

Bryan W. Shaw, Ph.D., P.E., *Chairman*
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 14, 2018

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

Re: Investigation Request at:
Blue Ridge Landfill, 2200 FM 521 Rd, Fresno (Fort Bend County), TX 77545-8214
TCEQ MSW Permit No.: 1505A
Investigation No.: 1506317

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on July 13, 16, 17, 18, 19, 20 and 24, 2018 requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Bethany Batchelor of this office conducted an investigation on July 23, 2018. No violations are being alleged as a result of the investigation.

For more information about our complaint process, you may access the publication GI-278: *Do You Want to Make an Environmental Complaint? Do You Have Information or Evidence?* on our website at www.tceq.texas.gov.

We appreciate your assistance in this matter and your interest in protecting the quality of our environment. If you have any questions concerning these findings, or if we can be of further assistance, please contact Ms. Reyna Loosmore at this office (713) 767-3706.

Sincerely,

A handwritten signature in cursive script that reads "Alma L. Jefferson".

Alma L. Jefferson, Team Leader
Waste Section
Houston Region Office

ALJ/RLL/rsv

MSW PA_1505A_CP_20180723_Investigation
Texas Commission on Environmental Quality
Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

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

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1506317

Incident Numbers

288600	289068
288598	288616
288604	288603
288609	288687

Investigator: REYNA LOOSMORE

Site Classification TYPE 1

Conducted: 07/23/2018 -- 08/02/2018

NAIC Code: 562212

NAIC Code: 486210

SIC Code: 4922

SIC Code: 4953

SIC Code: 1521

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Compliance Investigation

Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

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

Local Unit: REGION 12 - HOUSTON

Activity Type(s): MSWCMPL - Investigation of MSW
complaint

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
PARTICIPATED IN	OPERATIONS SUPERVISOR	MR RICHARD LEMMEL	Phone (281) 835-6142
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MR CHANCE SEELY	Phone (281) 835-6142
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MS AMY KUBINSKI	Phone (281) 835-6142

BLUE RIDGE LANDFILL - FRESNO

7/23/2018 to 8/2/2018 Inv. # - 1506317

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Other Staff Member(s):

Role	Name
Investigator	BETHANY BATCHELOR
Supervisor	ALMA JEFFERSON
QA Reviewer	BETHANY BATCHELOR

Associated Check List

Checklist Name

MSW COMPLAINT INVESTIGATION

Unit Name

1505A Complaint

Investigation Comments:

INTRODUCTION

On July 13, 16, 17, 18, 19, 20 and 24, 2018, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received eight (8) complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on July 13, 14, 16, 17, 18, 19 and 22, 2018.

On July 23, 2018, Ms. Bethany Batchelor, Environmental Investigator of the TCEQ Houston Region Office, conducted an odor survey and an unannounced on-site Odor Complaint Investigation at BRL and in the surrounding area.

BACKGROUND

A Notice of Enforcement was issued to BRL on October 21, 2016 for failure to prevent nuisance odor conditions. On July 12, 2017, Agreed Order Docket No. 2016-1923-AIR-E was signed by the TCEQ. By letter dated April 10, 2018, the TCEQ Enforcement Division approved BRL Odor Control Plan thus requiring BRL to implement all provisions of the plan in accordance with the approved schedule.

GENERAL FACILITY AND PROCESS INFORMATION

BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

The landfill is authorized to dispose of MSW including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2, and Class 3 non-hazardous industrial solid waste; and certain special wastes. Liquid waste will be accepted at the Liquid Waste Bulking Facility for stabilization and subsequent disposal. BRL may not accept regulated hazardous waste, prohibited polychlorinated biphenyls, or untreated medical waste.

The waste acceptance hours are Monday through Friday, 4:00 a.m. to 5:00 p.m., and Saturdays from 5:30 a.m. to 12:00 p.m. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

TCEQ Incident Nos. 288598, 288600, 288603, 288604, 288616, 288687, 288609 and 289068.

Description of Alleged Effects:

No health effects were described as occurring because of the odors.

Meteorological data at the time of the odor survey:

Date: July 23, 2018

Wind Direction: west – westsouthwest (WSW)

BLUE RIDGE LANDFILL - FRESNO

7/23/2018 to 8/2/2018 Inv. # - 1506317

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Wind Speed: average 7 mph

Outdoor Temperature: 79.1 – 83.8 °F

Meteorological data taken from TCEQ's continuous air monitoring station Manvel Croix Park C84 weather station (Attachment 1).

Odor Survey (OS):

The investigator arrived at the first OS point located at the 4400 block of Bluebonnet Drive in Houston and crosswind of BRL. OS No. 1 was conducted at 5:10 a.m. No odors were detected during the 15 minutes spent at OS No. 1.

OS No. 2, located near the intersection of Trinity Bay and Biscayne Bay Drive in Pearland and downwind of the Sewer Lift Station, was conducted at 5:40 a.m. No odors were detected during the 15 minutes spent at OS No. 2.

OS No. 3, located near the intersection of Trinity Bay Drive and Swift Creek Drive in Pearland and downwind of BRL, was conducted at 6:05 a.m. Garbage odors were intermittently detected during four (4) of the 25 minutes spent at OS No. 3, averaging to a very light intensity.

OS No. 4, located near the intersection of Hinsdale Springs Lane and Estes Brook Lane in Houston and downwind of Lonestar Landfill, was conducted at 6:45 a.m. No odors were detected during the 15 minutes spent at OS No. 4.

OS No. 5, located at the 40 block of W Riley Road in Pearland and downwind of BRL and Akzo Nobel Surface Chemistry (Akzo), was conducted at 7:15 a.m. Garbage odors were detected during one (1) of the 15 minutes spent at OS No. 5, averaging to a very light intensity.

OS No. 6, located near the intersection of Anagnost Road and Fellows Road in Houston and downwind of Brenntag Southwest/Syntech Chemicals, was conducted at 7:40 a.m. No odors were detected during the 15 minutes spent at OS No. 6.

OS No. 7, located near the intersection of N Spectrum Boulevard and Kirby Drive in Pearland and downwind of Brenntag Southwest/Syntech Chemicals and Reflection Bay Wastewater Treatment Plant (WWTP), was conducted at 8:10 a.m. Fishy chemical/caustic ammonia odors were intermittently detected during 11 of the 25 minutes spent at OS No. 7, averaging to a very light intensity.

An aerial view map of the OS locations and the OS logs are included in Attachment 1.

Summary of the on-site investigation:

Following the odor survey, the investigator arrived at BRL and met with Mr. Chance Seely, Environmental Specialist; Ms. Amy Kubinski, Environmental Specialist, and Mr. Richard Lemmel, Operations Supervisor, to whom the purpose and scope of the investigation were explained.

BRL receives MSW in the MSW cell of the landfill from Monday through Saturday. Six inches of soil is applied at the end of each operating day. The facility representatives drove the investigator to the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained a copy of the MSW and Class 1 cover logs for July 2018 (Attachment 2). The cover logs indicated that soil is applied to the working faces as required.

Description of Odor:

Garbage and fishy chemical/caustic ammonia odors were detected during the odor survey.

Description of the Effects on the Investigator:

No health effects were experienced by the investigator.

Description of the Terrain Features of the Area:

BLUE RIDGE LANDFILL - FRESNO

7/23/2018 to 8/2/2018 Inv. # - 1506317

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Terrain is flat with residences and businesses.

Location of the Source of the Odor:

According to the odor surveys, the investigator detected odors from the directions of BRL and Brenntag Southwest/Syntech Chemicals.

Odor Frequency, Intensity, Duration and Offensiveness (FIDO) Chart Evaluation:

According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive", the odor of landfill gas/leachate as "highly offensive" and the odor of fishy ammonia as "unpleasant". Landfill garbage and/or gas/leachate odors were previously detected coming from the direction of BRL on June 28 and July 12, 2018. Therefore, the frequency of odors documented by the investigator is a weekly occurrence.

CONCLUSION

According to FIDO protocol, nuisance odor conditions were not confirmed during the investigation conducted on July 23, 2018. The complaints are closed.

No Violations Associated to this Investigation

Signed [Signature]
Environmental Investigator

Date 8/14/18

Signed Alma L. Jefferson
Supervisor

Date 08/14/2018

Attachments: (in order of final report submittal)

☐ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type): NO ACTION LETTER

☐ Investigation Report

☐ Sample Analysis Results

☐ Manifests

☐ Notice of Registration

☒ Maps, Plans, Sketches

☐ Photographs

☐ Correspondence from the facility

☒ Other (specify):

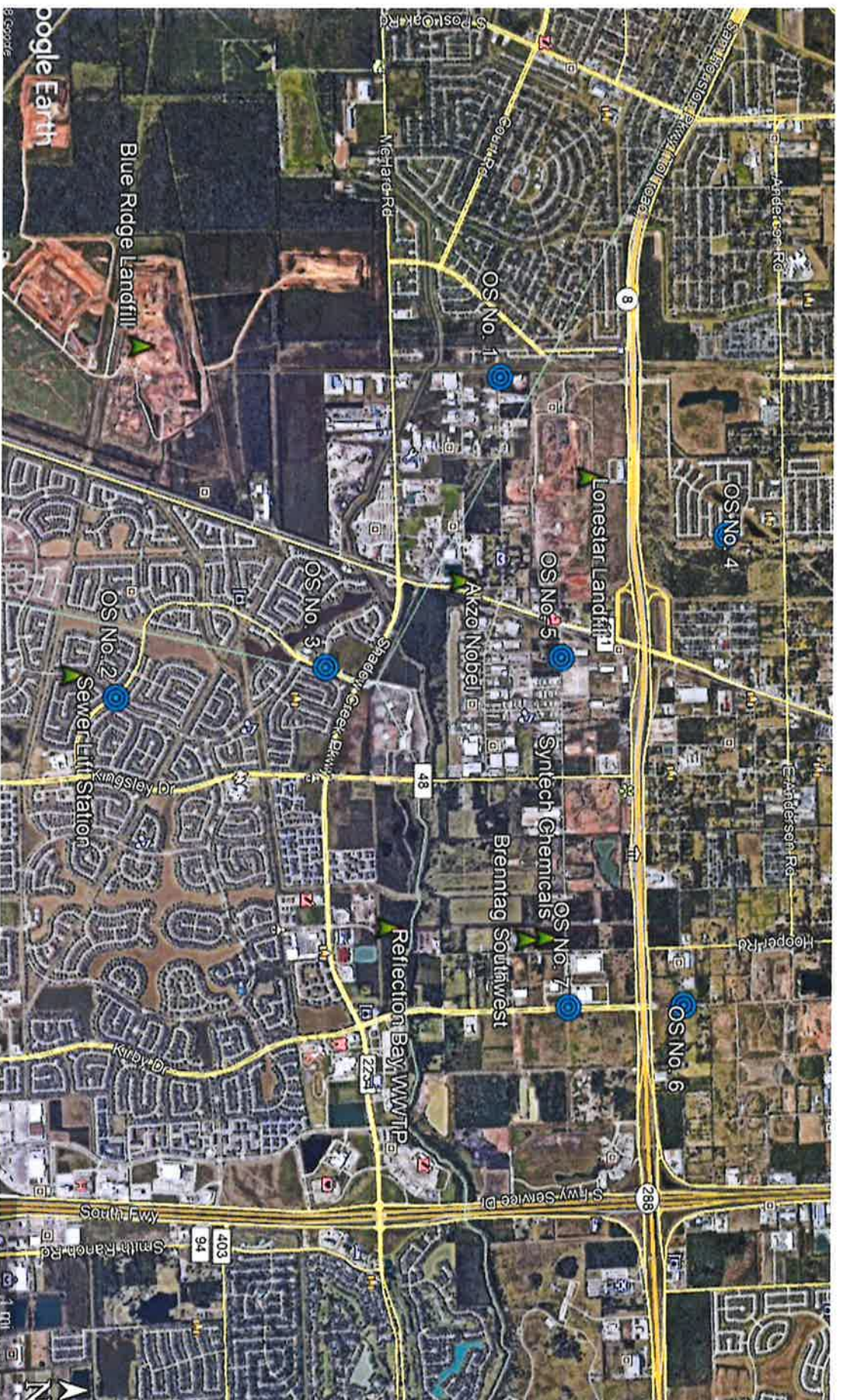
See list of Attachment

**Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on July 23, 2018**

List of Attachments

Attachment 1	Meteorological Information, Map of Odor Survey location and Odor Log
Attachment 2	July 2018 Cover Logs

ATTACHMENT 1



TCEQ Waste Section

July 23, 2018 Odor Surveys

Parameter Measured	Morning												Afternoon							
	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	
<u>Nitric Oxide</u>	-0.0	-0.1	-0.2	-0.2	-0.1	-0.2	0.1	1.3	1.2	0.9	2.3	0.4	2.6	9.8	75.6	3.2	-0.1	-0.2	-0.3	
<u>Nitrogen Dioxide</u>	0.8	1.0	1.3	1.4	1.1	0.9	2.0	2.0	1.8	2.1	5.2	4.2	8.9	15.8	39.7	4.1	1.4	1.1	1.0	
<u>Oxides of Nitrogen</u>	0.7	0.9	1.1	1.2	0.9	0.6	2.1	3.2	3.0	2.8	7.4	4.6	11.3	25.2	112.9	7.1	1.2	0.8	0.8	
<u>Ozone</u>	7	6	6	8	9	12	11	14	17	22	26	36	40	41	28	41	43	42	25	
<u>Wind Speed</u>	3.2	3.4	3.5	4.5	5.0	6.0	6.5	7.5	7.8	7.8	5.7	5.8	6.4	6.0	6.1	6.2	5.9	6.0	8.3	
<u>Resultant Wind Speed</u>	3.1	3.4	3.2	4.3	4.6	5.5	6.2	7.0	7.2	7.3	4.9	5.0	5.2	5.2	5.4	5.8	5.5	5.7	8.0	
<u>Resultant Wind Direction</u>	208	207	225	211	227	249	258	250	243	253	248	264	232	252	248	203	211	211	199	
<u>Maximum Wind Gust</u>	7.3	6.7	7.8	10.4	11.7	14.1	15.7	16.8	17.7	17.5	14.8	12.2	12.7	14.9	14.6	14.1	12.6	11.1	15.7	
<u>Std. Dev. Wind Direction</u>	13	14	24	18	22	24	17	22	23	21	30	30	36	30	28	21	22	17	15	
<u>Outdoor Temperature</u>	77.4	76.9	76.8	77.8	78.7	79.1	79.1	80.9	83.8	86.9	89.4	91.2	93.6	95.5	96.5	97.0	97.6	96.6	92.1	
Parameter Measured	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	
	Morning												Afternoon							
Maximum values for each parameter are bold within the table. Minimum values are bold italic .																				
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.																				

PLEASE NOTE: This data has not been verified by the TCEQ and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TCEQ ambient monitoring sites and may include data collected by other outside agencies. This data is updated hourly. All times shown are in local standard time unless otherwise indicated.

Following EPA reporting guidelines, negative values may be displayed in our hourly criteria air quality data, down to the negative of the EPA listed Method Detection Limit (MDL) for the particular instrument that made the measurements. The reported concentrations can be negative due to zero drift in the electronic instrument output, data logger channel, or calibration adjustments to the data. Prior to 1/1/2013, slightly negative values were automatically set to zero.

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Last Modified Tuesday, 30 Jan 2018

① Downwind of BRL

Supplemental Investigator's Odor Intensity Time Log

Investigator: Beth Batchelor
Date of Investigation: 7/23/18

Location: ~4410 Bluebonnet Dr., Houston, TX
Start Time: 5:10 am
Wind: S/SSW, 7 mph

5:10

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	none
3	none
4	none
5	none
6	none
7	none
8	none
9	none
10	none
11	none
12	none
13	none
14	none
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5:25

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: N/A

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

② Downwind of Sewer Lift Station

Supplemental Investigator's Odor Intensity Time Log

Investigator: Bethany Batchelor
Date of Investigation: 7/23/18

Location: Trinity Bay + Biscayne Bay
Start Time: 5:40 am

5:40

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	none
3	none
4	none
5	none
6	none
7	none
8	none
9	none
10	none
11	none
12	none
13	none
14	none
15	none
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5:55

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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41	
42	
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Odor Description: N/A

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

③ Downwind of BRL, inside Shadowcreek Ranch

Supplemental Investigator's Odor Intensity Time Log

Investigator: Bethany Batchelor Location: Trinity Bay Just north of Swift Creek
Date of Investigation: 7/23/18 Start Time: 6:03

Minutes	Odor Intensity VL, L, M, S, VS
6:05 1 min	VL
06 2	none
07 3	none
08 4	none
09 5	none
10 6	none
11 7	VL
12 8	VL
13 9	none
14 10	VL
15 11	none
16 12	none
17 13	none
18 14	none
6:20 15	none
21 16	none
22 17	none
23 18	none
24 19	none
25 20	none
26 21	none
27 22	none
28 23	none
29 24	none
6:30 25	none
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: garbage

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

4/25 = 0.16 weighted avg.

④ Downwind of Aonestar Landfill

Supplemental Investigator's Odor Intensity Time Log

Investigator: Bethany Batchelor
Date of Investigation: 7/23/18

Location: Hinsdale Springs + Estes State Ln.
Start Time: 6:45

6:45

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	none
3	none
4	none
5	none
6	none
7	none
8	none
9	none
10	none
11	none
12	none
13	none
14	none
15	none
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7:00

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
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42	
43	
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Odor Description: N/A

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Investigator FIDO Log

1. Characterize the odor to determine which Offensiveness table to use (Not Unpleasant to Highly Offensive)
2. Assess the Intensity of odor (Very Light to Very Strong), for variable intensities use Supplemental Investigator's Odor Intensity Time Log.
3. Determine the total Duration of the odor(s) (1 minute to 24 hours)
4. Evaluate the Frequency of odor occurrence (Single Occurrence to Daily)
5. Identify the block on the chart that corresponds to the information from Steps 1-4 and determine if a nuisance condition exists.

- ### Investigator FIDO Log
1. Characterize the odor to determine which Offensiveness table to use (Not Unpleasant to Highly Offensive)
 2. Assess the Intensity of odor (Very Light to Very Strong), for variable intensities use Supplemental Investigator's Odor Intensity Time Log.
 3. Determine the total Duration of the odor(s) (1 minute to 24 hours)
 4. Evaluate the Frequency of odor occurrence (Single Occurrence to Daily)
 5. Identify the block on the chart that corresponds to the information from Steps 1-4 and determine if a nuisance condition exists.

[illegible]

⑤ Downwind of Akzo Nobel

Supplemental Investigator's Odor Intensity Time Log

Investigator: Beth Batchelor
Date of Investigation: 7/23/18

Location: 48 W Riley Rd.
Start Time: 7:15 am

7:15

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	none
3	none
4	none
5	none
6	none
7	none
8	none
9	none
10	VL
11	none
12	none
13	none
14	none
15	none
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7:30

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
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39	
40	
41	
42	
43	
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Odor Description: garbage

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

$1/15 = 0.067$ weighted avg.

1881-82 25/10/81 10/11/81 10/11/81

1881-82 25/10/81 10/11/81

1881-82 25/10/81 10/11/81

1881-82

1881-82

1881-82

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1881-82

8 Downwind & Brenntag/Syntech
6

Supplemental Investigator's Odor Intensity Time Log

Investigator: Beth Batchelor
Date of Investigation: 7/23/18

Location: Anagnost & Fellows Rd
Start Time: 7:40 am

7:40

41

42

43

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45

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49

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51

52

53

54

7:55

Minutes	Odor Intensity VL, L, M, S, VS
1 min	none
2	none
3	none
4	none
5	none
6	none
7	none
8	none
9	none
10	none
11	none
12	none
13	none
14	none
15	none
16	none
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: N/A

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

⑦ Downwind & Reflection Bay WWTP

Supplemental Investigator's Odor Intensity Time Log

Investigator: Bethany Batchelor Location: N spectrum Blvd & Kirby Dr.
 Date of Investigation: 7/23/18 Start Time: 8:10

8:10

Minutes	Odor Intensity VL, L, M, S, VS
1 min	VL 1
2	none
3	L 2
4	none
5	VL 1
6	L 2
7	none
8	VL 1
9	none
10	none
11	none
12	L 2
13	none
14	none
15	none
16	none
17	L 2
18	VL 1
19	L 2
20	L 2
21	M 3
22	none
23	none
24	none
25	none
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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Odor Description: fishy chemical/caustic, ammonia

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min			183 = 3	612 = 12	411 = 4	
10 Min						
1 Hour						

19/25 = 0.76 weighted avg.

ATTACHMENT 2

COVER APPLICATION LOG

MSW

Month / Year: July 2018

Daily Cover	Approved Alternate Daily Cover	Elevation	Inspection Date of Daily Cover	Erosion or Leachate Seep Detected	Date Erosion or Leachate Seep Corrected	Corrective Action	Soil Stockpile Required (yd ³)	Rain (inches)	Rain ≥ 0.5"	Intermediate Cover			Final Cover			Inspection Date of Intermediate & Final Cover	Erosion or Leachate Seep Detected	Date Erosion or Leachate Seep Corrected	Corrective Action	Final Cover Certification Report Reference	Supervisor Signature
										12" Soil	Grid Area	T ²	Method	AMT	Grid Area	T ²	Method				
1	Grid Area	T ²	Method	AMT	Grid Area	T ²	Method														
2	750	555-56	G	-	-	-	-	38-41	✓												
3	750	55-56	B	-	-	-	-	41-44	✓												
4	750	55-56	B	-	-	-	-	47-47	✓												
5	750	55-56	B	-	-	-	-	47-51	✓												
6	750	55-56	B	-	-	-	-	51-55	✓												
7	550	55-56	B	-	-	-	-	55-56	✓												
8	750	55-56	B	-	-	-	-	41-46	✓												
9	750	55-56	B	-	-	-	-	46-50	✓												
10	750	55-56	B	-	-	-	-	50-54	✓												
11	750	55-56	B	-	-	-	-	54-57	✓												
12	750	55-56	B	-	-	-	-	57-60	✓												
13	750	55-56	B	-	-	-	-	60-62	✓												
14	500	55-56	B	-	-	-	-														
15	750	55-56	B	-	-	-	-	40-44	✓												
16	750	55-56	B	-	-	-	-	44-48	✓												
17	750	55-56	B	-	-	-	-	48-52	✓												
18	750	55-56	B	-	-	-	-	52-56	✓												
19	750	55-56	B	-	-	-	-	56-60	✓												
20	500	55-56	B	-	-	-	-	60-62	✓												
21	500	55-56	B	-	-	-	-														
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AMT = Amount of cover (feet) in yd³ or alternate daily cover in bags or tarp area
T = Thickness in inches
Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On
Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.
Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.
Corrective Action: R = Restoring cover material; G = Grading; M = Compacting; S = Seeding
SOP Section 7.24 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum allocated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.
Signature certifies work accomplished as stated in the Cover Application Log

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18	Graded to north exposure Phase III north slope RR-cut 51-55
19	Graded to north exposure Phase III north slope RR-cut 51-55
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COVER APPLICATION LOG CLASS I NON HAZARDOUS

CLASS 1

Month / Year: July 2018

Daily Cover	Approved Alternate Daily Cover	Elevation	Inspection Date or Daily Cover ¹	Erosion or Leachate Seep Detected ²	Date Erosion or Leachate Seep Corrected ³	Corrective Action ⁴	Soil Stockpile Required ⁵ (yd ³)	Rain (inches) 2.0-5.4"	Rain (inches) >5.4"	Intermediate Cover	Final Cover	Inspection Date of Intermediate & Final Cover ⁶	Erosion 2.4" or Greater Detected ⁷	Date Erosion Corrected ⁸	Corrective Action ⁹	Final Cover Certification Report Reference	Supervisor Signature ¹⁰
6" Soil	Spray-On or Tarps	MSL	Uninspected	Yes	Corrected			Yes	Yes	12" Soil	Per Final Closure Plan	Uninspected	Yes				
AMT ¹¹	Grid Area	T ¹²	Method ¹³							AMT ¹¹	Grid Area	T ¹²	Method ¹³				
1																	
2	500	6" 30	B	✓													
3	500	6" 30	B	✓													
4	500	6" 30	B	✓													
5	500	6" 30	B	✓													
6	500	6" 30	B	✓													
7																	
8																	
9	500	6" 30	B	✓													
10	500	6" 30	B	✓													
11	500	6" 30	B	✓													
12	500	6" 30	B	✓													
13	500	6" 30	B	✓													
14																	
15																	
16	501	6" 31	B	✓													
17	501	6" 31	B	✓													
18	501	6" 31	B	✓													
19	500	6" 32	B	✓													
20	500	6" 32	B	✓													
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AMT = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine; B = Soil by Heavy Equipment; S = Spray-On

Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay.

Corrective Action: R = Restoring cover material; G = Grading; M = Compacting; S = Seeding

SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

Signature certifies work accomplished as stated in the Cover Application Log

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