

MSW PA_1505A_CO_20170531_Investigation Report
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 # 1416901

Incident Numbers

259045	258786
259052	260155
259064	260174
258789	260165
258787	259066
260142	260157
258794	260181
258796	260143
259073	258934
260175	258788
259055	258780
259048	259042
260154	260166
258782	260159
259061	258797
258791	259756
260177	258800
260144	258785
260163	260183
260173	258779
259050	259068
258783	259043
259060	259062
260179	260161
259572	259056

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 05/31/2017 -- 07/12/2017

SIC Code: 1521

SIC Code: 4953

NAIC Code: 562212

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): MSWC MPL - Investigation of MSW
complaint

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (281) 668-9739
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669

Other Staff Member(s):

Role	Name
QA Reviewer	TOM COLLINS
Supervisor	ALMA JEFFERSON

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	COMPLAINT

Investigation Comments:**INTRODUCTION**

On May 25, 26, 29, 30, June 5, 6, and 7, 2017, the Texas Commission on Environmental Quality Houston Region (TCEQ Houston) Waste Section received 49 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 May 8, 24, 25, 29, 31, June 3, 4, 5 and 6, 2017. In addition, a complaint was received on June 7, 2017 that alleged ponded water at the landfill on June 3, 2017.

On May 31, 2017, Mr. Richard Blackney, Environmental Investigator of TCEQ Houston, conducted an odor survey in and around the Shadow Creek Ranch area in Pearland, and on June 8, 2017 conducted an odor survey and an on-site investigation at BRL.

BACKGROUND

The investigator previously conducted an on-site inspection at BRL on May 25, 2017 after investigators from the Water Section of TCEQ Houston detected landfill odors on an odor survey in the Pearland area that day. See TCEQ Consolidated Compliance and Enforcement Data System Investigation No. 1416863 for more information.

At the time of this investigation, BRL had active alleged violations for failure to prevent nuisance odor conditions and failure to perform surface emissions monitoring in accordance with 40 Code of Federal Regulations Part 60. Agreed Order Docket No. 2016-1923-AIR-E was proposed as a result of the alleged violations. The order was signed by the TCEQ on July 12, 2017, and includes technical requirements for minimizing odors.

GENERAL FACILITY AND PROCESS INFORMATION

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 1. 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 am to 5:00 pm, and Saturdays from 5:30 am to 12:00 pm. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

See confidential files (TCEQ Incident Nos. 258779, 258780, 258782, 258783, 258785, 258786, 258787, 258788, 258789, 258791, 258794, 258796, 258797, 258800, 258934, 259042, 259043, 259045, 259048, 259050, 259052, 259055, 259056, 259060, 259061, 259062, 259064, 259066, 259068, 259073, 259572, 259756, 260142, 260143, 260144, 260154, 260155, 260157, 260159, 260161, 260163, 260165, 260166, 260173, 260174, 260175, 260177, 260179, 260181 and 260183).

Description of Alleged Effects:

Nausea, difficulty breathing and dizziness were alleged as resulting from the odors.

Meteorological data at the time of the May 31, 2017 odor survey:

Resultant Wind direction: East-Northeast to East-Southeast

Resultant Wind Speed: 4.2 to 4.8 mph

Temperature: 81.6 to 82.7 °F

Meteorological data taken from TCEQ's continuous air monitoring stations.

May 31, 2017 Odor Survey (OS):

At 9:32 a.m., the investigator arrived at the first survey point located at the 200 block of McIntyre Lane near Pearland. No odors were detected during the 15 minutes spent at OS Site No. 1.

At 9:52 a.m., the investigator arrived at the second survey point located on the 12300 block of Shadow Creek Parkway in Pearland. No odors were detected during the 10 minutes spent at OS Site No. 2.

At 10:11 a.m., the investigator arrived at the third survey point located on Almeda School Road ½ mile north of Shadow Creek Parkway near Pearland. No odors were detected during the 10 minutes spent at OS Site No. 3.

At 10:30 a.m., the investigator arrived at the fourth survey point located at the intersection of McHard Rd. and S. Post Oak Rd. in Houston. OS No. 4 was conducted downwind of BRL. No odors were detected during the 15 minutes spent at OS Site No. 4.

At 10:56 a.m., the investigator arrived at the fifth survey point located at the 2700 block of Biscayne Bay Dr. in Pearland. No odors were detected during the 10 minutes spent at OS Site No. 5.

At 11:15 a.m., the investigator arrived at the sixth survey point located at the intersection of West Dr. and Bluebonnet Dr. near Pearland. No odors were detected during the 10 minutes spent at OS Site No. 6.

Aerial view maps of the May 31, 2017 OS locations, OS logs and meteorological information are included in Attachment 2.

Summary of the on-site investigation:

On June 8, 2017, the investigator arrived at BRL, and met with Mr. Matt Montagna, Landfill Operations Manager, to whom the purpose and scope of the investigation were explained.

BRL has a system of misters for the purpose of neutralizing odors. The investigator viewed the misting system in operation. BRL also operates another odor control system using vapor rather than mist.

BRL receives Class I waste in its Class 1 disposal cell Monday through Friday, and receives MSW in the MSW cell Monday through Saturday. Six inches of soil is applied to the Class 1 cell and MSW cell at the end of each operating day. The investigator viewed the MSW and Class 1 working faces, by which piles of soil were observed. The investigator obtained copies of the MSW cover logs for May and June 2017 (Attachment 3).

The cover logs indicated that "low spots" on Phase I of the landfill were graded and filled on May 8, 9, 10, 11, 13, 15, 16 and 17, 2017. Following rains that occurred on May 21, 22 and 23, 2017, ponded water was found on the

5/31/2017 to 7/12/2017 Inv. # - 1416901

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"top deck" of Phase III on May 24, 2017. On May 26, 2017, that area was filled and graded using 18 truckloads of dirt. According to the cover logs, further rain was received as follows: 1.3" on May 29, 0.1" on May 31, 0.1" on June 1, 0.6" on June 2, 1.0" on June 3, 1.5" on June 4, 1.8" on June 5, 0.2" on June 6, and 0.2" on June 7.

The most recent Weekly Inspection Report, completed June 2, 2017, was obtained and is included in Attachment 3. It noted that water was in the new cell of the landfill.

Regarding ponded water over waste at landfills, it must be eliminated and the area in which the ponding occurred must be filled in and regraded within seven days of the occurrence. Records of ponded water preventive and corrective activities will be kept in the Site Operating Record. At the time of the investigation, water was observed on the bottom liner of the newly constructed cell of the landfill. This water was not over waste. On the landfill cover over waste, there were some areas with muddy soil that appeared to be where ponded water may have been previously. A photograph is included in Attachment 4.

See the Additional Information and Summary of Investigation Findings section for more on ponded water.

Meteorological data at the time of the June 8, 2017 odor survey:

Resultant Wind direction: North-Northeast

Resultant Wind Speed: 3.0 to 4.5 mph

Temperature: 82.4 to 84.8 °F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 5).

June 8, 2017 Odor Survey (OS):

Following the on-site inspection, the investigator arrived at the first survey point at 11:05 a.m. OS Site No. 1 was located on West Rd. between McHard Rd. and South Dr. near Pearland. No odors were detected during the 10 minutes spent at the site.

At 11:23 a.m., the investigator arrived at the second survey point located on the 12300 block of Shadow Creek Parkway in Pearland. No odors were detected during the 10 minutes spent at OS Site No. 2.

At 11:45 a.m., the investigator arrived at the third survey point located on Alameda School Road ½ mile north of Shadow Creek Parkway near Pearland. No odors were detected during the 10 minutes spent at OS Site No. 3.

At 12:02 p.m., the investigator arrived at the fourth survey point located on the 2700 block of Biscayne Bay Dr. in Pearland. No odors were detected during the 10 minutes spent at OS Site No. 4.

At 12:28 p.m., the investigator arrived at the fifth survey point located near the intersection of Kentucky Rd. and Evergreen St. in Fresno. OS No. 5 was located downwind of BRI. No odors were detected during the 15 minutes spent at OS Site No. 5.

At 12:47 p.m., the investigator arrived at the sixth survey point located at the intersection of Evergreen St. and California St. in Fresno. No odors were detected during the 10 minutes spent at OS Site No. 6.

At 1:16 p.m., the investigator arrived at the seventh survey point located at the intersection of West Dr. and Bluebonnet Dr. near Pearland. No odors were detected during the 10 minutes spent at OS Site No. 7.

Aerial view maps of the June 8, 2017 OS locations, OS logs and meteorological information are included in Attachment 5.

Description of Odor:

Odors typical of landfill garbage were not 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:

Terrain is flat with residences and businesses.

Location of the Source of the Odor:
The alleged source of the odor is BRL.

Odor Frequency, Intensity, Duration, and Offensiveness (FIDO) Chart Evaluation:
According to the FIDO protocol, the odor of landfill garbage is characterized as "offensive". At the time of the investigation, landfill odors had previously been documented by Mr. Blackney on April 17 and 26, 2017, and by the Water Section investigators on May 25, 2017. Therefore, the frequency of odors was a "monthly occurrence".

ADDITIONAL INFORMATION

The investigator returned to the landfill on June 21, 2017 and obtained the MSW Cover Log for June 2017 (Attachment 6). The Cover Log indicated that recovering, filling and grading was conducted at the landfill on June 10, 2017, and that grading was also conducted on June 12, 2017. Ponded water was not noted.

CONCLUSION

According to FIDO protocol, nuisance odor conditions were not confirmed during the investigation conducted on May 31 and June 8, 2017.

Documentation obtained during this investigation indicated that preventive and corrective actions are conducted regarding ponded water. Corrective action for ponded water appeared to have been conducted within seven days of the end of rainfall events. No violations were noted regarding ponded water.

No Violations Associated to this Investigation

Signed

Richard Blackney
Environmental Investigator

Date

8-25-2017

Signed

Alma L. Jefferson
Supervisor

Date

08/25/2017

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 attachments



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 25, 2017

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, TX 77545-8214
TCEQ MSW Permit No.: 1505A
Investigation No.: 1416901

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on May 25, 25, 29, 30, Jun 3 5, 6, and 7, 2017 requests for assistance regarding the odor and alleged ponding of water at the above-referenced facility. In response to this request, Richard Blackney of this office conducted an investigation on May 31, 2017 and on June 8, 2017 conducted an odor survey and on-site investigation. 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 Mr. Blackney at this office (713) 767-3718.

Sincerely,

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

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

ALJ/RLB/rsv

Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on May 31 and June 8, 2017

List of Attachments

Attachment 1	Central Registry Information for Blue Ridge Landfill
Attachment 2	Meteorological Data, Map of Odor Survey locations and Odor Logs for May 31, 2017
Attachment 3	May and June 2017 cover logs, and June 2, 2017 Weekly Inspection Sheet
Attachment 4	Meteorological Data, Map of Odor Survey locations and Odor Logs for June 8, 2017
Attachment 5	June 2017 cover log

ATTACHMENT 1

[Questions or Comments >>](#)[Query Home](#)[Create New Entity](#)[Add Records](#)[Find Search](#)[Document Search](#)[Search Results](#)[TCEQ Home](#)

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN102610102
Name: BLUE RIDGE LANDFILL
Primary Business: MUNICIPAL SOLID WASTE LANDFILL
Street Address: 2200 FM 521 RD, FRESNO TX 77545 8214
County: FORT BEND
Nearest City: FRESNO
State: TX
Near ZIP Code: 77545
Physical Location: LOCATED ON 2200 FM 521

Affiliated Customers - Current:

Your Search Returned 5 Current Affiliation Records ([View Affiliation History](#))

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-5 of 5 Records

CN Number	Customer Name	Customer Role(s)	Details
CN600343825	BFI WASTE SYSTEMS OF NORTH AMERICA INC	OWNER OPERATOR	
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	
CN602820599	BLUE RIDGE LANDFILL TX LP	OWNER OPERATOR	
CN603713595	GRISHAM & JHA GROUP LLC	OPERATOR	

Industry Type Codes

Code	Classification	Name
562212	NAICS	Solid Waste Landfill
1521	SIC	General Contractors-Single-Family Houses
1629	SIC	Heavy Construction
1794	SIC	Excavation Work
4953	SIC	Refuse Systems

Permits, Registrations, or Other Authorizations

There are a total of 21 programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-21 of 21 Records

Program	ID Type	ID Number	ID Status
AIR EMISSIONS INVENTORY	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	AFS NUM	4815700111	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	32691	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	51882	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	55939	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77271	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77703	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	81034	ACTIVE
AIR OPERATING PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR OPERATING PERMITS	PERMIT	1472	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	09429	ACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	64950	ACTIVE
PETROLEUM STORAGE TANK STAGE II			
STORMWATER	PERMIT	TXR05N415	CANCELLED
STORMWATER	PERMIT	TXR05S302	ACTIVE
STORMWATER	PERMIT	TXR15N296	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

ATTACHMENT 2


**TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY**

Calibration Air Quality Maps Data Reports AutoQC Water Data Comms Log Files Configuration Site Info

Manvel Croix Park C84 Daily Summary

Use the controls below to select a different date or time format. Click on the Generate Report button once you have made your selections.

Click on the Plot Data button once the tabular report has been generated to open a separate window containing data plots.

CAMS 84 Manvel Croix Park C84 ☒ Select a different site

Month: Day: Year: Time Format:

May 31 2017 12 Hour (AM/PM) Generate Report Plot Data

☒ Green underline for validated data

☒ Include Non-Public Monitors

☐ Emulate WWW Report

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for Wednesday, May 31, 2017. All times shown are in CST.

Parameter Measured	Morning													Afternoon													Pa 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	7:00	8:00	9:00	10:00	11:00			
Nitric Oxide	0.0	-0.1	0.0	0.0	0.1	0.9	2.2	2.3	1.3	0.4	0.2	PMA	0.0	-0.0	0.2	0.1	0.1	0.2	0.1	0.1	0.0	-0.1	0.0	-0.0	Nitric Oxide		
Nitrogen Dioxide	1.8	1.6	2.4	4.0	9.1	11.8	10.6	8.1	5.2	3.5	3.6	PMA	2.3	2.0	2.5	1.9	2.1	3.1	2.7	4.3	4.9	1.3	0.6	0.6	Nitrogen Dioxide		
Oxides of Nitrogen	1.8	1.5	2.4	4.1	9.2	12.8	12.8	10.4	6.6	3.9	3.9	PMA	2.3	2.0	2.7	2.0	2.2	3.3	2.8	4.4	5.0	1.3	0.7	0.6	Oxides of Nitrogen		
Ozone	26	25	23	21	12	9	12	19	27	37	41	PMA	PMA	48	43	35	36	32	28	21	18	24	22	20	Ozone		
Wind Speed	2.9	3.7	3.5	2.0	2.3	3.5	4.6	4.9	4.9	5.0	5.1	5.3	4.3	6.5	8.0	6.7	7.9	7.7	6.8	2.9	3.1	5.4	3.7	1.6	Wind Speed		
Resultant Wind Speed	2.7	3.6	3.5	1.9	2.2	3.4	4.3	4.6	4.4	4.3	4.2	4.8	3.7	6.0	7.6	6.2	7.5	7.5	6.6	2.7	3.0	4.3	3.1	1.4	Resultant Wind Speed		
Resultant Wind Direction	59	58	61	68	35	22	50	47	50	70	95	104	94	101	127	124	138	142	150	137	150	205	273	318	Resultant Wind Direction		
Maximum Wind Gust	5.7	5.7	7.1	6.7	4.8	6.3	10.9	9.2	9.6	10.0	11.2	11.5	10.2	13.0	16.4	12.2	14.7	13.4	13.2	5.9	5.4	15.0	7.2	7.0	Maximum Wind Gust		
Std. Dev. Wind Direction	18	13	11	13	18	17	21	21	25	31	33	27	28	23	18	21	18	13	13	22	16	36	31	33	Std. Dev. Wind Direction		
Outdoor Temperature	74.2	73.6	73.3	73.3	73.0	73.0	73.6	75.3	77.7	79.7	81.6	82.7	83.8	84.3	82.9	83.8	83.7	82.1	80.7	79.0	77.9	76.7	74.5	73.9	Outdoor Temperature		
Internal Station Temperature	81.6	81.7	81.7	81.6	81.7	81.7	81.8	82.0	82.5	82.6	82.8	84.7	85.7	83.2	83.1	83.0	82.7	82.6	82.3	82.0	81.8	81.9	82.0	81.8	Internal Station Temperature		
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	7:00	8:00	9:00	10:00	11:00	Pa Measured		
Morning																											
x.xx indicates the data has been validated.																											
Maximum values for each parameter are bold within the table. Minimum values are <i>bold italic</i> .																											
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.																											

Previous Day

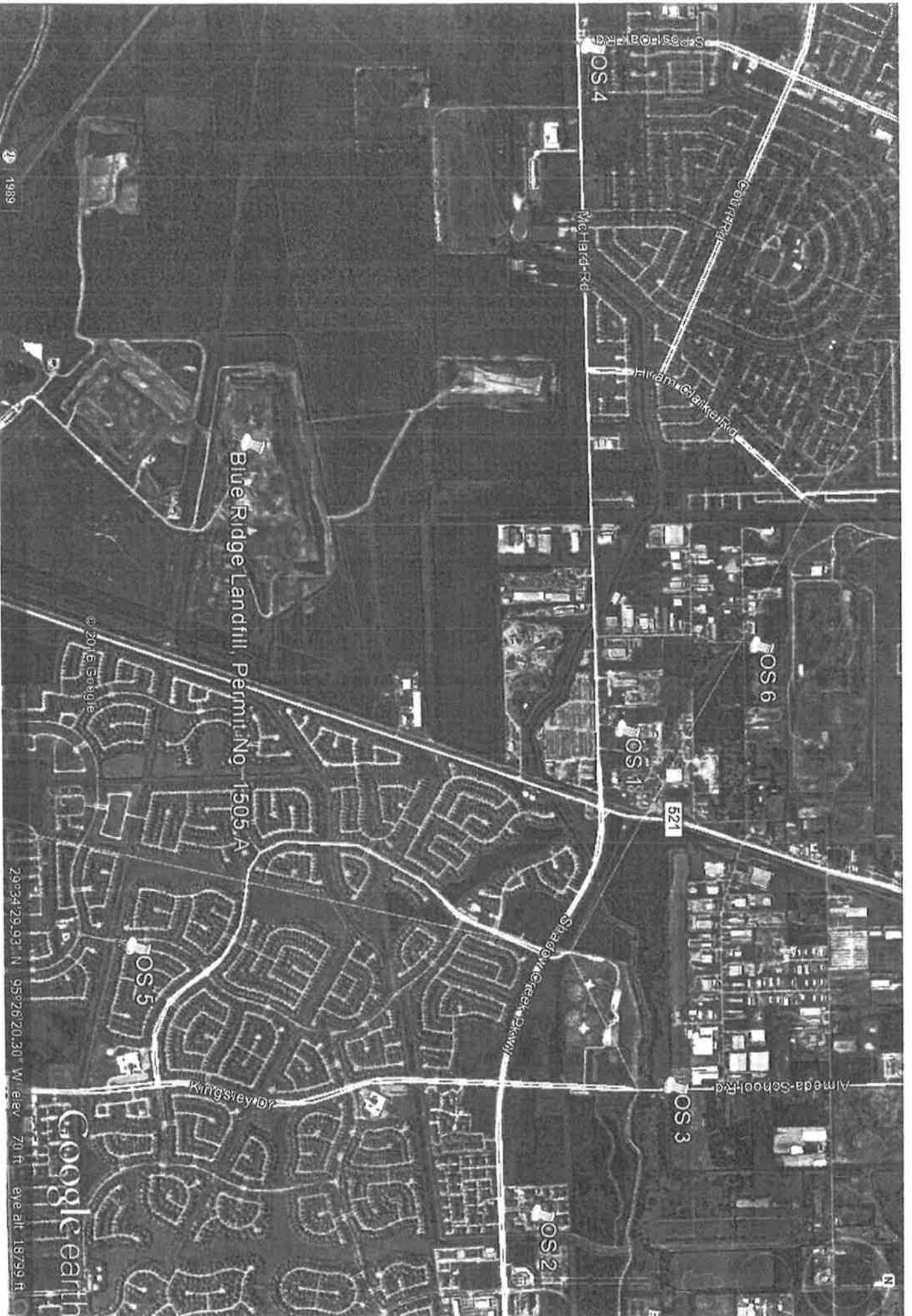
May 30, 2017

Daily maxima and minima for CAMS 84.

All times shown are CST.

Parameter	POC	Daily Maximum		Daily Minimum	
		Value	Hour	Value	Hour
Nitric Oxide	1	6.1	6:00 am	-0.2	Midnite
Nitrogen Dioxide	1 R	13.7	5:00 am	1.9	5:00 pm
Oxides of Nitrogen	1	18.7	6:00 am	1.8	8:00 pm
Ozone	1 R	62	Noon	6	5:00 am
Wind Speed	1	9.4	4:00 pm	1.0	Midnite
Resultant Wind Speed	1	9.0	4:00 pm	1.0	Midnite
Resultant Wind Direction	1	358	4:00 am	2	1:00 am
Maximum Wind Gust	1	16.9	1:00 pm	3.7	Midnite
Std. Dev. Wind Direction	1	27	10:00 am	8	Midnite
Outdoor Temperature	1	85.5	2:00 pm	71.5	5:00 am
Internal Station Temperature	1	83.2	2:00 pm	81.6	3:00 am
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



1989

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Blue Ridge Landfill, Permit No. 1505.A

OS 4

Shadywood Dr

Hiram Clarke Rd

OS 6

OS 1

521

OS 3

Alameda School Rd

OS 2

OS 5

Kingsley Dr

Google earth

29°24'29.93" N 95°26'20.30" W elev 70 ft eye alt 18739 ft

OS #1

200 block of
McIntyre Ln.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-31-17 Start Time: 9:32 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
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	no odor
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 _____

Weighted Average Intensity:

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

apartments The Columns

12300 block
of Shadow
Creek
Parkway

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-31-17 Start Time: 9:52 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
2	
3	
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	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	no odor
53	" "
54	" "
55	" "
56	" "
57	" "
58	" "
59	" "
60	" "

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Alameda School
Rd. 1/2 mi.
north of

Alameda Rd. Nature Preserve

Supplemental Investigator's Odor Intensity Time Log

OS#

Date of Investigation: 5-31-17 Start Time: 10:11 am

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

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS#4

McHard Rd + S. Post Oak Rd

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-31-17 Start Time: 10:30 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
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	no odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
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 _____

Weighted Average Intensity:

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

OS# 5

2700 block of Biscayne Bay Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 5-31-17 Start Time: 10:56 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
2	" "
3	" "
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	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	no odor
57	" "
58	" "
59	" "
60	" "

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS#6

West + Bluebonnet

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:

5-31-17

Start Time:

11:15

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	no odor
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	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

ATTACHMENT 3

COVER APPLICATION LOG

REPUBLIC
SERVICES
Blue Ridge Landfill, MSW-1505A

[illegible]

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 bank of form Erosion Action Data Documentation Form. 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.

consecutive Aprils: R = Restoring cover material; G = Grading; M = Compacting; S = Seeding

SOP Section 7.7a 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 yd² soil stockpile is required within 100 ft of the Regulated Asbestos-Containing Material (RACM) disposal area. Signature certifies work accomplished as stated in the Cover Application Log.

1	Excavated 3rd floor Phase III North Slope 8th-6th, Phase I top deck & finished low stairs
2	Reinforced South Slope Phase III S-L. Reinforced & finished low stairs on Phase I O-R 15-18
3	Reinforced West Slope Phase III K-T
4	Reinforced North Slope Phase III T-AA
5	Reinforced North Slope Phase III T-AA
6	
7	
8	Graded & finished low stairs Phase I top deck
9	Constructed secondary beam outside North Side Phase III L-T. Covered low stairs top deck on Phase I O-R 18-20
10	Reinforced secondary beam Phase III North Slope L-T. Graded & finished low stairs top deck on Phase I O-R 18-20
11	Constructed 3rd beam on Phase III North Slope L-T. Graded low stairs on Phase I top deck O-R 20-24
12	Completed 2nd beam on Phase III North Slope L-T
13	Finished & grained low stairs on top deck Phase I O-R 20-22
14	
15	Finished & grained low stairs on top deck Phase I
16	Filled & grained low stairs on top deck of Phase I
17	Finished & grained low stairs on top deck Phase I, started beam Phase III West Slope
18	Completed beam Phase III West Slope
19	Completed 3rd beam on Phase III West Slope
20	
21	
22	
23	
24	Found double concrete on Phase III top deck
25	
26	Finished & grained Phase III top deck when low stairs were finished with 18 truss loads of concrete
27	
28	
29	
30	

1	
2	
3	
4	
5	
6	
7	Discovered erosion on north side. Plug III too wet to repair. Still
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	

WEEKLY INSPECTION REPORT

Place a check mark beside every item after inspection of that item has been completed and required actions are noted. This inspection must be performed weekly.

Week #:	1	2	3	4	5
Date / Time:	6-2-17				
Inspector Name:					
	Inspection Performed	Comments / Corrective Action			
Condition of perimeter fence is acceptable. ¹	✓				
All access gates and locks operating properly.	✓				
Condition of entrance signs is acceptable. ²	✓				
Condition of excluded waste sign is acceptable.	✓				
Condition of traffic info and other signs is acceptable. ³	✓				
Condition of site access roads maintained. ⁴	✓				
Perimeter channels/detention ponds functioning as designed.	✓				
Landfill equipment is equipped with fire extinguisher(s).	✓				
Scalehouse is equipped with fire extinguisher(s).	✓				
Groundwater monitoring system functioning as designed.	✓				
No ponding of water on waste areas. ⁵	✓	PONDING WATER IN NEW CELL DUE TO CURRENT RAIN CONDITIONS - WATER ON FLOOR OF NEW CELL NOT OVER WASTE -			

¹ Refer to SOP Section 4.1.1 and 30 TAC 330.116.

Notification of breach to TCEQ required within 24 hours unless permanent repair completed within eight (8) hours of detection. Temporary repair required within 24 hours.

² Signs to include requirements of SOP Section 4.4, rules for waste disposal and prohibited wastes, "covered" loads, and emergency contact numbers.

³ Signs to include emergency contact and "no smoking" postings as required by SOP Section 7.2.

⁴ Grading equipment will be used at least once per week to control or remove mud accumulations on roads as well as minimize depressions, ruts, and potholes.

⁵ Depressions will be filled and regraded as quickly as possible, but no later than 7 days from the end of the rainfall event.

ATTACHMENT 4

Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
Complaint Investigation
Photograph taken by Richard Blackney



Photograph 1 of 1: An area with muddy soil that appeared to be where ponded water had been previously.

ATTACHMENT 5



TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY

Calibrations Air Quality Maps Data Reports AutoQC Water Data Comms Log Files Configuration Site Info

Manvel Croix Park C84 Daily Summary

Use the controls below to select a different date or time format. Click on the Generate Report button once you have made your selections.

Click on the Plot Data button once the tabular report has been generated to open a separate window containing data plots.

CAMS 84 Manvel Croix Park C84 Select a different site

Month: Day: Year: Time Format:

June 8 2017 12 Hour (AM/PM) Generate Report Plot Data

☒ Green underline for validated data

☒ Include Non-Public Monitors

Emulate WWW Report

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for Thursday, June 8, 2017. All times shown are in CST.

Parameter Measured	Morning												Afternoon												Par Me
	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	7:00	8:00	9:00	10:00	11:00	
Nitric Oxide	0.0	0.0	0.2	0.0	0.1	0.3	1.4	0.9	0.5	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.0	Nitri
Nitrogen Dioxide	2.3	2.5	3.4	7.2	11.0	15.6	12.8	6.3	3.5	1.8	1.7	3.1	5.3	4.3	3.5	3.4	3.7	4.2	4.5	7.0	6.1	6.0	4.5	5.3	Nitro
Oxides of Nitrogen	2.3	2.5	3.6	7.3	11.1	16.0	14.2	7.3	4.0	1.9	1.9	3.3	5.6	4.5	3.7	3.5	3.8	4.4	4.7	7.0	6.2	6.2	4.5	5.4	Oxid
Ozone	46	44	40	33	22	18	25	41	53	60	66	82	102	101	92	91	86	78	69	53	48	50	50	39	Ozon
Wind Speed	5.2	3.6	2.2	2.8	1.9	2.6	3.5	6.4	6.4	4.0	3.8	4.2	4.9	6.0	6.1	6.2	4.1	5.2	4.0	3.3	2.9	0.3	0.0	0.0	Wind
Resultant Wind Speed	5.1	3.6	2.1	2.8	1.9	2.5	3.3	6.2	6.1	3.4	0.5	3.0	4.0	4.5	5.2	5.2	3.0	4.7	3.8	3.2	2.7	0.3	0.0	0.0	Resu
Resultant Wind Direction	60	53	53	54	45	46	57	82	97	108	126	20	19	10	26	41	34	83	173	146	172	172	173	173	Resu
Maximum Wind Gust	9.5	6.3	3.9	4.1	4.2	4.6	7.1	12.2	12.2	7.7	9.1	8.4	13.2	13.2	14.9	13.5	11.8	10.1	7.6	5.6	5.9	0.7	3.4	0.3	Maxi
Std. Dev. Wind Direction	10	12	10	8	11	12	19	14	18	31	76	43	34	40	32	32	42	24	13	11	21	9	118	118	Std.
Outdoor Temperature	77.4	76.0	74.8	73.9	72.8	72.9	73.8	76.7	78.7	80.5	81.7	82.4	83.7	84.8	85.8	85.6	85.8	85.0	84.3	78.9	76.2	73.8	73.1	71.6	Outd
Internal Station Temperature	81.7	81.6	81.5	81.5	81.9	81.9	82.0	82.2	82.5	82.7	83.0	83.1	83.1	83.1	83.2	83.2	83.1	83.1	83.1	82.1	81.6	81.6	81.8	81.9	Inter
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	7:00	8:00	9:00	10:00	11:00	Par Me
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.																									

Previous Day

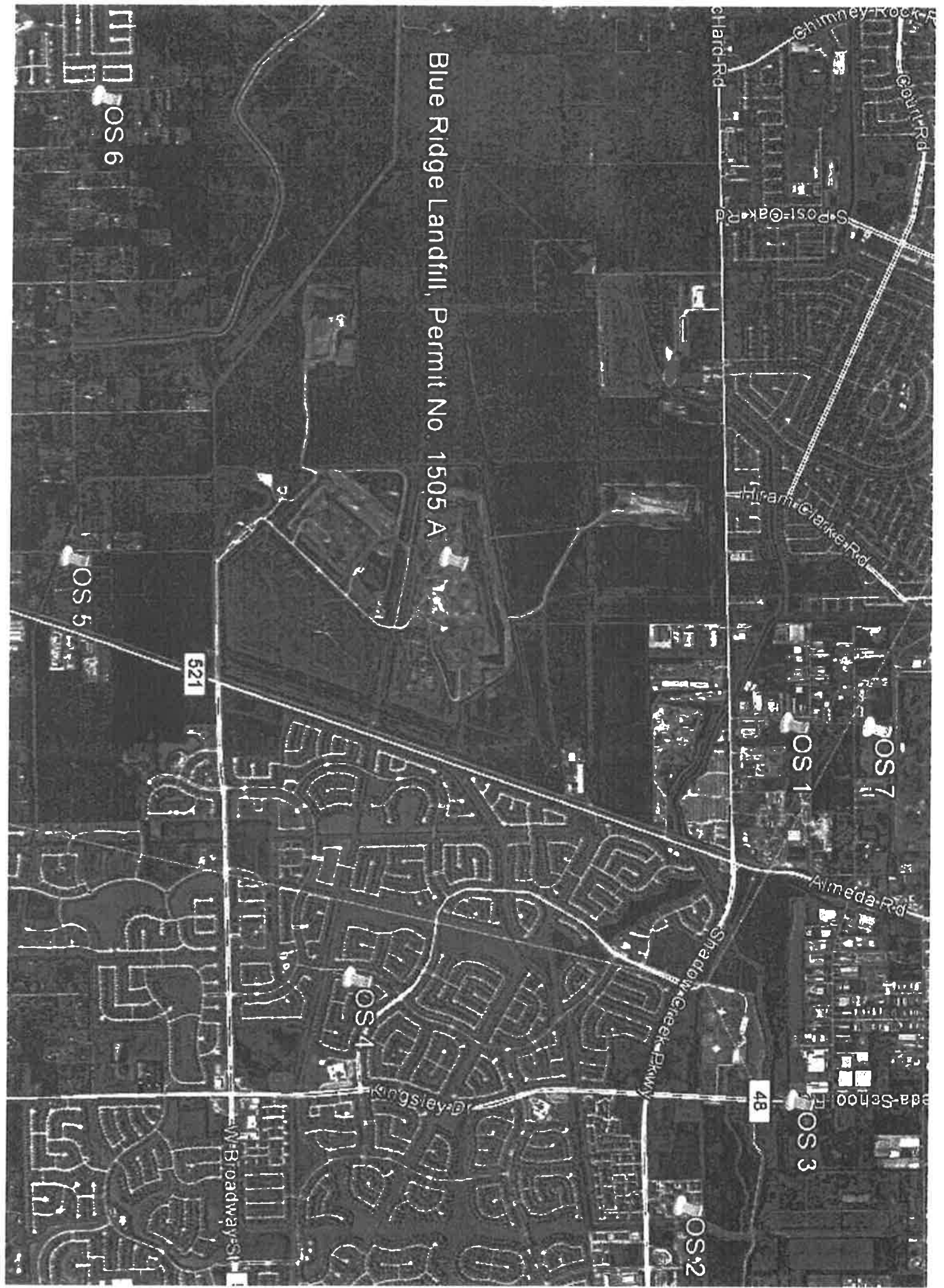
June 7, 2017

Daily maxima and minima for CAMS 84.

All times shown are CST.

Parameter	PQC	Daily Maximum		Daily Minimum	
		Value	Hour	Value	Hour
Nitric Oxide	1	5.3	7:00 am	0.0	7:00 pm
Nitrogen Dioxide	1 R	13.6	5:00 am	1.7	Noon
Oxides of Nitrogen	1	17.3	7:00 am	1.8	Noon
Ozone	1 R	68	3:00 pm	9	5:00 am
Wind Speed	1	9.9	2:00 pm	3.3	4:00 am
Resultant Wind Speed	1	9.2	2:00 pm	3.2	4:00 am
Resultant Wind Direction	1	358	Midnite	2	1:00 am
Maximum Wind Gust	1	19.9	Noon	7.1	4:00 am
Std. Dev. Wind Direction	1	25	11:00 am	9	9:00 pm
Outdoor Temperature	1	89.7	4:00 pm	73.9	4:00 am
Internal Station Temperature	1	83.2	3:00 pm	81.6	Midnite
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



Blue Ridge Landfill, Permit No. 1505 A

Chimney Rock Rd

Court Rd

Charco Rd

S Post Oak Rd

Hiram Clarke Rd

Alameda Rd

Shadow Creek Pkwy

Kingsley Dr

W Broadway St

OS 1

OS 7

OS 3

OS 2

OS 4

OS 5

OS 6

521

48

052

West Rd between McHard Rd +
South Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 6-8-17 Start Time: 11:05 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	no odor
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	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

052

Columns Apartments

12300

block
of
Shadai
Creek
Parkwa

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 6-8-17 Start Time: 11:23

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

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
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 _____

Weighted Average Intensity:

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

OS#3

Alameda Road Nature Preserve

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:

6-8-17

Start Time:

11:45 am

1/2 mi.
north
of
Kingsley
Rd
and
FM 2231

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
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	
41	
42	
43	
44	
45	no odor
46	" "
47	" "
48	" "
49	" "
50	" "
51	" "
52	" "
53	" "
54	" "
55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS#4 2700 block of Biscayne Bay Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 6-8-17 Start Time: 12:02 pm

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	no odor
3	" "
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	
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 _____

Weighted Average Intensity:

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

OS#5

Kentucky + Evergreen Rd.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 6-8-17 Start Time: 12:28 pm

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
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	no odor
29	" "
30	" "

Minutes	Odor Intensity VL, L, M, S, VS
31 min	no odor
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 _____

Weighted Average Intensity:

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

OS #6

Evergreen + California

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 6-8-17 Start Time: 12:47 pm

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
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	
41	
42	
43	
44	
45	
46	
47	no odor
48	" "
49	" "
50	" "
51	" "
52	" "
53	" "
54	" "
55	" "
56	" "
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS #7

West Dr. + Bluebonnet Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 6-8-17 Start Time: 1:16 pm

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	no odor
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	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

ATTACHMENT 6

Daily Cover		Approved Alternate Daily Cover		Elevation		Inspection Date of Daily Cover ¹	Erosion or Leachate Seep Detected	Corrective Action ²	Soil Stockpile Required ³ (yd ³)	Rain (inches) ≥ 0.5"	Intermediate Cover				Final Cover				Erosion 2.4" Detected	Data Erosion Corrected ⁴	Corrective Action ⁵	Final Cover Certification Report Reference	Month / Year	Supervisor Signature ⁶
AMT	Grid Area T ²	Method ⁷	AMT ⁸	Grid Area T ²	Method ⁷						AMT ⁹	Grid Area T ²	Method ⁷	AMT ⁹	Grid Area T ²	Method ⁷	AMT ⁹	Grid Area T ²						
1	600	50-51	6"	B	—	—	—	—	—	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	600	50-51	6"	B	—	—	—	—	—	0.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	500	50-51	6"	B	—	—	—	—	—	1.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	—	—	—	—	—	—	—	—	—	1.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	600	50-51	6"	B	—	—	—	—	—	1.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	600	50-51	6"	B	—	—	—	—	—	0.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	600	50-51	6"	B	—	—	—	—	—	0.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	600	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	600	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	500	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	600	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	600	50-51	6"	B	—	—	—	—	—	0.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	600	50-51	6"	B	—	—	—	—	—	0.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	600	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	600	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	500	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19	500	50-51	6"	B	—	—	—	—	—	0.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	500	50-51	6"	B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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 4.13. 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 7.4 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 stipulated size of the working face. A 50 yd³ soil stockpile is required within 1,000 ft of the Regularized Asbestos-Containing Material (RACM) disposal area. Signature entries with accomplished as stated in the Cover Application Log.

1	
2	
3	
4	
5	
6	
7	Discovered Erosion on North Side Phase III 700 West To Federal Still
8	
9	Remains on Roping Slope Above Camp on Phase III
10	Recovered Filled & Graded Phase III Deck
11	
12	Graded Phase III Top Deck Just Filling in Time & Rock Bnts.
13	Remained Erosion on Phase III South Slope between BS-1F
14	
15	Remains on Slope River on Road Phase III North Side.
16	
17	
18	
19	Found New Rock Bnts on Phase III West Side
20	Discovered New Sign on Phase III North Slope
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	