

AirCP\_102610102\_CP\_20160607\_INVESTIGATION\_1337792\_  
**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 #** 1337792

**Investigator:** GREGORY CROOK

**Conducted:** 06/06/2016 -- 06/07/2016

**Program(s):** AIR OPERATING PERMITS

**Investigation Type:** Site Assessment

**Additional ID(s):** FG0536E  
1472

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

**Incident Numbers**

**Site Classification** MAJOR SOURCE

**NAIC Code:** 562212

**SIC Code:** 4953

**SIC Code:** 1521

**Location:** LOCATED ON 2200 FM 521

**Local Unit:** REGION 12 - HOUSTON

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

**Principal(s):**

<b>Role</b>	<b>Name</b>
RESPONDENT	BLUE RIDGE LANDFILL TX LP

**Contact(s):**

<b>Role</b>	<b>Title</b>	<b>Name</b>	<b>Phone</b>
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR MAIT MONTAGNA	Work (713) 676-7664 Fax (281) 835-6146 Office (281) 668-9739 Cell (832) 347-9496

**Other Staff Member(s):**

<b>Role</b>	<b>Name</b>
QA Reviewer	JOSEPH DOBY
QA Reviewer	SAMUEL CORTEZ
Supervisor	JOSEPH DOBY
Investigator	SAMUEL CORTEZ

**Associated Check List**

<b><u>Checklist Name</u></b>	<b><u>Unit Name</u></b>
AIR FOCUSED INVESTIGATON - ODOR SURVEY	Blue Ridge Landfill
AIR INVESTIGATION - EQUIPMENT	Blue Ridge Landfill
MONITORING AND SAMPLING revised 06/2013	

**Investigation Comments:**

## BLUE RIDGE LANDFILL - FRESNO

6/6/2016 to 6/7/2016 Inv. # - 1337792

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### INTRODUCTION/ INVESTIGATION SUMMARY

#### Introduction

On June 6 through June 7, 2016, Chris Crook and Samuel Cortez of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted a focused odor survey investigation in the Shadow Creek Ranch Subdivision area, in Pearland, in the Harris - Brazoria - Fort Bend County area. The purpose of this investigation (Investigation Typecode FIAIRODOR) was to determine if any odors in the area constituted a nuisance condition. The Houston Region Office Air Section had investigators conducting odor surveys 12 hours a day from 8:00 p.m. on June 6 through 8 a.m. June 10 in conjunction with the Austin Region Mobile Monitoring Unit in the Shadow Creek Ranch Subdivision and surrounding areas. The terrain in the area is flat land and the surrounding land use is residential.

June 6, 2016 Investigation Daily Narrative (8:00 p.m. to 11:59 p.m.)

The investigators surveyed the Shadow Creek Ranch Subdivision and surrounding areas from 8:00 p.m. to 8:00 a.m. (SEE ATTACHMENT 2- Survey Areas). The following is a description of odors detected during this investigation:

The investigators arrived at Survey Area #1 (SEE ATTACHMENT 2- Page 1), Pebble Bay Bridge subsection of the shadow creek neighborhood at 8:00 p.m. No odors were detected at this location. The wind was blowing from the South Southeast at 0-6 mph.

The investigators arrived at Survey Area #2 (SEE ATTACHMENT 2- Page 2), Twilight Bay subsection of the shadow creek neighborhood at 9:00 p.m. No odors were detected at this location. The winds were less than 1 mph and variable.

The investigators arrived at Survey Area #3 (SEE ATTACHMENT 2- Page 3), Fountain Rock subsection of the shadow creek neighborhood at 9:15 p.m. No odors were detected at this location. The winds were less than 1 mph and variable.

The investigators arrived at Survey Area #4 (SEE ATTACHMENT 2- Page 4), Sand Dune subsection of the shadow creek neighborhood at 9:20 p.m. No odors were detected at this location. The winds were less than 1 mph and variable.

The investigators arrived at Survey Area #5 (SEE ATTACHMENT 2- Page 5), Rocky Isles subsection of the shadow creek neighborhood at 9:25 pm. No odors were detected at this location. The winds were less than 1 mph and variable.

The investigators arrived at Sidonie Drive & McHard Road, North of Blue Ridge Landfill at approximately 9:45 p.m. (SEE ATTACHMENT 1.1- Odor Detection Location 1). Strong landfill gas odors accompanied by honeysuckle odors were detected at this location. The investigators documented the odor at this intensity from 9:48 p.m. to 10:35 p.m. The one-minute and 10 minute weighted averages were each very strong intensity. The investigators characterized the odor as highly offensive based on experience, training, and the examples on the TCEQ FIDO chart. The winds were less than 1 mph and variable. (SEE ATTACHMENT 3- Page 1).

The investigators arrived at Triple A Storage located at Hiram Clarke Road & McHard Road at approximately 10:35 p.m. (SEE ATTACHMENT 1.2- Odor Detection Location 2). Very light landfill gas odors accompanied by honeysuckle odors were detected at this location. The investigators documented the odor at this intensity from 10:35 p.m. to 11:35 p.m. The one-minute and 10 minute weighted averages were each very strong intensity, and the one hour weighted average was very light intensity. The investigators characterized the odor as highly offensive based on experience, training, and the examples on the TCEQ FIDO chart. The winds were less than 1 mph and variable. (SEE ATTACHMENT 3- Page 2).

Meteorological during the investigation: June 6, 2016

Cloud cover: Scattered Clouds

Wind direction: Variable

Wind speed: 0-6 mph

Average Temperature: 73 degrees Fahrenheit

## BLUE RIDGE LANDFILL - FRESNO

6/6/2016 to 6/7/2016 Inv. # - 1337792

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Precipitation: None

Source of meteorological conditions: Weather Underground (KAXH).

June 7, 2016 Daily Narrative (12:00 a.m. to 8:00 a.m.)

The investigators arrived at FM 2234 & West Drive, North of Blue Ridge Landfill at approximately 12:35 a.m. (SEE ATTACHMENT 1.3- Odor Detection Location 3). Landfill gas odors were detected at this location. The investigators documented the odor at this intensity from 12:35 a.m. to 1:16 a.m. The one-minute and 10 minute weighted averages were each strong intensity. The investigators characterized the odor as highly offensive based on experience, training, and the examples on the TCEQ FIDO chart. The winds were less than 1 mph and variable. (SEE ATTACHMENT 3- Page 4).

The investigators arrived 100 yards south of the intersection of FM521 & McHard Road, North of Blue Ridge Landfill at approximately 2:20 a.m. Very strong landfill gas odors were detected at this location. The investigators documented the odor at this intensity from 2:20 a.m. to 3:20 a.m. During minute 14 of the odor survey the investigators began using a TVA ppm analyzer. At this time the TVA detected readings of Volatile Organic Compounds (VOC's) ranging from 98 parts per million (ppm) to 210 ppm. The one-minute, 10 minute, and one hour-weighted averages were each very strong intensity. The winds were less than 1 mph and variable. (SEE ATTACHMENT 3-Page 5).

The investigators conducted additional surveys for the remainder of the morning and did not note additional odors. The investigators departed from the area at 8:00 a.m.

Meteorological during the investigation: June 7, 2016

Cloud cover: Scattered Clouds

Wind direction: Variable

Wind speed: 0-5 mph

Average Temperature: 72 degrees Fahrenheit

Precipitation: None

Source of meteorological conditions: Weather Underground (KAXH).

### GENERAL FACILITY AND PROCESS INFORMATION

Blue Ridge Landfill is a municipal solid waste (MSW) landfill located at 2200 Farm to Market (FM) 521, in Fresno (Fort Bend County), Texas and is authorized to operate by TCEQ General Operating Permit No. O-01472. The landfill was re-issued this permit on August 23, 2003. The surrounding land use includes light industry, agricultural production and several residential subdivisions.

### EXIT INTERVIEW

No exit interview conducted for this investigation.

### BACKGROUND

Current Enforcement Actions

No violations noted during this investigation.

Agreed Orders, Court Orders, and Other Compliance Agreements

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

Complaints

Based on review of CCEDS, there were approximately one thousand two hundred and seventy six (1,276) complaints filed against the regulated entity for the past year (August 1, 2016 through June 30, 2016).

Prior Enforcement Issues

Based on review of CCEDS and enforcement database, there were no prior enforcement issues in the last five years.

ADDITIONAL INFORMATION

Conclusions, Recommendations, and Current Enforcement Actions

Landfill gas/honeysuckle odors were detected at four locations during the investigation. Investigators characterized the landfill gas odors as highly offensive based on experience, training, and the examples on the TCEQ Frequency, Intensity, Duration and Offensiveness (FIDO) chart. The landfill gas odor and honeysuckle odor were the same as experienced by the investigators on May 25, 2016 (investigation #1349609) and May 26, 2016 (investigation #1337795). In order to confirm a nuisance as a single occurrence, a highly offensive odor has to last one hour with a very strong intensity. During this investigation, the investigators experienced a landfill gas/honeysuckle odor which was highly offensive and very strong for one hour. This odor constitutes a nuisance condition. During this investigation and in investigation #1331231, Blue Ridge Landfill was determined to be the source of the odors detected at offsite locations. The findings from this investigation will be addressed in investigation #1331231.

Additional Issues


No additional issues were noted during this investigation.

Report Attachments

1. Shadow Creek Ranch Complainant Area Map
  - 1.1. Odor Detection Location 1
  - 1.2. Odor Detection Location 2
  - 1.3. Odor Detection Location 3
  - 1.4. Odor Detection Location 4
2. Survey Areas
3. Odor Logs

No Violations Associated to this Investigation

Signed



Environmental Investigator

Date

10/27/2016

Signed



Supervisor

Date

10/27/16

**BLUE RIDGE LANDFILL - FRESNO**

6/6/2016 to 6/7/2016 Inv. # - 1337792

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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

Other (specify) :

See Investigation

Attachments

Attachment 1

Shadow Creek Ranch Complainant Area Map

Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 6, 2016



Blue Ridge Landfill

Alameda Rd

Shadow Creek Pkwy

W Broadway St

Kinby Bay Dr

Kingsley Dr

Richard Rd

Kirby Dr

521

48

224

Imagery Date: 3/3/2016

1944

29°33'59.77" N 95°25'08.94" W elev 63 ft

© 2016 Google

Google earth

Eye alt 16394 ft

Attachment 1.1

Odor Detection Location 1

Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 6, 2016





Imagery Date: 3/3/2016

1944

29°34'56.05" N 95°26'49.67" W elev 64 ft

© 2016 Google

Google earth

Eye alt 1243 ft

Attachment 1.2

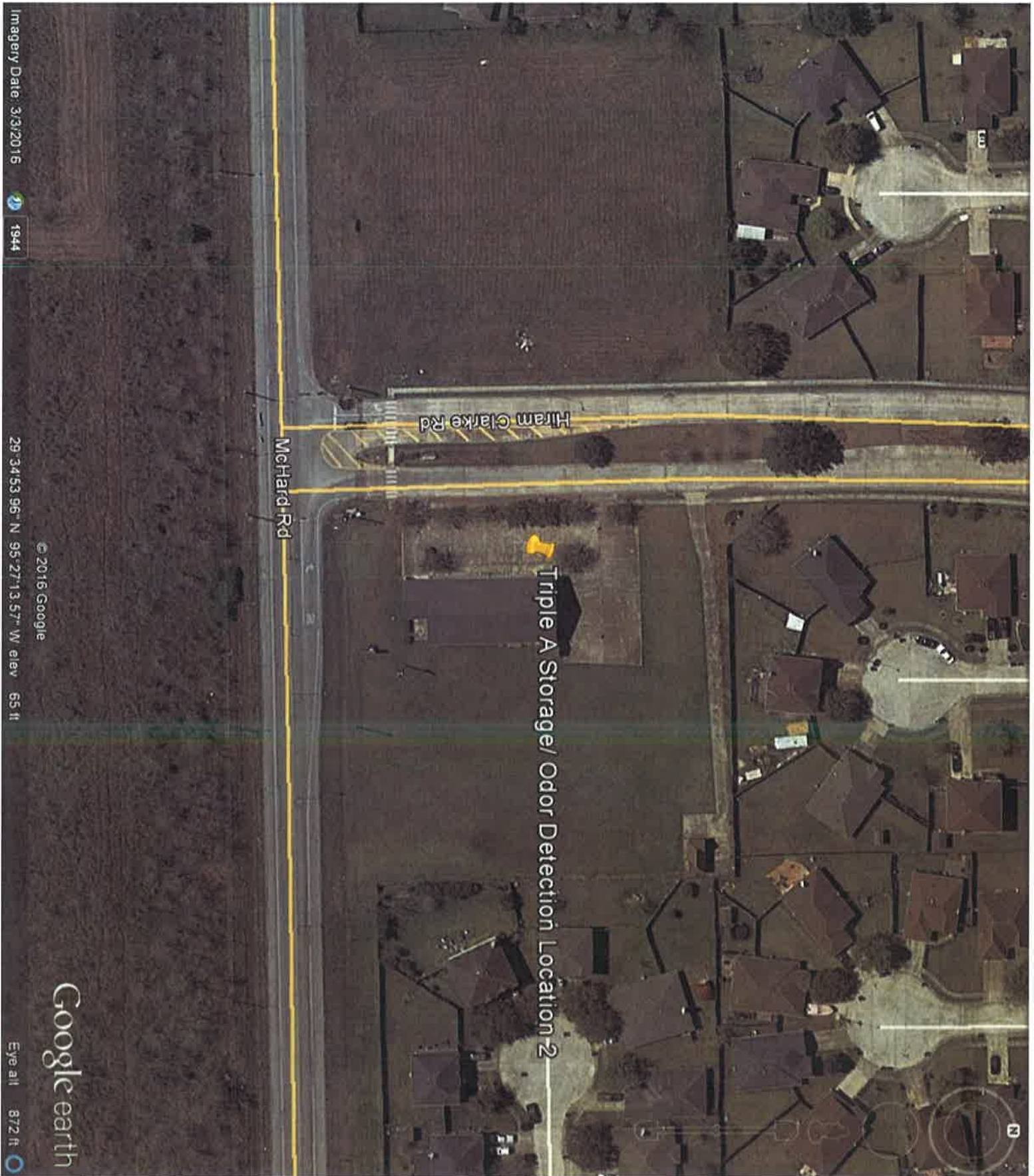
Odor Detection Location 2

Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 6, 2016



Hiram Clarke Rd

McHard Rd

Triple A Storage/ Odor Detection Location-2

Imagery Date: 3/3/2016

1944

29°34'53.96" N 95°27'13.57" W elev 65 ft

© 2016 Google

Google earth

Eye all 872 ft

Attachment 1.3

Odor Detection Location 3

Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 7, 2016



South Dr

West Drive & South Drive

West Dr

McHard Rd

Odor Detection Location 3 2234 & West Dr

McIntyre Ln

Imagery Date: 3/3/2016

1944

29°34'59.58" N 95°26'20.09" W elev 52 ft

© 2016 Google

Google earth

Eye alt 2037 ft

Attachment 1.4

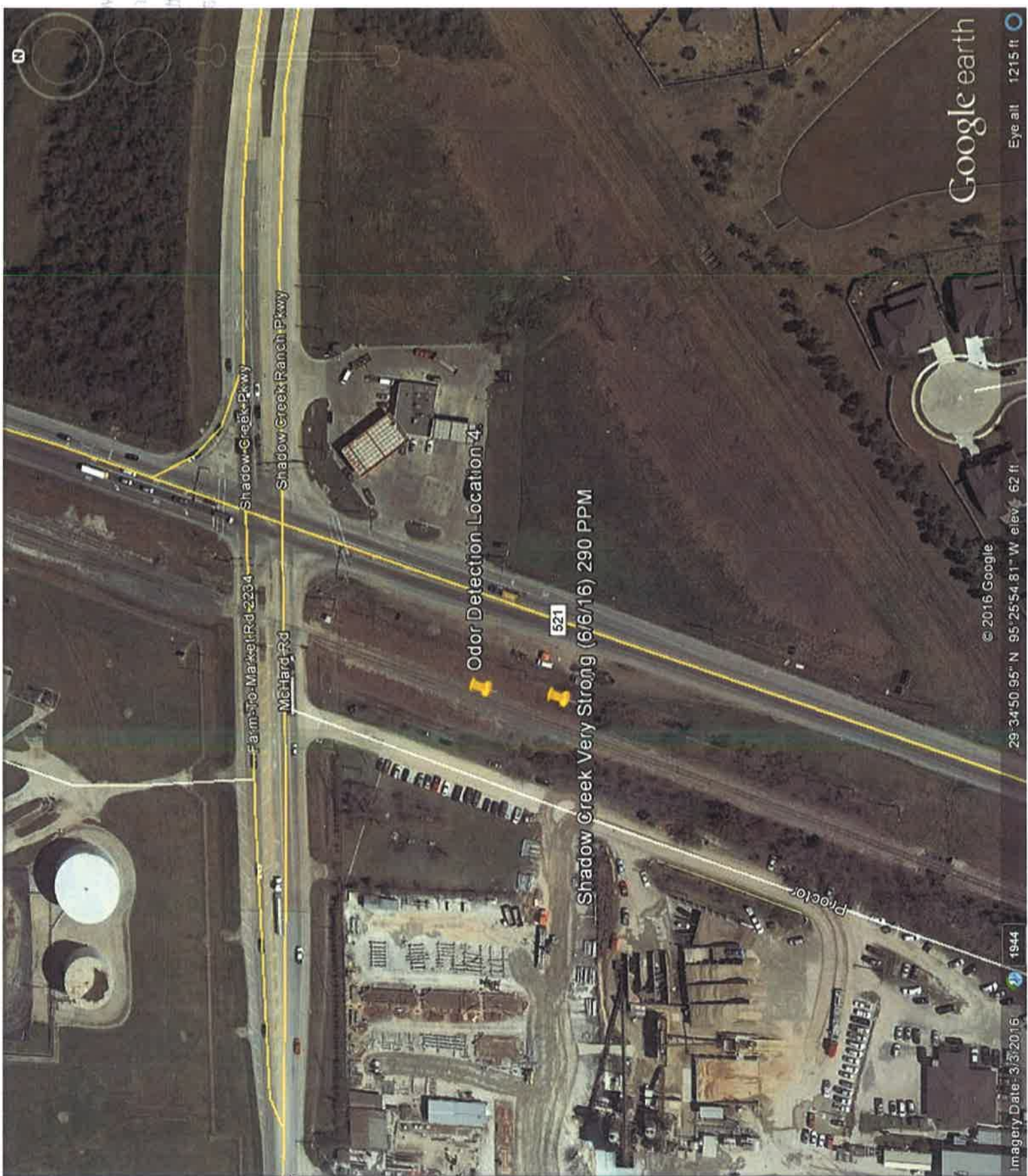
Odor Detection Location 4

Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 7, 2016



Farm-to-Market Rd 2234

McHardy Rd

Shadow Creek Ranch Pkwy

Shadow Creek Very Strong (6/6/16) 290 PPM

Odor Detection Location 4

521

Proctor

Imagery Date: 3/3/2016

© 2016 Google  
29° 34' 50.95" N 95° 25' 54.81" W elev. 62 ft

Google earth

Eye alt 1215 ft

Attachment 2

Survey Areas

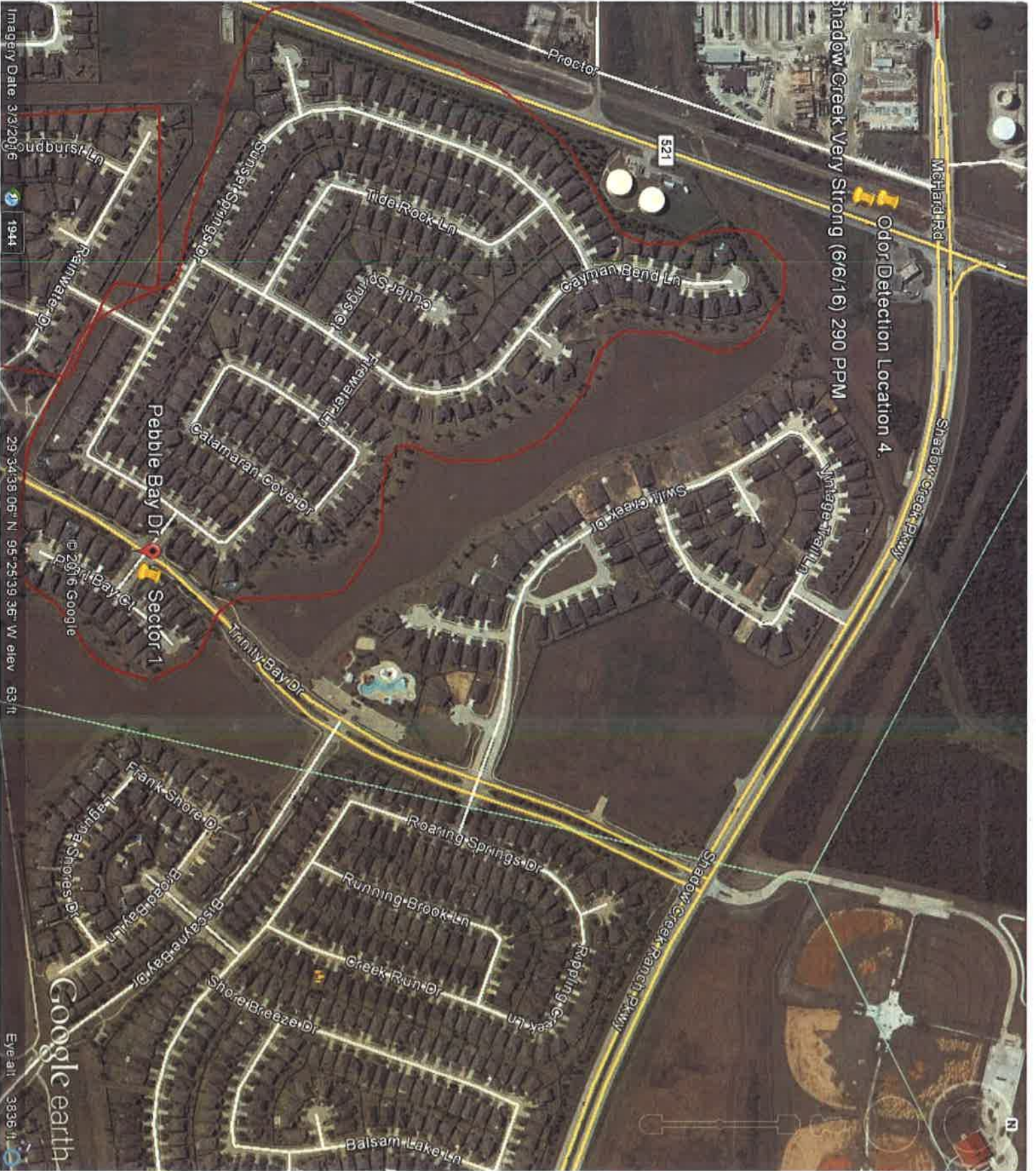
Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 6 & 7, 2016





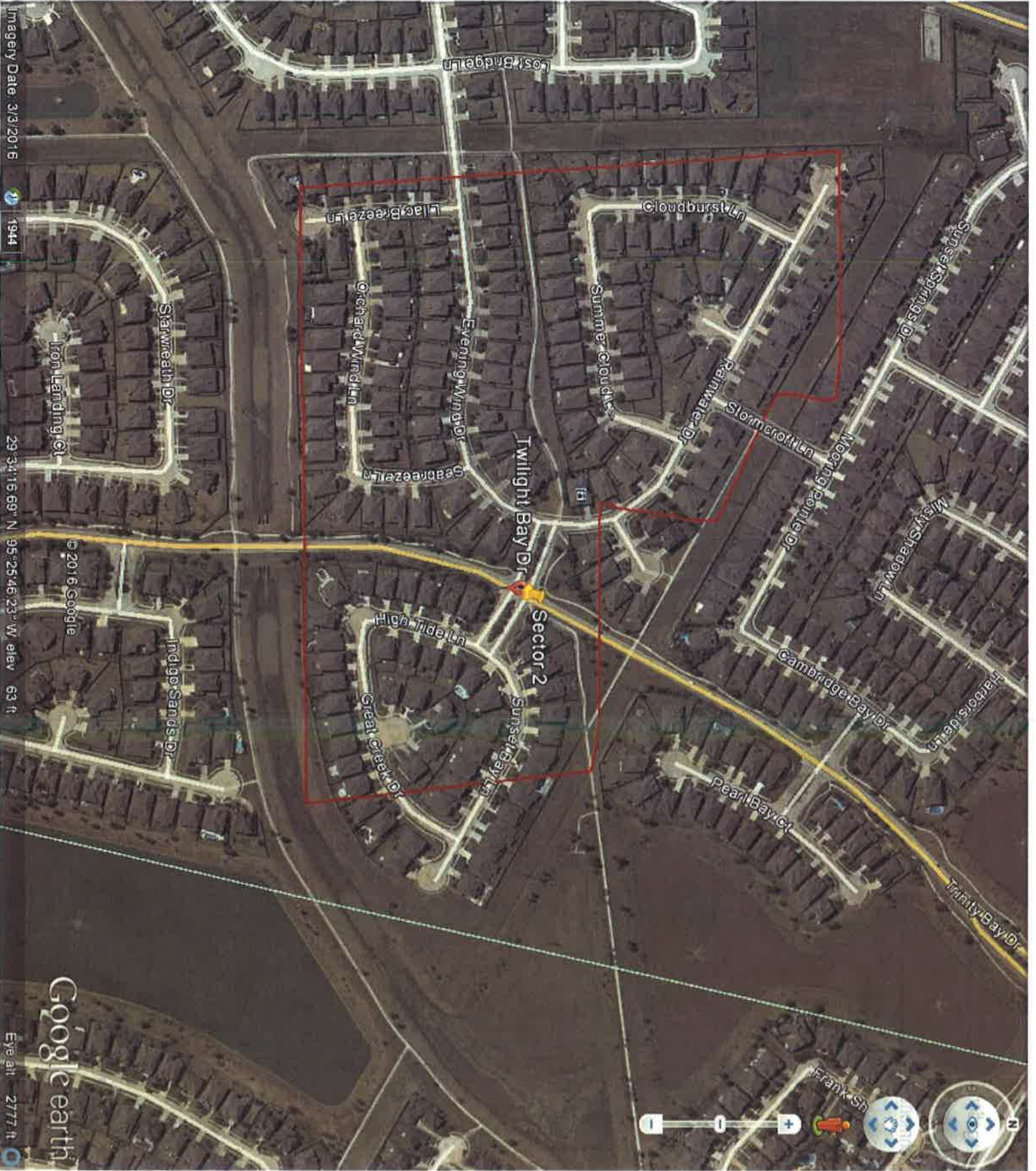
Imagery Date: 3/3/2016

1944

29° 34' 36.06" N 95° 23' 39.36" W elev 63 ft

Eye alt 3836 ft

SURVEY  
AREA # 1



Imagery Date: 3/3/2016

1944

29°34'16.69" N 95°25'46.23" W elev 63 ft

© 2016 Google

Google earth

Eye alt 2777 ft

SURVEY  
AREA #2



Imagery Date: 3/3/2016 1944

29°33'49.58" N 95°25'45.37" W elev 60 ft

© 2016 Google

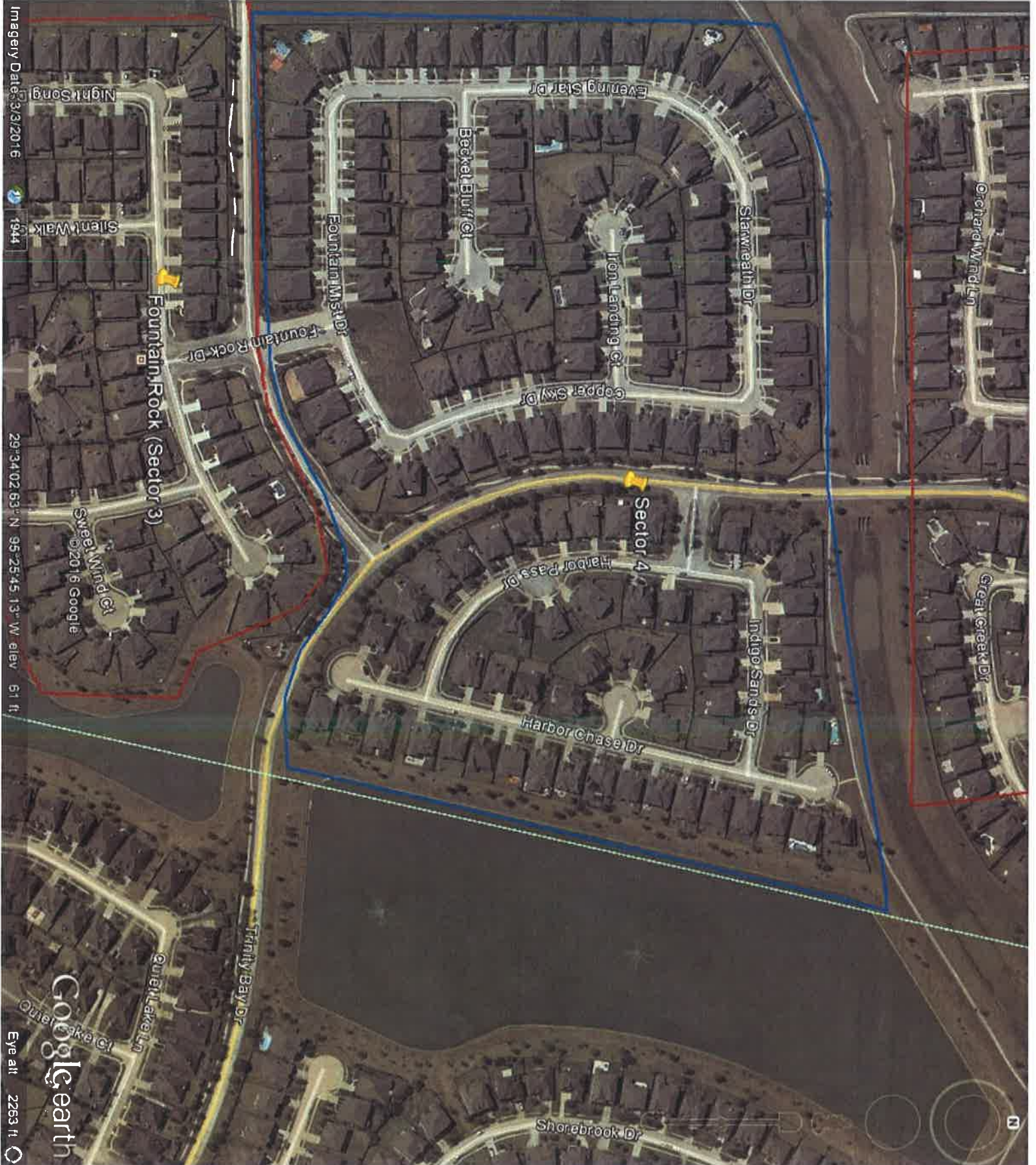
Google earth

Eye alt 2327 ft

SURVEY  
AREA #3

33w/11  
A 10A  
0511A  
99059

SURVEY  
AREA #4



Imagery Date: 3/3/2016

1944

29°34'02.63" N 95°25'45.13" W elev 61 ft

Google earth

Eye alt 2263 ft



Imagery Date: 3/3/2016

1944

29°33'46.00" N, 95°26'10.66" W elev: 57 ft

Eye alt: 2780 ft

SURVEY  
AREA #5

Attachment 3

Odor Logs

Blue Ridge Landfill

RN #102610102

Investigation #1342821

June 6 & 7, 2016

## Investigator's Odor Intensity Time Log

Date of Investigation: 6/6/2016 Start Time 9:48  
 Name and Address of Alleged Source: Sidonie + McHard RD  
 Investigator's Name: Print: Chris Crook Sign: Chris Crook

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

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

Offensiveness: Highly  Offensive \_\_\_\_\_ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_  
 Weighted Average For:

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

Page: 1 of 4  
 Attachment: ODOR LOGS  
 Air Account NO: F6053E  
 Investigation Type: FIARODOR

## Investigator's Odor Intensity Time Log

Date of Investigation: 6/6/2016 Start Time 10:35  
 Name and Address of Alleged Source: Triple A Storage/Blue Ridge Landfill  
 Investigator's Name: Print: Chris Crook Sign: Chris Crook

Minutes	Odor Intensity VL, L, M, S, VS
1 min	M
2	M
3	M
4	M
5	M
6	M
7	M
8	M
9	M
10	M
11	M
12	M
13	VL
14	VL
15	VL
16	VL
17	VL
18	VL
19	VL
20	VL
21	VL
22	VL
23	VL
24	VL
25	VL
26	VL
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	VL
36	VL
37	VL
38	VL
39	VL
40	VL
41	VL
42	VL
43	VL
44	VL
45	VL
46	VL
47	VL
48	VL
49	VL
50	VL
51	VL
52	VL
53	VL
54	VL
55	VL
56	VL
57	VL
58	VL
59	VL
60	VL

Offensiveness: Highly  Offensive \_\_\_\_\_ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_  
 Weighted Average For:

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

Investigation Type: HARODOR  
 Air Account NO: FG053E  
 Attachment: ODOR LOGS  
 Page: 2 of 4



## Investigator's Odor Intensity Time Log

Date of Investigation: 6/7/2016 Start Time 12:35  
 Name and Address of Alleged Source: 2234 W West Drive  
 Investigator's Name: Print: Chris Crook Sign: Chris Crook

Minutes	Odor Intensity VL, L, M, S, VS
1 min	S
2	S
3	S
4	S
5	S
6	S
7	S
8	M
9	M
10	M
11	M
12	M
13	M
14	M
15	M
16	M
17	M
18	M
19	M
20	M
21	M
22	M
23	M
24	VL
25	VL
26	VL
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	VL
36	VL
37	VL
38	VL
39	VL
40	VL
41	VL
42	
43	
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57	
58	
59	
60	

Offensiveness: Highly  Offensive \_\_\_\_\_ Unpleasant \_\_\_\_\_ Not Unpleasant \_\_\_\_\_  
 Weighted Average For:

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

Investigation Type: FIARODOR  
 Air Account NO: FG053E  
 Attachment: ODOR LOGS  
 Page: 3 of 4

# Investigator's Odor Intensity Time Log

Date of Investigation: 6/17/2016 Start Time 2:20  
 Name and Address of Alleged Source: 100 yards south of Fmsal + McHard  
 Investigator's Name: Print: Chris Creek Sign: Chris Creek

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

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

-TVA 200  
 200 PPM  
 105 PPM  
 200  
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 150  
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 160  
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 135  
 130  
 117  
 117  
 98  
 98

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"/>					

Weighted Average

Investigation Type: CAIR  
 Air Account NO:                       
 Attachment: 3  
 Page 1 of 1

Investigation Type: FIAIR ODOR  
 Air Account NO: FG053E  
 Attachment: ODOR LOGS  
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