AIR CP_102610102_CP_20160526_INVESTIGATION_1337795_ **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 #1337795

Investigator: GREGORY CROOK Site Classification MAJOR SOURCE

5

Conducted: 05/26/2016 -- 05/26/2016

NAIC Code: 562212

Incident Numbers

SIC Code: 4953 **SIC Code: 1521**

Program(s):

AIR OPERATING PERMITS

Investigation Type: Site Assessment

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):

FIAIRODOR - AIR FIAIRODOR - FOC

INV ODOR SURVEY

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

Role

Title

MANAGER

Name

Phone

REGULATED

ENVIRONMENTAL

MR BURGESS STENGL

ENTITY CONTACT

Other Staff Member(s):

Role

Name

OA Reviewer

SAMUEL CORTEZ

Investigator

SAMUEL CORTEZ

QA Reviewer

CORBETT BRINLY

Supervisor

CORBETT BRINLY

QA Reviewer

JOSEPH DOBY

RECEIVED

FFB 2 7 2017

CENTRAL FILE ROOM

Associated Check List

Checklist Name

AIR FOCUSED INVESTIGATON - ODOR SURVEY

Blue Ridge Landfill Blue Ridge Landfill

Unit Name

AIR INVESTIGATION - EQUIPMENT

MONITORING AND SAMPLING revised 06/2013

Investigation Comments:

BLUE RIDGE LANDFILL - FRESNO

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INTRODUCTION/ INVESTIGATION SUMMARY

Introduction

On May 26, 2016, Chris Crook and Sam 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 on the dates May 23 through May 26, 2016 in the Shadow Creek Ranch Subdivision and surrounding areas. The terrain in the area is flat land and the surrounding land use is residential.

May 26, 2016 - Investigation Daily Narrative

Meteorological data at time of investigation: May 26, 2016

Cloud cover: Overcast Wind direction: Southeast Wind speed: o-8 mph

Average Temperature: 78° Fahrenheit

Precipitation: None

Source of Meteorological Data: Weather Underground (KAXH).

The investigators surveyed the Shadow Creek Ranch Subdivision and surrounding areas from 12:00 a.m. to 5:15 a.m. Refer to the attached log for specific details of time and location. The following is a summary of findings during this investigation:

The investigators arrived at the north side of the intersection of Highway 2234 and Highway 521, east of Akzo Noble at 12:15 a.m. The investigators conducted a general odor survey from 12:15 a.m. to 12:30 a.m. At 12:50 a.m., the investigators continued onto the first survey route (see attachment 1). For Section A of the survey route no odors were detected, in addition, a MultiRAE sensor was used and no readings were detected for Carbon Monoxide (CO), Hydrogen Sulfide (H2S), or Volatile Organic Compounds (VOC). At 1:05 a.m. the investigators moved to section B of the survey route. At section B of the survey route no odors were detected and no readings were detected with the MultiRAE for CO, H2S, or VOC. At 1:25 a.m. the investigators proceeded to section C of the survey route. At section C of the survey route no odors were detected and no readings were detected with the MultiRAE for CO, H2S, or VOC. At 1:45 a.m. the investigators proceeded to section D of the survey route. At section D of the survey route, no odors were detected and no readings were detected with the MultiRAE for CO, H2S, or VOC. At 2:07 a.m. the investigators completed the odor survey for route one.

At 2:12 a.m. the investigators conducted an odor survey of the second survey route (see attachment 2). During this odor survey, no odors were detected and no readings were detected with the MultiRAE for O2, CO, H2S, or VOC.

At 4:45 a.m. a highly offensive very light landfill gas/ honeysuckle odor was detected for under five minutes on the McHard Rd portion of the second survey route. The honeysuckle odor is a characteristic that can be linked to Blue Ridge Landfill, based on their usage of the scent as a deodorizer in their landfill process. During this time, the investigators set up two orifice SUMMA canister samples and one field blank SUMMA canister sample. The investigators took these samples North of Blue Ridge Landfill from 4:45 a.m. to 5:15 a.m. The approximate location of the SUMMA canister samples can be seen in attachment 3. Additionally, a 15-minute odor log was taken (see attachment 5). The one-minute and 10 minute weighted averages were each very light intensity. The wind was blowing from the Southeast at 0-5 mph.

SUMMA canister sample results were received on June 17, 2016 (see attachment 4). The TCEQ evaluation report noted that all of the 84 VOCs analyzed for both samples were either not detected or were detected below their respective short-term air monitoring comparison values (AMCVs). According to the evaluation conducted by the TCEQ Toxicology Division, exposure to levels of VOCs measured in this sample would not be expected to cause short-term adverse health effects, adverse vegetation effects, or odors. However, it is important to note that this evaluation only applies to the 84 VOCs that are analytically measured in a canister sample.

Process Description

BLUE RIDGE LANDFILL - FRESNO

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Blue Ridge Landfill is a municipal solid waste (MSW) landfill located at 2200 FM 521, in Fresno, Fort Bend County, Texas and is authorized to operate by TCEQ General Operating Permit No. O-01472. The landfill was 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

Agreed Orders, Court Orders, and Other Compliance Agreements These are not reviewed when no violations resulted from an investigation.

Prior Enforcement Issues

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

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).

Additional Information

Conclusions, Recommendations, and Current Enforcement Actions

One landfill gas/honeysuckle odor was detected throughout the investigation. Investigators characterized the landfill gas odor as highly offensive based on experience, training, and the examples on the TCEQ Frequency, Intensity, Duration and Offensiveness (FIDO) chart. During the survey, the strongest one-minute intensity was very light for the lead investigator. The 10 minute weighted average was determined to be very light for the lead investigator. 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.

Report Attachments

- 1. First Survey Route Map
- 2. Second Survey Route Map
- 3. Approximate Location of SUMMA Canister Samples
- 4. SUMMA Canister sample results
- 5. Odor Log

No Violations Associated to this Investigation

BLUE RIDGE LANDFILL - FRESNO

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Signed Con Environmental Investigator	Date 1/27/2017
Signed City Bayy Supervisor	Date 1-27-2017
Attachments: (in order of final report submi	ittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type) :	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	ODOR LOG
Notice of Registration	Lab Analysis

Blue Ridge Landfill

RN #102610102

Investigation #1337795

First Survey Route Map



Yellow: first survey route
Red Line: second survey route

Investigation Type: FIAIRODOR

Air Account NO: FG0536E

Attachment: 1. First Survey Route

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Blue Ridge Landfill

RN #102610102

Investigation #1337795

Second Survey Route Map



Yellow: first survey route

Red Line: second survey route

Yellow dot: potential places to take odor logs

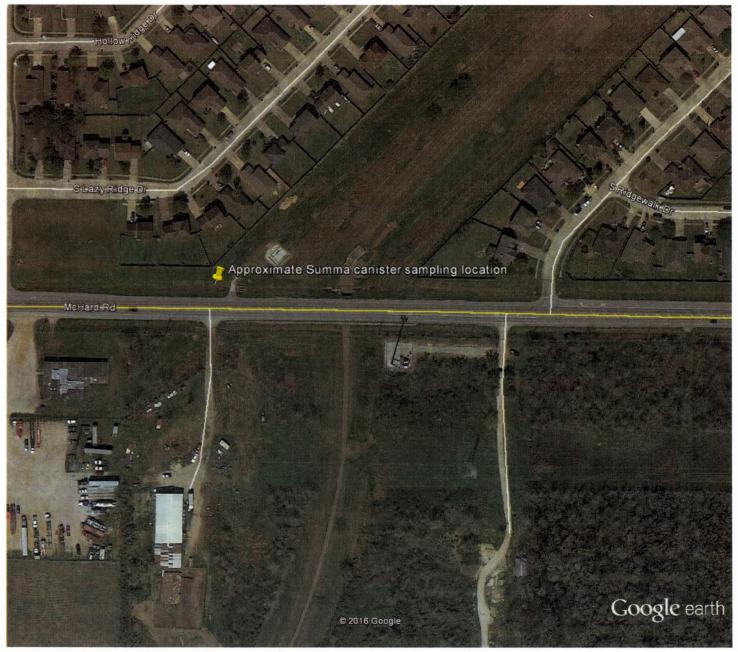
Investigation Type: FIAIRODOR
Air Account NO: FG05365
Attachment 2. Second Survey Route
Page:of

Blue Ridge Landfill

RN #102610102

Investigation #1337795

Approximate Location of Summa Canister Samples



Google earth

feet meters **-700** 200

Investigation Type: FIARODOR

Air Account NO: FG0536E

Attachment: 3. Approximate location of Summa Samples

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Blue Ridge Landfill

RN #102610102

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Summa Canister Sample Results

investiga i i spe Aucusti i

Texas Commission on Environmental Quality

Laboratory and Quality Assurance Section P.O. Box 13087, MC-165 Austin, Texas 78711-3087 (512) 239-1716

Laboratory Analysis Results Request Number: 1606001

Request Lead:Frank Martinez	Region: T12	Date Recei	ived: 6/15/2016
Project(s): NA		•	
Facility(ies) Sampled	City	County	Facility Type
Blue Ridge Landfill	Fresno	Fort Bend	Waste Disposal
Sample(s) Received	·		
Field ID Number: OFC-233 052616 Laboratory Sampling Site: Intersection of Mchard Rd. and Manor Pa Comments: Canister N1670 was used to collect a 30-min		ed: 05/26/16	pled by: Chris Crook 04:45:00 Valid Sample: Yes
Field ID Number: OFC-205 052616 Laboratory Sampling Site: Intersection of Mchard Rd. and Manor Pa Comments: Canister N2007 was used to collect a 30-mir		ed: 05/26/16	pled by: Chris Crook 04:45:00 Valid Sample: Yes
Field ID Number: Blank 052616 Laboratory Sampling Site: Comments: Canister N0652 was used as trip blank. Requested Laboratory Procedure(s):	Sample Number: 1606001-(Date & Time Sampl		pled by: Chris Crook 04:45:00 Valid Sample: Yes
Analysis: AP001VOC Determination of VOCs in Canisters by GC/MS Using M	odified Method TO-15		
Please note that this analytical technique is not adverse health effects. For questions on the ana (512) 239-1716. For an update on the health eff Division at (512) 239-1795.	lytical procedures pleas	se contact the	e laboratory manager at
Analyst: Jayloe REI Jayloe Patel Laboratory Manager: Frank Martinez Laboratory Manager: Frank Martinez		Date: <u>Ob</u>	116/16
inves	tigation Type: FIA	1RODO	2

Air Account NO: F60536

Page:_

Summa Canister Sample Results

Laboratory Analysis Results Request Number: 1606001 Analysis Code: AP001VOC

Investigation Type: FIARODOR

Air Account NO: FG0536E

Attachment: Summa Canister Sample

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Note: Results are reported in units of ppbv 1606001-001FD 1606001-001 Lab ID OFC-205 052616 OFC-233 052616 Field ID N2007 N1670 Canister ID Analysis Analysis Flags** Flags** SOL Conc. SDL SQL Date SDL Date Compound Conc 6/14/2016 J,T,D1 6/14/2016 J.T.D1 0.81 1.0 2.4 2.4 0.62 1.0 ethane T.DI ND 1.0 2.4 6/14/2016 ND 1.0 2.4 6/14/2016 T,D1 ethylene T.DI 1.0 2,4 6/14/2016 ND 1.0 2.4 6/14/2016 T,D1 ND acetylene 6/14/2016 T,D1 ND 1.0 2.4 6/14/2016 T,D1 1.0 2.4 ND propane ND 1,0 2.4 6/14/2016 T.D1 T,D1 ND 1.0 6/14/2016 2.4 propylene 1.2 6/14/2016 L,D1 L,D1 0.49 0,40 0.40 1.2 6/14/2016 0.48 dichlorodifluoromethane 6/14/2016 L.DI 0.88 0.40 1,2 6/14/2016 L,D1 methyl chloride 0.82 0.40 1.2 6/14/2016 J.D1 0.46 2.4 6/14/2016 J,D1 0.15 0.13 0.46 2.4 isobutane J,D1 6/14/2016 0.34 1.2 6/14/2016 J.DI 0.01 vinyl chloride 0.01 0.34 1.2 6/14/2016 JDI 0.40 1.2 6/14/2016 J,D1 0.33 1-butene 0.27 0.40 1.2 6/14/2016 ĎΤ ND 0.54 1.2 6/14/2016 J,D1 0.01 0.54 1.2 1,3-butadiene J.D1 0.40 2.4 6/14/2016 6/14/2016 J,D1 0.16 0.40 2.4 0.14 n-butane DI 0.36 1,2 6/14/2016 ND 0.36 1,2 6/14/2016 DI ND t-2-butene J.D1 6/14/2016 0.54 1.2 0.54 1.2 6/14/2016 ĎΙ 0.02 ND bromomethane 0.54 1.2 6/14/2016 DI 0.54 6/14/2016 DI ND 1.2 c-2-butene ND D1 0.46 1.2 6/14/2016 D1 ND ND 0.46 1.2 6/14/2016 3-methyl-1-butene J.DI 6/14/2016 4.8 6/14/2016 J,DI 0.12 0.54 4.8 0.08 0.54 isopentane J,D1 0.22 0.58 1.2 6/14/2016 I,DI 6/14/2016 0.21 0.58 1.2 trichlorofluoromethane ND 0.54 1,2 6/14/2016 DI 6/14/2016 $\mathbf{D}1$ ND 0.54 1.2 1-pentene J,D1 J,D1 0.07 0.54 4.8 6/14/2016 6/14/2016 0.54 4,8 0.05 n-pentane 0.54 1.2 6/14/2016 J,D1 D1 0.03 6/14/2016 ND 0.54 1.2 isoprene 6/14/2016 DL ND 0.54 2.4 6/14/2016 D1 ND 0.54 2.4 t-2-pentene D1 6/14/2016 Dl ND 0.36 1.2 6/14/2016 1,1-dichloroethylene ND 0,36 1.2 D1 6/14/2016 ND 0.50 2.4 0.50 6/14/2016 D1 ND 2.4 c-2-pentene J.DI 6/14/2016 J.D1 0.05 0.28 1.2 1.2 6/14/2016 0.04 0.28 methylene chloride ND 0.46 1.2 6/14/2016 D16/14/2016 Di 2-methyl-2-butene ND 0.46 1.2 6/14/2016 Dl 0.42 1.2 ND ND 0.42 1.2 6/14/2016 DI 2,2-dimethylbutane DI 6/14/2016 0.40 1.2 6/14/2016 DI ND 0.40 1.2 cyclopentene ND 6/14/2016 DI 0.44 2.4 $\mathbf{D}\mathbf{1}$ ND 2.4 6/14/2016 ND 0.44 4-methyl-1-pentene DI 6/14/2016 Di ND 0.38 1.2 ND 0.38 1.2 6/14/2016 1.1-dichloroethane D1 6/14/2016 DΙ ND 0.54 1.2 6/14/2016 1.2 ND 0.54 cyclopentane Di DI ND 0.56 2.4 6/14/2016 6/14/2016 ND 0.56 2.4 2,3-dimethylbutane D1 J,D1 ND 0.54 1.2 6/14/2016 1.2 6/14/2016 0,01 0.54 2-methylpentane Dī ND 0.46 1.2 6/14/2016 6/14/2016 DI 0.46 1.2 3-methylpentane ND DΙ 0.40 4.8 6/14/2016 ND 6/14/2016 $\mathbf{D}1$ ND 0.40 4.8 2-methyl-1-pentene + 1-hexene DI 6/14/2016 DI ND 0.40 2.4 6/14/2016 0.40 2.4 n-hexane ND 1,2 6/14/2016 DI ND 0.42 6/14/2016 D1 0.42 1.2 ND chloroform 6/14/2016 DI 0.54 2.4 ND 0.54 2.4 6/14/2016 D1ND t-2-hexene 6/14/2016 DI 6/14/2016 Di ND 0.54 2.4 ND 0.54 2.4 c-2-hexene ND 0.54 1.2 6/14/2016 DI Dl 6/14/2016 ND 0.54 1.2 1,2-dichloroethane 2.4 6/14/2016 Di ND 0.54 6/14/2016 D1 ND 0.54 2.4 inethylcyclopentane DI 6/14/2016 0.54 2.4 Di ND 2.4 6/14/2016 2,4-dimethylpentane ND 0.54 Ďî 6/14/2016 DĨ 0.52 1.2 ND 6/14/2016 ND 0.52 1.2 1,1,1-trichloroethane J,DI 1.2 6/14/2016 7,7 D13 6/14/2016 0.19 0.54 ND 0.54 1.2 benzene DI 1.2 6/14/2016 6/14/2016 J,D1 ND 0.54 0.09 0.54 1.2 carbon tetrachloride DI 1.2 6/14/2016 6/14/2016 Di-ND 0.48 0.48 1.2 ND cyclohexane $\overline{\mathbf{D1}}$ 6/14/2016 6/14/2016 ĎΙ ND 0.54 1.2 1.2 0.54 ND 2-methylhexane 6/14/2016 Di Di ND 0.52 1,2 6/14/2016 ND 0.52 1.2 2,3-dimethylpentane

Laboratory Analysis Results Request Number: 1606001

Analysis Code: AP001VOC

Air Account NO: FGG536E

Attachment: Summa Canister Sample
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Note: Results are reported in unit Lab ID	1606001-002TB						• • • • • • • • • • • • • • • • • • • •			
Field ID				c 052616	•••					
 	_					 			· · · · · · · · · · · · · · · · · · ·	
Canister ID		N0652 Analysis Conc. SDL SOL Date Flags**					ap.	T	Analysis	Florets
Compound	Conc.	SDL	SQL	Date 6/13/2016	T	Conc.	SDL	SQL	Date	Flags**
ethane	ND	0.50	1.2		T		ļ	 	ļ	
ethylene	ND	0.50	1.2	6/13/2016		_				······································
acetylene	ND	0.50	1.2	6/13/2016	T	_			<u> </u>	
propane	ND	0.50	1,2	6/13/2016	T		ļ	<u> </u>		
propylene	ND	0.50	1.2	6/13/2016	Т	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
dichlorodifluoromethane	ND	0.20	0.60	6/13/2016				-		
methyl chloride	0.02	0.20	0.60	6/13/2016	J		ļ	ļ	<u> </u>	
isobutane	0.05	0.23	1.2	6/13/2016	J		ļ	<u> </u>	ļ	
vinyl chloride	ND	0.17	0.60	6/13/2016						
1-butene	0.11	0.20	0.60	6/13/2016	J		<u> </u>	<u> </u>		
1,3-butadiene	ND	0.27	0.60	6/13/2016		<u> </u>	ļ	ļ		
n-butane	0.05	0.20	1.2	6/13/2016	j	ļ	<u> </u>	ļ		
t-2-butene	ND	0.18	0.60	6/13/2016			 	ļ		
bromomethane	ND	0.27	0.60	6/13/2016 -	• • • • • • • • • • • • • • • • • • • •					
c-2-butene	ND	0.27	0.60	6/13/2016			ļ	ļ		
3-methyl-1-butene	ND	0.23	0.60	6/13/2016		ļ				
isopentane	ND	0.27	2,4	6/13/2016				ļ	<u> </u>	
trichlorofluoromethane	0.01	0.29	0.60	6/13/2016	J		ļ			
1-pentene	מא	0.27	0.60	6/13/2016			<u> </u>			
n-pentane	0.04	0.27	2.4	6/13/2016	J		ļ			
isoprene	DИ	0.27	0,60	6/13/2016		<u> </u>				
t-2-pentene	ND	0.27	1.2	6/13/2016						
1,1-dichloroethylene	ND	0.18	0.60	6/13/2016		<u> </u>		<u> </u>		v. ************************************
c-2-pentene	ND	0,25	1.2	6/13/2016			<u></u>]		
methylene chloride	ND	0.14	0.60	6/13/2016				<u></u>	<u> </u>	
2-methyl-2-butene	ND	0.23	0,60	6/13/2016						
2,2-dimethylbutane	ND	0.21	0.60	6/13/2016			<u> </u>]		
cyclopentene	ND	0,20	0.60	6/13/2016			<u> </u>			
4-methyl-1-pentene	ND	0.22	1.2	6/13/2016						
1,1-dichloroethane	ND	0.19	0.60	6/13/2016		_]	<u> </u>			
cyclopentane	ND	0.27	0.60	6/13/2016						
2,3-dimethylbutane	ND	0.28	1.2	6/13/2016						
2-methylpentane	ND	0.27	0.60	6/13/2016				<u> </u>		
3-methylpentane	ND	0.23	0.60	6/13/2016						
2-methyl-1-pentene + 1-hexene	ND	0.20	2.4	6/13/2016						
n-hexane	ND	0.20	1,2	6/13/2016						
ohloroform	ND	0.21	0.60	6/13/2016						
t-2-hexene	ND	0.27	1.2	6/13/2016						
c-2-hexene	ND	0.27	1.2	6/13/2016						
1,2-dichloroethane	ND	0.27	0.60	6/13/2016						
methylcyclopentane	ND	0.27	1.2	6/13/2016						
2,4-dimethylpentane	מא	0.27	1.2	6/13/2016						
1,1,1-trichloroethane	ND	0.26	0.60	6/13/2016						
benzene	ND	0.27	0.60	6/13/2016		<u> </u>	1			
carbon tetrachloride	ND.	0.27	.0.60	6/13/2016	ı	İ	1			
cyclohexane	ND	0,24	0.60	6/13/2016		1	1	1		
2-methylhexane	ND	0.27	0.60	6/13/2016			ĺ	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
2,3-dimethylpentane	ND	0.26	0.60	6/13/2016			 	<u>i</u>	1	

Type	is diag	Westk	•
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Laboratory Analysis Results

Request Number: 1606001 Analysis Code: AP001VOC

Note: Results are reported in units of ppbv

Lab ID			1606	i001-001		1606001-001PD				
Compound	Cone.	SDL	SQL	Analysis Date	Flags**	Conc.	SDL	SQL	Analysis Date	Flags**
3-methylhexane	0.02	0.40	1.2	6/14/2016	J,DI	0.02	0.40	1,2	6/14/2016	J,DI
1,2-dichloropropans	ND	0.34	1.2	6/14/2016	D1	ND	0,34	1.2	6/14/2016	D1
trichloroethylene	ND	0.58	1.2	6/14/2016	Dl	ND	0.58	1.2	6/14/2016	DI
2,2,4-trimethylpentane	ND	0,48	1.2	6/14/2016	D1	0.02	0.48	1.2	6/14/2016	J,DI
2-chloropentane	ND	0.54	1,2	6/14/2016	D1	ND	0.54	1.2	6/14/2016	D1
n-heptane	0.02	0.50	2.4	6/14/2016	J,D1	0.02	0.50	2.4	6/14/2016	J,D1
c-1,3-dichloropropylene	ND	0.40	1.2	6/14/2016	Dí	ND	0.40	1.2	6/14/2016	Dl
methylcyclohexane	ND	0.52	2.4	6/14/2016	Di	0.01	0.52	2.4	6/14/2016	J,Dl
t-1,3-dichloropropylene	ND	0.40	1.2	6/14/2016	DI	ND	0.40	1.2	6/14/2016	D1
1,1,2-trichloroethane	ND	0.42	1.2	6/14/2016	DI	ND	0.42	1.2	6/14/2016	Di
2,3,4-trimethylpentane	ND	0.48	2.4	6/14/2016	DI	ND	0.48	2,4	6/14/2016	D1
toluene	0.10	0.54	1.2	6/14/2016	J,Dí	0.13	0.54	1.2	6/14/2016	J,D1
2-methylheptane	ND	0.40	2.4	6/14/2016	DI	ND	0.40	2.4	6/14/2016	Dl
3-methylheptane	ND	0.46	2.4	6/14/2016	DI	ND	0.46	2.4	6/14/2016	D1
1,2-dibromoethane	ND	0,40	1.2	6/14/2016	DI	ND	0.40	1.2	6/14/2016	Di
n-octane	0.01	0,38	2,4	6/14/2016	J,DI	0.01	0.38	2,4	6/14/2016	J,D1
tetrachloroethylene	ND	0.48	1.2	6/14/2016	DI	ND	0.48	1.2	6/14/2016	Di
chlorobenzene	ND	0.54	1.2	6/14/2016	DI	ND	0.54	1.2	6/14/2016	D1
ethylbenzene	0,03	0.54	2.4	6/14/2016	J, D1	0.03	0.54	2.4	6/14/2016	J,D1
m & p-xylene	0.05	0.54	4,8	6/14/2016	J,D1	0.05	0.54	4.8	6/14/2016	J,D!
styrene	dи	0.54	2,4	6/14/2016	Di	0.01	0.54	2.4	6/14/2016	J,D1
1,1,2,2-tetrachloroethane	ND	0.40	1,2	6/14/2016	D1	ND	0.40	1,2	6/14/2016	Di
o-xylene	0.01	0.54	2.4	6/14/2016	J, D1	0.02	0.54	2.4	6/14/2016	J,D1
n-nonane	ND	0.44	1,2	6/14/2016	D1	ND	0.44	1.2	6/14/2016	Di
isopropylbenzene	ND	0.48	1.2	6/14/2016	DI	ND	0.48	1.2	6/14/2016	DI
n-propylbenzene	ND	0.54	1.2	6/14/2016	D1	ND	0.54	1.2	6/14/2016	DI
m-ethyltoluene	ND	0.22	1.2	6/14/2016	Di	ND	0.22	1.2	6/14/2016	Dl
p-ethyltoluene	ND	0.32	2.4	6/14/2016	D1	ND	0.32	2.4	6/14/2016	D1
1,3,5-trimethylbenzene	ND	0.50	2.4	6/14/2016	DI	ND	0.50	2,4	6/14/2016	DI
o-ethyltoluene	ND	0.26	2.4	6/14/2016	D1	ND	0.26	2.4	6/14/2016	D1
1,2,4-trimethylbenzene	ДИ	0.54	1.2	6/14/2016	DI	ND	0.54	1.2	6/14/2016	DI
n-decane	0.01	0.54	2.4	6/14/2016	J,D1	0.01	0.54	2.4	6/14/2016	J,DI
1,2,3-trimethylbenzene	ND	0.54	1.2	6/14/2016	D1	ND	0.54	1.2	6/14/2016	DI
m-diethylbenzene	ND	0.54	2.4	6/14/2016	DI	ND	0.54	2.4	6/14/2016	D1
p-diethylbenzene	ND	0.54	1.2	6/14/2016	DI	ND	0.54	1,2	6/14/2016	D1
n-undecane	0.01	0.54	2.4	6/14/2016	J,D1	ND	0.54	2.4	6/14/2016	D1

Investigation Type: FIAIRUDOR
Air Account NO: F60536E Attachment: Summa Canister Sample Pesults
Attachment: Jumma Canister Sound
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Laboratory Analysis Results

Request Number: 1606001 Analysis Code: AP001VOC

Lab ID			16060	01-002TB						
Compound	Cone.	SDL	SQL	Analysis Date	Flags**	Conc.	SDL	SQL	Analysis Date	Flags**
3-methylhexane	ND	0.20	0.60	6/13/2016						•
1,2-dichloropropane	ND	0.17	0.60	6/13/2016			1	Ì		
trichloroethylene	ND	0.29	0.60	6/13/2016			İ			
2,2,4-trimethylpentane	ND	0.24	0,60	6/13/2016		1	1			
2-chloropentane	ND	0.27	0.60	6/13/2016						
n-heptane	ND	0.25	1.2	6/13/2016		1		İ		-
c-1,3-dichloropropylene	ND	0.20	0,60	6/13/2016		Ì				
methylcyclohexane	ND	0.26	1,2	6/13/2016		ĺ	1			
t-1,3-dichloropropylene	ND	0,20	0.60	6/13/2016				ĺ		
1,1,2-trichloroethane	ND	0.21	0.60	6/13/2016				i	ĺ	
2,3,4-trimethylpentane	ND	0.24	1.2	6/13/2016					ĺ	
toluene	0.05	0.27	0.60	6/13/2016	J	İ				
2-methylheptane	ND	0.20	1.2	6/13/2016				1	[
3-methylheptane	ND	0.23	1.2	6/13/2016		Ì		i		
1,2-dibromoethane	ДИ	0.20	0.60	6/13/2016				1		
n-octane	ND	0.19	1.2	6/13/2016		İ				
tetrachloroethylene	ND	0.24	0.60	6/13/2016						
chlorobenzene	ND	0.27	0.60	6/13/2016		1				
ethylbenzene	ND	0.27	1.2	6/13/2016						
m & p-xylene	0.01	0.27	2,4	6/13/2016	J	Ì				
styrene	ND	0.27	1.2	6/13/2016						
1,1,2,2-tetrachloroethane	ND	0.20	0.60	6/13/2016						
o-xylene	ND:	0.27	1,2	6/13/2016						
n-nonane	ND	0.22	0.60	6/13/2016			1			
Isopropylbenzene	ND	0.24	0.60	6/13/2016						
n-propylbenzene	ND	0.27	0.60	6/13/2016						
m-ethyltoluene	ND	0.11	0.60	6/13/2016						
p-ethyltoluene	ND	0.16	1.2	6/13/2016		1				
1,3,5-trimethylbenzene	ND	0.25	1.2	6/13/2016						
o-ethyltoluene	ND	0.13	1.2	6/13/2016						
1,2,4-trimethylbenzene	ND	0.27	0.60	6/13/2016			Ĺ			
n-decane	ND	0.27	1.2	6/13/2016	y5					
1,2,3-trimethylbenzene	ND	0,27	0.60	6/13/2016		1 1 2 4 t	diviti			
m-diethylbenzene	ND	0.27	1.2	6/13/2016	731	1000	ALA			
p-diethylbenzene	ND	0.27	0.60	6/13/2016						
n-undecane	ND	0.27	1.2	6/13/2016		10.340,71	PSIIA		<u> </u>	

Investigation Type: FIAIRODOR

Air Account NO: F60536E

Attachment: Samma Canister Sample Results

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Laboratory Analysis Results

Request Number: 1606001 Analysis Code: AP001VOC

Qualifier Notes:

ND - not detected

NQ - concentration can not be quantified due to possible interferences or coelutions.

SDL - Sample Detection Limit (Limit of Detection adjusted for dilutions).

SQL - Sample Quantitation Limit (Limit of Quantitation adjusted for dilution).

INV - Invalid,

J - Reported concentration is below SDL.

L - Reported concentration is at or above the SDL and is below the lower limit of quantitation.

B - Reported concentration exceeds the upper limit of instrument calibration.

M - Result modified from previous result.

T- Data was not confirmed by a confirmational analysis. Compound and/or results is tentatively identified.

F - Established acceptance criteria was not met due to factors outside the laboratory's control.

H - Not all associated hold time specifications were met. Data may be biased.

C - Sample received with a missing or broken custody seal.

R - Sample received with a missing or incomplete chain of custody.

I - Sample received without a legible unique identifier.

G - Sample received in an improper container.

U - Sample received with insufficient sample volume.

W - Sample recevied with insufficient preservation.

Quality control notes for AP001VOC samples.

D1-Sample concentration was calculated using a dilution factor of 4.01.

Investigation Type: <u>F141ROD</u>OR

Air Account NO: <u>F60536E</u>

Attachment: <u>Snuma</u> <u>Canister</u> Sample Results

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investigation Table

TCEQ laboratory customer support may be reached at Frank.Martinez@tceq.texas.gov

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Blue Ridge Landfill

RN #102610102

Investigation #1337795

Odor Log

investigator's odor intensity i fine Log									
Date of Investigation: 5/26/2016 Start Time 5:00 A.M. Name and Address of Alleged Source: Blue Ridge Landfill Investigator's Name: Print: Chris Crook Sign: Chrig Crook									
						<u> </u>	1000		•
Minutes	Odan Internativa VIII. I	M 6 V 6			!:a	Odar Inter	-:\//	M C VC	
Minutes	Odor Intensity VL, L,	IVI, 5,V5			linutes	Odor Inten	sity VL, L,	M, S, VS	\dashv
1 min	NO ODO	0			1 min				
2	NO ODO	0		3:	-				-
3	111			3					
4	911			3-					
5	111			3:					
7				3					
	NO ODER			3					_
9	No one			39					=
10	No 000 R			40					
11	NO 000			4					
12	(1)			42					
13	No oper			4:		-			
14	NO ODOR			4					
15	No oppo	_		4					
16				46					
17				4			,		
18				41					
19				49			•		
20				50)				7
21	·			5					
22				52					
23				5					1
24				54	 \$				
25				55	5				
26				56	5				
27				5	7				
28				58	3				
29				59)				
30				60)				
Offensiver Welghted Ave	ness: Highly V	_ Offensive		Unplea		Not		sant	
1 Min	VS	S	M		L		٧L	/	No Odor
10 Min	-		+						
1 Hour			-		+				

Investigation Type: FIARODOR
Air Account NO: FG0536E Attachment: ODOR LOG Page:) of