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 #1499984

Incident Numbers

287186

DUSTIN ROBERTS Investigator:

Site Classification

MULTISECTOR GENERAL

PERMIT FOR INDUSTRIAL

WW

Conducted: 07/04/2018 -- 07/10/2018

NAIC Code: 562212

NAIC Code: 486210

SIC Code: 4922 **SIC Code: 4953**

SIC Code: 1521

Program(s):

STORMWATER

Investigation Type: Compliance Investigation

Location: LOCATED ON 2200 FM 521

Additional ID(s):

TXR05S302

Address: 2200 FM 521 RD,

FRESNO, TX, 77545

Local Unit: REGION 12 - HOUSTON

Activity Type(s):

SWCMPL - SW Complaint

SWCCIMSGP - SW CCI Multi-Sector

General Permit

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

Role PARTICIPATED IN	Title DIVISION MANAGER	Name MR MARK MEADOWS	Phone Phone	(281) 668-9739
PARTICIPATED IN	SWC DIVISON MANAGER	MR CLAYTON HALL	Work	(281) 210-0084
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MR CHANCE SEELY	Phone	(281) 835-6142
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Cell	(713) 851-0506
PARTICIPATED IN	OPERATIONS SUPERVISOR	MR RICHARD LEMMEL	Phone Cell	(281) 835-6142 (832) 309-8162

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Other Staff Member(s):

Role Name

Investigator JACK COLEMAN
QA Reviewer WHITNEY LINDER
Supervisor WESTIN MASSEY
Investigator KELLEY KARTYE
Investigator KAYLA AYALA

Associated Check List

Checklist Name

WQ COMPLAINT INVESTIGATION

WQ INVESTIGATION - EQUIPMENT

MONITORING AND SAMPLING - LOCAL EQUIP

MONITORING AND SAMPLING revised 06/2013

Investigation Comments:

INTRODUCTION

On June 23, 28, 29, and July 5, 2018, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office received complaints (Incident Nos.: 287186, 287186A, 287186B, and 287186C) alleging stormwater management issues, stormwater pollution, and the mechanical pumping of water from a facility. The alleged complaint is located at the Blue Ridge Landfill (BRL), 2200 Farm to Market Road (FM) 521, Fresno, Fort Bend County, Texas 77545 (Attachment 1). A Water Quality complaint investigation was conducted to determine compliance with applicable water regulations.

An investigation was conducted at BRL on July 4, 2018 by Mr. Dustin Roberts, Mr. Jack Coleman, and Ms. Kayla Ayala, Environmental Investigators with the TCEQ Houston Region Office. An additional investigation was conducted on July 10, 2018 by Mr. Roberts and Mr. Coleman. The investigations were conducted as a result of a complaint; therefore, no notification of the investigations was given.

A copy of the TCEQ Exit Interview Form, which documented the findings of the investigation, was transmitted via email on July 5, 2018, to Mr. Burgess Stengl, Environmental Manager with Republic Services. Subsequent to the July 10, 2018 investigation, an additional TCEQ Exit Interview Form was transmitted via email on July 13, 2018 to Mr. Stengl (Attachment 2). Based on the findings of this investigation, a Notice of Violation letter was issued to facilitate compliance.

BACKGROUND

The TCEQ Houston Region Office files were reviewed and a TCEQ database search was conducted pursuant to this investigation. The TCEQ has received two prior water quality complaints regarding the aforementioned facility in the past five years.

Incident Nos. 251718 and 253606 were received on January 31, 2017 and February 28, 2017, respectively. The complaints alleged that the facility was discharging stormwater contaminated with landfill leachate. Investigation No. 1401135 was conducted on March 2, 2017 to address the allegations and no violations were noted.

GENERAL FACILITY AND PROCESS INFORMATION

The Blue Ridge Landfill (BRL) is located at 2200 Farm to Market (FM) 521 Road, Fresno, Texas 77545. BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A. The surrounding land use includes industrial facilities and residential subdivisions (Attachment 1).

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.

Landfill cells utilize a landfill liner system to prevent groundwater contamination and to contain leachate as prescribed in the MSW Permit No. 1505A. Drainage systems on top of the landfill liner system collect leachate which is routed to sumps, pumped to storage tanks, and hauled off-site to Intergulf (Solid Waste Registration No.

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39068) for disposal. Prior to hauling the leachate off-site, leachate was previously discharged to the City of Pearland Reflection Bay Water Reclamation Facility, Permit No. WQ001034008.

Drainage systems below the landfill liner system collect groundwater seepage which is pumped to the stormwater ditches around the landfill. Due to the depth of the cells, groundwater flows upwards towards the composite liner and is pumped off-site to prevent excessive accumulation.

BRL has an active industrial stormwater multi-sector general permit (MSGP) (No. TXR05S302) with the TCEQ (Attachment 3). Coverage under the permit began on April 17, 2005. This general permit provides authorization for point source discharges of stormwater associated with industrial activity and certain non-stormwater discharges to surface water in the state.

In addition to the general requirements of the MSGP, landfill activities have specific requirements within Sector L of the permit. Sector L has the following benchmark sampling requirements: Total Suspended Solids (TSS) (100 mg/L), and Total Iron (1.3 mg/L) semi-annually. The facility claims a waiver for annual hazardous metals monitoring (Attachment 4). The facility claims sampling waiver criteria in the MSGP for, Part III, Section C.1. (d) (3): Sampling conducted by the permittee, from the first available discharge from the facility, occurring during the first sampling period of the permit, indicated that none of the listed hazardous metals were present in detectable levels. This is further discussed in the Stormwater Pollution Prevention Plan (SWP3) review section of this report.

Non-contaminated stormwater and uncontaminated groundwater seepage is discharged to a stormwater ditch along the perimeter of the landfill; thence to the Clear Creek Relief Channel (CCRC) that crosses under FM 521 to the Shadow Creek Ranch Subdivision; thence to Clear Creek Above Tidal in Segment No. 1102 of the San Jacinto-Brazos Coastal Basin (Attachments 5 and 7).

COMPLAINT INVESTIGATION CONDUCTED ON JULY 4, 2018

On July 4, 2018, at approximately 9:23 am, Mr. Roberts, Mr. Coleman, and Ms. Ayala arrived at Outfall 001 for BRL, on FM 521. There was heavy rainfall in the area and the facility recorded three inches of rain for the day on-site. The facility was discharging, and the water appeared turbid brown in color (Photograph 1 of Attachment 6). The CCRC appeared turbid brown on the adjacent side of FM 521, as it flows into the Shadow Creek Ranch Subdivision (Photograph 2 of Attachment 6).

At approximately 9:53 am, the TCEQ investigators arrived on-site and met with Mr. Chance Seely, Environmental Specialist with Republic Services, and Mr. Richard Lemmel, Operations Supervisor with Republic Services. An opening conference was conducted to discuss the nature and scope of the complaint investigation.

Sampling Activities

Prior to the investigation, the investigators determined three possible sampling points within the property boundaries to evaluate possible contamination discharging from the landfill (sample sites 1, 2, 3). The facility claims one stormwater discharge point, Outfall 001. The additional samples the investigators collected within the property boundaries and prior to Outfall 001 were collected for informational purposes.

The TCEQ Investigators, along with the aforementioned BRL personnel, drove to the first identified sampling location, at the southwest corner of the facility in the south stormwater ditch (Sample Site No. 1) (Attachment 7). There was no stormwater runoff observed coming into contact with waste and entering the south ditch area. Samples (Chain of Custody (COC) Woo8745-06) (Attachment 8) were collected at 11:17 am for Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, Chemical Oxygen Demand (COD), Total Organic Carbon (TOC), Ammonia-Nitrogen (NH3-N), Nitrite + Nitrate, Total Metals, Dissolved Oxygen (DO), and pH. The DO analysis was 4.60 mg/L, and the pH analysis was 7.56 standard units (SU). The water appeared turbid brown in color (Photograph 3 of Attachment 6).

The investigators and BRL personnel drove to the second identified sampling location (Sample Site No. 2) (Attachment 7) at the northwest end of the facility. It contained an inadequate amount of water for sampling. The water appeared turbid brown in color (Photographs 4-5 of Attachment 6).

The investigators and BRL personnel then drove towards the top of the landfill, adjacent to the new active cell at the northeast corner of the site. Berms separated the active cell areas and the cells being constructed (Photograph 6 of Attachment 6). Stormwater runoff from the active cell areas is segregated by berms and collected through the

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facility's leachate system. There was no runoff observed leaving the active cell areas and flowing into the facility's stormwater discharge conveyance ditches. Trash was observed around the truck clean-out area (Photographs 6-8 of Attachment 6). Stormwater from the truck clean-out area flows to an internal pond on-site (Photographs 6,7, and 9 of Attachment 6). There is fencing running through this flow path to catch any potential trash/debris runoff (Photograph 10 of Attachment 6). Due to the construction of new cells adjacent to this pond, the pond has been blocked with a temporary road with no culvert. The pond would otherwise flow through a series of ponds and ditches on-site and not be discharged off-site; therefore, potentially contaminated stormwater from this area is segregated from the facility's stormwater discharge.

Permanent pumps for uncontaminated groundwater seepage were observed (Photographs 10-11 of Attachment 6). These pumps discharge to the north stormwater ditch that runs along the perimeter of the facility and flows to the permitted outfall. This area of the landfill was inaccessible due to weather conditions.

The investigators and BRL personnel drove to Sample Site No. 3 (Attachment 7) at the east end of the facility, where the north ditch flows through culverts towards the sedimentation basin just prior to the outfall. The sedimentation basin and permitted outfall area is under construction. Stormwater flows from the north and south ditches (located along the perimeter of the facility), commingle in the sedimentation basin, and flow to the outfall (Attachments 5 and 7). The area where the south ditch commingles into the sedimentation basin could not be accessed due to weather conditions. Samples (COC Woo8745-05) (Attachment 8) were collected at the north ditch culverts at 12:24 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + Nitrate, Total Metals, DO, and pH. The DO analysis was 6.97 mg/L, and the pH analysis was 7.48 SU. The water appeared turbid brown in color (Photographs 12-15 of Attachment 6).

The investigators and BRL personnel drove to Sample Site No. 4 (Attachment 7), Outfall 001. The permitted outfall is located at the east end of the facility, along railroad tracks between the facility and FM 521. Samples (COC W008745-04) (Attachment 8) were collected at 1:35 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + Nitrate, Total Metals, DO, and pH. Split samples were also collected by BRL personnel. The DO analysis was 6.73 mg/L, and the pH analysis was 7.64 SU. The water appeared turbid brown in color (Photograph 16 of Attachment 6).

The investigators drove back towards the front of the facility and departed BRL at approximately 2:45 pm. The investigators then drove to the Shadow Creek Ranch Subdivision to obtain downstream samples.

The investigators drove to Sample Site No. 5 (Attachment 7) on Trinity Bay Drive, located approximately 0.5 miles downstream of Outfall 001 on the CCRC. Samples (COC Woo8745-07) (Attachment 8) were collected at 3:09 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + Nitrate, Total Metals, DO, and pH. The DO analysis was 6.84 mg/L, and the pH analysis was 7.20 SU. The water appeared turbid brown in color (Photographs 17-18 of Attachment 6).

The investigators drove to Sample Site No. 6 (Attachment 7) on Biscayne Bay Drive, located approximately one mile downstream of Outfall 001 on the CCRC. Samples (COC Woo8745-08) (Attachment 8) were collected at 3:46 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + Nitrate, Total Metals, DO, and pH. The DO analysis was 5.68 mg/L, and the pH analysis was 7.13 SU. The water appeared turbid brown in color (Photographs 19-20 of Attachment 6).

The investigators walked towards the confluence of the CCRC and Clear Creek. There was an observed color difference between the CCRC and Clear Creek (Photographs 21-23 of Attachment 6). Stormwater outfalls were observed discharging dark reddish-brown stormwater into the CCRC (Photographs 24-27 of Attachment 6). These discharges appeared to originate from The Columns of Shadow Creek Ranch Apartments at 12325 Shadow Creek Parkway. This was referred to Laurie Rodriguez, Pretreatment Coordinator with the City of Pearland (Attachment 9).

COMPLAINT INVESTIGATION CONDUCTED ON JULY 10, 2018

A subsequent complaint investigation was conducted on July 10, 2018, in response to Incident No. 287186C, which was received on July 5, 2018. Mr. Roberts and Mr. Coleman arrived at the outfall for BRL at 9:32 am. It was partly cloudy with no precipitation. The facility was discharging, and the water appeared turbid brown (Photograph 28 of Attachment 6). The CCRC appeared turbid brown on the adjacent side of FM 521, as it flows into the Shadow Creek Ranch Subdivision (Photograph 29 of Attachment 6). Investigators then met with Mr. Seely and Mr. Mark Meadows, Division Manager with Republic Services. Investigators explained that a complaint

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was received, alleging that contaminated stormwater was being pumped from the facility into the CCRC on July 5, 2018.

At approximately 10:30 am, the TCEQ investigators, along with the aforementioned BRL personnel, arrived on top of the landfill. Berms separated the active cell areas and the cells being constructed. Stormwater runoff from the active cell areas is segregated by berms and collected through the facility's leachate system. There was no runoff observed leaving the active cell areas and flowing into the facility's stormwater discharge conveyance ditches. Trash was observed around the truck clean-out area, adjacent to the new active cell at the northeast corner of the site (Photograph 30 of Attachment 6). Mr. Meadows indicated that the area is cleaned (debris removal) and covered daily. Stormwater from the truck clean-out area flows to an internal pond on-site (Photographs 6, 7, 9, 31, and 32 of Attachment 6). There is fencing running through this flow path to catch any potential trash/debris runoff. Due to the construction of new cells adjacent to this pond, the pond has been potential trash/debris runoff. Due to the construction of new cells adjacent to this pond, a series of ponds and blocked with a temporary road with no culvert. The pond would otherwise flow through a series of ponds and ditches on-site and not be discharged off-site; therefore, potentially contaminated stormwater from this area is segregated from the facility's stormwater discharge.

Investigators observed that a portable pump was pumping accumulated stormwater from a new cell that is being constructed. Permanent pumps for uncontaminated groundwater seepage were also observed to be running (Photographs 33-38 of Attachment 6). These pumps discharge to the north stormwater ditch that runs along the perimeter of the facility and flows to the permitted outfall. According to Mr. Meadows, these pumps are automatically operated with level transducers and run frequently. It was also confirmed that these pumps were running during the complaint investigation conducted on July 4, 2018. This area was inaccessible during the previous investigation due to weather conditions. Investigators collected samples in the north stormwater ditch, immediately downstream of the temporary stormwater pump and groundwater pump discharges (Sample Site No. 7) (Attachment 7) for informational purposes. Samples (COC Woo8746-01) (Attachment 8) were taken at 11:25 (Attachment 7) for informational purposes. Samples (COC Woo8746-01) (Attachment 8) were taken at 11:25 (Nitrate, Total Metals, DO, and pH. Split samples were also collected by BRL personnel. The DO analysis was 7.12 (Nitrate, Total Metals, DO, and pH. Split samples were also collected by BRL personnel. The DO Attachment 6).

The investigators and BRL personnel drove to the sedimentation basin just prior to the outfall. The previously inaccessible area where the south ditch commingles into the sedimentation basin was observed (Photographs 41-47 of Attachment 6). There was no stormwater runoff observed coming into contact with waste and entering the south ditch area. Silt fencing was observed in and around the sedimentation basin; however, due to the color and clarity of the water, sediment appeared to be discharging off-site (Photographs 44 and 47 of Attachment 6).

The investigators and BRL personnel drove to Sample Site No. 4 (Attachment 7), Outfall 001, which is located at the east end of the facility, along railroad tracks between the facility and FM 521. Samples (COC Woo8746-02) (Attachment 8) were collected at 12:35 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + Nitrate, Total Metals, DO, and pH. Split samples were also collected by BRL personnel. The DO analysis was 9.33 mg/L, and the pH analysis was 8.05 SU. The water appeared turbid brown (Photograph 28 of Attachment 6).

The investigators departed the facility at approximately 1:15 pm and drove to the Shadow Creek Ranch Subdivision to obtain downstream samples.

The investigators drove to Sample Site No. 5 (Attachment 7) on Trinity Bay Drive, located approximately 0.5 miles downstream of Outfall 001 on the CCRC. Samples (COC Woo8746-03) (Attachment 8) were collected at 2:15 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + Nitrate, Total Metals, DO, and pH. The DO analysis was 8.38 mg/L, and the pH analysis was 8.08 SU. The water appeared turbid brown (Photographs 48-49 of Attachment 6).

The investigators drove to Sample Site No. 6 (Attachment 7) on Biscayne Bay Drive, located approximately one mile downstream of Outfall 001 on the CCRC. Samples (COC Woo8746-04) (Attachment 8) were collected at 2:47 pm for BOD, TSS, TDS, Mercury, Cyanide, Oil and Grease, Turbidity, Phosphorus, COD, TOC, NH3-N, Nitrite + pm for BOD, TSS, TDS, and pH. The DO analysis was 8.38 mg/L, and the pH analysis was 8.08 SU. The water appeared turbid brown (Photographs 50-51 of Attachment 6).

In order to determine potential on-site point sources of contaminated stormwater, samples were collected for

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parameters not sector specific to landfills in the MSGP (Sector L); samples were also collected from points within the facility, prior to the designated outfall for informational purposes. The sample analysis results are attached to this report (Attachment 8). Samples for July 4, 2018 (COC W008745) exceeded the benchmark monitoring level for TSS in Sector L of the MSGP at Outfall 001. Samples for July 10, 2018 (COC Woo8746) exceeded the benchmark monitoring levels for total iron in Sector L of the MSGP at Outfall 001. Samples were also collected from the CCRC in the Shadow Creek Ranch Subdivision to determine if any potential downstream impacts existed. Samples were collected at points approximately half a mile and one mile downstream. On July 4, 2018, the TSS levels at the BRL outfall were 1,016.8 mg/L. At half a mile downstream, the TSS levels dropped to 41.2 mg/L. At one mile downstream, the TSS levels were 21.7 mg/L. Samples from July 10, 2018 were not elevated for TSS. This is further addressed in the Summary of Investigation Findings section of this report.

STORMWATER POLLUTION PREVENTION PLAN REVIEW

The facility's Stormwater Pollution Prevention Plan (SWP3) was reviewed on-site during the July 4, 2018 investigation and off-site through subsequent record requests to determine permit compliance. The SWP3 contained the following: annual training documentation; list of responsible staff members; weekly inspections at active sites; rainfall logs documented on the cover logs; weekly leachate level sump log; monthly stockpile verification inspections; quarterly visual analysis inspections; benchmark monitoring results; groundwater monitoring well reports; annual effluent limitation monitoring for hazardous metals; and documentation for erosion and sediment control best management practices (BMPs) utilized on-site. The SWP3 was properly

Benchmark monitoring is performed by Providence Engineering and ESC Lab Sciences conducts the laboratory analyses. Benchmark monitoring was performed as required with exceedances documented for TSS in the second period (July - December) of 2016 and both periods of 2017 (Attachment 10). Benchmark monitoring exceedances (BME) for total iron were documented for both periods of 2016 and 2017 (Attachment 10). The facility conducted a BME investigation in response to the first period 2016 total iron exceedance. It was determined that the exceedance is attributable solely to the presence of that pollutant in the natural background. The supporting rationale cites a literature study (Attachment 11), identifying iron as a naturally occurring material in the soil type on-site. As evidence the iron in the discharge is from background levels, corrective action is not required, and subsequent exceedances reference these findings as cause. BME investigations for the TSS exceedances were not performed as required. This issue is further addressed in the Summary of Investigation Findings section of this

The facility has a waiver for annual hazardous metals monitoring (Attachment 4). The facility claims sampling waiver criteria in the MSGP for, Part III, Section C.1. (d)(3): Sampling conducted by the permittee, from the first available discharge from the facility, occurring during the first sampling period of the permit, indicated that none of the listed hazardous metals are present in detectable levels. However, the laboratory analysis from this sampling event indicates that arsenic, barium, chromium, manganese, nickel, and zinc were present in detectable levels (Attachment 4). Additionally, samples collected on June 13, 2016 indicate detectable levels of arsenic, barium, chromium, manganese, nickel, and zinc. This issue is further addressed in the Summary of Investigation Findings section of this report.

CONCLUSION

Alleged violations of the MSGP were observed during this investigation and are addressed in the Summary of Investigation Findings section of this report. A Notice of Violation letter was issued to facilitate compliance.

SUMMARY OF INVESTIGATION FINDINGS

OUTSTANDING ALLEGED VIOLATION(S)

Track Number: 690535

Compliance Due Date: To Be Determined

Violation Start Date: 2/16/2017

30 TAC Chapter 281.25(a)(4) 30 TAC Chapter 305.125(1)

PERMIT TXR05S302, MSGP PART IV. SECTION A.3

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MSGP PART IV. SECTION A.3

Alleged Violation:

Investigation: 1499984

Comment Date: 09/06/2018

The Pollution Prevention Team must investigate the cause for each exceedance and must document the results of this investigation in the Stormwater Pollution Prevention Plan (SWP3) within 90 days following the sampling event.

The facility failed to conduct benchmark monitoring exceedance (BME) investigations of total suspended solids (TSS) exceedances for the second period of 2016 and both periods of 2017.

Recommended Corrective Action: The facility must submit documentation to the TCEQ Houston Region Office indicating the Pollution Prevention Team has investigated the cause for each exceedance and documented the results of the investigation in the facility's SWP3.

Track Number: 690545

Compliance Due Date: To Be Determined

Violation Start Date: Unknown

30 TAC Chapter 281.25(a)(4) 30 TAC Chapter 305.125(1)

PERMIT TXR05S302, MSGP Part III. Section A.1(a)(2)

MSGP Part III. Section A.1(a)(2)

PERMIT TXR05S302, MSGP Part III. Section A.4(a)

MSGP Part III. Section A.4(a)

Alleged Violation:

Investigation: 1499984

Comment Date: 09/06/2018

The permittee shall evaluate and use appropriate measures and controls to reduce soil erosion and sedimentation in areas of the facility with demonstrated or potential soil erosion and sedimentation.

The facility failed to establish necessary control measures that will prevent or effectively reduce pollution in stormwater discharges from the facility and that ensure compliance with the terms and conditions of the Industrial Stormwater Multi-Sector General Permit (MSGP). Silt fencing was observed during the investigation in and around the sedimentation basin; however, due to the color and clarity of the water, sediment appeared to be discharging off-site during the investigations. Additionally, samples collected on the July 4, 2018 investigation exceeded the benchmark monitoring level for total suspended solids (TSS) in Sector L of the MSGP at Outfall 001.

Recommended Corrective Action: The facility must submit documentation to the TCEQ Houston Region Office indicating that effective erosion and sedimentation control measures have been implemented.

Track Number: 690550

Compliance Due Date: To Be Determined

Violation Start Date: Unknown

30 TAC Chapter 281.25(a)(4) 30 TAC Chapter 305.125(1)

PERMIT TXR05S302, MSGP Part III. Section A.1(a)(2)

MSGP Part III. Section A.1(a)(2)

Alleged Violation:

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Investigation: 1499984

Comment Date: 09/06/2018

The facility failed to conduct Daily Maximum Effluent Limitation sampling for annual hazardous metals. Specifically, the facility claims sampling waiver criteria in the Industrial Stormwater Multi-Sector General Permit (MSGP) for, Part III, Section C.1. (d)(3): Sampling conducted by the permittee, from the first available discharge from the facility, occurring during the first sampling period of the permit, indicated that none of the listed hazardous metals are present in detectable levels. However, the laboratory analysis from this sampling event indicates that arsenic, barium, chromium, manganese, nickel, and zinc were present in detectable levels. Therefore, the facility does not meet the waiver criteria and sampling for annual hazardous metals (arsenic, barium, chromium, manganese, nickel, and zinc) was required for 2017.

Recommended Corrective Action: The facility must submit documentation to the TCEQ Houston Region Office outlining the steps taken to ensure compliance with Daily Maximum Effluent limitation sampling requirements for annual hazardous metals.

Signed Environmental Investigator	Date 9/6/18
Signed Supervisor	Date
Attachments: (in order of final report subm	ittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type) : NOV	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	See list of attachment
Notice of Registration	

Blue Ridge Landfill 2200 FM Rd 521

Fresno, Texas 77545 Investigation No.: 1499984

Incident Nos.: 287186, 287186A, 287186B, & 287186C Complaint Investigation

LIST OF ATTACHMENTS

- 1. Location Map
- 2. Exit Interview Forms
- 3. Permit Information
- 4. Annual Hazardous Metals Monitoring Waiver
- 5. Facility Site Map / Flow Diagram
- 6. Photographs
- 7. Sampling Maps
- 8. Sample Analysis Results / Chain of Custody
- 9. Complaint Referral
- 10. Benchmark Monitoring Laboratory Results
- 11. Benchmark Monitoring Exceedance Investigation Literature

Attachment 1



Attachment 2

Dustin Roberts

From:

Dustin Roberts

Sent:

Thursday, July 5, 2018 11:21 AM

To:

Stengl, Burgess Westin Massey

Cc: Subject:

Exit Interview Form: Records Request

Attachments:

inv-exit-interview.doc

Hi Mr. Stengl,

The Exit Interview Form: Potential Violations and/or Records Request is being provided as an attachment to this email to ensure that the Records Request was communicated clearly during the complaint investigation conducted on July 4, 2018 at Blue Ridge Landfill. If there are questions about the information contained in the form, or if a meeting at the TCEQ regional office is requested to discuss the contents of the Exit Interview Form, contact me as soon as possible. Please reply to this email, with the attachment, to indicate your receipt.

Thanks,

Dustin Roberts

Environmental Investigator V
Water Quality
Texas Commission on Environmental Quality Region 12
5425 Polk St., Ste. H
Houston, TX 77023
713/767-3631 – Direct
713/767-3676 – Office
dustin.roberts@tceq.texas.gov

egulate	ed Entity/S	Site Name		EXIT INTERVIEW FOR		TCEQ Add. ID No. RN No (optional)	TXR05S302	
nvestig	ation Type		SW CCI MSGP	Contact Made In-House (Y/N)	Purpose of Investigation	Complaint Investigation	n	T
omilat	ed Entity (Contact	Burgess	Stengl	Telephone No.	Marine (4)	Date Contacted	
itle			Environ	mental Manager	FAX #/Email address		FAX/Email date	07/05/2018
TICE: ated to v	The information in the information in the information in the including a	y potential or alle	ged violations t	ided to provide clarity to issues that have arisen di discovered after the date on this form will be com violations discovered (if any) during the course of	f this investigation will be documented in	a final investigation-report.		
	ssue			identify the necessary records, the co the clearly described potential proble	mnany contact and date due to	file agency. Lot truegon an	in Lotential Alouarion	
No.	Type ¹	Rule Cit	ation (if kn	own)		ription of Issue	55	
1	RR			By close of business Frida	y (7/6/18), provide a copy of the transfer of	ne facility's Stormwater Po current date.	ollution Prevention i	Plan (SWPPP) and a
				Televalia supp	•			
				Total and a supplied to the su				
Note I	Jesus Tyne	Can Be One	or More of: A					
				AV (Alleged Violation), PV (Potential Vio	lation), O (Other), or RR (Records)			No.
Did	the TCEO	document t	he regulate	AV (Alleged Violation), PV (Potential Vio	lation), O (Other), or RR (Records) hout proper authorization?	Request)		io No
Did Did	the TCEQ	document t	he regulate	AV (Alleged Violation), PV (Potential Vio	lation), O (Other), or RR (Records) hout proper authorization? ued operation is not authorized	Request) Yes Yes		No.
Did Docuconta	the TCEQ	document t igator advise owledgment.	he regulate	AV (Alleged Violation), PV (Potential Vio	lation), O (Other), or RR (Records) hout proper authorization? ued operation is not authorized	Request) Yes Yes		No.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

White Copy: Regulated Entity Representative TCEQ 20085 (4/08)

Yellow Copy: TCEQ

(Note: use additional pages as necessary) Page __1__ of __1__

Dustin Roberts

From:

Dustin Roberts

Sent:

Friday, July 13, 2018 5:11 PM

To:

'Stengl, Burgess'

Cc: Subject: Westin Massey Additional Exit Interview Form

Attachments:

inv-exit-interview 2.doc

Hi Mr. Stengl,

The Exit Interview Form: Potential Violations and/or Records Request is being provided as an attachment to this email to ensure that the issues were communicated clearly during the stormwater complaint investigation conducted on July 4th and 10th, 2018 at Blue Ridge Landfill. If there are questions about the information contained in the form, or if a meeting at the TCEQ regional office is requested to discuss the contents of the Exit Interview Form, contact me as soon as possible. Please reply to this email, with the attachment, to indicate your receipt.

Thanks,

Dustin Roberts

Environmental Investigator V
Water Quality
Texas Commission on Environmental Quality Region 12
5425 Polk St., Ste. H
Houston, TX 77023
713/767-3631 – Direct
713/767-3676 – Office
dustin.roberts@tceq.texas.gov

egulate	ed Entity/S	Site Name	Blue Rid	ge Land	Ifill		TCEQ Add. ID No. RN No (optional)	TXR05S302				
nvestig	ation Type		SW CCI MSGP	Conta	act Made In-House (Y/N)	Purpose of Investigation	Complaint Investigatio	n				
egulat	ed Entity	 Contact	Burgess	Stengl		Telephone No.	Being nick	Date Contacted				
itle		WA 50-	Environr		Manager	FAX #/Email address						
estigatio	The informativiolations. Anyon, including a	y potential or allege	s or potential	violations	s discovered (if any) during the course of the necessary records, the con	ing the investigation process between the TCI unicated to the regulated entity representative this investigation, will be documented in a firmpany contact and date due to the Other type of issues: fully described.	nal investigation-report. agency, For Alleged an		3503			
No.	Type ¹		tion (if kno				otion of Issue	4				
1	RR				sampling conducted in 2016 1 st and 2 nd periods of 2017, log.	ay (7/17/18), provide copies of: 15; laboratory analysis reports for and the 1st period of 2018; curre	benchmark monitoring ant drainage/site map wi	th identified BMP's	; and the rain gauge			
2	PV				Failure to conduct benchma and the 1st and 2nd periods of	ark monitoring exceedance (BM) of 2017.	E) investigations of TS	S exceedances for th	e 2 nd period of 2016			
3	PV				Failure to establish necessa from the facility and that er	ry control measures that will pre	event or effectively redu and conditions of the I	ace pollution in storr ndustrial Stormwate	nwater discharges r MSGP.			
		T			and Violation) PV (Potential Viola	tion), O (Other), or RR (Records Req	uest)					
Note 1:	: Issue Type	Can Be One or	More of: A	AV (Alle	ged violations, I v (I otential viola	,, ,						
					named above operating with		☐ Yes		10			

Document Acknowledgment. Signature on this document establishes only that the regulated entity (RE) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, the document will be sent via FAX or Email to RE; therefore, the RE signature is not required.

ustin Roberts	7/13/18		
Investigate N (C)	111110		
Investigator Name (Signed & Printed)	Date	Regulated Entity Representative Name (Signed & Printed)	Date

If you have questions about any information on this form, please contact your local TCEQ Regional Office.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

White Copy: Regulated Entity Representative TCEQ 20085 (4/08)

Yellow Copy: TCEQ

(Note: use additional pages as necessary) Page __1__ of __1__

Attachment 3

Questions or Comments >>

Search Again CR Query TCEQ Home

Water Quality General Permits and Registration Search

Summary of Authorization TXR05S302

Permit/Registration Number: TXR05S302

Authorization Status: ACTIVE

Date Coverage Began: 04/17/2005

Date Coverage Ended:

Authorization Details

Site Name on Permit/Registration: BLUE RIDGE LANDFILL

Authorization Type: INDUSTRIAL

Activity Code: LF

Ms4 Operator: CITY OF FRESNO AND FORT BEND COUNTY

Sector: L

Outfall Number: 001

OUTFALL LATITUDE - 29.566586

OUTFALL LONGITUDE - (-95.438272)

DISCHARGE TO MARINE OR FRESH - MARINE WATER RECEIVING WATER BODY - CLEAR CREEK ABOVE TIDAL

Permittee or Registrant Information

Operator: CN602820599 - Blue Ridge Landfill TX, LP

Address: PO BOX 879 FRESNO TX 77545 0879

Annual Fee Billing Address: MICHAEL MACK

PO BOX 879 FRESNO TX 77545 0879

Permitted Site Information

RN: RN102610102

RE Name: BLUE RIDGE LANDFILL

Site Location: 2200 FM 521 RD FRESNO TX 77545 8214

County: FORT BEND

TCEQ Region: REGION 12 - HOUSTON

Latitude: 29.58 Longitude: -95.43

Regulated Entity Site Information

RE Name: BLUE RIDGE LANDFILL

Site Location: 2200 FM 521 RD FRESNO TX 77545 8214

County: FORT BEND

TCEQ Region: REGION 12 - HOUSTON

Latitude: 29.58056 **Longitude:** -95.43194

Application History for this Authorization

Final Action Date Received Date Application Type Status 08/31/2005 04/22/2005 APPROVED NOTICE OF INTENT 05/31/2007 APPROVED 11/20/2006 NOI-RENEWAL 10/19/2011 10/19/2011 APPROVED NOT-RENEWAL 09/30/2016 APPROVED 09/30/2016 NOI-RENEWAL 11/30/2016 10/24/2016 APPROVED NOTICE OF CHANGE

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Attachment 4



Hazardous Metals Monitoring Waiver f or Stormwater Discharges Associated with Industrial Activi ty Under the TPDES Multi-Sector General Permit (TXR050000)

Complete this form for the outfalls listed in the facility's stormwater pollution prevention plan (SWPPP). Use additional forms as needed. Keep this form on site with the SWPPP and make sure that it is readily available to TCEQ investigators on request.

TPDES Permit Number: TXR05 S 3 0 2

O. Hall	Thes	e met	als are	exclu	ided fr	om m	onitori	ng if c	hecke	d:	V 1	
Outfall (as listed in the SWPPP)	As	Ва	Cd	Cr	Cu	Pb	Mn	Hg	Ni	Se	Ag	Zn
Outfall 01	х	х	x	х	Х	Х	X	Х	Х	X	X	X
												-
					-		-					-
		-	ļ							-		-
										ļ		-
												-

Key to metals: As = arsenic; Ba = barium; Cd = cadmium; Cr = chromium; Cu = copper; Pb = lead; Mn = manganese; Hg = mercury; Ni = nickel; Se = selenium; Ag = silver; Zn = zinc

I certify under penalty of law that the hazardous metals checked in the above table meet at least one of the three criteria found in Part III, Section C.1. (d) (1) to (4) for the discharge location/respective outfall that is authorized by the TPDES Multi-Sector General Permit:

- That the regulated facility does not use a raw material, produce an intermediate product, or produce a final product that contains one of these hazardous metals.
- That any raw materials, intermediate products, or final products which contain a hazardous metal are never exposed to stormwater or runoff.
- That a sample of the discharge from the facility has been analyzed for one or more of the listed hazardous metals, and
 the results indicate that the metal(s) is/are not present in detectable levels. Test methods utilized are sensitive enough
 to detect the following parameters at the minimum analytical level (MAL) as specified in PartIII.D.1.(e)(iii) of the TDPES
 Multi-Sector General Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directlyresponsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

	2
Operator/Representative Name (printed or typed): _	Durgess Steng
Signature: Sugar Steal	Date (mm/dd/yy): _11/4/1/

Barium	SAMPLE MEASUREMENT	601151	****	******	4	******	0.131		1/Year	Grab
	SAMPLE REQUIREMENT	护理电影教育等	安保安安安内	*******	会派安全领告	******	4.0 Daily Max	mg/l	1/Year	Grab
Cadmium	SAMPLE MEASUREMENT	安全交易等的	****	*****	有安全的	******	<0.00070		 1/Year	Grab
	SAMPLE REQUIREMENT	******	*****	******	****	****	0.2 Daily Max	mg/l	1/Year	Grab
Chromium	SAMPLE MEASUREMENT	****	******	******	****	*****	0.0108		1/Year	Grab
	SAMPLE REQUIREMENT	******	*****	******	******	*****	5.0 Daily Max	mg/l	1/Year	Grab
Copper	SAMPLE MEASUREMENT	安食繁殖物學市	898889	****	******	******	<0.00700		1/Year	Grab
	SAMPLE	44****	*****	****	*****	******	2.0 Daily Max	mg/l	1/Year	Grab

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments

None

EPA Form 3320-1 (3-99)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

PAGE

AZARDOUS METALS - INLAND WATERS

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None

EPA Form 3320-1 (3-99)

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED)

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ANALYTICAL REPORT

June 30, 2016



Providence Engineering - Houston, TX

Sample Delivery Group:

L841601

Samples Received:

06/15/2016

Project Number:

018-080-005

Description:

Blue Ridge Landfill

Report To:

Lee Cantrell

11767 Katy Freeway, Ste 430

Houston, TX 77079

Entire Report Reviewed By:

Craig Cothron

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



TABLE OF CONTENTS



Cp: Cover Page	
² Tc: Table of Contents	
³ Ss: Sample Summary	2
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⁶ Qc: Quality Control Summary	8
Gravimetric Analysis by Method 2540 D-2011	9
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Metals (ICP) by Method 200.7	10
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⁸ Al: Accreditations & Locations	13
°Sc: Chain of Custody	14
	15





















Collected by L. Cantrell

Collected date/time 06/13/16 11:00

Peceived dats/time 06/15/16 09:00



OUTFALL 001 L841601-01 WW	Batch	Dilution	Preparation	Analysis date/time	Analyst
Method Gravimetric Analysis by Method 2540 D-2011 Mercury by Method 245.1 Metals (ICP) by Method 200.7	WG881321 WG880938 WG880713	1 1 1	date/time 06/18/16 01:55 06/16/16 17:07 06/16/16 13:00	06/18/16 04:40 06/17/16 09:45 06/16/16 17:04	JM NJB RDS























Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Craig Cothron

Technical Service Representative

Laboratory Review Checklist: Reportable Data

ONE LAB, NATIONWIDE.

Lab	orato	ory Name: ESC Lab Sciences	LRC Date: 06/30/2016 11:34					
Pro	ject N	Name: Blue Ridge Landfill	Laboratory Job Number: L841601-01					
Rev	riewe	r Name: Craig Cothron	Prep Batch Number(s): WG880713, WG880938 and V	VG8813	21			
#1	A ²	Description		Yes	No	NA ³	NR ⁴	ER#5
R1	OI	Chain-of-custody (C-O-C)						
		Did samples meet the laboratory's standard conditions	of sample acceptability upon receipt?	X				
		Were all departures from standard conditions describe				X		
R2	Toi	Sample and quality control (QC) identification						
	-	Are all field sample ID numbers cross-referenced to the	laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the o	corresponding QC data?	Х				
R3	Toi	Test reports						
	-	Were all samples prepared and analyzed within holding	times?	X				
		Other than those results < MQL, were all other raw valu		X				
		Were calculations checked by a peer or supervisor?		X				
		Were all analyte identifications checked by a peer or su	pervisor?	X				
1		Were sample detection limits reported for all analytes n	ot detected?	X				
		Were all results for soil and sediment samples reported		X				
		Were % moisture (or solids) reported for all soil and sed				X		
		Were bulk soils/solids samples for volatile analysis extra				X		
		If required for the project, are TICs reported?				X		
R4	To	Surrogate recovery data		1				
	_	Were surrogates added prior to extraction?				X		
		Were surrogate percent recoveries in all samples within	the laboratory QC limits?	X				
R5	Tol	Test reports/summary forms for blank samples				-		
1.0	10.	Were appropriate type(s) of blanks analyzed?		X				
		Were blanks analyzed at the appropriate frequency?		×				
		Were method blanks taken through the entire analytica	process, including preparation and, if applicable,			-		
1		cleanup procedures?	, , , , , , , , , , , , , , , , , , , ,	X				
		Were blank concentrations < MQL?		X				
R6	OI	Laboratory control samples (LCS):						
		Were all COCs included in the LCS?		X				
		Was each LCS taken through the entire analytical proce	edure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?		X				
		Were LCS (and LCSD, if applicable) %Rs within the labor		X				
		Does the detectability check sample data document the used to calculate the SDLs?	e laboratory's capability to detect the COCs at the MDL	х				
		Was the LCSD RPD within QC limits?		X				
R7	01	Matrix spike (MS) and matrix spike duplicate (MSD) data						
		Were the project/method specified analytes included in	the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?		X				
		Were MS (and MSD, if applicable) %Rs within the labora	tory QC limits?	Х				
		Were MS/MSD RPDs within laboratory QC limits?		X				
R8	OI	Analytical duplicate data		_	_			
		Were appropriate analytical duplicates analyzed for each	th matrix?	X				
		Were analytical duplicates analyzed at the appropriate t		X				
		Were RPDs or relative standard deviations within the lal	poratory QC limits?	X		\perp		
R9	OI	Method quantitation limits (MQLs):			_			
		Are the MQLs for each method analyte included in the I		X				
		Do the MQLs correspond to the concentration of the lov		X				
		Are unadjusted MQLs and DCSs included in the laborat	ory data package?	X				
R10	01	Other problems/anomalies						
		Are all known problems/anomalies/special conditions no		X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?						
		and methods associated with this laboratory data packa		Х				
1. Iter	ns ide	ntified by the letter "R" must be included in the laboratory	data package submitted in the TRRP-required report(s).	Items ic	dentifie	d by the	eletter	'S"

Items identified by the letter 'R' must be included in the laboratory data package submitted in the TRRP-required reports). Items should be retained and made available upon request for the appropriate retention period.
 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
 NA = Not applicable;
 NR = Not reviewed;
 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

ONE LAB. NATIONWIDE.



Lab	orato	ory Name: ESC Lab Sciences	LRC Date: 06/30/2016 11:34									
Pro	ject N	Name: Blue Ridge Landfill	Laboratory Job Number: L841601-01									
Rev	viewe	r Name: Craig Cothron	Prep Batch Number(s): WG880713, WG880938 and	WG8813	21							
#1	A ²	Description		Yes	No	NA ³	NR ⁴	ER# ⁶				
S1	OI	Initial calibration (ICAL)			-							
		Were response factors and/or relative response factors	s for each analyte within QC limits?	T	T	T X						
		Were percent RSDs or correlation coefficient criteria m		Х	1		1					
		Was the number of standards recommended in the me	thod used for all analytes?	X	-	1	\vdash	 				
		Were all points generated between the lowest and hig		X		1	$\overline{}$					
		Are ICAL data available for all instruments used?		X	-	1	$\overline{}$	\vdash				
		Has the initial calibration curve been verified using an	appropriate second source standard?	X	\vdash	$\overline{}$		1				
S2	OI	Initial and continuing calibration verification (ICCV and	<u> </u>	1		-						
	-	Was the CCV analyzed at the method-required frequer		T x	T	T	T					
		Were percent differences for each analyte within the m		X	1-		t	-				
		Was the ICAL curve verified for each analyte?		X	† 	1	1					
		Was the absolute value of the analyte concentration in	the inorganic CCB < MDL?	X	1	1	_					
S3	To	Mass spectral tuning		1 /		1						
	-	Was the appropriate compound for the method used for	or tuning?	T	T	Τx						
		Were ion abundance data within the method-required	1	X	\vdash							
54	To	Internal standards (IS)				1 1						
	_	Were IS area counts and retention times within the med	thod-required QC limits?	Тх	T	T	T					
S5	OI	Raw data (NELAC Section 5.5.10)					_					
		Were the raw data (for example, chromatograms, speci	tral data) reviewed by an analyst?	Ιx	T	T						
		Were data associated with manual integrations flagged		+ ``	-	X						
S6	To	Dual column confirmation										
		Did dual column confirmation results meet the method-	-required QC?		T	X	T					
S7	To	Tentatively identified compounds (TICs)		-	_	1 ~						
		If TICs were requested, were the mass spectra and TIC	data subject to appropriate checks?	T	T	X						
S8	T	Interference Check Sample (ICS) results			1	1						
	-	Were percent recoveries within method QC limits?		Тх	T T	T	T					
\$9	TI	Serial dilutions, post digestion spikes, and method of st	tandard additions	1								
		Were percent differences, recoveries, and the linearity		Τx		T	T	T				
S10	OI	Method detection limit (MDL) studies					-	-				
	-	Was a MDL study performed for each reported analyte:	?	Тх		1						
		Is the MDL either adjusted or supported by the analysis		X		1						
S11	OI	Proficiency test reports		1	-							
	-	Was the laboratory's performance acceptable on the ap	oplicable proficiency tests or evaluation studies?	Τx		T	1					
512	OI	Standards documentation		1 /	_							
		Are all standards used in the analyses NIST-traceable of	or obtained from other appropriate sources?	Ιx		T						
S13	OI	Compound/analyte identification procedures										
		Are the procedures for compound/analyte identification documented?										
S14	OI	Demonstration of analyst competency (DOC)		1	_							
		Was DOC conducted consistent with NELAC Chapter 5	Τx		T							
		Is documentation of the analyst's competency up-to-da		X		1						
S15	OI	Verification/validation documentation for methods (NEL		1 7	_							
	Are all the methods used to generate the data documented, verified, and validated, where applicable?											
S16	Oi	Laboratory standard operating procedures (SOPs)	, and tanaday in a approactive			4						
	-	Are laboratory SOPs current and on file for each metho	d performed	Tx		T						
4 14		and all the sent and the second financial		+ ^		-	_					

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
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 NA = Not applicable;
 NR = Not reviewed;
 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010 LRC page 4 of 4

Laboratory Review Checklist: Exception Reports

ONE LAB NATIONWIDE

Laboratory Name: ESC Lab Sciences	LRC Date: 06/30/2016 11:34	
Project Name: Blue Ridge Landfill	Laboratory Job Number: L841601-01	
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG880713, WG880938 and WG881321	

ER #1 Description

The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

- 1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

 2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

- NA = Not applicable;
 NR = Not reviewed;
 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

OUTFALL 001

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.



Gravimetric Analysis by Method 2540 D-2011

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l	mg/l		date / tîme		
Suspended Solids	63.2		0.350	2.50	2.50	1	06/18/2016 04:40	WG881321	

























Collected date/time: 06/13/16 11:00

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l	_	mg/l	mg/l	mg/l		date / time	BREIT
Mercury	U		0.0000490	0.000200	0.000200	1	06/17/2016 09:45	WG880938

Metals (ICP) by Method 200.7

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Arsenic	0.00689	<u>J</u>	0.00640	0.0100	0.0100	1	06/16/2016 17:04	WG880713
Barium	0.131		0.00100	0.00500	0.00500	1	06/16/2016 17:04	WG880713
Cadmium	U		0.000700	0.00200	0.00200	1	06/16/2016 17:04	WG880713
Chromium	0.0108		0.00180	0.0100	0.0100	1	06/16/2016 17:04	WG880713
Copper	U		0.00700	0.0100	0.0100	1	06/16/2016 17:04	WG880713
Iron	5.46		0.0282	0.100	0.100	1	06/16/2016 17:04	WG880713
Lead	U		0.00200	0.00500	0.00500	1	06/16/2016 17:04	WG880713
Manganese	0.166		0.00200	0.0100	0.0100	1	06/16/2016 17:04	WG880713
Nickel	0.00823	<u>J</u>	0.00580	0.0100	0.0100	1	06/16/2016 17:04	WG880713
Selenium	U		0.00760	0.0100	0.0100	1	06/16/2016 17:04	WG880713
Silver	U		0.00270	0.00500	0.00500	1	06/16/2016 17:04	WG880713
Zinc	0.0194	7	0.00340	0.0500	0.0500	1	06/16/2016 17:04	WG880713

WG881321

Analyte

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Gravimetric Analysis by Method 2540 D-2011

L841601-01

Method Blank (MB)

(MB) R3144433-1 06/18/16 04:40

MB Result **MB** Qualifier MB MDL MB RDL mg/l mg/l mg/l U Suspended Solids 0.350 2.50





L841273-01 Original Sample (OS) • Duplicate (DUP)

(OS) L841273-01 06/18/16 04:40 • (DUP) R3144433-4 06/18/16 04:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	19.1	19.1	1	0.000		5





L841567-01 Original Sample (OS) • Duplicate (DUP)

(OS) L841567-01 06/18/16 04:40 • (DUP) R3144433-5 06/18/16 04:40

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Suspended Solids	11900	11800	1	1.18		5







Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

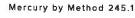
(LCS) R3144433-2 06/18/16 04:40 • (LCSD) R3144433-3 06/18/16 04:40

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifler	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	.%	%	%			%	%
Suspended Solids	773	852	884	110	114	85.0-115			3.69	5

WG880938

QUALITY CONTROL SUMMARY L841601-01

ONE LAB. NATIONWIDE.



Method Blank (MB)

Analyte

Mercury

(MB) R3144207-1 06/17/16 09:29

MB Result MB Qualifier MB MDL MB RDL

mg/l mg/l mg/l U 0.000049 0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3144207-2 06/17/16 09:31 • (LCSD) R3144207-3 06/17/16 09:34

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/I	mg/l	%	%	%			%	%
Mercury	0.00300	0.00259	0.00260	86	87	85-115			0	20







L841597-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L841597-01 06/17/16 09:36 • (MS) R3144207-4 06/17/16 09:38 • (MSD) R3144207-5 06/17/16 09:40

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/I	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00242	0.00248	81	83	1	70-130			3	20







WG880713

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L841601-01

Method Blank (MB)

(MB) R3144073-1 06/16/16 15:45

Metals (ICP) by Method 200.7

•	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Arsenic	U		0.0064	0.0100
Barium	U		0.001	0.00500
Cadmium	U		0.0007	0.00200
Chromium	U		0.0018	0.0100
Copper	U		0.007	0.0100
Iron	U		0.0282	0.100
Lead	U		0.002	0.00500
Manganese	U		0.002	0.0100
Nickel	U		0.0058	0.0100
Selenium	U		0.0076	0.0100
Silver	U		0.0027	0.00500
Zinc	U		0.0034	0.0500















Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

LCS) R3144073-2	06/16/16 15:4	8 • (LCSD)	R3144073-3	06/16/16 15:50
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(200) No. 1 (200)										
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifler	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic	1.00	1.02	1.01	102	101	85-115			1	20
Barium	1.00	1.02	1.02	102	102	85-115			1	20
Cadmium	1.00	1.02	1.01	102	101	85-115			1	20
Chromium	1.00	1.01	1.00	101	100	85-115			1	20
Copper	1.00	0.997	0.982	100	98	85-115			2	20
Iron	10.0	9.81	9.70	98	97	85-115			1	20
Lead	1.00	1.03	1.03	103	103	85-115			1	20
Manganese	1.00	0.992	0.979	99	98	85-115			1	20
Nickel	1.00	1.02	1.02	102	102	85-115			1	20
Selenium	1.00	1.03	1.02	103	102	85-115			1	20
Silver	1.00	1.00	0.996	100	100	85-115			1	20
Zinc	1.00	1.01	1:00	101	100	85-115			1	20



L841407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L841407-01 06/16/16 15:53 • (MS) R3144073-5 06/16/16 15:59 • (MSD) R3144073-6 06/16/16 16:01

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic	1.00	ND	1.04	1.04	104	104	1	70-130			1	20
Barium	1.00	0.0631	1.07	1.07	101	101	1	70-130			0	20
Cadmium	1.00	ND	1.02	1.03	102	103	1	70-130			1	20

	ACCOUNT:	
Providence	Engineering - Houston,	TX

Zinc

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Metals (ICP) by Method 200.7

L841601-01

L841407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

5 15:53 • (MS) R3	3144073-5 06/1	6/16 15:59 • (M	SD) R3144073-	6 06/16/16 16:0	01						
Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
1.00	ND	0.997	1.00	99	100	1	70-130			0	20
1.00	ND	0.997	0.998	100	100	1	70-130			0	20
10.0	ND	9.71	9.79	97	97	1	70-130			1	20
1.00	ND	1.03	1.04	103	104	1	70-130			1	20
1.00	ND	0.982	0.983	97	97	1	70-130			0	20
1.00	ND	1.02	1.03	102	103	1	70-130			1	20
1.00	ND	1.04	1.04	104	104	1	70-130			0	20
1.00	ND	1.00	1.01	100	101	1	70-130			0	20
1.00	ND	0.998	1.00	100	100	1	70-130			0	20
	Spike Amount mg/l 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	Spike Amount Original Result mg/l 1.00 ND 1.00 ND 10.0 ND 1.00 ND	Spike Amount Original Result MS Result mg/l mg/l mg/l 1.00 ND 0.997 1.00 ND 0.997 10.0 ND 9.71 1.00 ND 1.03 1.00 ND 0.982 1.00 ND 1.02 1.00 ND 1.04 1.00 ND 1.00	Spike Amount Original Result mg/l mg/l mg/l mg/l MS Result mg/l mg/l MSD Result mg/l mg/l 1.00 ND 0.997 1.00 1.00 ND 0.997 0.998 10.0 ND 9.71 9.79 1.00 ND 1.03 1.04 1.00 ND 0.982 0.983 1.00 ND 1.02 1.03 1.00 ND 1.04 1.04 1.00 ND 1.04 1.04 1.00 ND 1.00 1.01	Spike Amount Original Result MS Result MSD Result MS Rec. mg/l mg/l mg/l % 1.00 ND 0.997 1.00 99 1.00 ND 0.997 0.998 100 10.0 ND 9.71 9.79 97 1.00 ND 1.03 1.04 103 1.00 ND 0.982 0.983 97 1.00 ND 1.02 1.03 102 1.00 ND 1.04 1.04 104 1.00 ND 1.00 1.01 100	mg/l mg/l mg/l % % 1.00 ND 0.997 1.00 99 100 1.00 ND 0.997 0.998 100 100 10.0 ND 9.71 9.79 97 97 1.00 ND 1.03 1.04 103 104 1.00 ND 0.982 0.983 97 97 1.00 ND 1.02 1.03 102 103 1.00 ND 1.04 1.04 104 104 1.00 ND 1.00 1.01 100 101	Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution mg/l mg/l mg/l % % 1.00 ND 0.997 1.00 99 100 1 1.00 ND 0.997 0.998 100 100 1 10.0 ND 9.71 9.79 97 97 1 1.00 ND 1.03 1.04 103 104 1 1.00 ND 0.982 0.983 97 97 1 1.00 ND 1.02 1.03 102 103 1 1.00 ND 1.04 1.04 104 104 1 1.00 ND 1.04 1.04 104 104 1 1.00 ND 1.00 1.01 100 101 1	Spike Amount Original Result MS Result MSD Result MS Rec. MSD Rec. Dilution Rec. Limits mg/l mg/l mg/l % % % % 1.00 ND 0.997 1.00 99 100 1 70-130 1.00 ND 0.997 0.998 100 100 1 70-130 10.0 ND 9.71 9.79 97 97 1 70-130 1.00 ND 1.03 1.04 103 104 1 70-130 1.00 ND 0.982 0.983 97 97 1 70-130 1.00 ND 1.02 1.03 102 103 1 70-130 1.00 ND 1.04 1.04 104 104 1 70-130 1.00 ND 1.00 1.01 100 101 1 70-130	Spike Amount Original Result MSD Result MSD Res. MSD Rec. Dilution Rec. Limits MS Qualifier mg/l mg/l mg/l % % % % % MSD Qualifier 1.00 ND 0.997 1.00 99 100 1 70-130 70-130 10.0 ND 9.71 9.79 97 97 1 70-130 1.00 ND 1.03 1.04 103 104 1 70-130 1.00 ND 0.982 0.983 97 97 1 70-130 1.00 ND 1.02 1.03 102 103 1 70-130 1.00 ND 1.04 1.04 104 104 1 70-130 1.00 ND 1.04 1.04 104 104 1 70-130 1.00 ND 1.00 1.01 100 101 1 70-130	Spike Amount Original Result MSD Result MSD Result MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier mg/l mg/l mg/l % % % % ** *	Spike Amount Original Result MSD Result MSD Res. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD mg/l mg/l mg/l % %

£841543-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

1.05

1.05

(OS) L841543-O5 O6/16/16	16:43 • (MS) R3	144073-7 06/1	6/16 16:51 • (MS	5D) R3144073-8	06/16/16 16:5	3						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic	1.00	ND	1.02	1.02	102	102	1	70-130			0	20
Barium	1.00	0.0328	1.04	1.05	101	101	1	70-130			0	20
Cadmium	1.00	ND	1.01	1.02	101	102	1	70-130			0	20
Chromium	1.00	ND	0.997	0.992	100	99	1	70-130			0	20
Copper	1.00	ND	0.991	0.993	99	99	1	70-130			0	20
Iron	10.0	0.233	9.96	10.0	97	98	1	70-130			1	20
Lead	1.00	ND	1.04	1.03	103	103	1	70-130			0	20
Manganese	1.00	ND	0.984	0.979	98	97	1	70-130			0	20
Nickel	1.00	ND	1.03	1.03	103	103	1	70-130			0	20
Selenium	1.00	ND	1.02	1.03	102	103	1	70-130			1	20
Silver	1.00	ND	0.994	0.990	99	99	1	70-130			0	20

100



















1.00

ND

100

70-130

1

0

20

GLOSSARY OF TERMS



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
NDL	Comm

Not detected at the Sample Detection Limit. U

Relative Percent Difference. **RPD**

The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) Original Sample

from a quality control sample. The Original Sample may not be included within the reported SDG.

Recovery. Rec.

Sample Detection Limit. SDL Method Quantitation Limit. MQL

Unadjusted Method Quantitation Limit. Unadj. MQL

Description Qualifier

J

The identification of the analyte is acceptable; the reported value is an estimate.























ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the tables as accessing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**. * Not all certifications held by the laboratory are applicable to the results reported in the attached report.

















State Accreditations

Alaska	Nevada New Hampshire New Jersey-NELAP New Mexico New York North Carolina North Carolina ¹ North Carolina ² North Dakota Ohio-VAP Oklahoma Oregon Pennsylvania Rhode Island South Carolina South Dakota Tennessee ¹⁴ Texas Texas ⁵ Utah Vermont Virginia Washington West Virginia Wisconsin	TN-03-2002-34 2975 TN002 TN00003 11742 Env375 DW21704 41 R-140 CL0069 9915 TN200002 68-02979 221 84004 n/a 2006 T 104704245-07-TX LAB0152 6157585858 VT2006 109 C1915 233 9980939910 A2LA
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Third Party & Federal Accreditations

A2LA - ISO 17025	1461.01		
A2LA - ISO 17025	1461.02	ΛIHA	100789
Canada	1461.01	DOD	1461.01
EPA-Crypto	TN00003	USDA	S-67674

⁴ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶⁶ Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please



Company Name/Address:			Billing Info	rmation:			Analysis / Container / Preservative					Chain of Cus	stady	Page of		
Providence Engine 11767 Katy Freeway Houston, TX 77079	ering		QUOTE: PROENGHTX1114141s						- 40001		The second second		L.A.B	E	SC	
Report to: Mark Smith Project Description: Phone: 281-497-5656	nase II - Dal du Cav	ias, ax	marksn	Lee (ant- nith@provider City/State Collected: Da Lab Project #	ceeng.com		12 Metals S							12065 Leban Mount Julier, Phone: 615-7 Phone: 800-7 Fax: 615-758-	on Rd , TN 3712 758-5858 767-5859	OF CHOICE
Fax: Collected by (print): Control	Site/Facility II	080-0	os-	P.O. #		-	Teras	SS	Y					1	C160 Acctnum: PROENGH	
Collected by (signature): Immediately Packed on Ice N Y X	Same Next (ab MUST Be Day Day By Day	200% 100%	Email?	No ✓ Yes	No.	STEX (8017)	 	MEGERARS F	_	Woistere			Prelogin: TSR: Cooler:		
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	150	A Y	4	華	Mol			Shipped V		Sample # (lab only)
OUTFALL DOL	67	ww	_	6/13/16	11:00	2	X	×	×					Nem. / Coman	mean	- O
	-			-		-	-		-	-						
			-	+		+			-	-						
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to proper some distribution of the constitution of the constitutio		and the second s		Mr. S. Seller or surveyor C. Seller S			No. tomorrows									
* Matrix: SS - Soil GW - Groundwate Remarks:	r WW - Wastev	Vater DW - D	rinking Wat	ter OT - Other								Temp	585 Hold#	51 470	2	4332
Relinquished by : (Signature)	1	Date:	1	Time: F	eceived by Lign	Med						Othered via: UPS	Condit		flahu	se only)
Relinquished by : (18) Pure	D.	-6 (M	16	13:30	eceived by: (Sign	Tools	-			Temp:	edEx [C Bottles Receive		10/21/2	8k	10/2
Relinquished by : (Signature)		Date:	116	Time:	teceived for jab b	y: (Signa	ature)			3. C	5-14	₹ime: Oo: P	pH Che	eal Intact: ecked:	NCF:	_NNA

Attachment 5

NOTES:

1.) THE FACILITIES RECEIVING WATERBODY IS Clear Creek Above Tidal. It is Impaired for PCBs in edible tissue.

2.LOCATION AT THE GATE IS

29.331586°N,95.265971°W.

3.PROPERTY IS COMPRISED OF APPROX, 685.34 ACRES. 4.SCALE BAR ONLY APPLIES TO THE LARGE SITE MAP AND NOT THE INSERT.

5.NORTH ARROW APPLIES TO THE LARGE SITE MAP AND THE INSERT.

6.AERIAL IMAGE FROM GOOGLE EARTH DATED 03/03/16.

7. SEE LEACHATE COLLECTION SYSTEM (LCS) DRAWING AND LAYOUT OF ALL LCS COMPONENTS.







PROPERTY BOUNDARY DRAINAGE BOUNDARY

HAY BALES DITCH / CREEK / SWALE

DRAINAGE STRUCTURES (PIPES, ETC.)

FLOW DIRECTION

DRAINAGE AREA LE / ULD LOADING / UNLOADING AREA

OUTFALL (TO BE SAMPLED)

OUTFALL (NOT SAMPLED)

INFAUL

Ğ GENERATOR OIL WATER SEPARATOR

0 UNDERGROUND INJECTION WELL

EMERGENCY PLANT - SHUT OFF SWITCH

STRUCTURE

MAN HOLE STORM DRAIN DUMPSTER

DRAIN COVER

DIRT ROAD

CONCRETE

SECONDARY CONTAINMENT

S SPILL KIT

ROCK CHECK DAM

SCRAP METAL ROLLOFF/HOPPER T#

AST (ABOVE GRND STORAGE TANK) #

P# PORTABLE CONTAINERS #

E# OIL FILLED EQUIPMENT #

(D) DRUMS / TOTES / # В BAGHOUSES

F# TRANSPORMER #



1011 W. Lewis Street Conroe, TX 77301 281-210-0084 : www.timbercreekenv.com

Blue Ridge Landfill 2200 FM 521 rd Fresno, TX.77545

JOB#: 02,21,160212 Rev#0

SWPPP / SPCC SITE PLAN

FIGURE:

REPUBLIC

APPR: DH

DSN: JE SCALE: NTS DATE: 10-22-16



TANKS

10,000 GALLON DOUBLED WALLED STEEL TANK
1,000 GALLON STEEL TANK
1,000 GALLON DOUBLE WALLED STEEL TANK
700 GALLON DOUBLE WALLED STEEL TANK
700 GALLON DOUBLE WALLED STEEL TANK
700 GALLON DOUBLE WALLED STEEL TANK DIESEL DIESEL. T3 GASOLINE T4 MOTOR OIL T5 MOTOR OIL Тб TRANSMISSION FLUID 77 DIESEL 500 GALLON MOBILE TRUCK TB USED OIL 500 GALLON DOUBLE WALLED STEEL TANK HYDRAULIC FLUID MOTOR OIL MOTOR OIL T9 300 GALLON DOUBLE WALLED STEEL TANK T10 100 GALLON MOBILE T11 100 GALLON MOBILE T12 ANTIFREEZE 100 GALLON MOBILE T13 MOTOR OIL 100 GALLON MOBILE T14 HYDRAULIC FLUID 100 GALLON MOBILE T15 USED OIL 100 GALLON MOBILE



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Blue Ridge Landfill 2200 FM 521 rd Fresno, TX,77545

JOB#: 02,21,160212 Rev # 0

SWPPP / SPCC SITE PLAN



LEGEND

WILLD

#

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S

T# P#

E#

(D)

B

F#

PROPERTY BOUNDARY

LOADING / UNLOADING AREA

OUTFALL (TO BE SAMPLED) OUTFALL (NOT SAMPLED)

INFALL

GENERATOR

MAN HOLE STORM DRAIN DUMPSTER DRAIN COVER STRUCTURE DIRT ROAD CONCRETE SECONDARY CONTAINMENT

SPILL KIT ROCK CHECK DAM

SCRAP METAL ROLLOFF/HOPPER AST (ABOVE GRND STORAGE TANK) #

PORTABLE CONTAINERS #

OIL PILLED EQUIPMENT #

DRUMS / TOTES / #

BAGHOUSES

TRANSFORMER #

OIL WATER SEPARATOR UNDERGROUND INJECTION WELL

EMERGENCY PLANT - SHUT OFF SWITCH

HAY BALES DITTCH / CREEK / SWALE DRAINAGE STRUCTURES (PIPES, ETC.) FLOW DIRECTION DRAINAGE AREA

APPR: DH

FIGURE:

DSN: JE SCALE: NTS

DATE: 10-22-16

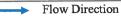
Google Maps Blue Ridge Landfill BMPs



Imagery @2018 Google, Map data @2018 Google 200 ft

BMPs:

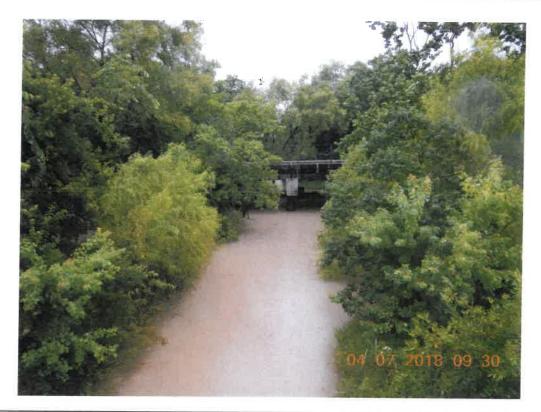
- 1. Natural Vegetation
- 2. Silt Fence N (Pond)
- 3. Silt Fence S (Pond)*
- 4. Vegetated Berm
- 5. Silt Fence S (Outfall)
- 6. Silt Fence N (Outfall
- 7. Silt Fence N (Basin)
- 8. Silt Fence S (Basin)



*This silt fence no longer installed, the pond was incorporated into the basin.

Attachment 6

Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill Taken by Investigator: Dustin Roberts



Description: View of discharge through Outfall 001 to the CCRC, noting water color/clarity. 1 (DSCN2402)



Description:

View of the CCRC on the Shadow Creek Ranch Subdivision side of FM 521, noting water color/clarity.

2 (DSCN2403)

	TEXAS COM		ENVIRONMENTAL QUALITY LITY REPORT	
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of Sample Site No. 1, noting water color/clarity. 3 (DSCN2405)



Description: View of Sample Site No. 2, noting water color/clarity and quantity.

4 (DSCN2406)

	TEXAS COM	IMISSION ON I WATER QUA	ENVIRONMENTAL QUALITY LLITY REPORT
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



Description: View of Sample Site No. 2, noting water color/clarity and quantity.

5 (DSCN2408)



	TEXAS COM		ENVIRONMENTAL QUALITY LITY REPORT	
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of the truck clean-out area, noting trash accumulation. 7 (DSCN2418)



Description:

View of the truck clean-out area, noting trash accumulation.

2	TEXAS COM		ENVIRONMENTAL QUALITY ALITY REPORT	
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	Ta .
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



	Description:	View of the internal pond, noting the stormwater flow path from the truck clean-	9 (DSCN2425)
ı		out area.	

Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill Taken by Investigator: Dustin Roberts



Description:	View of one of the permanent pumps for uncontaminated groundwater seepage,	10 (DSCN2420)
	noting the stormwater flowing through the fence from the truck clean-out area	(
	towards the internal pond.	



Description:

View of one of the permanent pumps for uncontaminated groundwater seepage.

11 (DSCN2422)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT				
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill				
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of Sample Site No. 3, noting the water color/clarity and the sedimentation basin. 12 (DSCN2430)



Description:

View of Sample Site No. 3, looking towards the north ditch.

	TEXAS COM	MISSION ON I WATER QUA	ENVIRONMENTAL QUALITY ALITY REPORT
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill
	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



Description: View of the sedimentation basin.

14 (DSCN2431)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT						
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill						
Date Photographed	7/4/18 % 7/10/18 Taken by Dustin Roberts					



Description: View of Sample Site No. 4 (Outfall 001), noting the water color/clarity. 16 (DSCN2442)



Description:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			*	
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill				
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of Sample Site No. 5, noting the water color/clarity (looking downstream towards Clear Creek).



Description:	View of Sample Site No. 6, noting the water color/clarity (looking upstream	19 (DSCN2453)
	towards BRL Outfall 001).	19 (1500112433)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill Taken by Investigator: Dustin Roberts



Description: View of Sample Site No. 6, noting the water color/clarity (looking downstream towards Clear Creek).



Description:	View of the confluence of Clear Creek and the CCRC, noting the water	21 (DSCN2469)
	color/clarity.	

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT				
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill				
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of the confluence of Clear Creek and the CCRC, noting the color change. 22 (DSCN2471)

WATER QUALITY REPORT				
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill				
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of the confluence of Clear Creek and the CCRC, noting the water color/clarity (looking upstream of Clear Creek).



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT						
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill						
Date Photographed	7/4/18 & 7/10/18 Taken by Dustin Roberts					



Description: View of a stormwater outfall with a reddish-brown discharge into the CCRC. 25 (DSCN2483)



Description:

View of a stormwater outfall with a reddish-brown discharge into the CCRC.

	TEXAS COM		ENVIRONMENTAL QUALITY LITY REPORT
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill
	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



ſ	Description:	View of a stormwater outfall with a reddish-brown discharge into the CCRC.	27 (DSCN2464)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit No. TXR05S302 Facility Name Blue Ridge Landfill		Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



Description: View of discharge through Outfall 001 to the CCRC, noting water color/clarity. 28 (DSCF0814)



Description: View of discharge through Outfall 001 to the CCRC, noting water color/clarity.

	TEXAS COM		ENVIRONMENTAL QUALITY LITY REPORT
Facility Permit No. TXR05S302		Facility Name	Blue Ridge Landfill
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



Description: View of the truck clean-out area, noting trash accumulation in the background and the stormwater flow-path.

30 (DSCF0834)



Description	L:
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WATER QUALITY REPORT				
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



		r
Description:	View of internal stormwater holding ponds with a construction access road in-	32 (DSCF0851)
	between.	

	TEXAS COM		ENVIRONMENTAL QUALITY LITY REPORT
Facility Permit No.	TXR05S302 Facility Name Blue Ridge Landfill		Blue Ridge Landfill
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



Description: View of temporary stormwater pump (not running) and two hoses in new cell being constructed, noting a groundwater seepage pump on the right.

	TEXAS COM	MISSION ON I	ENVIRONMENTAL QUALITY ALITY REPORT	
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill	
	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of temporary stormwater pump in new cell being constructed, discharging to the north ditch.

34 (DSCFo838)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT TXR05S302 Facility Name Blue Ridge Landfill 7/4/18 & 7/10/18 Taken by Investigator: Date Photographed Dustin Roberts



Description: View of temporary stormwater pipe discharge to the north ditch. 36 (DSCFo840)



Description:

View of temporary stormwater pipe discharge to the north ditch.

	TEXAS COM	MISSION ON I	ENVIRONMENTAL QUALITY ALITY REPORT	
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of a groundwater seepage pump discharging to the north ditch. 38 (DSCFo842)



Description:

5	TEXAS COM	MISSION ON E WATER QUA	ENVIRONMENTAL QUALITY LITY REPORT	
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description:	View of Sample Site No. 7, noting the groundwater seepage and stormwater discharges to the north ditch, and the water color/clarity (looking upstream).	40 (DSCF0846)
	discharges to the north disch, and the	•

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT				
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description:

View of the sedimentation basin, noting the silt fences (looking south, towards the outfall channel). Stormwater flows from the north ditch, through this basin, and then to the outfall channel.

41 (DSCF0853)

TEXAS CUMINISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT					
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill		
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts		



Description: View of the sedimentation basin, showing stormwater flow from the north ditch, through a cut in a berm (looking northeast). 42 (DSCF0857)

WATER QUALITY REPORT					
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill		
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts		



Description:	through a cut in a berm, into a mixing area for the north and south ditch, and	43 (DSCF0855)
	towards the outfall. (looking east southeast).	

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT				
Facility Permit No.	TXR05S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of the mixing area in the sedimentation basin, prior to discharge through the outfall, noting the silt fencing and water color/clarity (looking east).

44 (DSCF0863)

	TEXAS COM		NVIRONMENTAL QUALITY LITY REPORT	
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of stormwater flow from the south ditch, through a cut in a berm (looking east southeast).

45 (DSCFo854)

	TEXAS COM		NVIRONMENTAL QUALITY LITY REPORT	
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill	
Date Photographed	Oate Photographed 7/4/18 & 7/10/18 Taken by Investigator: Dustin Roberts			



Description: View of the south ditch, showing stormwater flow through a cut in a berm, into a mixing area for the north and south ditch, and towards the outfall. (looking east).



Desc	ription	
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	TEXAS COM	MISSION ON : WATER OU	ENVIRONMENTAL QUALITY ALITY REPORT
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts



Description:

View of Sample Site No. 5, noting the water color/clarity (looking upstream towards BRL Outfall 001).

48 (DSCF0869)



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT				
Facility Permit No.	TXRo5S302	Facility Name	Blue Ridge Landfill	
Date Photographed	7/4/18 & 7/10/18	Taken by Investigator:	Dustin Roberts	



Description: View of Sample Site No. 6, noting the water color/clarity (looking upstream towards BRL Outfall 001). 50 (DSCF0874)



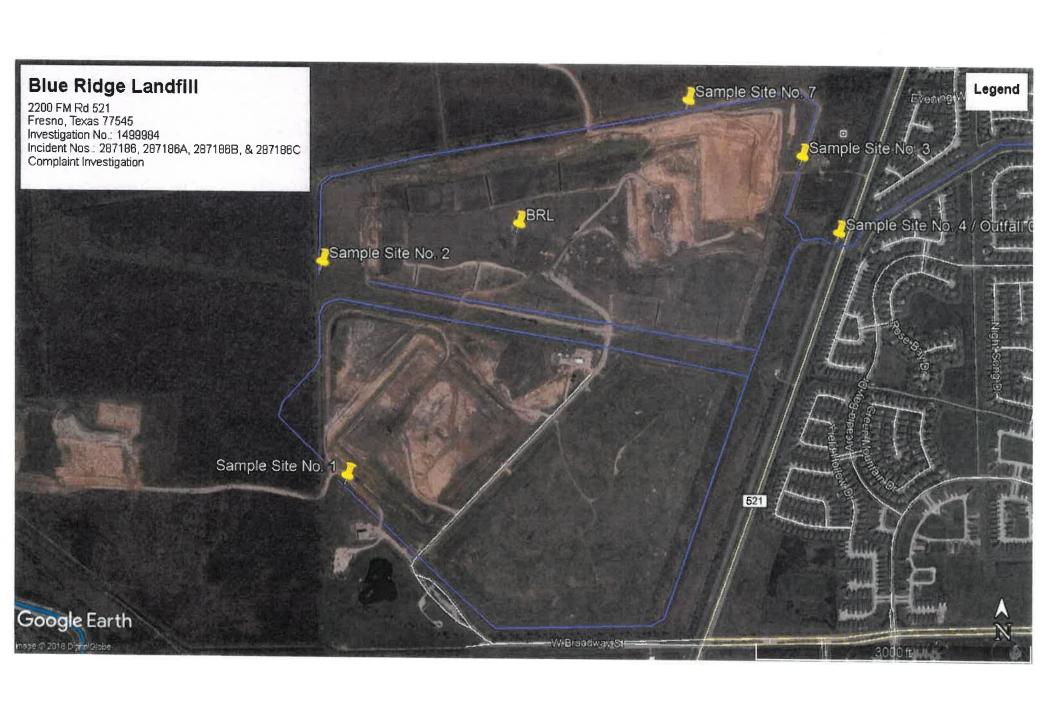
Description:

View of Sample Site No. 6, noting the water color/clarity (looking downstream towards Clear Creek).

51 (DSCF0871)

Attachment 7







Attachment 8

INSPECTION SAMPLE RESULTS

Entity Name:

Blue Ridge Landfill

TCEQ ID No.:

TXR05S302

Date of Inspection:

07/04/2018

Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 1:					Landfill stormwater and groundwater
Iron (mg/L)	1.730	N/A	Grab	W008745-06	11
TSS (mg/L)	194.4	N/A	Grab	W008745-06	II.
TDS (mg/L)	430.0	N/A	Grab	W008745-06	16
Turbidity (NTU)	132.0	N/A	Grab	W008745-06	"
Nitrate + Nitrite N (mg/L)	0.09	N/A	Grab	W008745-06	££
NH3-N (mg/L)	< 0.1	N/A	Grab	W008745-06	"
BOD (mg/L)	9.50	N/A	Grab	W008745-06	£4
COD (mg/L)	94.0	N/A	Grab	W008745-06	tt.
TOC (mg/L)	17.2	N/A	Grab ·	W008745-06	66
Phosphorus (mg/L)	0.1622	N/A	Grab	W008745-06	66
Oil & Grease (mg/L)	<2.80	N/A	Grab	W008745-06	66
Cyanide (mg/L)	< 0.01	N/A	Grab	W008745-06	66
pH (s.u.)	7.56	N/A	Grab	N/A	44
D.O. (mg/L)	4.60	N/A	Grab	N/A	44
Total Metals (hits only):					
Aluminum (mg/L)	1.870	N/A	Grab	W008745-06	16
Barium (mg/L)	0.255	N/A	Grab	W008745-06	16
Copper (mg/L)	0.019	N/A	Grab	W008745-06	"
Magnesium (mg/L)	11.90	N/A	Grab	W008745-06	66
Manganese (mg/L)	0.270	N/A	Grab	W008745-06	66
Zinc (mg/L)	0.087	N/A	Grab	W008745-06	46
Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 3:					Landfill stormwater and groundwater
Iron (mg/L)	1.420	N/A	Grab	W008745-05	61
TSS (mg/L)	709.6	N/A	Grab	W008745-05	44
TDS (mg/L)	334.0	N/A	Grab	W008745-05	11
Turbidity (NTU)	186.0	N/A	Grab	W008745-05	44
Nitrate + Nitrite N (mg/L)	1.08	N/A	Grab	W008745-05	41
NH3-N (mg/L)	<0.1	N/A	Grab	W008745-05	"
BOD (mg/L)	7.10	N/A	Grab	W008745-05	"
COD (mg/L)	41.0	N/A	Grab	W008745-05	ii .
TOC (mg/L)	2.0	N/A	Grab	W008745-05	14
Phosphorus (mg/L)	0.1322	N/A	Grab	W008745-05	í í
Oil & Grease (mg/L)	<2.95	N/A	Grab	W008745-05	16
Cyanide (mg/L)	< 0.01	N/A	Grab	W008745-05	16
pH (s.u.)	7.48	N/A	Grab	N/A	66

D.O. (mg/L)	6.97	N/A	Grab	N/A	и
Total Metals (hits only):					TORINA ANA
Aluminum (mg/L)	2.640	N/A	Grab	W008745-05	44
Barium (mg/L)	0.218	N/A	Grab	W008745-05	66
Copper (mg/L)	0.010	N/A	Grab	W008745-05	66
Magnesium (mg/L)	17.20	N/A	Grab	W008745-05	66
Manganese (mg/L)	0.206	N/A	Grab	W008745-05	44
Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No. 4 / Outfall 001:					Landfill stormwater and groundwater
Iron (mg/L)	0.232	1.3	Grab	W008745-04	"
TSS (mg/L)	1016.8*	100	Grab	W008745-04	66
TDS (mg/L)	302.0	N/A	Grab	W008745-04	"
Turbidity (NTU)	134.0	N/A	Grab	W008745-04	"
Nitrate + Nitrite N	0.57		Grab	W008745-04	22
(mg/L)		N/A			
NH3-N (mg/L)	< 0.1	N/A	Grab	W008745-04	"
BOD (mg/L)	7.72	N/A	Grab	W008745-04	a
COD (mg/L)	46.0	N/A	Grab	W008745-04	44
TOC (mg/L)	2.1	N/A	Grab	W008745-04	66
Phosphorus (mg/L)	0.2671	N/A	Grab	W008745-04	46
Oil & Grease (mg/L)	<2.98	N/A	Grab	W008745-04	16
Cyanide (mg/L)	< 0.01	N/A	Grab	W008745-04	66
pH (s.u.)	7.64	6.0-9.0	Grab	N/A	46
D.O. (mg/L)	6.73	N/A	Grab	N/A	66
Total Metals (hits only):			Grab		
Aluminum (mg/L)	1.170	N/A	Grab	W008745-04	44
Barium (mg/L)	0.211	4.0	Grab	W008745-04	44
Magnesium (mg/L)	15.80	N/A	Grab	W008745-04	66
Manganese (mg/L)	0.231	3.0	Grab	W008745-04	66
Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 5:					Stormwater
Iron (mg/L)	0.725	N/A	Grab	W008745-07	16
TSS (mg/L)	41.2	N/A	Grab	W008745-07	"
TDS (mg/L)	204.0	N/A	Grab	W008745-07	46
Turbidity (NTU)	178.0	N/A	Grab	W008745-07	66
Nitrate + Nitrite N (mg/L)	0.32	N/A	Grab	W008745-07	66
NH3-N (mg/L)	<0.1	N/A	Grab	W008745-07	16
BOD (mg/L)	7.16	N/A	Grab	W008745-07	16
COD (mg/L)	32.0	N/A	Grab	W008745-07	66
TOC (mg/L)	5.8	N/A	Grab	W008745-07	66
Phosphorus (mg/L)	0.2709	N/A	Grab	W008745-07	11
Oil & Grease (mg/L)	<2.78	N/A	Grab	W008745-07	66
Cyanide (mg/L)	< 0.01	N/A	Grab	W008745-07	66
pH (s.u.)	7.20	N/A	Grab	N/A	66
D.O. (mg/L) Total Metals (hits	6.84	N/A	Grab	N/A	u
only):					

Aluminum (mg/L)	0.849	N/A	Grab	W008745-07	14
Barium (mg/L)	0.077	N/A	Grab	W008745-07	ii .
Magnesium (mg/L)	8.75	N/A	Grab	W008745-07	ii .
Manganese (mg/L)	0.063	N/A	Grab	W008745-07	66
Sampling Location & Parameter	Mea sure d Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 6:	E SPAS				Stormwater
Iron (mg/L)	0.671	N/A	Grab	W008745-08	46
TSS (mg/L)	21.7	N/A	Grab	W008745-08	· ·
TDS (mg/L)	170.0	N/A	Grab	W008745-08	"
Turbidity (NTU)	15.10	N/A	Grab	W008745-08	и
Nitrate + Nitrite N (mg/L)	0.23	N/A	Grab	W008745-08	S.E.
NH3-N (mg/L)	<0.1	N/A	Grab	W008745-08	li.
BOD (mg/L)	6.82	N/A	Grab	W008745-08	ii.
COD (mg/L)	29.0	N/A	Grab	W008745-08	11
TOC (mg/L)	5.6	N/A	Grab	W008745-08	61
Phosphorus (mg/L)	0.2147	N/A	Grab	W008745-08	I.
Oil & Grease (mg/L)	<2.78	N/A	Grab	W008745-08	46
Cyanide (mg/L)	< 0.01	N/A	Grab	W008745-08	16
pH (s.u.)	7.13	N/A	Grab	N/A	11
D.O. (mg/L)	5.68	N/A	Grab	N/A	66
Total Metals (hits only):					
Aluminum (mg/L)	0.731	N/A	Grab	W008745-08	íí
Barium (mg/L)	0.064	N/A	Grab	W008745-08	11
Magnesium (mg/L)	6.74	N/A	Grab	W008745-08	11
Manganese (mg/L)	0.056	N/A	Grab	W008745-08	u

INSPECTION SAMPLE RESULTS

Entity Name:

Blue Ridge Landfill

TCEQ ID No.:

TXR05S302

Date of Inspection:

07/10/2018

Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 7:					Landfill stormwater and groundwater
Iron (mg/L)	5.48	N/A	Grab	W008746-01	"
TSS (mg/L)	119.6	N/A	Grab	W008746-01	II.
TDS (mg/L)	744.0	N/A	Grab	W008746-01	66
Turbidity (NTU)	80.4	N/A	Grab	W008746-01	14
Nitrate + Nitrite N (mg/L)	0.17	N/A	Grab	W008746-01	ct .
NH3-N (mg/L)	< 0.1	N/A	Grab	W008746-01	"
BOD (mg/L)	4.22	N/A	Grab	W008746-01	16
COD (mg/L)	24.0	N/A	Grab	W008746-01	16
TOC (mg/L)	1.7	N/A	Grab	W008746-01	íí
Phosphorus (mg/L)	< 0.05	N/A	Grab	W008746-01	64
Oil & Grease (mg/L)	<2.85	N/A	Grab	W008746-01	11
Cyanide (mg/L)	< 0.01	N/A	Grab	W008746-01	íí
pH (s.u.)	7.71	N/A	Grab	N/A	s.
D.O. (mg/L)	7.12	N/A	Grab	N/A	ı
Total Metals (hits only):					
Aluminum (mg/L)	6.65	N/A	Grab	W008746-01	u
Barium (mg/L)	0.246	N/A	Grab	W008746-01	G G
Magnesium (mg/L)	41.80	N/A	Grab	W008746-01	66
Manganese (mg/L)	0.150	N/A	Grab	W008746-01	66
Zinc (mg/L)	0.020	N/A	Grab	W008746-01	66
Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No. 4 / Outfall 001:					Landfill stormwater and groundwater
Iron (mg/L)	1.390	1.3	Grab	W008746-02	11
TSS (mg/L)	64.0	100	Grab	W008746-02	и
TDS (mg/L)	380.0	N/A	Grab	W008746-02	16
Turbidity (NTU)	45.0	N/A	Grab	W008746-02	"
Nitrate + Nitrite N	0.09		Grab	W008746-02	14
(mg/L)		N/A			
NH3-N (mg/L)	<0.1	N/A	Grab	W008746-02	££ ££
BOD (mg/L)	4.88	N/A	Grab	W008746-02	11
COD (mg/L)	18.0	N/A	Grab	W008746-02	
TOC (mg/L)	3.7	N/A	Grab	W008746-02	
Phosphorus (mg/L)	<0.05	N/A	Grab	W008746-02	56 64
Oil & Grease (mg/L)	<2.80	N/A	Grab	W008746-02	"
Cyanide (mg/L)	<0.01	N/A	Grab	W008746-02	u
pH (s.u.)	8.05	6.0-9.0	Grab	N/A	46
D.O. (mg/L)	9.33	N/A	Grab	N/A	

Total Metals (hits only):					
Aluminum (mg/L)	2.060	N/A	Grab	W008746-02	"
Barium (mg/L)	0.129	4.0	Grab	W008746-02	46
Magnesium (mg/L)	18.50	N/A	Grab	W008746-02	41
Manganese (mg/L)	0.052	3.0	Grab	W008746-02	"
Sampling Location & Parameter	- Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 5:					Stormwater
Iron (mg/L)	0.622	N/A	Grab	W008746-03	"
TSS (mg/L)	19.4	N/A	Grab	W008746-03	st
TDS (mg/L)	232.0	N/A	Grab	W008746-03	66
Turbidity (NTU)	18.5	N/A	Grab	W008746-03	ш
Nitrate + Nitrite N (mg/L)	<0.04	N/A	Grab	W008746-03	11
NH3-N (mg/L)	<0.1	N/A	Grab	W008746-03	(f
BOD (mg/L)	3.58	N/A	Grab	W008746-03	"
COD (mg/L)	22.0	N/A	Grab	W008746-03	"
TOC (mg/L)	4.5	N/A	Grab	W008746-03	16
Phosphorus (mg/L)	<0.05	N/A	Grab	W008746-03	ıı
Oil & Grease (mg/L)	<2.78	N/A	Grab	W008746-03	ii .
Cyanide (mg/L)	< 0.01	N/A	Grab	W008746-03	rt.
pH (s.u.)	8.08	N/A	Grab	N/A	66
D.O. (mg/L)	8.38	N/A	Grab	N/A	74
Total Metals (hits only):	0.50				
Aluminum (mg/L)	0.881	N/A	Grab	W008746-03	tt.
Barium (mg/L)	0.088	N/A	Grab	W008746-03	16
Magnesium (mg/L)	9.90	N/A	Grab	W008746-03	14
Manganese (mg/L)	0.045	N/A	Grab	W008746-03	"
Sampling Location & Parameter	Measured Value	Benchmark Value / Authorized Limit	Sample Type	COC Tag No.	Primary Source of Discharge
Sample Site No 6:					Stormwater
Iron (mg/L)	1.10	N/A	Grab	W008746-04	11
TSS (mg/L)	36.5	N/A	Grab	W008746-04	££
TDS (mg/L)	196.0	N/A	Grab	W008746-04	46
Turbidity (NTU)	21.2	N/A	Grab	W008746-04	16
Nitrate + Nitrite N (mg/L)	<0.04	N/A	Grab	W008746-04	44
NH3-N (mg/L)	<0.1	N/A	Grab	W008746-04	"
BOD (mg/L)	5.24	N/A	Grab	W008746-04	46
COD (mg/L)	25.0	N/A	Grab	W008746-04	66
TOC (mg/L)	5.8	N/A	Grab	W008746-04	61
Phosphorus (mg/L)	0.0628	N/A	Grab	W008746-04	44
Oil & Grease (mg/L)	<2.78	N/A	Grab	W008746-04	- 11
Cyanide (mg/L)	< 0.01	N/A	Grab	W008746-04	íi .
pH (s.u.)	8.00	N/A	Grab	N/A	66
D.O. (mg/L)	6.79	N/A	Grab	N/A	66
Total Metals (hits only):					
Aluminum (mg/L)	1.50	N/A	Grab	W008746-04	44
Barium (mg/L)	0.081	N/A	Grab	W008746-04	66
Magnesium (mg/L)	5.84	N/A	Grab	W008746-04	46

Manganese (mg/L) 0.061 N/A Grab W008746-04 "

a-b)

Job ID: 18070203

Date 7/12/2018

Client Name: TCEQ Attn: Dustin Roberts

Project Name: W008745 / Reg. 12, Org #06312, Program: WQ

Client Sample ID: W008745 - 04 Date Collected: 07/04/18

Time Collected: 13:35

Job Sample ID:	18070203.04
Sample Matrix	Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extractable	es						
	Oil & Grease	BRL	mg/L	1.19	2.98		07/11/18 08:1	0 SG
EPA 200.7	Total Recoverable Metals							
	Aluminum	1.170	mg/L	1	0.01		07/09/18 19:2	
	Antimony	BRL	mg/L	1	0.01		07/09/18 19:2	
	Arsenic	BRL	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Barium	0.211	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Beryllium	BRL	mg/L	1	0.01		07/09/18 19:2	
	Cadmium	BRL	mg/L	1	0.01		07/09/18 19:2	
	Chromium	BRL	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Copper	BRL	mg/L	1	0.01		07/09/18 19:2	
	Iron	0.232	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Lead	BRL	mg/L	1	0.01		07/09/18 19:2	
	Magnesium	15.80	mg/L	20	0.4		07/10/18 15:1	8 CAS
	Manganese	0.231	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Nickel	BRL	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Selenium	BRL	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Silver	BRL	mg/L	1	0.01		07/09/18 19:2	1 CAS
	Zinc	BRL	mg/L	1	0.01		07/09/18 19:2	1 CAS
CPA 245.1	Total Metals - Mercury							
	Mercury	BRL	mg/L	1	0.0002		07/06/18 14:5	5 GG
SM 2130B	Turbidity							
	Turbidity	134.00	NTU .	5	0.5		07/05/18 15:3	0 AJ
SM 2540C	Total Dissolved Solids							
	TDS	302.0	mg/L	1	10		07/09/18 09:3	0 00
SM 2540D	Total suspended solids							
	TSS	1016.8	mg/L	4.00	10		07/06/18 12:0	0 CO
SM 4500CNC/E	Total Cyanide							
	Cyanide	BRL	mg/L	1	0.01		07/12/18 15:4	5 LEB
SM 4500NH3D	Ammonia as Nitrogen						07/14/10 00 F	2.66
	Ammonia as N	BRL	mg/L	1	0.1		07/11/18 08:5	2 SG
SM 4500NO3E	Nitrate+Nitrite as N				0.04		07/00/10 17:0	0.41
	Nitrate/Nitrite as N	0.57	mg/L	1	0.04		07/09/18 17:0	U AJ
SM 4500P-E					0.05		07/00/10 11 5	0.43
	Phosphorus	0.2671	mg/L	1	0.05		07/09/18 11:3	UAJ
SM 5210B	Biochemical Oxygen Demand							
	BOD	7.72	mg/L	1	2		07/06/18 08:0	U YSK
SM 5220D	Chemical Oxygen Demand							

Job ID: 18070203

Date 7/12/2018

Client Name: Project Name: TCEQ

W008745 / Reg. 12, Org #06312, Program: WQ

Attn: Dustin Roberts

Client Sample ID:

W008745 - 04

Date Collected:

07/04/18

Job Sample ID:

18070203.04

Time Collected:

13:35

Sample Matrix

Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit	Q	Date Time	Analyst
M 5220D	Chemical Oxygen Demand	AND DE				W 18		N E
	COD	46.0	mg/L	1	10		07/09/18 10:30	AJ
SM 5310B	Total Organic Carbon							
	TOC	2.1	mg/L	1	1		07/11/18 11:30	AJ

Job Sample ID:

Sample Matrix

18070203.05

Water

Job ID: 18070203

Date 7/12/2018

Attn: Dustin Roberts TCEQ Client Name:

W008745 / Reg. 12, Org #06312, Program: WQ Project Name:

Client Sample ID: W008745 - 05 07/04/18 Date Collected:

Time Collected: 12:24

Other Information	on:						
Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extractable			EAST OF	The state of the s	07/14/10 00 10	cc
	Oil & Grease	BRL	mg/L	1.18	2.95	07/11/18 08:10	SG
EPA 200.7	Total Recoverable Metals					07/00/40 40:04	CAS
	Aluminum	2.640	mg/L	1	0.01	07/09/18 19:24	
	Antimony	BRL	mg/L	1	0.01	07/09/18 19:24	
	Arsenic	BRL	mg/L	1	0.01	07/09/18 19:24	
	Barium	0.218	mg/L	1	0.01	07/09/18 19:24	
	Beryllium	BRL	mg/L	1	0.01	07/09/18 19:24	
	Cadmium	BRL	mg/L	1	0.01	07/09/18 19:24	
	Chromium	BRL	mg/L	1	0.01	07/09/18 19:24	
	Copper	0.010	mg/L	1	0.01	07/09/18 19:24	
	Iron	1.420	mg/L	1	0.01	07/09/18 19:24	
	Lead	BRL	mg/L	1	0.01	07/09/18 19:24	
	Magnesium	17.20	mg/L	20	0.4	07/10/18 15:22	
	Manganese	0.206	mg/L	1	0.01	07/09/18 19:24	CAS
	Nickel	BRL	mg/L	1	0.01	07/09/18 19:24	CAS
	Selenium	BRL	mg/L	1	0.01	07/09/18 19:24	
	Silver	BRL	mg/L	1	0.01	07/09/18 19:24	CAS
	Zinc	BRL	mg/L	1	0.01	07/09/18 19:24	CAS
EPA 245.1	Total Metals - Mercury						
	Mercury	BRL	mg/L	1	0.0002	07/06/18 14:58	GG
SM 2130B	Turbidity						
	Turbidity	186.00	NTU	5	0.5	07/05/18 15:30	AJ
SM 2540C	Total Dissolved Solids						
311 23 100	TDS	334.0	mg/L	1	10	07/09/18 09:30	CO
CM 3E40D	Total suspended solids						
SM 2540D	TSS	709.6	mg/L	4.00	10	07/06/18 12:00	CO
			5.				
SM 4500CNC/E	Total Cyanide	BRL	mg/L	1	0.01	07/12/18 15:45	LEB
	Cyanide	DICE	71197~	_			
SM 4500NH3D	Ammonia as Nitrogen	DDI	mg/L	1	0.1	07/11/18 08:52	SG
	Ammonia as N	BRL	mg/c	1	0.1	31, 22, 3 2	
SM 4500NO3E	Nitrate+Nitrite as N			4	0.04	07/09/18 17:00	Δ1
	Nitrate/Nitrite as N	1.08	mg/L	1	U.U4 .	07/09/18 17:00	~
SM 4500P-E					0.05	07/00/49 11:30	A 1
	Phosphorus	0.1322	mg/L	1	0.05	07/09/18 11:30	, M
SM 5210B	Biochemical Oxygen Demand						14616
	BOD	7.10	mg/L	1	2	07/06/18 08:00	YSK
SM 5220D	Chemical Oxygen Demand						
1	, ,						

25

Job ID: 18070203

Date 7/12/2018

Client Name: TCEQ

Project Name:

W008745 / Reg. 12, Org #06312, Program: WQ

Attn: Dustin Roberts

Client Sample ID:

W008745 - 05

Date Collected: Time Collected:

07/04/18 12:24 Job Sample ID:

18070203.05

Sample Matrix

Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
M 5220D	Chemical Oxygen Demand						Fig		1-4
	COD	41.0	mg/L	1	10			07/09/18 10:30	AJ
SM 5310B	Total Organic Carbon								
	TOC	2.0	mg/L	1	1			07/11/18 11:30	ΑJ

<u>ab</u>

Job ID: 18070203

Date 7/12/2018

Client Name: TCEQ Attn: Dustin Roberts

Project Name: W008745 / Reg. 12, Org #06312, Program: WQ

Client Sample ID: W008745 - 06

Date Collected: 07/04/18

Time Collected: 11:17
Other Information:

Job Sample ID: 18070203.06 Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extractable	es	STELLS	10,000	200	COLUMN TOWN		
	Oil & Grease	BRL	mg/L	1.12	2.80		07/11/18 08:10	0 SG
EPA 200.7	Total Recoverable Metals							
	Aluminum	1.870	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Antimony	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Arsenic	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Barium	0.255	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Beryllium	BRL	mg/L	1	0.01	•	07/09/18 19:28	
	Cadmium	BRL	mg/L	1	0.01		07/09/18 19:20	8 CAS
	Chromium	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Copper	0.019	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Iron	1.730	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Lead	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Magnesium	11.90	mg/L	20	0.4		07/10/18 15:20	6 CAS
	Manganese	0.270	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Nickel	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Selenium	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Silver	BRL	mg/L	1	0.01		07/09/18 19:28	8 CAS
	Zinc	0.087	mg/L	1	0.01		07/09/18 19:28	8 CAS
EPA 245.1	Total Metals - Mercury							
	Mercury	BRL	mg/L	1	0.0002		07/06/18 15:03	2 [.] GG
SM 2130B	Turbidity							
011 21302	Turbidity	132.00	NTU	5	0.5		07/05/18 15:30	O AJ
SM 2540C	Total Dissolved Solids							
311 25700	TDS	430.0	mg/L	1	10		07/09/18 09:30	0 CO
CM 2540D	Total suspended solids		5.					
SM 2540D	TSS	194.4	mg/L	2.00	5.00		07/06/18 12:00	о со
		13111	9/ =				, .	
SM 4500CNC/E	Total Cyanide	BRL	mg/L	1	0.01		07/12/18 15:4	5 LEB
	Cyanide	DKL	mg/L	-	0.01		0.722,20.20	
SM 4500NH3D	Ammonia as Nitrogen Ammonia as N	BRL	mg/L	1	0.1		07/11/18 08:57	2 SG
SM 4500NO3E	Nitrate+Nitrite as N							
	Nitrate/Nitrite as N	0.09	mg/L	1	0.04		07/09/18 17:00	D AJ
SM 4500P-E								
	Phosphorus	0.1622	mg/L	1	0.05		07/09/18 11:30	D AJ
SM 5210B	Biochemical Oxygen Demand							
	BOD	9.50	mg/L	1	2		07/06/18 08:00) YSK
SM 5220D	Chemical Oxygen Demand							

Job ID: 18070203

Date 7/12/2018

Client Name: Project Name: TCEQ

W008745 / Reg. 12, Org #06312, Program: WQ

Attn: Dustin Roberts

Client Sample ID:

W008745 - 06

Job Sample ID:

18070203.06

Date Collected:

07/04/18

Water

Time Collected:

11:17 Other Information:

Sample Matrix

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 5220D	Chemical Oxygen Demand	763.4	Aire	197		THE PARTY		THE PARTY OF THE PER	77/2
	COD	94.0	mg/L	1	10			07/09/18 10:30	AJ
SM 5310B	Total Organic Carbon								
	TOC	17.2	mg/L	1	1			07/11/18 11:30	AJ



Job ID: 18070203

Date 7/12/2018

Client Name:

TCEQ

Attn: Dustin Roberts

Project Name:

W008745 / Reg. 12, Org #06312, Program: WQ

Client Sample ID:

W008745 - 07

Date Collected: Time Collected: 07/04/18 15:09

Other Information:

Job Sample ID: 18070203.07 Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extractab	les	A MARKETI	THE STANSORY	Table Service Majori	0.00	
	Oil & Grease	BRL	mg/L	1.11	2.78	07/11/18 08:10	SG
EPA 200.7	Total Recoverable Metals						
	Aluminum	0.849	mg/L	1	0.01	07/09/18 19:32	CAS
	Antimony	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Arsenic	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Barium	0.077	mg/L	1	0.01	07/09/18 19:32	CAS
	Beryllium	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Cadmium	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Chromium	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Copper	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Iron	0.725	mg/L	1	0.01	07/09/18 19:32	CAS
	Lead	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Magnesium	8.75	mg/L	20	0.4	07/10/18 15:30	CAS
	Manganese	0.063	mg/L	1	0.01	07/09/18 19:32	CAS
	Nickel	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Selenium	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Silver	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
	Zinc	BRL	mg/L	1	0.01	07/09/18 19:32	CAS
EPA 245.1	Total Metals - Mercury						
	Mercury	BRL	mg/L	1	0.0002	07/06/18 15:05	GG
SM 2130B	Turbidity						
	Turbidity	178.00	NTU	5	0.5	07/05/18 15:30	AJ
SM 2540C	Total Dissolved Solids						
511 25 100	TDS	204.0	mg/L	1	10	07/09/18 09:30	со
SM 2540D	Total suspended solids		-				
31.1 2.5 10.0	TSS	41.2	mg/L	2.00	5.00	07/06/18 12:00	со
SM 4500CNC/E	Total Cyanide		51 =		****		
SM 4500CNC/E	Cyanide	BRL	mg/L	1	0.01	07/12/18 15:45	LEB
CM 4FOOMUAD		5112	5/ =	-		,,	
SM 4500NH3D	Ammonia as Nitrogen Ammonia as N	BRL	mg/L	1	0.1	07/11/18 08:52	SG
	4.4	DICE	1119/ L	-	0.1	07,11,10 00.32	
SM 4500NO3E	Nitrate+Nitrite as N	0.32	mg/L	1	0.04	07/09/18 17:00	Δ1
	Nitrate/Nitrite as N	0.32	mg/L	1	0.04	07/03/18 17.00	~
SM 4500P-E	PI .	0.0700	//		0.05	07/00/18 11:20	
	Phosphorus	0.2709	mg/L	1	0.05	07/09/18 11:30	A.
SM 5210B	Biochemical Oxygen Demand	7.46			2	07/06/40 00 00	VCK
	BOD	7.16	mg/L	1	2	07/06/18 08:00	YSK
SM 5220D	Chemical Oxygen Demand						1

Job ID: 18070203

Date 7/12/2018

Client Name: Project Name: TCEQ

W008745 / Reg. 12, Org #06312, Program: WQ

Attn: Dustin Roberts

Client Sample ID:

W008745 - 07

Job Sample ID:

18070203.07

Date Collected:

07/04/18

15:09

Sample Matrix

Water

Time Collected:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
M 5220D	Chemical Oxygen Demand	No.	The state of the s	W-12		STORY SY		100	-
	COD	32.0	mg/L	1	10			07/09/18 10:30	AJ
SM 5310B	Total Organic Carbon								
	TOC	5.8	mg/L	1	1			07/11/18 11:30	AJ



Date 7/12/2018 Job ID: 18070203

TCEQ Client Name: Attn: Dustin Roberts Project Name:

Client Sample ID: W008745 - 08 Job Sample ID: 18070203.08

W008745 / Reg. 12, Org #06312, Program: WQ

Date Collected: 07/04/18 Sample Matrix Water Time Collected: 15:46

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extracta	bles		7.00	A MARIE	THE REAL PROPERTY.	777
	Oil & Grease	BRL	mg/L	1.11	2.78	07/11/18 08::	lo sg
EPA 200.7	Total Recoverable Metals						
	Aluminum	0.731	mg/L	1	0.01	07/09/18 19:3	36 CAS
	Antimony	BRL	mg/L	1	0.01	07/09/18 19:3	
	Arsenic	BRL	mg/L	1	0.01	07/09/18 19:3	
	Barium	0.064	mg/L	1	0.01	07/09/18 19:3	
	Beryllium	BRL	mg/L	1	0.01	07/09/18 19:3	
	Cadmium	BRL	mg/L	1	0.01	07/09/18 19:3	
	Chromium	BRL	mg/L	1	0.01	07/09/18 19:3	
	Copper	0.010	mg/L	1	0.01	07/09/18 19:3	
	Iron	0.671	mg/L	1	0.01	07/09/18 19:3	
	Lead	BRL	mg/L	1	0.01	07/09/18 19:3	
	Magnesium	6.74	mg/L	20	0.4	07/10/18 15:4	
	Manganese	0.056	mg/L	1	0.01	07/09/18 19:3	
	Nickel	BRL	mg/L	1	0.01	07/09/18 19:3	
	Selenium	BRL	mg/L	1	0.01	07/09/18 19:30	
	Silver	BRL	mg/L	1	0.01	07/09/18 19:30	
	Zinc	BRL	mg/L	1	0.01	07/09/18 19:30	
EPA 245.1	Total Metals - Mercury						
	Mercury	BRL	mg/L	1	0.0002	07/06/18 15:08	3 GG
SM 2130B	Turbidity					,,	
	Turbidity	15.10	NTU	5	0.5	07/05/18 15:30) Δ1
SM 2540C	Total Dissolved Solids			-		07703/10 13.30	, ,,
	TDS	170.0	mg/L	1	10	07/09/18 09:30	
M 2540D	Total suspended solids	270.0	9/ =	•	10	07,0911609.30	, 60
71723100	TSS	21.7	mg/L	1	2,50	07/06/10 12:00	
M 4500CNC/E		21.7	ilig/ L	1	2,50	07/06/18 12:00	1 (0
H 4500CNC/E	Total Cyanide Cyanide	BRL	m = /1	4	0.01	*******	
*** **********		DKL.	mg/L	1	0.01	07/12/18 15:45	LEB
M 4500NH3D	Ammonia as Nitrogen Ammonia as N	201					
		BRL	mg/L	1	0.1	07/11/18 08:52	SG
M 4500NO3E	Nitrate+Nitrite as N						
	Nitrate/Nitrite as N	0.23	mg/L	1	0.04	07/09/18 17:00	AJ
M 4500P-E							
	Phosphorus	0.2147	mg/L	1	0.05	07/09/18 11:30	AJ
M 5210B	Biochemical Oxygen Demand						
	BOD	6.82	mg/L	1	2	07/06/18 08:00	YSK
M 5220D	Chemical Oxygen Demand						

G.6

Job ID: 18070203

Date 7/12/2018

Client Name:

TCEQ

Project Name:

W008745 / Reg. 12, Org #06312, Program: WQ

Attn: Dustin Roberts

Project Wanter

Date Collected:

Client Sample ID:

W008745 - 08 07/04/18 Job Sample ID:

18070203.08

07/04/18 15:46 Sample Matrix

Water

Time Collected:
Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit	Q	Date Time	Analyst
SM 5220D	Chemical Oxygen Demand	29.0	mg/L	1	10		07/09/18 10:30	AJ
SM 5310B	Total Organic Carbon							W.
	TOC	5.6	mg/L	1	1		07/11/18 11:30	AJ

Job ID: 18070516

Date 7/17/2018

Client Name: Project Name: TCEQ

W008746 / Reg.12, Org. #06312, Program:WQ

Attn: Dustin Roberts

Client Sample ID:

W008746-01

Job Sample ID:

18070516.01

Date Collected: 07/10/18 Time Collected: 11:25

Sample Matrix

Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extracta	bles	Page 1	SUSPER	Serie de la company	3 200 (1110	raidiya
	Oil & Grease	BRL	mg/L	1.14	2.85	07/14/18 07:03 5	SG
EPA 200.7	Total Recoverable Metals					57,17,10 57.03 1	50
	Aluminum	6.65	mg/L	20	0.2	07/13/18 14:00 (CAC
	Antimony	BRL	mg/L	1	0.01	07/11/18 17:20 (
	Arsenic	BRL	mg/L	1	0.01	07/11/18 17:20 (
	Barium	0.246	mg/L	1	0.01	07/11/18 17:20 (
	Beryllium	BRL	mg/L	1	0.01	07/11/18 17:20 C	
	Cadmium	BRL	mg/L	1	0.01	07/11/18 17:20 C	
	Chromium	BRL	mg/L	1	0.01	07/11/18 17:20 C	
	Copper	BRL	mg/L	1	0.01	07/11/18 17:20 C	
	Iron	5.48	mg/L	20	0.2	07/13/18 14:00 C	
	Lead	BRL	mg/L	1	0.01	07/13/18 17:20 C	
	Magnesium	41.80	mg/L	20	0.4	07/13/18 14:00 C	
	Manganese	0.150	mg/L	1	0.01	07/13/18 17:20 C	
	Nickel	BRL	mg/L	1	0.01	07/11/18 17:20 C/	
	Selenium	BRL	mg/L	1	0.01	07/11/18 17:20 C/ 07/11/18 17:20 C/	
	Silver	BRL	mg/L	1	0.01	07/11/18 17:20 C/	
	Zinc	0.020	mg/L	1	0.01	07/11/18 17:20 C/	
PA 245.1	Total Metals - Mercury		<i>3.</i>	_	0,01	07/11/18 17:20 €	45
	Mercury	BRL	mg/L	1	0.0002	07/11/10 12:57 00	_
M 2130B	Turbidity		9, =	1	0.0002	07/11/18 13:57 GO	J
	Turbidity	80.4	NTU	2	0.3		
M 2540C	Total Dissolved Solids	55.1	NIO	2	0.2	07/11/18 11:30 AJ	I
1 25 100	TDS	744.0	//		40		
M 2540D		744.0	mg/L	1	10	07/11/18 09:30 CC)
1 23400	Total suspended solids TSS	110.6	,,				
4.450061101=		119.6	mg/L	2.00	5.00	07/11/18 11:00 CO)
M 4500CNC/E	Total Cyanide						
	Cyanide	BRL	mg/L	1	0.01	07/12/18 15:45 LER	В
4500NH3D	Ammonia as Nitrogen						
	Ammonia as N	BRL	mg/L	1	0.1	07/16/18 12:02 SG	
1 4500NO3E	Nitrate+Nitrite as N						
	Nitrate/Nitrite as N	0.17	mg/L	1	0.04	07/16/18 11:00 AJ	
1 4500P-E							
	Phosphorus	BRL	mg/L	1	0.05	07/12/18 10:00 AJ	
5210B	Biochemical Oxygen Demand					, ==, == 10.00 70	
	BOD	4.22	mg/L	1	2	07/12/18 08:00 YSK	,
5220D	Chemical Oxygen Demand					5./12/10 00.00 15N	,

Job ID: 18070516

Date 7/17/2018

Client Name:

TCEQ

Attn: Dustin Roberts

Project Name:

W008746 / Reg.12, Org. #06312, Program:WQ

Client Sample ID: Date Collected;

W008746-01

07/10/18 11:25

Time Collected: Other Information: Job Sample ID:

18070516.01

Sample Matrix

Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit Q	Date Time Analyst
SM 5220D	Chemical Oxygen Demand	24.0	mg/L	1	10	07/12/18 09:40 AJ
SM 5310B	Total Organic Carbon TOC	1.7	mg/L	1	1	07/13/18 09:00 AJ

Q.b)

Job ID: 18070516

Date 7/17/2018

Client Name:

TCEQ

Project Name:

W008746 / Reg.12, Org. #06312, Program:WQ

Attn: Dustin Roberts

Client Sample ID:

W008746-02

Date Collected: Time Collected:

07/10/18 12:35 Job Sample ID:

18070516.02

Sample Matrix

Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rot Limit	Reg Limit	Q Date Time	And to
EPA 1664B	Oil & Grease, Hexane Extract	tables			The street of th	rieg Emine	Q Date fille	Analyst
	Oil & Grease	BRL	mg/L	1.12	2.80		07/14/19 07:02	. 66
EPA 200.7	Total Recoverable Metals		13=	-7			07/14/18 07:03	5 5G
	Aluminum	2.060	mg/L	1	0.01		07/44/40 47 04	
	Antimony	BRL	mg/L	1	0.01		07/11/18 17:24	
	Arsenic	BRL	mg/L	1	0.01		07/11/18 17:24	
	Barium	0.129	mg/L	1	0.01		07/11/18 17:24	
	Beryllium	BRL	mg/L	1	0.01		07/11/18 17:24	
	Cadmium	BRL	mg/L	1	0.01		07/11/18 17:24	
	Chromium	BRL	mg/L	1	0.01		07/11/18 17:24	
	Copper	BRL	mg/L	1	0.01		07/11/18 17:24	
	Iron	1.390	mg/L	1	0.01		07/11/18 17:24	
	Lead	BRL	mg/L	1	0.01		07/11/18 17:24	
	Magnesium	18.50	mg/L	20 .	0.4		07/11/18 17:24	
	Manganese	0.052	mg/L	1	0.4		07/13/18 14:04	
	Nickel	BRL	mg/L	1			07/11/18 17:24	
	Selenium	BRL	mg/L	1	0.01		07/11/18 17:24	
	Silver	BRL	mg/L	1	0.01		07/11/18 17:24	
	Zinc	BRL	mg/L	1	0.01		07/11/18 17:24	
PA 245.1	Total Metals - Mercury		mg/L	1	0.01		07/11/18 17:24	CAS
	Mercury	BRL						
1 2130B	Turbidity	DICE	mg/L	1	0.0002		07/11/18 14:00 (GG
. 22505	Turbidity	4F.0		_				
1 2540C		45.0	NTU	2	0.2		07/11/18 11:30 A	v
1 23400	Total Dissolved Solids TDS							
4 25425		380.0	mg/L	1	10		07/11/18 09:30 C	:o .
1 2540D	Total suspended solids							1
	TSS	64.0	mg/L	1	2.50		07/11/18 ⁻ 11:00 C	:0
1 4500CNC/E	Total Cyanide							
	Cyanide	BRL	mg/L	1	0.01		07/12/18 15:45 LI	FR
4500NH3D	Ammonia as Nitrogen							
	Ammonia as N	BRL	mg/L	1	0.1		07/16/18 12:02 So	.
4500NO3E	Nitrate+Nitrite as N						0.710710 12.02 50	9
	Nitrate/Nitrite as N	0.09	mg/L	1	0.04		07/16/18 11:00 AJ	,
4500P-E							07/10/16 11.00 A)	,
	Phosphorus	BRL	mg/L	1	0.05		07/47/48 40 00	
5210B	Biochemical Oxygen Demand		·· 31 —	•	0.05		07/12/18 10:00 AJ	
	BOD	4.88	mg/L	1	2		07/40/45	
				7	~		07/12/18 08:00 YS	K I



Job ID: 18070516

Attn: Dustin Roberts

Date 7/17/2018

Client Name:

TCEQ

Project Name:

W008746 / Reg.12, Org. #06312, Program:WQ

Client Sample ID:

W008746-02

Date Collected:

07/10/18 12:35

Time Collected: Other Information:

Job Sample ID: 18070516.02 Liquid

Sample Matrix

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit Reg Limit	Q Date Time Analys
Test Metriod						
SM 5220D	Chemical Oxygen Demand COD	18.0	mg/L	1	10	07/12/18 09:40 AJ
SM 5310B	Total Organic Carbon TOC	3.7	mg/L	1 1	1	07/13/18 09:00 AJ

Job ID: 18070516

Date 7/17/2018

Client Name:

TCEQ

Project Name:

W008746 / Reg.12, Org. #06312, Program:WQ

Altn: Dustin Roberts

Client Sample ID: Date Collected:

W008746-03

07/10/18 14:15

Job Sample ID:

18070516.03

Sample Matrix

Liquid

Time Collected: Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q Date Time Analy
EPA 1664B	Oil & Grease, Hexane Extrac	tables				Reg Limit Q Date Time Analy
	Oil & Grease	BRL	mg/L	1.11	2.78	07/14/18 07:03 SG
EPA 200.7	Total Recoverable Metals					07/14/16 07:03 SG
	Aluminum	0.881	mg/L	1	0.01	07/11/18 17:20 016
	Antimony	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Arsenic	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Barium	0.088	mg/L	1	0.01	07/11/18 17:28 CAS
	Beryllium	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Cadmium	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Chromium	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Copper	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Iron	0.622	mg/L	1	0.01	07/11/18 17:28 CAS
	Lead	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Magnesium	9.90	mg/L	20	0.01	07/11/18 17:28 CAS
	Manganese	0.045	mg/L	1	0.01	07/13/18 14:08 CAS
	Nickel	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Selenium	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
	Silver	BRL	mg/L	1		07/11/18 17:28 CAS
	Zinc	BRL	mg/L	1	0.01	07/11/18 17:28 CAS
PA 245.1	Total Metals - Mercury		1119/ -	1	0.01	07/11/18 17:28 CAS
	Mercury	BRL	ma/l			
M 2130B	Turbidity	DILL	mg/L	1	0.0002	07/11/18 14:03 GG
	Turbidity	18.5	No.			
M 2540C		10.5	NTU	1	0.10	07/11/18 11:30 AJ
1 23100	Total Dissolved Solids TDS	205 -				
4 3E40D		232.0	mg/L	1	10	07/11/18 09:30 CO
1 2540D	Total suspended solids					
	TSS	19.4	mg/L	1	2.50	07/11/18 11:00 CO
1 4500CNC/E	Total Cyanide					, , ,
	Cyanide	BRL	mg/L	1	0.01	07/12/18 15:45 LEB
1 4500NH3D	Ammonia as Nitrogen					0.712/10 13.15 EED
	Ammonia as N	BRL	mg/L	1	0.1	07/16/18 12:02 SG
4500NO3E	Nitrate+Nitrite as N					07/10/18 12:02 SG
	Nitrate/Nitrite as N	BRL	mg/L	1	0.04	07/15/10 11 00 17
4500P-E			3, =	-	0.01	07/16/18 11:00 AJ
	Phosphorus	BRL	mg/L	1	0.05	
5210B	Biochemical Oxygen Demand	_	9/ =	1	0.03	07/12/18 10:00 AJ
	BOD	3.58	ma/l	1	2	
5220D	Chemical Oxygen Demand	3.30	mg/L	1	2	07/12/18 08:00 YSK

ab

Job ID: 18070516

Date 7/17/2018

Client Name: TO

TCEQ

Attn: Dustin Roberts

Project Name:

W008746 / Reg.12, Org. #06312, Program:WQ

Client Sample ID:

W008746-03 07/10/18

Date Collected: Time Collected:

Other Information:

14:15

Job Sample ID:

18070516.03

Sample Matrix

Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit Q	Date Time	Analyst
SM 5220D	Chemical Oxygen Demand	22.0	mg/L	1	10		07/12/18 09:40	
SM 5310B	Total Organic Carbon TOC	4.5	mg/L	1	1	H	07/13/18 09:00	AJ

Job ID: 18070516

Date 7/17/2018

Client Name: Project Name: TCEQ

W008746 / Reg.12, Org. #06312, Program:WQ

Attn: Dustin Roberts

Client Sample ID: Date Collected:

W008746-04

07/10/18

14:55

Job Sample ID:

18070516.04

Sample Matrix

Liquid

Time Collected: Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q Date Time	Analyst
EPA 1664B	Oil & Grease, Hexane Extracta	ables		2754840	TREAT	791 271	2 200 11110	70101750
	Oil & Grease	BRL	mg/L	1.11	2.78		07/14/18 07:03	SG
EPA 200.7	Total Recoverable Metals						0.72.720 0.700	
N.	Aluminum	1.500	mg/L	1	0.01		07/11/18 17:32	CAS
	Antimony	BRL	mg/L	1	0.01		07/11/18 17:32	
	Arsenic ^a	BRL	mg/L	1	0.01		07/11/18 17:32	
	Barium	0.081	mg/L	1	0.01		07/11/18 17:32	
	Beryllium	BRL	mg/L	1	0.01		07/11/18 17:32	
	Cadmium	BRL	mg/L	1	0.01		07/11/18 17:32	
	Chromium	BRL	mg/L	1	0.01		07/11/18 17:32	
	Copper	BRL	mg/L	1	0.01		07/11/18 17:32	
	Iron	1.100	mg/L	1	0.01		07/11/18 17:32	
	Lead	BRL	mg/L	1	0.01		07/11/18 17:32	
	Magnesium	5.84	mg/L	20	0.4		07/13/18 14:12	
	Manganese	0.061	mg/L	1	0.01		07/13/10 17:12	
	Nickel	BRL	mg/L	1	0.01		07/11/18 17:32 (
	Selenium	BRL	mg/L	1	0.01		07/11/18 17:32 (
	Silver	BRL	mg/L	1	0.01		07/11/18 17:32 (
	Zinc	BRL	mg/L	1	0.01		07/11/18 17:32 (
PA 245.1	Total Metals - Mercury		-				07/11/10 17.52	-73
	Mercury	BRL	mg/L	1	0.0002		07/11/10 14:07 6	
M 2130B	Turbidity		3 , -	~	010002		07/11/18 14:07 (JG
	Turbidity	21.2	NTU	1	0.10		07/11/10 11:30	
M 2540C	Total Dissolved Solids		1110	1	0.10		07/11/18 11:30 A	u
	TDS	196.0	mg/L	1	10			1
M 2540D	Total suspended solids	150.0	mg/L	1	10		07/11/18 09:30 C	:0
1 25100	TSS	36.5			2.50			-
M 4E00CNC/E		30.3	mg/L	1	2.50		07/11/18 11:00 C	0
M 4500CNC/E	Total Cyanide Cyanide	an.						
4.450011100		BRL	mg/L	1	0.01		07/12/18 15:45 LI	EB
M 4500NH3D	Ammonia as Nitrogen							1
	Ammonia as N	BRL	mg/L	1	0.1		07/16/18 12:02 Sc	G
M 4500NO3E	Nitrate+Nitrite as N							
	Nitrate/Nitrite as N	BRL	mg/L	1	0.04		07/16/18 11:00 A	1
1 4500P-E								1
	Phosphorus	0.0628	mg/L	1	0.05		07/12/18 10:00 AJ	.
1 5210B	Biochemical Oxygen Demand							
	BOD	5.24	mg/L	1	2		07/12/18 08:00 YS	sk
1 5220D	Chemical Oxygen Demand						,, 00,00	



Job ID: 18070516

Date 7/17/2018

Client Name: Project Name: TCEQ

W008746 / Reg.12, Org. #06312, Program:WQ

Attn: Dustin Roberts

Client Sample ID:

W008746-04

18070516.04

Date Collected:

07/10/18

Time Collected:

14:55

Job Sample ID: Sample Matrix Liquid

Other	In	or	ma	tior	1:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 5220D	Chemical Oxygen Demand	25.0	mg/L	1	10			07/12/18 09:40	
SM 5310B	Total Organic Carbon TOC	5.8	mg/L	1	1	in landarity		07/13/18 09:00	

									Chai	n of	Cu	stod	y Re	cor	d		-				M	nn	8745
TOFO	nd to: Houston Labo Phone: 281-45	ratory 57-5229	- 3	egion:	ame:	=	115	ation #	#:	12 00 C				_	Progra			4	14	1			0140
. arak		-	_ Si	ampler ph	one	num	ber:	11.5	(print)	-31	531				E-Mai	I ID:	lust	0.0	STOP	de	otro	in to	Kas Phi
LAB	USE LY	Sample ID	San	Time	Comp	1 74	Matrix L ≈ Liquid S ≈ Solid	0 =	Prese	rvatives	1	0080	\$2/	N.S.	i, Coli			P		1			narks
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		- 02	7/4/19	(45%		X	L	8												Cr. C	Se P	2, Ma	Ba, Be, C
	io±	- 03	744	1350		X	4	8															
		- 04	74/15	1334		X	L	8											1 4				
		- 05	7/4/12	1024		X	4	8											- T				
		- 06 - 07	7/4/19	1117		X		6														144	
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RE	LINOUISHED		7/14/4	546 DATE		TIME	4	8															
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True, JA 7/5/14/08/4							5	200	40.7	How	N/A		W	3/4		242		Received on Ice: Y N Temperature: OC					
pper Name:							Shi	pper h	Vumbe	r				1.10	1/4 3	46		eserv				Y	
pontainers: $P = Plastic$ $G = Clear Glass$ $A = Amber Glass$ Preservatives: $1 = Ice$ $2 = H_2SO_4$ $3 = HCI$							V es.	V = VOA Vials O = Other							COC Seal: Y N								
20649 (Rev. 6/13)	THE REST			White (Origina	al) - La	b	4=1	INO ₃		_	a ₂ S ₂ O ₃ ellow - La		= Other	MA	()-41		36	als in	idCI:			Y	

Pink - Collector Conv

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ONLY	Sample ID	Date	Time	Comp	Grab	Matrix L = Liquid S = Solid	0 =	PAnall	Salva Ses	8/8	000	88/	N.S.	100/1							Remarks	
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Yellow - Lab

Pink - Collector Conv

Attachment 9

Dustin Roberts

Subject:

FW: Stormwater Complaint Investigation

From: Dustin Roberts	
Sent: Wednesday, July 11, 2018 5:03 PM	
To: 'Laurie Rodriguez'	Westin Massey < Westin. Massey @tceq.texas.gov >; Norbert
Gonzalez	- The state of the
Cc: Rajendra Shrestha	; Ryan McKinnis Robert Upton
< 11 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	, hobert optor
Subject: RE: Stormwater Complaint Investigation	

Hi Laurie,

Thanks for your assistance in this matter. I smelled a very slight insecticide/pesticide odor in the air but was unable to determine if it was coming from the discharge when I smelled the outfall pipe.

Thanks,

Dustin Roberts

Environmental Investigator V
Water Quality
Texas Commission on Environmental Quality Region 12
5425 Polk St., Ste. H
Houston, TX 77023
713/767-3631 – Direct
713/767-3676 – Office
dustin.roberts@tceq.texas.gov

From: Laurie Rodriguez [
Sent: Wednesday, July 11, 2018 3:36 PM	
To: Dustin Roberts < Dustin.Roberts@tceq.texas.gov >; Westin Massey < Westin.Massey@	Tren Tevas Cous: Norbort
Gonzalez >	reeq.rexas.dov>, Norbert
Cc: Rajendra Shrestha <	>; Robert Upton
< (E) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	, Nobelt Opton
Subject Dr. Starre 1 C	

Subject: RE: Stormwater Complaint Investigation

Hi Dustin, thank you for the information. At any time you can contact me for any issues such as this. I also have the ability to collect samples, or assist with providing containers. Raj Shrestha (Asst. Director of Engineering) and Robert Upton (Director of Engineering/Interim Public Works Director) are two others that would need to be included for this type of investigation. I included them on this email. Although, I would be the one to follow up and respond. Interesting, on 6/11/18 we issued a violation notice to the management there due to a food truck on property leaking motor oil and food grease in the parking lot and grass area. Tenant was not answering phone or door. The management ended up prohibiting the tenant from parking the food truck on property. We will follow up. By any chance, was there any odor to the discolored water?

Laurie Rodriguez

Pretreatment Coordinator | Public Works

City of Pearland | 3501 East Orange Street | Pearland, TX 77581

P: 281.652.1813

<u>pearlandtx.gov</u>
How can we better serve you? Take our <u>customer satisfaction survey</u>. Service – The Pearland Way.



From: Dustin Roberts [mailto:Dustin.Roberts@tceq.texas.gov]

Sent: Wednesday, July 11, 2018 3:02 PM

To: Laurie Rodriguez <

Cc: Westin Massey < Westin.Massey@Tceq.Texas.Gov >; Norbert Gonzalez <

Subject: Stormwater Complaint Investigation

Hi Laurie,

Could you forward the following information to the appropriate person with the City, or provide me their contact information? I conducted a stormwater complaint investigation on 7/4/18, at a facility that discharges to the Clear Creek Relief Channel (CCRC). In the course of my investigation, I observed a dark colored (brown/red) discharge coming from multiple stormwater pipes that appeared to originate from The Columns at Shadow Creek Ranch Apartment Complex (12325 Shadow Creek Pkwy). The stormwater outfalls are on the West side of the CCRC, across from the Reclamation Bay WWTP. See the attached photographs. I had run out of sample containers and was therefore unable to collect any more samples. I apologize for just now submitting this information.

Get Connected:

Thanks,

Dustin Roberts

Environmental Investigator V
Water Quality
Texas Commission on Environmental Quality Region 12
5425 Polk St., Ste. H
Houston, TX 77023
713/767-3631 – Direct
713/767-3676 – Office
dustin.roberts@tceq.texas.gov

Attachment 10

LABORATORY REPORT BENCHMARK 2ND HALF 2016

OUTFALL 001

Analyte

iron

SAMPLE RESULTS - 01

Unadj. MQL

mg/l

0.100

MQL

mg/l

0.100

Dilution

Analysis

date / time

11/16/2016 03:40

ONE LAB. NATIONWIDE.

Batch

WG926434

Collected date/time: 11/09/16 00:00

Metals (ICP) by Method 200.7

Gravimetric Analysis by Method 2540 D-2011

mg/l

2.58

Qualifier

SDL

mg/l

0.0282

	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Suspended Solids	111	<u>J3</u>	0.350	2.50	2.50	1	11/17/2016 05:11	WG926825



Ss	











LABORATORY REPORT BENCHMARK 1ST HALF 2017

001

SAMPLE RESULTS - 01

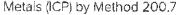
ONE LAB. NATIONWIDE

Collected date/time: 02/14/17 09:30

Gravimetric Analysis by Method 2540 D-2011

	Result	Qualifier	SDL	Unadj, MQL	MOL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Suspended Solids	140		0.350	2.50	2.50	1	02/20/2017 13:37	WG953450





	Result	Qualifler	SDL	Unadj, MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
fron	8.57		0 0282	0.100	0 100	1	02/21/2017 09:23	WG952813















LABORATORY REPORT BENCHMARK 2ND HALF 2017

001

SAMPLE RESULTS - 01

Collected date/time: 08/08/17 11:00

ONE LAB. NATIONWIDE.







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L		

⁴ Tr	











	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Suspended Solids	201		0.350	2.50	2.50	1	08/11/2017 19:07	WG1008381



Metals (ICP) by Method 200./

	* Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l	mg/l	mg/l		date / time	
Iron	3.52		0.0282	0.100	0.100	1	08/16/2017 10:53	WG1008988

ATTACHMENT 11

Monitoring

Benchmark monitoring is sector specific and requires chemical analysis by a laboratory of designated constituents during the first and second half of each calendar year. The Benchmark Monitoring Requirements are detailed below (Benchmark Monitoring not required for Sector P):

Sector/SIC Code	Benchmark Monitoring Required?					
LF, 4953	[X] Yes [] No					
	TSS	100 mg/L				
	Iron, total	1.3 mg/L				
Benchmark Parameters &						
Limits						

Sampling

After completing one of the visual analyses (during the first <u>and</u> second halves of the year), utilize the same sample to fill the laboratory provided glassware. (The same sample from the visual analyses can, but does not have to be utilized for the Benchmark analysis.) Ship samples packed on ice to the lab for analysis under appropriate chain of custody procedures.

Lab:	Point of Contact:	Phone:	
		1 1101101	

Documenting

File copies of the lab analysis in this section. Compare lab results to the Benchmark Levels noted above. If no exceedances are noted, no actions are required. If exceedances are noted, complete a Benchmark Exceedance Investigation (Appendix G) to determine the source of the exceedance(s) and appropriate Best Management Practices to reduce the associated parameters to levels below the benchmarks.

Reporting

Benchmark Monitoring results must be reported by March 31 of the following year on TCEQ form 20091 (Appendix H).



MEMORANDUM

Date:

February 19, 2018

To:

TCEQ Stormwater Pre-Treatment Team

From:

Burgess Stengl

Environmental Manager

Subject:

2017 Benchmark Monitoring Reports
ÆXR05AL32 – North County Landfill
TXR05S302 – Blue Ridge Landfill

Cc:

Please find enclosed two 2017 Benchmark Monitoring Reports. One for TXR05AL32 North County Landfill, and the second for TXR05S302 – Blue Ridge Landfill.

Please let me know if you have any questions.

Thank you,

Burgess Stengl



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY BENCHMARK MONITORING REPORT FOR FACILITIES AUTHORIZED UNDER THE MULTI-SECTOR GENERAL PERMIT (TXR050000)

If you have questions about completing this form please contact the Stormwater & Pretreatment Team at 512-239-4671 or Stocked to of the decidence.

Reporting Period: January December, 2017

Authorization Number: TXR05 8302

SIC Code: 4953 Industrial Activity Code: LF Sector: L

Parameter	Benchmark Level (mg/L)	1 st Period Result (Jan-Jun)	2 nd Period Result (July-Dec)	Annual Average (mg/L)	Does Annual Average Exceed Benchmark Level (Yes/No)
TSS	16361	140	201	170.5	Yes
Iron, total	1.3	8.57	3.52	6.045	Yes

Respons	able (Hlicial	Name:
---------	--------	----------------	-------

Phone Number:

As the operator/representative of this facility, I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision, in accordance with a system designed to assume that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature (use blue urk)	Dates
--------------------------	-------



After printing this Tabel

1. Use the 17mil bullon on this page to print your label to your laser or inkipil pointer.

2. Cold the printed page along the horizontal line.

3. Elser, Tabel in shipping points and after the your shipment so that the barcode portion of the label can be coad and scanned.

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Appendix G Benchmark Exceedance (BME) Investigations (as applicable)

Conducting

If Benchmark sampling results exceed one or more of the designated Benchmark levels (Appendix F), conduct a Benchmark Exceedance (BME) Investigation to document the results.

Documenting

A BME investigation typically includes a site investigation and subsequent report. There is no specified format for the report, but it will typically include the following components:

- A review of the analytical data in comparison to the Benchmarks;
- A discussion of the site operations and background information;
- A discussion of site observations as they relate to the Benchmark exceedance(s);
- A discussion of potential sources of the exceedance(s); and
- Recommendations for Best Management Practices (BMPs) to reduce the exceedance to levels below the benchmarks.

Though not required, accompanying photographs may be helpful.

Upon completion of the BME, file it in this Appendix.

Reporting

BMEs are not required to be submitted to any agency unless requested.

Frequently the MS4 will require copies of the BMEs be submitted to them. Check with the MS4 identified in Attachment 3 to determine if they require copies of the BME.



September 29, 2017

Mr. Burgess Stengl Republic Services 5757A Oates Road Houston, Texas 77378

Re: Blue Ridge Landfill

BME - Iron Exceedance

Dear Mr. Stengl:

Iron was identified as a naturally occurring condition at Blue Ridge Landfill. Due to this link, additional benchmark exceedance investigations are not required. Timber Creek Environmental suggests continuing to monitor for iron and referencing the previous BME (Blue Ridge LF-BME 8-19-16) if an exceedance occurs.

If you have any questions regarding this information, please feel free to contact Timber Creek Environmental, LLC at (281) 210-0084.

Sincerely,

Timber Creek Environmental, LLC

Clayton E. Hall

in the matter

Division Manager - Storm Water Compliance

							51),	,
	1		TCEQ E	XIT INTERVIEW FO	RM:	Fotential Violations	and/or Records R	Request	
Regu	lated Entir	y/Site Name	Blue Ridge	Landfill			TCEQ Add. ID No. RN No (optional)	TXR05S30	2
Inves	tigation T	ype	Complaint	aint Contact Made In-House N Purpose of Investigation (Y/N)		ion Compliance			
Regu	lated Entir	y Contact	Burgess Ster	ngl		Telephone No.	713-671-1561	Date Contacted	
Emai	il address		bstengl@rep	oubliservices.com		FAX#	713-676-7882 FAX/Email 09/21/2017 date		
wed to vi	iolations, Any	potential or alleged v	riolations discovere	rovide clarity to issues that have arisen du ed after the date on this form will be come is discovered (if any) during the course of	nunicated to	o the regulated entity representative pri	or to the issuance of a notice of vi	ove and does not represent location or enforcement. Co	final TCEQ findings nelusions drawn from thi
ls	sue	For Records R rule in question	equest, identif n with the clea	fy the necessary records, the co orly described potential problem	mpany c n. Other	ontact and date due to the ag type of issues: fully describe	ency. For Alleged and Po	otential Violation iss	ues, include the
No.	Type	Rule Citation	n (if known)	Description of Issue					
	Al	Permit		Your benchmark for Iron is 1.3mg/L, the sample results indicated 1.644mg/L.					
				According to the MSGP Pa	rt IV. (E	BENCHMARK MONITORI	ING REQUIREMENTS)	
						r), 3: The permittee shall cor			
				values for any pollutant(s)	that the	permittee is required to mor	nitor according to Part V	of this general perr	nit, and shall
				include this comparison in	the over	all assessment of the SWP3	's effectiveness. Analyti	cal results that exce	ed a benchmark
				value are not a violation of	this per	mit, as these values are not	numeric effluent limitati	ons. However, not	conducting
_				benchmark sampling, not s	ubmittin	g the benchmark monitoring	g form with sample resu	lts, or not submittin	g the benchmark
				monitoring form with an ex	cplanatio	on as to why the sampling fa	iled to be conducted is a	a violation of the pe	rmit requirements
				for benchmark monitoring	submitta	al. Exceedances of benchma	rk values indicate that m	nodifications to the	SWP3 and
				current BMP(s) may be need	cessary.				
ote 1: I	ssue Type (lan Be One or Mo	re of: AV (Alleg	ed Violation), PV (Potential Violation)	tion), O ((Other), or RR (Records Request)	!		
Did th	e TCEO d	locument the rep	gulated entity	named above operating with	out prop	er authorization?	☐ Yes	E No	
				ty representative that continue			☐ Yes	Ξ No	

If you have questions about any information on this form, please contact your local TCEQ Regional Office.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

White Copy: Regulated Entity Representative TCEQ 20085 (4/08)

Yellow Copy: TCEQ

(Note: use additional pages as necessary) Page _____ of ____

INSTRUCTIONS FOR COMPLETING THE TCEQ EXIT INTERVIEW FORM

(See FODSOP Investigation Guidance Document, Conducting the Exit Interview, for further details)

NOTE:

The Issue section of the form should not be filled out prior to the investigation.

The form does not take the place of a verbal exit interview. The form is to be used in conjunction with the exit interview. No form is required if no issues or potential issues were discovered, and no outstanding record requests exist.

Form Block	Explanation	Example
Regulated Entity/Site Name	Name of Facility being investigated / Unique site name	ABC Corporation / Jasper Brewing Company
TCEQ Additional ID No.	Any other TCEQ id numbers known	Acet # JC-0001-A
Investigation Type	Use a current program type code from the program list.	SPCI
Contact Made In-House (Y/N)	Did you contact the facility by telephone from the agency office (Y) or during a field visit (N)?	N
Purpose of Investigation	Describe in terms that Regulated Entity (RE) and Comprehensive Compliance Investigation Public can understand.	
Regulated Entity Contact	Person Representing Facility - This should be the main contact you deal with during the investigation.	John Jones
Telephone No.	Include the area code.	(409) 999 - 9999
Date Contacted	Use date of field visit or date contacted by 12/25/08 telephone.	
Title Provide full title as the RE contact defines it.		Environmental Manager
FAX # / Email address Include the area code and the FAX # o address.		(409) 888 – 8888 / jjones@abccorp.com
FAX / Email Date	If applicable, provide date.	12/31/01
Issue No.	e No. Numerical Order (1, 2, 3, etc) 1 Wrap-around allowed if ext needed.	

Туре		
Турс	Choose Type based on Description of Issue. AV - If you are sure that the situation is a violation of a specific rule, use this code. PV - If you are not sure that the situation is a violation but you know that something is not quite right, use this code. O - If issues need to be followed-up on, use this code. RR - If there is an outstanding records request, use this code.	PV - Tank No. 1315 may be subject to NSPS Subpart Kb due to modifications. O - Failure to meet TCEQ Permit may need to be reported on deviation report. RR - Tank Inspection Records for Tank No.
Rule Citation (if known at the time)	AV - Use specific rule citation if known. PV - Use specific or general rule citation O - Not Required RR - Not Required	1315 for 2001. 116.115(c) NSPS Subpart Kb or 60.132(b)
Description of Issue - Violations	Describe issue clearly enough that regulated entity is aware of the issue. Use specific situation (tank no., valve no., etc) if possible.	Failed to keep the vapor pressure records for Unit ZEE as required by Special Condition
Description of Issue – Records Request	Describe the records requested in enough detail that the regulated entity's representative understands what is needed. Indicate the date range for the	No. 4 of Permit 12345. Fuel Gas Analysis Reports for the fuel burned in boilers 1-4 from 1/1/2008 – 12/31/2008. John Jakes, Boiler Manager to provide records to TCEQ by 03/31/2009.
Did the TCEQ Document operation without authorization?	Did you document activities that were not authorized (Y) or (N)?	
f yes to the previous question, did he investigator advise the RE that peration is not authorized?	Investigator shall inform the RE that continued operation is not authorized. (Y) or (N).	Y

Signature Block – for field visit	Also print name.	As directed.
	RE's representative should be asked to sign, print name, and date in the appropriate block. [Signature only states that a copy was received. If the RE rep. does not want to sign, write in "Representative Refused to Sign" in RE signature block and leave the original with them anyway.]	
Electronic Signature – for In- House review	Investigator types name as required for electronic signature, and date in the 1st block. There is no signature requirement for the RE.	/John C. Doe/ 12/31/08
	The completed form should be sent via FAX or Email to the RE's representative. See Instructions below.	

Instructions for sending a FAXED document:

- 1. Contact the company representative by telephone to advise them you are going to send the FAX. Document the conversation in the communication window of CCEDS.
- 2. Produce a cover sheet for the FAX be sure to include the numbers of pages sent.
- 3. FAX the document to the intended recipient.
- 4. When the FAX is complete, generate a transmission report. The transmission report should identify that the document was sent and how many pages were sent.
- 5. Include the copy of the FAX cover sheet, the transmission report generated by the FAX machine and the "Exit Interview Form" as an attachment to the final investigation report.

(Continued)

Instruction, for sending a document via email:

- 1. Contact the company representative by telephone to advise them you are going to send an email. Document the email in the communication window of CCEDS.
- 2. Include, at a minimum, the following in the body of the email: "The Exit Interview Form: Potential Violations and/or Records Request is being provided as an attachment to this email to ensure that the issues were communicated clearly during our telephone conversation on (add date). If the Exit Interview Form, contact me as soon as possible. Please reply to this email, with the attachment, to indicate your receipt."
- 3. Send the email message and the attachment to the intended recipient.
- 4. When the reply is received, print a copy of the reply and a copy of the original email. [Your original email will show all recipients plus any cc's and bcc's that do not show up in a reply that includes your original email.]
- 5. Include the copy of the original email, the RE reply, and the "Exit Interview Form" as an attachment to the final investigation report.



August 19, 2016

Mr. Burgess Stengl Republic Services 5757A Oates Road Houston, Texas 77378

Re: Rept

Republic Services - Blue Ridge Landfill

Benchmark Exceedance Investigation for the 1st Half of 2016

Timber Creek Project No.: 02.21.160727-H

Dear Mr. Stengl;

On August 9, 2016, Timber Creek Environmental, LLC (Timber Creek) conducted a site visit at Republic Services' Blue Ridge Landfill to perform a Benchmark Exceedance Investigation (BME) to address the exceedance of permit discharge limitations for Sector L Industrial Facilities in the storm water discharge sample collected during the first half of 2016 from Outfall 001. Outfall 001 had an exceedance of total iron as summarized below:

Parameter	Benchmark Value (mg/L)	Outfall 001 (mg/L)
Iron, total	1.3	5.46

Bolded values indicate an exceedance.

mg/L: milligrams per liter

The objectives of the investigation were to identify the contributing factors that potentially resulted in the iron exceedance measured at the Blue Ridge Landfill and to provide best management practice (BMP) recommendations to reduce the level that exceeded the benchmark threshold. The following sections outline the background, site visit, description of field observations, identification of potential sources and recommendations.

1011 W. Lewis St.
Conroe, TX 77301
(281) 210-0084 - Office
www.timbercreekenv.com
A Service Disabled Veteran Owned Small Business

Background

The Blue Ridge Landfill is located at 2200 FM-521in Fresno, Fort Bend County, Texas 77545. The standard industrial classification (SIC) for this facility is registered with the State of Texas as 4953 (NAICS 56212). This allows the facility to be covered under the Texas Pollutant Discharge Elimination System (TPDES) Multi-Sector General Permit (MSGP, TXR05000) as a Sector L facility. The Facility submitted a Notice of Intent (NOI) to discharge as a Sector L facility in April 2005 and was issued TPDES permit TXR05S302 in August 2005.

The Blue Ridge Landfill stormwater control consists of a dual drainage ditch system. The primary drainage ditch encompasses the closed and active landfill cells. These ditches are large enough to prevent stormwater from entering the secondary drainage ditch system and may be considered as a retention pond. Four-inch centrifugal pumps are utilized to pump surface water from the primary drainage ditch to the outlying secondary drainage ditch system. The facility also employs two detention basins, located along the eastern side of the landfill, for periods of excessive precipitation. The secondary system flows to Outfall-001, which is located approximately 150 feet west of the FM-521 bridge. Excessive sediment is cleaned out of the secondary drainage ditch on an as-needed basis. Two new cells have been under construction for several months.

Site Visit

Mr. Martin Hughes of Timber Creek, conducted a site visit on August 9, 2016. Mr. Burgess Stengl, Environmental Manager, accompanied Mr. Hughes on the site visit. The purpose of the site visit was to:

- 1. Assess BMPs, including good housekeeping measures that the facility implements;
- 2. Identify potential causes for the exceedance; and
- 3. Identify additional BMPs that could aid in reducing the levels of the constituents of concern in the storm water discharge from the facility.

During the site visit, the outfalls, drainage system, detention ponds, and the new cell construction were observed. The active fill area was observed, and the Landfill's current permit documentation was reviewed.

Site Observations

Water was observed flowing into and out of detention basin II, which is adjacent to Outfall-001. In addition, the northeast section of the secondary drainage ditch system, nearly 1,300 feet in length, was observed to be nearly $\frac{1}{2}$ full of sediment and overgrown with cattails in a couple areas. Several other sections, along the active and under construction cells, of the

secondary drainage system were observed with significant sedimentation build-up. Finally, water flowing off-site was observed to be silty tan in color. The drainage ditches along the closed cells were observed to be vegetated and mostly free of debris and trash.

Research

Surface and subsurface geology, and the iron content of the Lake Charles clay was researched on-line. The presence of iron found in the benchmark sample is likely the result of background levels relevant to the soil composition of that area. According to the United States Department of Agriculture (USDA) Natural Resource Conservation Service's (NRCS) Web Soil Survey website the land fill is operated primarily on a Lake Charles clay. Review of the 1960 USDA Soil Survey of Fort Bend County, Texas, indicates Lake Charles soil contains medium to high concentrations of reduction/oxidation (redox) accumulations that derive from the reduced forms of iron and manganese. The reduced forms are more mobile in soil than the oxidized/ferric species of the elements. This results in varying iron concentrations throughout the soil profile with lower concentrations toward the surface and higher concentrations with increasing depth. When soils at greater depths are disturbed, their discharge will also contain the increased iron concentrations

As indicated above, a potential source of elevated concentrations of iron identified within the benchmark sample may have been due to naturally occurring levels of iron. As the slightly acidic rainwater falls on and flows through the iron-containing soils, some of the iron minerals in the soil are dissolved and ionic iron enters the stormwater. With new earthmoving activities, such as the excavation of the new cell and stockpiling of the removed soils, more soil surface area (and hence minerals) are exposed for weathering. As iron minerals generally have a low solubility in slightly acidic waters, it could be theorized that this could be the source of elevated concentrations of iron in the stormwater discharge.

Recommendations

Based on the analytical data reviewed and the observations during the site visit, the following are Timber Creek's recommendations for consideration:

- To help reduce the amount of exposed material and thus the levels of TSS, Timber Creek recommends Blue Ridge Landfill review the listed BMPs required for Sector L facilities related to sediment and crosion control, including:
 - a. Provide temporary stabilization of exposed soils and disturbed areas;
 - b. Clean up sediment tracking daily;
 - c. Clean up sediment and debris in the drainage areas daily; and
 - d. General good housekeeping measures.

- 2. Timber Creek recommends periodic removal of sediment and cattails from the secondary drainage ditch system to allow capture of suspended solids.
- 3. Timber Creek recommends cleaning out Detention Basin II of excess silt and sediment as soon as possible and before the next sampling event. After cleaning, the detention basis should be monitored periodically for build-up of excess silt and sediment and cleaned out as needed. Timber Creek recommends adding this monitoring activity to the operations routine inspection schedule.

It is Timber Creek's opinion that the elevated iron concentrations are the result of naturally occurring conditions; and therefore, future iron exceedances in stormwater would not trigger the need for a BME.

Timber Creek Environmental, LLC appreciates the opportunity to provide professional environmental services to Republic Services. Should you have any questions regarding this report or the property, please feel free to contact us at (281) 210-0084.

Sincerely,

Timber Creek Environmental, LLC

E. Martin Hughes Project Manager

David Klebieko

Technical / Quality Manager

References Cited

United States Department of Agriculture (USDA) Natural Resource Conservation Service's (NRCS) Web Soil Survey website: (http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx).

Texas Water Development Board's (TWDB) Groundwater Data Viewer website: (http://www2.twdb.texas.gov/apps/WaterDataInteractive/GroundwaterDataViewer/?map =sdr).