near 14822 Hooper Road. Ms. Fox and Mr. McLeod left the site at 10:34 a.m. Ms. Lamoreaux and Mr. Mayworn stopped and collected a 15 second grab sample in a summa canister across the street from Syntech Chemicals and Brenntag Southwest at 10:39 a.m. Investigators left the site at 10:40 a.m.

The actual source of the garbage/trash and honeysuckle odors were determined to be BRL. During the investigation, the strongest landfill odor was a moderate offensive odor that last about one hour. A single occurrence nuisance for an offensive odor must be very strong for four hours or strong for 12 hours. Based on the Frequency, Intensity, Duration, and Offensiveness (FIDO) chart, a nuisance could not be confirmed.

The presence and concentrations of Volatile Organic Compounds (VOCs) were analyzed in the 15 second grab samples. The short duration of the samples was insufficient for evaluating for potential health effects. The presence and concentrations of VOCs were also analyzed in the 30 minute sample. The VOCs were either not detected or were detected below their respective short-term air monitoring comparison values. These levels of VOCs are not expected to cause short-term adverse health effects. However, because of a leak check failure, the data may not be representative of concentrations present during sampling.

Exit Interview

An exit interview was not conducted since there were no alleged violations, additional issues, or records requested.

In addition, the complainants were contacted by phone with the results of the investigation April 11, 12, 13, and 14, 2016. Several of the complainants were anonymous and were not contacted.

GENERAL FACILITY AND PROCESS INFORMATION

Process Description

Blue Ridge Landfill accepts waste and has a gas collection and control system. Detailed process descriptions can be found in the Houston Region files.

BACKGROUND

Agreed Orders, Court Orders, and Other Compliance Agreements

Based on review of CCEDS and the regional office files, there were no agreed orders, court orders, or other compliance agreements for the site.

Prior Enforcement Issues

Based on a review of CCEDS and the regional office files, violations were issued by the TCEQ to the alleged source

during the past five years. There are no repeat violations.

Complaints

Based on a review of CCEDS, there were forty-one complaint incidents filed against the regulated entity for the past five years. Many of these incidents include complaints received from multiple complainants.

ADDITIONAL INFORMATION

Conclusions, Recommendations, and Current Enforcement Actions

Based on this investigation, no violations are being alleged.

Additional Issues

No additional issues were noted during this investigation.

REPORT ATTACHMENTS

1. Area Map
2. Investigators' Odor Logs
3. Odor Survey Route Maps
4. TCEQ Odor Investigation Checklist

No Violations Associated to this Investigation

Signed



Environmental Investigator

Date

6/8/2016

Signed



Supervisor

Date

6-9-2016

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

✓ 1,3

✓ Maps, Plans, Sketches

___ Photographs

___ Correspondence from the facility

✓ Other (specify) :

2. Investigators' Odor Logs

4. TCEQ Odor Investigation
checklist.

Investigation # 1323431

Blue Ridge Landfill

FG-0536-E

CN 602820599

RN 102610102

April 7, 2016

Attachment 1: Area Map



Investigation Type: CNPU
Air Account NO: FG-0536-E
Attachment: 1
Page: 1 of 1

Investigation # 1323431

Blue Ridge Landfill

FG-0536-E

CN 602820599

RN 102610102

April 7, 2016

Attachment 2: Investigators' Odor Logs

Investigator's Odor Intensity Time Log

Date of Investigation: 4/7/2016 Start Time 6:23 am
 Name and Address of Alleged Source: Blue Ridge Landfill
 Investigator's Name: Print: Gabrielle Lamoreaux Sign: [Signature]

Minutes	Odor Intensity VL, L, M, S, VS
1 min	M
2	M
3	S
4	L
5	VL
6	VL
7	VL
8	L
9	L
10	L
11	VL
12	VL
13	VL
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	
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41	
42	
43	
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59	
60	

Near
traffic,
subdivision
&
landfill

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____
 Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min		✓				
10 Min				✓		
1 Hour	N/A					

Investigation Type: CMPL
 Air Account NO: FG-0536-E
 Attachment: 2
 Page: 1 of 18

Blank

Investigation Type: CMPL

Air Account NO: FG-0536-E

Attachment: 2

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Investigation Type:

Air Account NO:

Attachment:

Page:

~~#030481~~ #1323431
Investigator's Odor Intensity Time Log

Date of Investigation: 4/7/16 Start Time 0622
Name and Address of Alleged Source: Near Mercantile Station
Investigator's Name: Print: Justin Mayworn Sign: [Signature]

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

622

6:39

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 _____
Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min		<input checked="" type="checkbox"/>				
10 Min				<input checked="" type="checkbox"/>		
1 Hour	N/A					

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 2
Page: 3 of 18

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Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 2
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#132 3431

Investigator's Odor Intensity Time Log

Date of Investigation: April 17, 2010

Start Time 6:33

Name and Address of Alleged Source: 29.57034N; 95.435353W

Investigator's Name: Print: Jessica Fox

Sign: 

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

B: 90

Minutes	Odor Intensity VL, L, M, S, VS
31 min	L
32	M
33	S
34	S
35	3
36	3
37	3
38	3
39	L
40	L
41	L
42	3
43	L
44	L
45	L
46	L
47	VL
48	VL
49	1
50	1
51	1
52	1
53	1
54	3
55	VL
56	VL
57	1
58	1
59	1
60	1

7:33

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min		<input checked="" type="checkbox"/>				
10 Min			<input checked="" type="checkbox"/>			
1 Hour			<input checked="" type="checkbox"/>			

Investigation Type: CNPL

Air Account NO: FG-0536-E

Attachment: 2

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3 3 2

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Investigation Type: CMPL
Air Account NO: FG-0536-E
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Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 2
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Investigator's Odor Intensity Time Log

Date of Investigation: 9/7/16 Start Time 0633
 Name and Address of Alleged Source: 29.570318, W 95.4353853
 Investigator's Name: Print: Kevin McLeary Sign: PMK/MJL

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	M
32	S
33	S
34	M
35	M
36	L
37	VL
38	-
39	-
40	-
41	VL
42	VL
43	-
44	VL
45	VL
46	-
47	-
48	-
49	-
50	-
51	-
52	-
53	-
54	-
55	-
56	-
57	-
58	-
59	-
60	-

Winds coming
 N55W

Landfill
 Garbage
 odor

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min		<input checked="" type="checkbox"/>				
10 Min			<input checked="" type="checkbox"/>			
1 Hour						

Investigation Type: CMPL
 Air Account NO: FG-0536-E
 Attachment: 2
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Investigation Type: CML

Air Account NO: FG-0536-E

Attachment: 2

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Investigator's Odor Intensity Time Log

Carroll
lock

Date of Investigation: 4/7/2016 Start Time 6:40am
 Name and Address of Alleged Source: Blue Ridge Landfill
 Investigator's Name: Print: Gabrielle Lamoreaux Sign: [Signature]

8:30
Bell

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	M
32	M
33	M
34	M
35	L
36	M
37	M
38	L
39	M
40	M
41	L
42	L
43	L
44	L
45	M
46	M
47	M
48	L
49	M
50	M
51	L
52	L
53	L
54	L
55	L
56	L
57	L
58	VL
59	VL
60	VL

640
Bob Mercer
at
Pittsburgh
Company

w/branch
6:10 in the
at
6:48 am

6:47 am
received
by

Opened
at
6:53
am

North
north
west
wind
direction
↓
but almost
no
wind
very
cloud coverage

0.04 psia

0.08144
in

Hg.

right after
sampling
7:27 am
17.73
in

Bent sue II
included.

close @
7:23
am

Honeyuckle

740

Offensiveness: Highly Offensive Unpleasant Not Unpleasant
 Dominant Odor Intensity For:

	VS	S	M	L	Investigation Type: <u>CNPL</u>
1 Min			✓		Air Account NO: <u>FG-0536-E</u>
10 Min			✓		Attachment: <u>2</u>
1 Hour			✓		

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landfill eel smell - landfill gas
 810 FM 521 Fresno, TX
 NO 580

Blank

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 2
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Investigation Type: _____
Air Account NO: _____
Attachment: _____
Page: _____ of _____

Investigator's Odor Intensity Time Log

Date of Investigation: April 7, 2016 Start Time 7:07 a.m.
 Name and Address of Alleged Source: Horizon View & Swift Creek
 Investigator's Name: Print: John Breyer Sign: _____

7:07

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	L
3	M
4	L
5	VL
6	VL
7	VL
8	M
9	m
10	L
11	M
12	M
13	M
14	L
15	L
16	L
17	M
18	L
19	L
20	VL
21	VL
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	
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40	
41	
42	
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57	
58	
59	
60	

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____
 Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min			✓			
10 Min			✓			
1 Hour	N/A					

Investigation Type: CMPL
 Air Account NO: FG-0536-E
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Blank

Investigation Type: CNPL

Air Account NO: FG-0536-E

Attachment: 2

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Horizon View
8 Swift Creek

Investigator's Odor Intensity Time Log

Date of Investigation: 4-7-2016

Start Time 7:07am

Name and Address of Alleged Source: Blue Ridge Landfill

Investigator's Name: Print: Corbett Brinkley

Sign: Corbett Brinkley

Minutes	Odor Intensity VL, L, M, S, VS
1 min	Light
2	VL
3	Light
4	VL
5	VL
6	VL
7	L
8	Strong
9	VL
10	Mod
11	Mod
12	Light
13	Light
14	VL
15	Mod
16	Light
17	Light
18	VL
19	VL
20	VL
21	VL
22	VL
23	VL
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

Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min		✓				
10 Min				✓		
1 Hour	N/A					

Investigation Type: CNPL

Air Account NO: FG-0536E

Attachment: 2

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Blank

Investigation Type: CNPL
Air Account NO: FG-0536-E
Attachment: 2
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Investigator's Odor Intensity Time Log

Date of Investigation: 4/7/2016 Start Time 7:57 8:07 AM
 Name and Address of Alleged Source: Blue Ridge Landfill
 Investigator's Name: Print: Gabrielle Lamoreaux Sign: [Signature]

8:00 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	VL
3	—
4	—
5	VL
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	

~~Intersection of Cambridge Bay Dr. & Harborside Lane~~
 rolling fog Dr
 &
 firewater lane

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____
 Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min				✓		
10 Min	N/A					
1 Hour	N/A					

Landfill gas smell

Investigation Type: CMPL
 Air Account NO: FG-0536-E
 Attachment: 2
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Blank

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 2
Page: 16 of 18

Investigator's Odor Intensity Time Log

Date of Investigation: 4/7/2016 Start Time 8:17am
 Name and Address of Alleged Source: BWE Ridge, Lang Hill
 Investigator's Name: Print: Gabrielle Lamond Sign: [Signature]

also
from my beater
Sweet

Minutes	Odor Intensity VL, L, M, S, VS
1 min	S
2	M
3	L
4	VL
5	VL
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	

Left
at
8:25

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	

Trinity
Bay &
Pebble
Bay
Bridge

Garbage

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____
 Dominant Odor Intensity For:

	VS	S	M	L	VL	No Odor
1 Min		<input checked="" type="checkbox"/>				
10 Min	N/A					
1 Hour	N/A					

Investigation Type: CMP
 Air Account NO: FG-0536-E
 Attachment: 2
 Page: 17 of 18

Fountain Rock Dr & Arcadia Bay Dr

Blank

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 2
Page: 18 of 18

Investigation Type:

Air Account NO:

Attachment:

Page:

Investigation # 1323431

Blue Ridge Landfill

FG-0536-E

CN 602820599

RN 102610102

April 7, 2016

Attachment 3: Odor Survey Route Maps

Investigation Date:
April 4, 2016

Investigation Type: Cyber
Air Account NO. FG-0536-E

Attachment: 3Page: 1 of 7

Wydział Chemii

9

TO:
FROM:
SUBJECT:
DATE:

Blank

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 3
Page: 2 of 7




Investigation Date:
April 4, 2016



Investigation Type: CuPL
Air Account NO: FG-0536-E
Attachment: 3
Page: 3 of 7

Page: 4 of 7

Investigation Date:
April 7, 2016

-  Odor Detected
-  Sample Collected
-  Survey Route



Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 3
Page: 5 of 7

Blank

Investigation Type: CMRL

Air Account NO: FA-0536-E

Attachment: 3

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UNIT 9-10-2021
DM JUDSON, SA
JUDSON, SA
to: 1069

Investigation Date:
April 7, 2016

-  Odor Detected
-  Sample Collected
-  Survey Route



Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 3
Page: 7 of 7

Investigation # 1323431

Blue Ridge Landfill

FG-0536-E

CN 602820599

RN 102610102

April 7, 2016

Attachment 4: TCEQ Odor Investigation Checklist

TCEQ- ODOR INVESTIGATION CHECKLIST

Investigators Name: Gabrielle Lamoreaux

Investigation Date: April 4 and 7, 2016

SITE INFORMATION

Regulated Entity: Blue Ridge Landfill

Address/Location: 2200 FM 521 RD, Fresno Tx 77545 (Fort Bend county)

Regulated Entity No.: 102610102

HEALTH EFFECTS

INVESTIGATOR (During Investigation):

- ☐ Nausea ☐ Headache ☐ Irritation: (Skin Eyes Nose Throat)
☐ Dizziness ☐ Breathing Difficulty
☐ Other NA

COMMENTS:

COMPLAINANT (historical):

- ☒ Nausea ☒ Headache ☒ Irritation: (Skin Eyes Nose Throat)
☐ Dizziness ☐ Breathing Difficulty
☒ Other Breathing Irritation

COMMENTS:

Complainants expressed concern for their health.

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 4
Page: 1 of 2

NUISANCE ODORS

Odor Detected: ☒ Yes ☐ No (if no, skip to Narrative)

ODOR OFFENSIVENESS:

Highly Offensive

☒ Offensive

Unpleasant

Not unpleasant

TYPE/DESCRIPTION OF ODOR:

The main odor detected was landfill gas. There was also garbage odor, a rotting fish/garbage odor, and a strong fried onion/ cabbage odor.

ODOR INTENSITY (Landfill gas odor)

Dominant Odor Intensity For:

	Very Strong	Strong	Medium	Light	Very Light	N/A
1 Min.		x				
10 Min.			x			
1 Hr.			x			

ODOR

FREQUENCY:

Single Event	Daily	Weekly	Monthly	Quarterly
	x			

NARRATIVE

Complainant Odor Log given to complainant: YES ☒ NO

Complainant Odor Log attached: YES ☒ NO

COMPLAINANT COMMENTS:

NA

INVESTIGATOR COMMENTS:

NA

Investigation Type: CMPL
Air Account NO: FG-0536-E
Attachment: 4
Page: 2 of 2