

AIR CP_102610102_CP_20160607_INVESTIGATION_1337777_
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 # 1337777

Incident Numbers

Investigator: ALEJANDRA DE LOS SANTOS

Site Classification MAJOR SOURCE

Conducted: 06/07/2016 -- 06/08/2016

NAIC Code: 562212

SIC Code: 4953

SIC Code: 1521

Program(s): AIR OPERATING PERMITS

Investigation Type: Site Assessment

Location: LOCATED ON 2200 FM 521

Additional ID(s):

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

Local Unit: REGION 12 - HOUSTON

Activity Type(s): FIAIRODOR - AIR FIAIRODOR - FOC
INV ODOR SURVEY

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
REGULATED ENTITY MAIL CONTACT	LANDFILL OPERATION'S MANAGER	MR MATT MONTAGNA	Work (713) 676-7664 Office (281) 668-9739

Other Staff Member(s):

Role	Name
QA Reviewer	GABRIELLE LAMOREAUX
Investigator	CAMERON DEWS
Supervisor	CORBETT BRINLY

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
AIR FOCUSED INVESTIGATION - ODOR SURVEY	Blue Ridge Landfill

Investigation Comments:

INTRODUCTION/ INVESTIGATION SUMMARY

Introduction

On June 7th and 8th, 2016, Ms. Alejandra De Los Santos and Mr. Cameron Dews of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted a focused odor survey investigation in the

BLUE RIDGE LANDFILL - FRESNO

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Shadow Creek Ranch Subdivision, in Pearland, and in Fort Bend, Brazoria, and Harris counties in the vicinity of Shadow Creek Ranch. The purpose of this investigation (Investigation Typecode FI AIR ODOR) was to survey the area for odor sources.

Investigation Narrative

The investigation took place on June 7th and 8th, 2016. The surrounding land use is a mix of residential, industrial, and commercial areas. The terrain is flat with sporadic forest. The range of meteorological conditions during the investigation are described below. All data was taken from the Weather Channel, Shadow Creek Ranch – Gables station (KTXPEARL43). The temperatures ranged from 90 °F to 91 °F, cloud cover was clear, the precipitation was 0.0 inches (in), wind speed varied from 1 – 10 miles per hour (mph), and winds coming from the east-northeast (ENE) and east (E) prevailed during the investigation.

The investigators arrived at 9015 W Broadway St., Pearland, Texas at 8:00 PM, and met with Mr. Tom Randolph, Mr. Manuel Gonzalez, Ms. Maria Tran, Mr. Nathan Hoppens and Ms. Peyton Pearce, the TCEQ Monitoring Division, Strategic Sampling Work Group.

At 8:24 PM, the investigators arrived at the Village of Diamond Bay Water Park in the Shadow Creek Ranch Subdivision (Attachment 1 – Location A). After surveying the area and organizing with the Monitoring Division, the investigators departed the site. No odors were detected.

At 9:28 PM, the investigators arrived at 8001 McHard Road (Attachment 1 – Location B). The investigators started an odor log when a rotten garbage odor was detected (See Attachment 2 – Investigators' Odor Logs). The Frequency, Intensity, Duration and Offensiveness (FIDO) chart characterizes the rotten garbage/landfill waste odor as offensive. The odor dissipated within 15 minutes after starting the odor log. The strongest one minute odor intensity was strong, and the 10 minute weighted average intensity was light. The investigators left the site and drove south on Alameda Road. A very light honeysuckle odor was detected for a few seconds while driving. The FIDO chart characterizes the honeysuckle odor as not unpleasant.

At 9:52 PM, the investigators stopped at Ginger Cove Lane (Attachment 1 – Location C), but no odors were detected.

At 10:05 PM, the investigators stopped at 8300 McHard Road (Attachment 1 – Location D). The investigators started an odor log since rotten garbage and honeysuckle odors were detected. The odors dissipated after 7 minutes of starting the odor log. The strongest one minute odor intensity was light.

At 11:54 PM, the investigators stopped at 8634 McHard Road (Attachment 1 – Location E) and started an odor log since a rotten garbage odor was detected. The odor dissipated within 15 minutes of starting the odor log. The strongest one minute odor intensity was strong, and the 10 minute weighted average intensity was light. Since the odor was no longer detectable, the investigators left the site to survey the neighborhood.

At 12:22 AM, the investigators stopped at the end of Lost Bridge Lane (Attachment 1 – Location F). Rotten garbage and honeysuckle odors were detected at the site. The investigators started an odor survey. The odors were not constant since there were two 5 minute periods when odors were not detected. The survey lasted 50 minutes. The strongest one minute odor intensity was very strong, and the 10 minute weighted average intensity was light.

At 1:20 AM, the investigators met with the Monitoring Division at the intersection of Lost Creek Drive and Lost Bridge Lane (Attachment 1 – Location G). Rotten garbage and leachate odors were noted upon arrival. The FIDO chart characterizes the honeysuckle odor as highly offensive. The investigators started an odor log, but the rotten garbage and leachate odors dissipated within 20 to 25 minutes. The strongest one minute odor intensity was strong, and the 10 minute weighted average intensity was light.

At 2:25 AM, the investigators stopped at 3626 Bluebonnet Drive (Attachment 1 – Location H) because a strong rotten egg odor was detected, but it quickly dissipated before an odor log was started.

At 2:32 AM, the investigators drove south on Alameda Road. Strong leachate and strong rotten garbage odors were noted while driving, but again quickly dissipated.

At 3:00 AM, the investigators stopped at the intersection between Bluebonnet Drive and Feld Drive (Attachment 1

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– Location I). The investigators met with the Monitoring Division again. While exchanging information with the Monitoring Division, the investigators noticed a garbage truck driving south on Alameda Road. Thirty minutes later, investigators noticed a second garbage truck driving in the same direction as the previous one. The investigators decided to see if Blue Ridge Landfill (BRL) was receiving waste because they had been previously informed that BRL doesn't open its gates until 5 AM.

At 3:45 AM, the investigators arrived at the entrance of BRL (Attachment 1 – Yellow Circle) and noticed that the BRL gates were open.

At 3:55 AM, the investigators stopped at Pebble Falls Lane (Attachment 1 – Location J) and noticed a very strong rotten garbage odor. The odor dissipated within 5 minutes.

At 4:05 AM, the investigators drove into BRL. The investigators arrived at the scalehouse and noticed several garbage trucks lined up. The investigators then drove into the landfill following the garbage trucks and parked south of the working phase. The investigators observed garbage trucks unloading at the working phase and one bulldozer spreading the garbage out.

At 4:12 AM, the investigators returned to the scalehouse. The investigators met a person who identified himself as a garbage truck driver. The truck driver told the investigators that they were currently dumping garbage and spreading it out with the bulldozer. The truck driver also indicated that at the end of the day the garbage is covered with dirt. The investigators asked if there was anyone else present at the weigh station who they could talk to. The truck driver stated that nobody else was there. The investigators left the landfill at approximately 4:15 AM.

The investigators then met with the Monitoring Division to inform them about the discoveries at BRL.

At 4:42 AM, the investigators stopped at Leafwood Lane and Timber Ridge Drive (Attachment 1 – Location K). A rotten garbage odor was detected for about 5 minutes and then dissipated. The strongest one minute odor intensity was very light.

At 5:43 AM, the investigators then drove north on Alameda Road. A very strong rotten garbage odor was detected. The investigators were not able to stop since traffic was too heavy at the time.

At 5:52 AM, the investigators returned to Blue Bonnet Street (Attachment 1 – Location H). A strong rotten egg odor was detected again but dissipated rapidly.

At 6:00 AM, the investigators drove along McHard Road. No odors were detected.

At 6:15 AM, the investigators left the Shadow Creek Ranch area.

Exit Interview

An exit interview was not conducted.

GENERAL FACILITY AND PROCESS INFORMATION

Process Description

Blue Ridge Landfill is a municipal solid waste landfill with a landfill gas collection and control system.

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 related to air quality violations for the site.

Prior Enforcement Issues

Based on a review of CCEDS and the regional office files, no violations related to air quality were issued by the

BLUE RIDGE LANDFILL - FRESNO

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TCEQ to the alleged source during the past five years.

Complaints

Based on a review of CCEDS and regional office records, there have been hundreds of odor complaints received from within the survey area and numerous investigations related to odors. At the time of the review, multiple related odor investigations were being conducted by the Region 12 office.

ADDITIONAL INFORMATION

Conclusions, Recommendations, and Current Enforcement Actions

A rotten garbage odor was the primary odor detected during the investigation. The FIDO chart characterizes the rotten garbage/landfill waste odor as offensive. The strongest one minute rotten garbage odor intensity was very strong, and the strongest 10 minute weighted average intensity was light. A highly offensive leachate odor was also briefly detected. The strongest one minute odor intensity was strong, and the 10 minute weighted average intensity was light.

Additional Issues

No additional issues were noted during this investigation.

REPORT ATTACHMENTS

1. Odor Survey Route Maps
2. Investigators' Odor Logs

No Violations Associated to this Investigation

Signed



Environmental Investigator

Date

9/21/16

Signed



Supervisor

Date

10-21-2016

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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

X Other (specify) :

odor survey Route Map

Investigators' odor logs

**Attachment 1:
Survey Route Map**

Blue Ridge Landfill TX, LP

FG-0536-E


2200 FM 521 RD, Fresno, TX 77545

RN 102-610-102

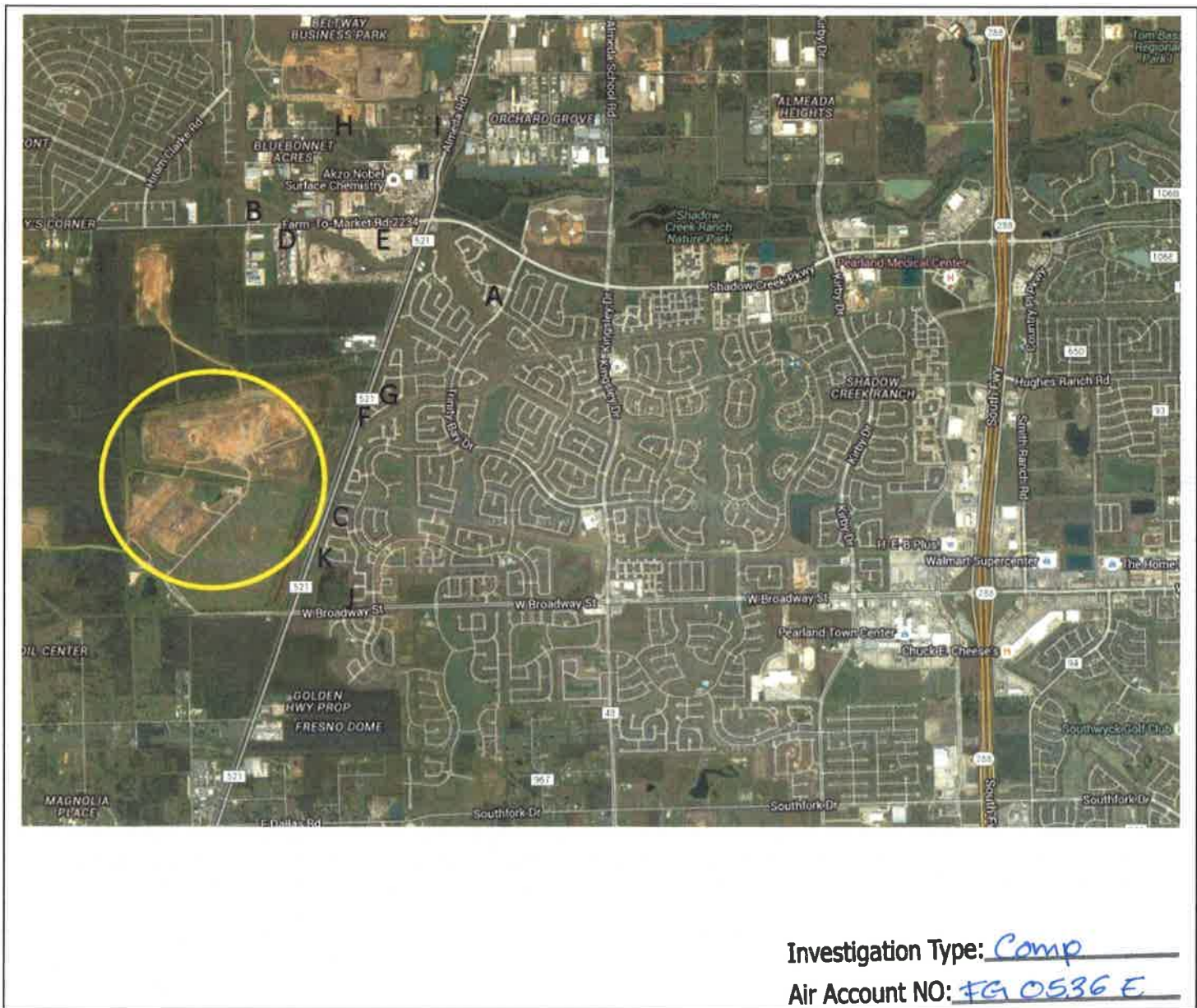
Date: June 7, 2016

Odor Survey Route Map

Weather

Conditions:	Clear	Partly Cloudy	Cloudy	Overcast	Rain			
Wind Speed:	1 to 10 mph		Wind From: ENE	NW	NNW	N	NNE	NE
Temperature:	90 - 91 °F			WNW				ENE
Humidity:	<u>98</u> % RH			W				E
				WSW				ESE
				SW	SSW	S	SSE	SE

► Diagram



**Attachment 2:
Investigators' Odor Logs**

Blue Ridge Landfill TX, LP

FG-0536-E

2200 FM 521 RD, Fresno, TX 77545

RN 102-610-102

Date: June 7, 2016

Investigator's Odor Intensity Time Log

Date of Investigation: 6/7/16

Start Time 9:30

Name and Address of Alleged Source: BRL - located at 8001 McHard Rd

Investigator's Name: Print: A. De Los Santos

Sign: [Signature]

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	VL
3	—
4	—
5	— Smelled stopped.
6	S = Landfill
7	M
8	M
9	L
10	L
11	L
12	VL
13	VL
14	VL
15	VL
16	VL → stopped. No more smell.
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	

L = landfill

10:05 pm
3300 McHard Rd

10:19 pm

10:15 min

10:20

Weighted
Average

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						

Investigation Type: Comp

Air Account NO: FG-0536-E

Attachment: 2

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NA

Investigator's Odor Intensity Time Log

Date of Investigation: 6/8/16 Start Time 11:55pm
 Name and Address of Alleged Source: BRL - Flexicare of TX (entrance).
 Investigator's Name: Print: A. De Los Santos Sign: [Signature]

11:55pm
 Flexicare of
 Texas entrance

12:00am
 6°F

12:05

12:15

Minutes	Odor Intensity VL, L, M, S, VS
1 min	S = Landfill smell
2	M
3	VL
4	M
5	M
6	—
7	E
8	—
9	VL
10	M
11	—
12	—
13	VL
14	VL
15	—
16	—
17	— Stopped odor log.
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	

L = landfill

Weighted
 Average

NA

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						

Investigation type: Camp
 Air Account NO: FG 0536 E
 Attachment: 2
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Investigator's Odor Intensity Time Log

Date of Investigation: 6/8/16 Start Time 12:25 am
 Name and Address of Alleged Source: BRL
 Investigator's Name: Print: D. De Los Santos Sign: AD

12:25 am
 End of last
 bridge Ln

12:30 am

12:41
 wind mostly
 from west
 mph

12:48 am

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

1:00

1:10 am

15

20

12:25 am

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

L = landfill
 HS = home side

Weighted
 Average

NA

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						

Investigation Type: Comp

Air Account NO: EG0536 E

Attachment: 2

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Investigator's Odor Intensity Time Log

Date of Investigation: 6/8/16 Start Time 1:20 am
 Name and Address of Alleged Source: BRL
 Investigator's Name: Print: A. De las Santos Sign: [Signature]

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

Lead
smell

Minutes	Odor Intensity VL, L, M, S, VS
31 min	Strong (L)
32	Light (L)
33	Light (L)
34	VL (L)
35	—
36	—
37	
38	
39	
40	
41	
42	
43	
44	
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55	
56	
57	
58	
59	
60	

L = landfill

1:30 am

1:40 am

Offensiveness: Highly Offensive ☒ Unpleasant Not Unpleasant

Weighted
Average

Dominant Odor Intensity For:

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

NA

Investigation Type: Camp

Air Account NO: FG 0536 E

Attachment: 2

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Investigator's Odor Intensity Time Log

Date of Investigation: 6/8/16 Start Time 9:50
 Name and Address of Alleged Source: BRL
 Investigator's Name: Print: A. De las Santos Sign: AS

Minutes	Odor Intensity VL, L, M, S, VS
1 min	VL (L) Trash/garbage
2	VL (L)
3	—
4	VL (L)
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	
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56	
57	
58	
59	
60	

Offensiveness: Highly Offensive X Unpleasant Not Unpleasant

Dominant Odor Intensity For:

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

Investigation Type: Comp
 Air Account NO: FG 0536 E
 Attachment: 2
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Weighted
Average

NA
NA

Investigator's Odor Intensity Time Log

Date of Investigation: 06-07-16

Start Time

~~06:00~~ 10:07

Name and Address of Alleged Source: Box 83

Investigator's Name: Print: Cameron

Denz

Sign:

[Signature]

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	L
3	L
4	VL
5	VL
6	L
7	L
8	1/A
9	1/A
10	1/A
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	
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56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive X Unpleasant _____ Not Unpleasant _____

Dominant Odor Intensity For:

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

Weighted Average

NA

Investigation Type: Camp

Air Account NO: IG 0536 E

Attachment: 2

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Investigator's Odor Intensity Time Log

Date of Investigation: _____

Start Time 11:57pm

Name and Address of Alleged Source: Flexicare of Texas

Investigator's Name: Print: Cameron Davis

Sign: Cameron

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	L
3	L
4	M
5	M
6	VL
7	VL
8	L
9	NO
10	NO
11	NO
12	NO
13	NO
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	
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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						

Weighted Average

NA

Investigation Type: Came

Air Account NO: FG 0536 E

Attachment: 2

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Investigator's Odor Intensity Time Log

Date of Investigation: _____ Start Time 12:25
 Name and Address of Alleged Source: Los Bridge Ave
 Investigator's Name: Print: Cameron Dens Sign: C.Dens

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	VL
32	VL
33	VL
34	VL
35	NO
36	VL
37	VL
38	VL
39	NO
40	VL
41	VL
42	VL
43	VL
44	NO
45	NO
46	L
47	L
48	VL
49	VL
50	VL
51	VL
52	VL
53	VL
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						

Weighted Average

NA

Investigation Type: camp

Air Account NO: FG0536 E

Attachment: 2

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Investigator's Odor Intensity Time Log

Date of Investigation: _____ Start Time 1:25
 Name and Address of Alleged Source: Lost Ridge, Lost Creek
 Investigator's Name: Print: Cameron Deans Sign: Cameron

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

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted
Average

Dominant Odor Intensity For:

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

NA

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

Date of Investigation: _____ Start Time 2:40 3:55 AM

Name and Address of Alleged Source: _____

Investigator's Name: Print: Cameron Davis Sign: 2:40 CD

Minutes	Odor Intensity VL, L, M, S, VS
1 min	✓ S
2	S
3	S
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	
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42	
43	
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53	
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55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive α Unpleasant _____ Not Unpleasant _____

Dominant Odor Intensity For:

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

Weighted Average:

NA
NA

Investigation Type: comp

Air Account NO: FG 0536 E

Attachment: 2

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