ADAMS ENVIRONMENTAL, INC.
EST. 1996

December 7, 2017

Tim Noack, P.E.
Principal
Alan Plummer Associates, Inc.
1320 W. University Drive, Suite 300
Fort Worth, Texas 76107

RE: Limited Subsurface Investigation Letter Report
16795, Ltd. Property
Bexar County, Texas

Dear Mr. Noack:

Adams Environmental, Inc. (AEI) appreciates the opportunity to provide you with the findings from our Limited Subsurface Investigation (LSI) of the San Antonio Water System (SAWS) Mitchell Lake Wetlands Pilot Wetland Plot and Wetland Area E (potential final wetland project area) in Bexar County, Texas.

Background

This LSI was conducted on November 14, 2017, in response to the need for initial evaluation of common environmental (RCRA 8 metals), chlorinated pesticide, chlorinated herbicide, and agricultural constituents at the above referenced sites and for project planning purposes. This letter report summarizes the methodology and results derived from this LSI.

This LSI report was prepared by AEI for the exclusive use and benefit of Alan Plummer Associates, Inc., its successors and assigns, and SAWS. Any use or application of this report by a third party is prohibited. This report should not be shared with any third party, and there are no third-party beneficiaries to this report. AEI does not assume responsibility for third party use of or reliance upon this report.

Limitations

This LSI was conducted with the standard of care as is normally provided by professionals involved in environmental investigations of similar size and type, within the allocated time and project budget, and within the same geographic region. AEI makes no warranties, express or implied, regarding the findings, conclusions or recommendations. Please note that laboratory analyses are prepared by accredited providers; however, AEI does not warrant the work of these third parties. The methodology and findings presented in this document were performed in accordance with the agreed upon scope between Alan Plummer Associates, Inc. and AEI and are not intended to be in full compliance with the provisions of ASTM E1903-11, Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

The subsurface investigation detailed in this letter report was topical in nature and extended only to surface soils to a depth of 6 inches below ground surface. Findings in this report were derived based upon information collected during the on-site sampling activities, and only to the depth referenced in

the agreed upon scope. Certain indicators of the presence of hazardous constituents may be latent, inaccessible, unstable, unobservable, or nondetectable or not present at the time of services. Composite sampling locations were generated randomly and may not represent full site conditions. Our findings are based solely upon data generated from the agreed scope and at the time of the investigation.

Methodology

On November 14, 2017, AEI collected one (1) agricultural and one (1) environmental sample from the proposed Pilot Wetland and three (3) agricultural and two (2) environmental samples from Area E, a proposed permanent project location. Each sample was composited from seven (7) discreet samples collected at depth of 0-6 inches. Sampling locations are shown in **Figure 1** (Pilot Wetland) and **Figure 2** (Area E). The agricultural samples at the Pilot Wetland are identified as PA while the environmental samples at the Pilot Wetland are identified as PE in the legend. Additionally, in Area E, the agricultural samples are identified as EA and the environmental samples as EE. Each composite location was sampled using a sharpshooter shovel, with no portion of the sample collected directly from the shovel blade. Composites were blended in a one-gallon bag before being transferred to laboratory-provided sample jars. Sampling equipment was cleaned with an Alconox solution and rinsed with distilled water at the start of sampling as well as between sample collection. New latex gloves were used to collect each sample to prevent cross-contamination. Surface and groundwater sampling was not included in this sampling protocol.

Samples were transported on ice to San Antonio Testing Laboratory, Inc. (SATL) where they were analyzed for RCRA 8 metals, chlorinated pesticides, chlorinated herbicides, total nitrogen, total phosphorus, and nitrates. Testing methods used to analyze collected samples included the Standard Methods for the Examination of Water and Wastewater, 22nd Edition 2012, Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983, and EPA SW Test Methods for the Examination of Solid Waste, SW-846 Update IV, February 2007.

Figure 1. Locations of Pilot Wetland composite sampling points

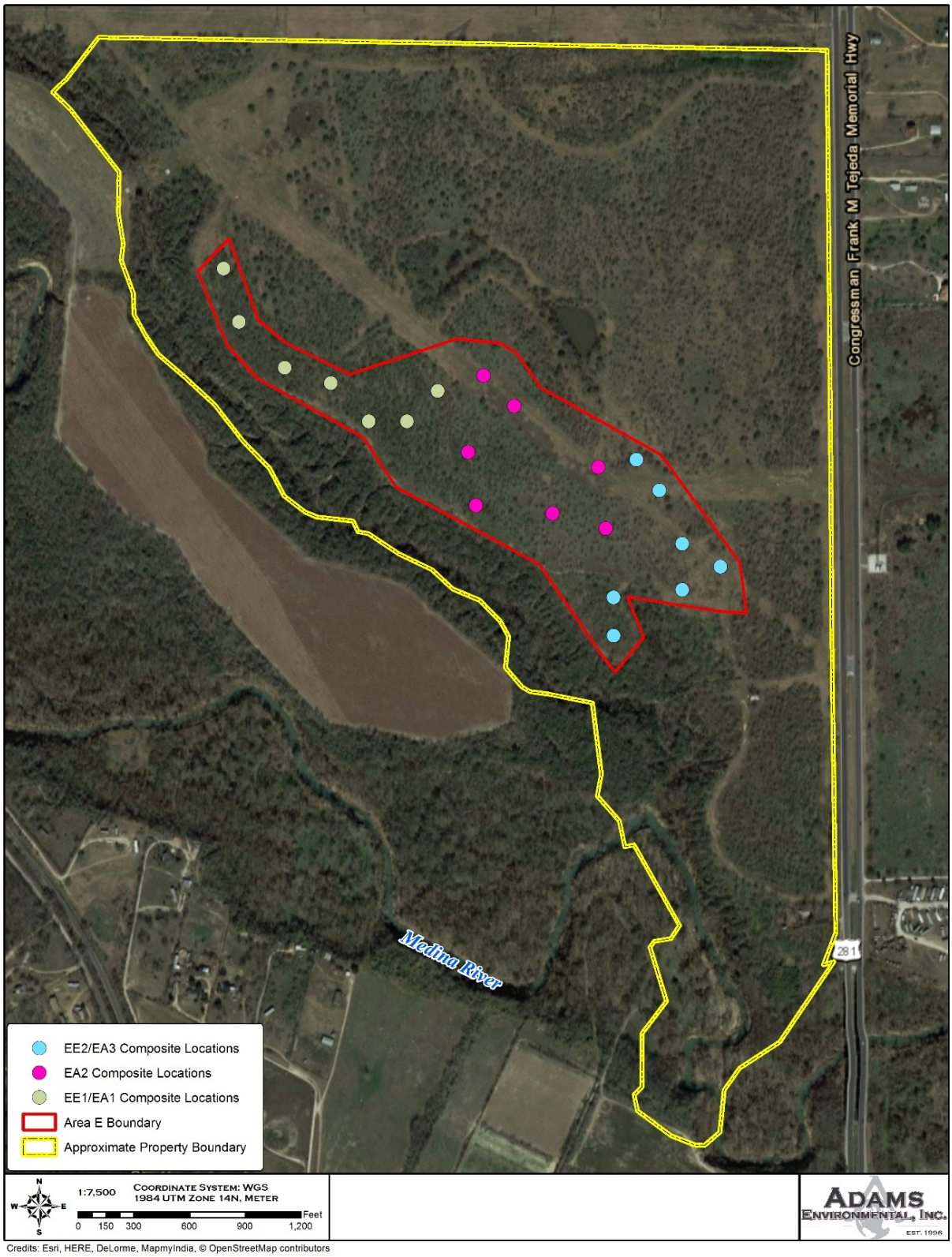

Figure 2. Locations of Area E composite sampling points

Results – Agricultural Constituents (Nitrates, Nitrogen, and Phosphorous)

The following tables summarize the results of the analytical analysis for soil samples collected to characterize select agricultural constituents on the Pilot Wetland and Area E project locations. For a full review of the laboratory analysis of the samples, please see the attached SATL *Laboratory Report*.

Table 1: Agricultural constituents analyzed in soils samples collected at the Pilot Wetland on November 14, 2017. Results presented below correspond to the Pilot Agricultural (PA) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)[2]
Nitrate	EPA 300.0/EPA 300.0	0.10	3.97	130,000
Nitrogen	EPA 3540C/EPA 351.3	1.0	997	--
Phosphorus	EPA 3050B/EPA 6010B	1.0	228	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

Table 2: Agricultural constituents analyzed in soils samples collected at the Area E on November 14, 2017. Results presented below correspond to the Area E Agricultural 1 (EA1) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)[2]
Nitrate	EPA 300.0/EPA 300.0	0.10	2.71	130,000
Nitrogen	EPA 3540C/EPA 351.3	1.0	919	--
Phosphorus	EPA 3050B/EPA 6010B	1.0	627	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

Table 3: Agricultural constituents analyzed in soils samples collected at Area Eon November 14, 2017. Results presented below correspond to the Area E Agricultural 2 (EA2) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)[2]
Nitrate	EPA 300.0/EPA 300.0	0.10	5.04	130,000
Nitrogen	EPA 3540C/EPA 351.3	1.0	779	--
Phosphorus	EPA 3050B/EPA 6010B	1.0	805	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

Table 4: Agricultural constituents analyzed in soils samples collected at the Area E on November 14, 2017. Results presented below correspond to the Area E Agricultural 3 (EA3) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)[2]
Nitrate	EPA 300.0/EPA 300.0	0.10	5.60	130,000
Nitrogen	EPA 3540C/EPA 351.3	1.0	829	--
Phosphorus	EPA 3050B/EPA 6010B	1.0	543	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

Results – RCRA 8 Metals, Chlorinated Pesticide, and Chlorinated Herbicide Constituents

The following tables summarize the results of the analytical analysis for soil samples collected to characterize select environmental (RCRA 8 metals), chlorinated pesticides, and chlorinated herbicide constituents on the Pilot Wetland and Area E project locations**. Due to the large suite of constituents analyzed, only detections are presented in the tables below**. For a full review of the laboratory analysis of the samples, please see the attached SATL *Laboratory Report*.

Table 5: Environmental (RCRA 8 metals), Chlorinated Pesticide, and Chlorinated Herbicide constituents analyzed in soils samples collected at the Pilot Wetland on November 14, 2017. Results presented below correspond to the Pilot Environmental (PE) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	Median Background (mg/kg)[2]	$^{Tot}Soil_{Comb}$[3] (mg/kg)
Arsenic	EPA 3050B/ EPA 6010B	1.0	3.46	5.9	330
Barium	EPA 3050B/ EPA 6010B	1.0	18.9	300	120,000
Chromium	EPA 3050B/ EPA 6010B	1.0	6.73	30	75,000
Lead	EPA 3050B/ EPA 6010B	1.0	8.21	15	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))
3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

Table 6: Environmental (RCRA 8 metals), Chlorinated Pesticide, and Chlorinated Herbicide constituents analyzed in soils samples collected at Area E on November 14, 2017. Results presented below correspond to the Area E Environmental 1 (EE1) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	Median Background (mg/kg)[2]	$^{Tot}Soil_{Comb}$[3] (mg/kg)
Arsenic	EPA 3050B/ EPA 6010B	1.0	3.12	5.9	330
Barium	EPA 3050B/ EPA 6010B	1.0	26.8	300	120,000
Chromium	EPA 3050B/ EPA 6010B	1.0	7.96	30	75,000
Mercury	EPA 7471B/ EPA 7471A	0.04	0.043	0.04	--
Lead	EPA 3050B/ EPA 6010B	1.0	10.2	15	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))
3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

Table 7: Agricultural constituents analyzed in soils samples collected at the Area E on November 14, 2017. Results presented below correspond to the Area E Environmental 2 (EE2) Sample ID.

Constituent	Analysis Method (Prep/Analysis)	PQL[1] (mg/kg)	Result (mg/kg)	Median Background (mg/kg)[2]	$^{Tot}Soil_{Comb}$ (mg/kg)[3]
Arsenic	EPA 3050B/ EPA 6010B	1.0	3.58	5.9	330
Barium	EPA 3050B/ EPA 6010B	1.0	35.1	300	120,000
Chromium	EPA 3050B/ EPA 6010B	1.0	7.83	30	75,000
Lead	EPA 3050B/ EPA 6010B	1.0	10.1	15	--

1. PQL = Practical Quantitation Limit of laboratory test method
2. Texas Specific Soil Background Concentrations (30 TAC 350.51 (m))
3. TRRP Tier 1 Total Soil Combined Protective Concentration Level – 30 Acre Source Area (March 31, 2017)

No chlorinated pesticide or herbicide constituents were detected in any of the submitted samples.

Discussion and Recommendations

The Texas Risk Reduction Program (TRRP) rule (30 TAC Chapter 350), which was adopted in September 1999, established requirements for corrective actions at sites where a release of a chemical of concern (COC) has impacted the environment. The TRRP rules address the investigation of contaminated sites, provide guidance for reporting release of COCs to the Texas Commission on Environmental Quality (TCEQ), and establish appropriate standards for response actions initiated by the discovery of contamination or a COC release. The primary purpose of the TRRP rules is to determine which releases of COCs threaten water resources (either ground or surface water) and which releases require a response action or institutional remedy. In doing so, however, the TRRP rules specifically exclude release determinations for those COCs where materials were applied or used as intended such as the lawful application of agricultural chemicals or pesticides.

Although the historical agricultural uses of the Pilot Wetland and Area E appear exempt from the TRRP release determination standards, the guidance established by the rule is useful in quantifying the threat to human health and safety exhibited by potential use of agricultural chemicals at the sites. To this end, the TRRP rules outline specific protective concentration levels (PCLs) for a wide range of COCs. There are three tiers of human health based PCLs, which are based on receptor and exposure pathways in consideration of the land use classification, groundwater classification, distribution of COCs in impacted media, and presence of potential ecological receptors. Tier 1 PCLs represent the most commonly used PCLs in determining whether or not a cleanup response is warranted. Essentially, the lowest of a number of applicable human health-based PCLs (i.e. ingestion, dermal contact, inhalation, etc.) are compared to the quantity of a given COC detected during laboratory analysis of a media sample (i.e. soil, surface water, groundwater, etc.). If the COC concentration in the media sample exceeds the lowest of the applicable PCLs, a response action in the form of a remediation event or institutional control is generally warranted.

The TRRP PCLs selected for comparison of sample results for the Pilot Wetland and Area E are the $^{Tot}Soil_{Comb}$ (Total Soil Combined) for 30-acre commercial/industrial source areas (*2017 PCL Tables – Table 5 Tier 1 Commercial/Industrial Total Soil Combined PCLs, Last Revised March 31, 2017*). These PCLs represent the surface soil protective concentration level for the combined soil pathways of ingestion, dermal contact, inhalation of volatiles and particulates, and ingestion of aboveground or below ground vegetables. These PCLs were selected based on: 1) the property uses as commercial, non-residential properties, 2) the >0.5-acre source areas of the potential release zones, 3) the absence of any groundwater encountered during the investigation, and 4) the consideration of multiple exposure pathways from COCs in the soil (dermal contact, ingestion, particulates, etc.).

Based on a review of the TRRP Tier 1 PCL tables for 30-acre commercial source areas, none of the detected constituents exceeded the selected PCLs. Furthermore, all detected constituents were below the Texas-Specific Background Concentrations found at 30 TAC 350.51 (m).

If you have any questions or require any additional information, please don't hesitate to contact AEI at (210) 858-6873. We sincerely appreciate the opportunity to work with you on this project and look forward to working with you in the future.

Sincerely,

Brian A. Gottschalk
Senior Environmental Scientist

Lynn M. Kitchen, Ph.D.
Principal Scientist

Attachments

SAN ANTONIO TESTING LABORATORY

December 04, 2017

Brian Gottschalk
Adams Environmental, Inc
12018 Las Nubes Street
San Antonio, TX 78233

SATL Report No.: 1711205
RE: Mitchell Lake Wetlands

Dear Brian Gottschalk

SATL received 7 Sample(s) on 11/14/2017 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

There were no problems in the sample analyses unless otherwise noted. Sample data and associated QC are presented in the attached laboratory report. QC sample data were within laboratory acceptance limits except where noted on the report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Richard Hawk,
General Manager

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

SAMPLE SUMMARY

Total Samples received in this work order: 7

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
PE, Pilot Environmental	1711205-01	Solid	Composite	11/14/17 10:15	11/14/17 15:54
PA, Pilot Agricultural	1711205-02	Solid	Composite	11/14/17 10:15	11/14/17 15:54
EE1, Area E Environmental 1	1711205-03	Solid	Composite	11/14/17 13:55	11/14/17 15:54
EE2, Area E Environmental 2	1711205-04	Solid	Composite	11/14/17 15:05	11/14/17 15:54
EA1, Area E Agricultural 1	1711205-05	Solid	Composite	11/14/17 13:55	11/14/17 15:54
EA2, Area E Agricultural 2	1711205-06	Solid	Composite	11/14/17 14:35	11/14/17 15:54
EA3, Area E Agricultural 3	1711205-07	Solid	Composite	11/14/17 15:05	11/14/17 15:54

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: PE, Pilot Environmental **Sampling Method: Composite** **Lab Sample ID #: 1711205-01**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 10:15**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	92.9	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Metals										
Arsenic *	3.46	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Barium *	18.9	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Cadmium *	<0.500	mg/kg dry	0.500		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Chromium *	6.73	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Mercury *	<0.040	mg/kg dry	0.040		EPA 7471B	B746086	11/16/17 15:02	EPA 7471A	XE	
Lead *	8.21	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Selenium *	<1.00	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Silver *	<0.450	mg/kg dry	0.450		EPA 3050B	B746085	11/20/17 22:09	EPA 6010B	XE	
Chlorinated Pesticides by GC/ECD										
alpha-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
gamma-BHC (Lindane) *	<0.002	mg/kg	0.002	8	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
beta-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
delta-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Heptachlor *	<0.002	mg/kg	0.002	0.16	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Aldrin *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Heptachlor Epoxide *	<0.002	mg/kg	0.002	0.16	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
gamma-Chlordane *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
alpha-Chlordane *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Endosulfan I *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
4,4´-DDE *	<0.005	mg/kg	0.005		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Dieldrin *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Endrin *	<0.002	mg/kg	0.002	0.4	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
4,4´-DDD *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Endosulfan II *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
4,4´-DDT *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Endrin Aldehyde *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Endosulfan Sulfate *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Methoxychlor *	<0.002	mg/kg	0.002	200	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Endrin Ketone *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Toxaphene *	<0.05	mg/kg	0.05	10	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Chlordane *	<0.05	mg/kg	0.05	0.6	EPA 3550B	B746092	11/21/17 14:49	EPA 8081A	REB	
Surrogate: Decachlorobiphenyl	*72 %*	*14.8-141*			*EPA 3550B*	*B746092*	*11/21/17 14:49*	*EPA 8081A*	*REB*	

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: PA, Pilot Agricultural **Sampling Method: Composite** **Lab Sample ID #: 1711205-02**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 10:15**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	88.5	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Kjeldahl Nitrogen	997	mg/kg	1.00			B749006	12/04/17 13:25	EPA 351.3	PLP	
Anions by Ion Chromatography										
Nitrate as N *	3.97	mg/kg	0.10		EPA 300.0	B746124	11/17/17 13:24	EPA 300.0	JL	
Total Metals										
Phosphorus *	228	mg/kg dry	1.00		EPA 3050B	B746085	11/16/17 15:03	EPA 6010B	XE	

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: EE1, Area E Environmental 1 **Sampling Method: Composite** **Lab Sample ID #: 1711205-03**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 13:55**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	90.6	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Metals										
Arsenic *	3.12	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Barium *	26.8	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Cadmium *	<0.500	mg/kg dry	0.500		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Chromium *	7.96	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Mercury *	0.043	mg/kg dry	0.040		EPA 7471B	B746086	11/16/17 15:08	EPA 7471A	XE	
Lead *	10.2	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Selenium *	<1.00	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Silver *	<0.450	mg/kg dry	0.450		EPA 3050B	B746085	11/20/17 22:14	EPA 6010B	XE	
Chlorinated Pesticides by GC/ECD										
alpha-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
gamma-BHC (Lindane) *	<0.002	mg/kg	0.002	8	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
beta-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
delta-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Heptachlor *	<0.002	mg/kg	0.002	0.16	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Aldrin *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Heptachlor Epoxide *	<0.002	mg/kg	0.002	0.16	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
gamma-Chlordane *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
alpha-Chlordane *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Endosulfan I *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
4,4´-DDE *	<0.005	mg/kg	0.005		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Dieldrin *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Endrin *	<0.002	mg/kg	0.002	0.4	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
4,4´-DDD *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Endosulfan II *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
4,4´-DDT *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Endrin Aldehyde *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Endosulfan Sulfate *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Methoxychlor *	<0.002	mg/kg	0.002	200	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Endrin Ketone *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Toxaphene *	<0.05	mg/kg	0.05	10	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Chlordane *	<0.05	mg/kg	0.05	0.6	EPA 3550B	B746092	11/21/17 15:04	EPA 8081A	REB	
Surrogate: Decachlorobiphenyl		*89 %*	*14.8-141*		*EPA 3550B*	*B746092*	*11/21/17 15:04*	*EPA 8081A*	*REB*	

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: EE2, Area E Environmental 2 **Sampling Method: Composite** **Lab Sample ID #: 1711205-04**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 15:05**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	90.2	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Metals										
Arsenic *	3.58	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Barium *	35.1	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Cadmium *	<0.500	mg/kg dry	0.500		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Chromium *	7.83	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Mercury *	<0.040	mg/kg dry	0.040		EPA 7471B	B746086	11/16/17 15:10	EPA 7471A	XE	
Lead *	10.1	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Selenium *	<1.00	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Silver *	<0.450	mg/kg dry	0.450		EPA 3050B	B746085	11/20/17 22:20	EPA 6010B	XE	
Chlorinated Pesticides by GC/ECD										
alpha-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
gamma-BHC (Lindane) *	<0.002	mg/kg	0.002	8	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
beta-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
delta-BHC *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Heptachlor *	<0.002	mg/kg	0.002	0.16	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Aldrin *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Heptachlor Epoxide *	<0.002	mg/kg	0.002	0.16	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
gamma-Chlordane *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
alpha-Chlordane *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Endosulfan I *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
4,4´-DDE *	<0.005	mg/kg	0.005		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Dieldrin *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Endrin *	<0.002	mg/kg	0.002	0.4	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
4,4´-DDD *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Endosulfan II *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
4,4´-DDT *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Endrin Aldehyde *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Endosulfan Sulfate *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Methoxychlor *	<0.002	mg/kg	0.002	200	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Endrin Ketone *	<0.002	mg/kg	0.002		EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Toxaphene *	<0.05	mg/kg	0.05	10	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Chlordane *	<0.05	mg/kg	0.05	0.6	EPA 3550B	B746092	11/21/17 15:19	EPA 8081A	REB	
Surrogate: Decachlorobiphenyl	*97 %*		*14.8-141*		*EPA 3550B*	*B746092*	*11/21/17 15:19*	*EPA 8081A*	*REB*	

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
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Reported:
12/04/17 15:51
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11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: EA1, Area E Agricultural 1 **Sampling Method: Composite** **Lab Sample ID #: 1711205-05**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 13:55**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	91.1	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Kjeldahl Nitrogen	919	mg/kg	1.00			B749006	12/04/17 13:25	EPA 351.3	PLP	
Anions by Ion Chromatography										
Nitrate as N *	2.71	mg/kg	0.10		EPA 300.0	B746124	11/17/17 13:59	EPA 300.0	JL	
Total Metals										
Phosphorus *	627	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:26	EPA 6010B	XE	

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Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: EA2, Area E Agricultural 2 **Sampling Method: Composite** **Lab Sample ID #: 1711205-06**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 14:35**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	88.5	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Kjeldahl Nitrogen	779	mg/kg	1.00			B749006	12/04/17 13:25	EPA 351.3	PLP	
Anions by Ion Chromatography										
Nitrate as N *	5.04	mg/kg	0.10		EPA 300.0	B746124	11/17/17 14:16	EPA 300.0	JL	
Total Metals										
Phosphorus *	805	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:32	EPA 6010B	XE	

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San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Sample ID #: EA3, Area E Agricultural 3 **Sampling Method: Composite** **Lab Sample ID #: 1711205-07**

Sample Matrix: Solid **Date/Time Collected: 11/14/17 15:05**

Analyte	Result	Units	PQL	RMCCL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry										
% Solids	90.0	% by Wt.	1.00		EPA 3540C	B746088	11/16/17 00:00	EPA 3540C	XE	
Total Kjeldahl Nitrogen	829	mg/kg	1.00			B749006	12/04/17 13:25	EPA 351.3	PLP	
Anions by Ion Chromatography										
Nitrate as N *	5.60	mg/kg	0.10		EPA 300.0	B746124	11/17/17 14:34	EPA 300.0	JL	
Total Metals										
Phosphorus *	543	mg/kg dry	1.00		EPA 3050B	B746085	11/20/17 22:38	EPA 6010B	XE	

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11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B749006 - NO PREP									
Blank (B749006-BLK1)				Prepared: 12/04/17 08:42 Analyzed: 12/04/17 13:25					
Total Kjeldahl Nitrogen	<1.00	1.00	mg/kg						
LCS (B749006-BS1)				Prepared: 12/04/17 08:42 Analyzed: 12/04/17 13:25					
Total Kjeldahl Nitrogen	196	1.00	mg/kg	200		98	80-120		
LCS Dup (B749006-BSD1)				Prepared: 12/04/17 08:42 Analyzed: 12/04/17 13:25					
Total Kjeldahl Nitrogen	196	1.00	mg/kg	200		98	80-120	0	20
Duplicate (B749006-DUP1)		**Source: 1711205-02**		Prepared: 12/04/17 08:42 Analyzed: 12/04/17 13:25					
Total Kjeldahl Nitrogen	986	1.00	mg/kg		997			1	20

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B746124 - EPA 300.0									
Blank (B746124-BLK1)				Prepared: 11/17/17 10:45 Analyzed: 11/17/17 10:48					
Nitrate as N	<0.10	0.10	mg/kg						
LCS (B746124-BS1)				Prepared: 11/17/17 10:45 Analyzed: 11/17/17 11:06					
Nitrate as N	49.8	0.10	mg/kg	50.0		100	90-110		
LCS Dup (B746124-BSD1)				Prepared: 11/17/17 10:45 Analyzed: 11/17/17 11:23					
Nitrate as N	49.9	0.10	mg/kg	50.0		100	90-110	0.07	30
Duplicate (B746124-DUP1)		**Source: 1711205-07**		Prepared: 11/17/17 10:45 Analyzed: 11/17/17 15:26					
Nitrate as N	5.69	0.10	mg/kg		5.60			2	20
Matrix Spike (B746124-MS1)		**Source: 1711205-07**		Prepared: 11/17/17 10:45 Analyzed: 11/17/17 15:43					
Nitrate as N	60.0	0.10	mg/kg	50.0	5.60	109	90-110		

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
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Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
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11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B746085 - EPA 3050B										
Blank (B746085-BLK1)				Prepared: 11/16/17 09:43 Analyzed: 11/16/17 14:46						
Arsenic	<1.00	1.00	mg/kg wet							
Barium	<1.00	1.00	mg/kg wet							
Cadmium	<0.500	0.500	mg/kg wet							
Chromium	<1.00	1.00	mg/kg wet							
Lead	<1.00	1.00	mg/kg wet							
Phosphorus	<1.00	1.00	mg/kg wet							
Selenium	<1.00	1.00	mg/kg wet							
Silver	<0.450	0.450	mg/kg wet							
LCS (B746085-BS1)				Prepared: 11/16/17 09:43 Analyzed: 11/16/17 14:52						
Arsenic	105	1.00	mg/kg wet	100		105	80-120			
Barium	90.6	1.00	mg/kg wet	100		91	80-120			
Cadmium	104	0.500	mg/kg wet	100		104	80-120			
Chromium	105	1.00	mg/kg wet	100		105	80-120			
Lead	105	1.00	mg/kg wet	100		105	80-120			
Phosphorus	106	1.00	mg/kg wet	100		106	80-120			
Selenium	102	1.00	mg/kg wet	100		102	80-120			
Silver	52.8	0.450	mg/kg wet	50.0		106	80-120			
LCS Dup (B746085-BSD1)				Prepared: 11/16/17 09:43 Analyzed: 11/16/17 14:58						
Arsenic	108	1.00	mg/kg wet	100		108	80-120	3	30	
Barium	93.6	1.00	mg/kg wet	100		94	80-120	3	30	
Cadmium	107	0.500	mg/kg wet	100		107	80-120	3	30	
Chromium	109	1.00	mg/kg wet	100		109	80-120	4	30	
Lead	108	1.00	mg/kg wet	100		108	80-120	3	30	
Phosphorus	109	1.00	mg/kg wet	100		109	80-120	3	20	
Selenium	106	1.00	mg/kg wet	100		106	80-120	3	30	
Silver	54.4	0.450	mg/kg wet	50.0		109	80-120	3	30	
Matrix Spike (B746085-MS1)		**Source: 1711205-02**		Prepared: 11/16/17 09:43 Analyzed: 11/16/17 15:09						
Arsenic	78.7	1.00	mg/kg dry	111	3.11	68	75-125			M
Barium	109	1.00	mg/kg dry	111	28.8	72	75-125			M
Cadmium	76.7	0.500	mg/kg dry	111	0.120	69	75-125			M
Chromium	90.3	1.00	mg/kg dry	111	8.47	74	75-125			M
Lead	111	1.00	mg/kg dry	111	11.3	90	75-125			
Phosphorus	311	1.00	mg/kg dry	111	228	74	75-125			M
Selenium	70.0	1.00	mg/kg dry	111	<1.00	63	75-125			M
Silver	38.4	0.450	mg/kg dry	55.5	<0.450	69	75-125			M

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Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B746085 - EPA 3050B										
Matrix Spike Dup (B746085-MSD1)		**Source: 1711205-02**		Prepared: 11/16/17 09:43		Analyzed: 11/16/17 15:15				
Arsenic	75.0	1.00	mg/kg dry	112	3.11	64	75-125	5	30	M
Barium	108	1.00	mg/kg dry	112	28.8	70	75-125	1	30	M
Cadmium	73.7	0.500	mg/kg dry	112	0.120	65	75-125	4	30	M
Chromium	87.1	1.00	mg/kg dry	112	8.47	70	75-125	4	30	M
Lead	105	1.00	mg/kg dry	112	11.3	83	75-125	6	30	
Phosphorus	292	1.00	mg/kg dry	112	228	57	75-125	6	20	M
Selenium	65.6	1.00	mg/kg dry	112	<1.00	58	75-125	6	30	M
Silver	37.0	0.450	mg/kg dry	56.2	<0.450	66	75-125	4	30	M
Batch B746086 - EPA 7471B										
Blank (B746086-BLK1)				Prepared: 11/16/17 11:45		Analyzed: 11/16/17 14:56				
Mercury	<0.040	0.040	mg/kg wet							
LCS (B746086-BS1)				Prepared: 11/16/17 11:45		Analyzed: 11/16/17 14:58				
Mercury	0.839	0.040	mg/kg wet	0.833		101	85-115			
LCS Dup (B746086-BSD1)				Prepared: 11/16/17 11:45		Analyzed: 11/16/17 15:00				
Mercury	0.826	0.040	mg/kg wet	0.833		99	85-115	2	25	
Matrix Spike (B746086-MS1)		**Source: 1711205-01**		Prepared: 11/16/17 11:45		Analyzed: 11/16/17 15:04				
Mercury	1.08	0.040	mg/kg dry	0.906	0.0102	118	75-125			
Matrix Spike Dup (B746086-MSD1)		**Source: 1711205-01**		Prepared: 11/16/17 11:45		Analyzed: 11/16/17 15:06				
Mercury	0.979	0.040	mg/kg dry	0.836	0.0102	116	75-125	9	25	

Chlorinated Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B746092 - EPA 3550B									
Blank (B746092-BLK1)				Prepared: 11/16/17 09:00		Analyzed: 11/21/17 12:35			
alpha-BHC	<0.002	0.002	mg/kg						
gamma-BHC (Lindane)	<0.002	0.002	mg/kg						
beta-BHC	<0.002	0.002	mg/kg						
delta-BHC	<0.002	0.002	mg/kg						
Heptachlor	<0.002	0.002	mg/kg						

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Additional Notes:
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Report No. 1711205

Chlorinated Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B746092 - EPA 3550B									
Blank (B746092-BLK1)				Prepared: 11/16/17 09:00 Analyzed: 11/21/17 12:35					
Aldrin	<0.002	0.002	mg/kg						
Heptachlor Epoxide	<0.002	0.002	mg/kg						
gamma-Chlordane	<0.002	0.002	mg/kg						
alpha-Chlordane	<0.002	0.002	mg/kg						
Endosulfan I	<0.002	0.002	mg/kg						
4,4´-DDE	<0.005	0.005	mg/kg						
Dieldrin	<0.002	0.002	mg/kg						
Endrin	<0.002	0.002	mg/kg						
4,4´-DDD	<0.002	0.002	mg/kg						
Endosulfan II	<0.002	0.002	mg/kg						
4,4´-DDT	<0.002	0.002	mg/kg						
Endrin Aldehyde	<0.002	0.002	mg/kg						
Endosulfan Sulfate	<0.002	0.002	mg/kg						
Methoxychlor	<0.002	0.002	mg/kg						
Endrin Ketone	<0.002	0.002	mg/kg						
Toxaphene	<0.05	0.05	mg/kg						
Chlordane	<0.05	0.05	mg/kg						
Surrogate: Decachlorobiphenyl	*0.0274*		*mg/kg*	*0.0333*		*82*	*14.8-141*		
LCS (B746092-BS1)				Prepared: 11/16/17 09:00 Analyzed: 11/21/17 20:48					
alpha-BHC	0.0247	0.002	mg/kg	0.0333		74	52.5-127		
gamma-BHC (Lindane)	0.0246	0.002	mg/kg	0.0333		74	53.3-139		
beta-BHC	0.0273	0.002	mg/kg	0.0333		82	52.7-132		
delta-BHC	0.0259	0.002	mg/kg	0.0333		78	50.6-139		
Heptachlor	0.0241	0.002	mg/kg	0.0333		72	44.5-148		
Aldrin	0.0232	0.002	mg/kg	0.0333		69	56.3-129		
Heptachlor Epoxide	0.0252	0.002	mg/kg	0.0333		76	58.9-129		
gamma-Chlordane	0.0256	0.002	mg/kg	0.0333		77	59.6-125		
alpha-Chlordane	0.0265	0.002	mg/kg	0.0333		79	57.7-130		
Endosulfan I	0.0250	0.002	mg/kg	0.0333		75	59-122		
4,4´-DDE	0.0254	0.005	mg/kg	0.0333		76	60.8-130		
Dieldrin	0.0245	0.002	mg/kg	0.0333		74	55.2-136		
Endrin	0.0304	0.002	mg/kg	0.0333		91	67.9-149		
4,4´-DDD	0.0305	0.002	mg/kg	0.0333		91	58.2-137		
Endosulfan II	0.0237	0.002	mg/kg	0.0333		71	57.6-133		
4,4´-DDT	0.0306	0.002	mg/kg	0.0333		92	55.6-135		
Endrin Aldehyde	0.0284	0.002	mg/kg	0.0333		85	50-138		

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Chlorinated Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B746092 - EPA 3550B										
LCS (B746092-BS1)				Prepared: 11/16/17 09:00		Analyzed: 11/21/17 20:48				
Endosulfan Sulfate	0.0293	0.002	mg/kg	0.0333		88	55.9-156			
Methoxychlor	0.0373	0.002	mg/kg	0.0333		112	50.9-171			
Endrin Ketone	0.0317	0.002	mg/kg	0.0333		95	48.7-153			
Toxaphene	<0.05	0.05	mg/kg				40-160			
Chlordane	<0.05	0.05	mg/kg				60-140			
Surrogate: Decachlorobiphenyl	*0.0305*		*mg/kg*	*0.0333*		*91*	*44-153*			
LCS Dup (B746092-BSD1)				Prepared: 11/16/17 09:00		Analyzed: 11/21/17 21:03				
alpha-BHC	0.0273	0.002	mg/kg	0.0333		82	52.5-127	10	17.2	
gamma-BHC (Lindane)	0.0275	0.002	mg/kg	0.0333		83	53.3-139	11	16	
beta-BHC	0.0297	0.002	mg/kg	0.0333		89	52.7-132	9	9.22	
delta-BHC	0.0281	0.002	mg/kg	0.0333		84	50.6-139	8	8.76	
Heptachlor	0.0263	0.002	mg/kg	0.0333		79	44.5-148	9	8.25	S
Aldrin	0.0247	0.002	mg/kg	0.0333		74	56.3-129	6	9.34	
Heptachlor Epoxide	0.0267	0.002	mg/kg	0.0333		80	58.9-129	6	10.7	
gamma-Chlordane	0.0267	0.002	mg/kg	0.0333		80	59.6-125	4	10.6	
alpha-Chlordane	0.0275	0.002	mg/kg	0.0333		83	57.7-130	4	9.89	
Endosulfan I	0.0259	0.002	mg/kg	0.0333		78	59-122	4	13.7	
4,4´-DDE	0.0258	0.005	mg/kg	0.0333		77	60.8-130	2	20.8	
Dieldrin	0.0250	0.002	mg/kg	0.0333		75	55.2-136	2	7.76	
Endrin	0.0304	0.002	mg/kg	0.0333		91	67.9-149	0.09	8.34	
4,4´-DDD	0.0302	0.002	mg/kg	0.0333		91	58.2-137	0.8	8.96	
Endosulfan II	0.0259	0.002	mg/kg	0.0333		78	57.6-133	9	8.38	S
4,4´-DDT	0.0302	0.002	mg/kg	0.0333		90	55.6-135	2	7.5	
Endrin Aldehyde	0.0272	0.002	mg/kg	0.0333		82	50-138	4	8.96	
Endosulfan Sulfate	0.0285	0.002	mg/kg	0.0333		85	55.9-156	3	19.5	
Methoxychlor	0.0336	0.002	mg/kg	0.0333		101	50.9-171	10	10.2	S
Endrin Ketone	0.0308	0.002	mg/kg	0.0333		93	48.7-153	3	8.18	
Toxaphene	<0.05	0.05	mg/kg				40-160		50	
Chlordane	<0.05	0.05	mg/kg				60-140		200	
Surrogate: Decachlorobiphenyl	*0.0326*		*mg/kg*	*0.0333*		*98*	*44-153*			
Matrix Spike (B746092-MS1)		**Source: 1711118-02**		Prepared: 11/16/17 09:00		Analyzed: 11/21/17 14:19				
alpha-BHC	0.0236	0.002	mg/kg	0.0333	<0.002	71	35-114			
gamma-BHC (Lindane)	0.0241	0.002	mg/kg	0.0333	<0.002	72	35.6-125			
beta-BHC	0.0228	0.002	mg/kg	0.0333	<0.002	68	37.1-119			
delta-BHC	0.0251	0.002	mg/kg	0.0333	<0.002	75	36.2-127			

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Chlorinated Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B746092 - EPA 3550B									
Matrix Spike (B746092-MS1)		**Source: 1711118-02**		Prepared: 11/16/17 09:00		Analyzed: 11/21/17 14:19			
Heptachlor	0.0236	0.002	mg/kg	0.0333	<0.002	71	30.1-132		
Aldrin	0.0246	0.002	mg/kg	0.0333	<0.002	74	32-124		
Heptachlor Epoxide	0.0249	0.002	mg/kg	0.0333	<0.002	75	37.4-128		
gamma-Chlordane	0.0274	0.002	mg/kg	0.0333	<0.002	82	45.3-106		
alpha-Chlordane	0.0274	0.002	mg/kg	0.0333	<0.002	82	38.2-116		
Endosulfan I	0.0249	0.002	mg/kg	0.0333	<0.002	75	20.8-135		
4,4´-DDE	0.0258	0.005	mg/kg	0.0333	<0.005	78	37-121		
Dieldrin	0.0241	0.002	mg/kg	0.0333	<0.002	72	36.1-128		
Endrin	0.0312	0.002	mg/kg	0.0333	<0.002	94	39.9-156		
4,4´-DDD	0.0328	0.002	mg/kg	0.0333	<0.002	98	16.7-155		
Endosulfan II	0.0266	0.002	mg/kg	0.0333	<0.002	80	28.5-128		
4,4´-DDT	0.0320	0.002	mg/kg	0.0333	<0.002	96	12.3-149		
Endrin Aldehyde	0.0385	0.002	mg/kg	0.0333	<0.002	115	31.4-140		
Endosulfan Sulfate	0.0304	0.002	mg/kg	0.0333	<0.002	91	37-142		
Methoxychlor	0.0382	0.002	mg/kg	0.0333	<0.002	115	24.4-167		
Endrin Ketone	0.0331	0.002	mg/kg	0.0333	<0.002	99	32.7-135		
Surrogate: Decachlorobiphenyl	*0.0383*		*mg/kg*	*0.0333*		*115*	*14.8-141*		
Matrix Spike Dup (B746092-MSD1)		**Source: 1711118-02**		Prepared: 11/16/17 09:00		Analyzed: 11/21/17 14:34			
alpha-BHC	0.0210	0.002	mg/kg	0.0333	<0.002	63	35-114	12	38.7
gamma-BHC (Lindane)	0.0210	0.002	mg/kg	0.0333	<0.002	63	35.6-125	14	44
beta-BHC	0.0238	0.002	mg/kg	0.0333	<0.002	71	37.1-119	4	38.6
delta-BHC	0.0220	0.002	mg/kg	0.0333	<0.002	66	36.2-127	13	51.2
Heptachlor	0.0209	0.002	mg/kg	0.0333	<0.002	63	30.1-132	12	43
Aldrin	0.0202	0.002	mg/kg	0.0333	<0.002	60	32-124	20	49.5
Heptachlor Epoxide	0.0215	0.002	mg/kg	0.0333	<0.002	65	37.4-128	15	39.9
gamma-Chlordane	0.0214	0.002	mg/kg	0.0333	<0.002	64	45.3-106	25	52.3
alpha-Chlordane	0.0221	0.002	mg/kg	0.0333	<0.002	66	38.2-116	21	38.1
Endosulfan I	0.0207	0.002	mg/kg	0.0333	<0.002	62	20.8-135	18	51.8
4,4´-DDE	0.0215	0.005	mg/kg	0.0333	<0.005	64	37-121	18	53.2
Dieldrin	0.0203	0.002	mg/kg	0.0333	<0.002	61	36.1-128	17	42.1
Endrin	0.0242	0.002	mg/kg	0.0333	<0.002	73	39.9-156	25	39
4,4´-DDD	0.0257	0.002	mg/kg	0.0333	<0.002	77	16.7-155	24	44.6
Endosulfan II	0.0213	0.002	mg/kg	0.0333	<0.002	64	28.5-128	22	34
4,4´-DDT	0.0250	0.002	mg/kg	0.0333	<0.002	75	12.3-149	24	58.7
Endrin Aldehyde	0.0306	0.002	mg/kg	0.0333	<0.002	92	31.4-140	23	36.9
Endosulfan Sulfate	0.0242	0.002	mg/kg	0.0333	<0.002	72	37-142	23	45.2

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Chlorinated Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B746092 - EPA 3550B									
Matrix Spike Dup (B746092-MSD1)		**Source: 1711118-02**		Prepared: 11/16/17 09:00		Analyzed: 11/21/17 14:34			
Methoxychlor	0.0291	0.002	mg/kg	0.0333	<0.002	87	24.4-167	27	69.4
Endrin Ketone	0.0251	0.002	mg/kg	0.0333	<0.002	75	32.7-135	27	44
Surrogate: Decachlorobiphenyl	*0.0276*		*mg/kg*	*0.0333*		*83*	*14.8-141*		

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is outside QC limits due to matrix interferences.
Surr H	Surrogate recovery is high due to contribution from hydrocarbon interferences.
µR/hr	MicroRoentgens per hour (Measure of Radioactivity Level)
HT	Sample received past holdtime
IC	Improper Container
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits. This may be due to possible matrix interferences in Matrix spike samples.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 21st Edition 2005
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

NELAC Cert. No.: **T104704360-17-17**

Adams Environmental, Inc
12018 Las Nubes Street
San Antonio TX, 78233

Project: Mitchell Lake Wetlands

Project Number: [none]
Project Manager: Brian Gottschalk

Reported:
12/04/17 15:51
Received:
11/14/17 15:54

Additional Notes:
Client requested TKN on samples 2, 5, 6, and 7. 12/1/17

Report No. 1711205

Subcontracted Analyses

Subcontractor Lab	Lab Number	Analysis
ALS Environmental	1711205-01	Herbicides
ALS Environmental	1711205-03	Herbicides
ALS Environmental	1711205-04	Herbicides

Aimee Landon For Marcela Gracia Hawk, President For

Richard Hawk, General Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC
1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

	REPORT TO:	INVOICE TO:	P.O. #
COMPANY	Adams Environmental, Inc.	Same	REPORT NUMBER 171205
ADDRESS	12018 Las Nubes St ~~78233~~	Same	
CITY / STATE / ZIP	San Antonio, TX 78233	Same	FAX # 210-587-7922
ATTN / PHONE #	Brian Gottschalk 210-858-6373	Sable Kitchen, PHONE # Same	E-MAIL

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☑ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: Mitchell Lake Wetlands

PROJECT NO.:

SAMPLED BY: B. Gottschalk

TRRP 13 ☐ YES ☒ NO LPST PCLS ☐

HARDCOPY ☐ YES ☒ NO / FOR STATE COMPLIANCE ☐ YES ☒ NO

COMMENTS/SPECIAL REQUESTS: bgottschalk@adamsenv.com

TEMP. I.R. GUN # 6 SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☑ YES ☐ NO INITIAL TO AUTHORIZE BULK ANALYSIS

PROPER CONTAINERS ☑ YES ☐ NO IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS

TEMP. ON RECPT. 4.9°C COND. OF SAMPLE Ice

ANALYSIS REQUESTED

SAMPLE NUMBER	DATE	TIME	MATRIX	SAMPLING METHOD	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	Metals 8 (RCRA 8)	Total Nitrates	Total Phosphorous	Pesticides (EPA 608/8081A)	Herbicides (EPA 8151A)	HOLD
PE	11-1-17	10:15	Solid	Composite	Pilot Environmental	2	8oz	4oz	X			X	X	X (struck)
PA	"	10:15	Solid	Composite	Pilot Agricultural	2				X	X			X (struck)
EE1	"	1:55P	Solid	Composite	Area E Environmental 1	2			X			X	X	X (struck)
EE2	"	3:05P	Solid	Composite	" " " 2	2			X			X	X	X (struck)
EA1	"	1:55P	Solid	Composite	Area E Agricultural 1	2				X	X			X (struck)
EA2	"	2:35P	Solid	Composite	" " " 2	2				X	X			X (struck)
EA3	"	3:05P	Solid	Composite	" " " 3	2				X	X			X (struck)

Other analysis columns (no entries): BTEX / MTBE (8260); TPH (TX1005 / TX1006); PAH / SVOC / (8270 / 625 / TCLP / SPLP) / Total; VOC / (8260 / 624 / TCLP / SPLP) / Total; Water Quality - Drinking / Livestock / Irrigation; Coli / TC / FC / HPC / EColi / Enterococci. PRESERVED WITH: HCL, HNO3, H2SO4, NAOH, ZN, OTHER, PRESERVED IN THE LAB, COMPOSITED IN THE LAB, FILTERED IN THE LAB, FILTERED IN THE FIELD. REMARKS.

NOV 14 2017 1554

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)
[signature]	11-14-17 @ 3:57pm	[signature]			
RELINQUISHED BY (PRINT NAME): Brian Gottschalk		RECEIVED BY (PRINT NAME): Aimee Landon	RELINQUISHED BY (PRINT NAME)		RECEIVED BY (PRINT NAME)
RELINQUISHED BY (SIGNATURE)		RECEIVED BY (SIGNATURE)	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☒ YES ☐ NO MicroBac
RELINQUISHED BY (PRINT NAME)		RECEIVED BY (PRINT NAME)	SAMPLED IN 5035 CONTAINERS ☐ YES ☒ NO ☐ N/A		CUSTODY SEAL IN PLACE & INTACT ☒ YES ☐ NO

FORM: COC REV 01/16 WHITE - LAB CANARY - CLIENT

SAN ANTONIO TESTING LABORATORY, INC.

Sample Receipt Checklist

Client: Adams Env. Report Number: 1711205

Project Name: Date Received: 11/14/17

Shipped via: ☐FedEx ☐UPS ☐Lonestar ☑Hand Delivered ☐DHL ☐SATL ☐Other Date Due: 11/27/17

Rush: ☐ Specify: ☐3-5 ☐2 ☐1

Items to be checked upon Receipt: [Yes, No, N/A]

1. Custody Seals present?	Yes		No	✓		NA		If NA–reason:	
2. Custody Seals intact?	Yes		No	✓		NA		If NA–reason:	
3. Air Bill included in folder, if received?	Yes		No			NA	✓	If NA–reason:	
4. Is COC included with samples?	Yes	✓	No			NA		If NA–reason:	
5. Is COC signed and dated by client?	Yes	✓	No			NA		If NA–reason:	
6. Sample temperature: Thermal preservation between >0° - 6° C? (Samples that are delivered to the laboratory on the same day that they are collected may not meet this criterion, but are acceptable if they arrive on ice.)	Yes	✓	No			NA		Temp: 4.9 °C	
7. Samples received with ice ☑ ice packs ☐ other cooling ☐	Yes	✓	No			NA		If NA–reason:	
8. Is the COC filled out correctly, and completely?	Yes	✓	No			NA		If NA–reason:	
9. Information on the COC matches the samples?	Yes	✓	No			NA		If NA–reason:	
10. Samples received within holding time?	Yes	✓	No			NA		If NA–reason:	
11. Samples properly labeled?	Yes	✓	No			NA		If NA–reason:	
12. Samples submitted with chemical preservation? (e.g. pH adjusted, or sodium thiosulfate added for microbiological tests)	Yes		No			NA	✓	If NA–reason:	Solid
13. Proper sample containers used?	Yes	✓	No			NA		If NA–reason:	
14. All samples received intact, containers not damaged or leaking?	Yes	✓	No			NA		If NA–reason:	
15. VOA vials (requesting BTEX/VOC analysis) received with no air bubbles? Bubbles acceptable on VOA vials for TPH.	Yes		No			NA	✓	If NA–reason:	no VOA vials
16. Sample volume sufficient for requested analysis?	Yes	✓	No			NA		If NA–reason:	
17. Sample amount sufficient for TCLP analysis?	Yes	✓	No			N/A		If NA- reason	
18. Subcontracted Samples: [if Yes, complete the next section]	Yes	✓	No			NA		If NA–reason:	

Analyses Subcontracted Out: Herb No. of Samples 1

Samples sent to: Microbac Sent By: SL

Date samples sent: 11/15/17 Samples shipped via: UPS

TAT Requested:

Tracking number [if any]:

Comments:

Received By: SL Date: 11/14/17

Labeled By: Date:

Logged into LIMS By: Date:

Logged into RF By: Date:

1610 S. Laredo Street, San Antonio, Texas 78207-7029 • (210) 229-9920 • Fax (210) 229-9921

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

November 29, 2017

Sairum Abburu
San Antonio Testing Laboratory, Inc.
1610 S. Laredo St.

San Antonio, TX 78207

Work Order: **HS17111021**

Revision: **1**

Laboratory Results for: **Herbicicdes 8151**

Dear Sairum,

ALS Environmental received 3 sample(s) on Nov 16, 2017 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: Jumoke.Lawal

Nicole Brown
Senior Project Manager

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
Work Order: HS17111021

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17111021-01	1711205-01 (PE Pilot Env)	Solid		14-Nov-2017 10:15	16-Nov-2017 10:00	☐
HS17111021-02	1711205-03 (EE1 Area E Env 1)	Solid		14-Nov-2017 13:55	16-Nov-2017 10:00	☐
HS17111021-03	1711205-04 (EE2 Area E Env 2)	Solid		14-Nov-2017 15:05	16-Nov-2017 10:00	☐

Revision:1

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
Work Order: HS17111021

CASE NARRATIVE

Work Order Comments

- At the request of the client via email on November 28, 2017, the Report was revised on November 29,2017 to correct sample ID to Sample #3 should read 1711205-04 (EE2 Area E Env 2)."

ECD Organics by Method SW8151

Batch ID: 122418

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Revision:1

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
Sample ID: 1711205-01 (PE Pilot Env)
Collection Date: 14-Nov-2017 10:15

ANALYTICAL REPORT
WorkOrder:HS17111021
Lab ID:HS17111021-01
Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHLORINATED HERBICIDES BY SW8151A	**Method:SW8151**		Prep:SW8151 / 21-Nov-2017			Analyst: STH
2,4,5-T	ND		0.0033	mg/Kg	1	23-Nov-2017 09:34
2,4,5-TP (Silvex)	ND		0.0033	mg/Kg	1	23-Nov-2017 09:34
2,4-D	ND		0.0066	mg/Kg	1	23-Nov-2017 09:34
2,4-DB	ND		0.0066	mg/Kg	1	23-Nov-2017 09:34
Dalapon	ND		0.0033	mg/Kg	1	23-Nov-2017 09:34
Dicamba	ND		0.0033	mg/Kg	1	23-Nov-2017 09:34
Dichlorprop	ND		0.0066	mg/Kg	1	23-Nov-2017 09:34
Dinoseb	ND		0.0033	mg/Kg	1	23-Nov-2017 09:34
MCPA	ND		0.66	mg/Kg	1	23-Nov-2017 09:34
MCPP	ND		0.66	mg/Kg	1	23-Nov-2017 09:34
Surr: DCAA	*69.8*		*30-150*	*%REC*	*1*	*23-Nov-2017 09:34*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:1

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
Sample ID: 1711205-03 (EE1 Area E Env 1)
Collection Date: 14-Nov-2017 13:55

ANALYTICAL REPORT
WorkOrder:HS17111021
Lab ID:HS17111021-02
Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHLORINATED HERBICIDES BY SW8151A	**Method:SW8151**			Prep:SW8151 / 21-Nov-2017		Analyst: STH
2,4,5-T	ND		0.0033	mg/Kg	1	23-Nov-2017 10:05
2,4,5-TP (Silvex)	ND		0.0033	mg/Kg	1	23-Nov-2017 10:05
2,4-D	ND		0.0066	mg/Kg	1	23-Nov-2017 10:05
2,4-DB	ND		0.0066	mg/Kg	1	23-Nov-2017 10:05
Dalapon	ND		0.0033	mg/Kg	1	23-Nov-2017 10:05
Dicamba	ND		0.0033	mg/Kg	1	23-Nov-2017 10:05
Dichlorprop	ND		0.0066	mg/Kg	1	23-Nov-2017 10:05
Dinoseb	ND		0.0033	mg/Kg	1	23-Nov-2017 10:05
MCPA	ND		0.66	mg/Kg	1	23-Nov-2017 10:05
MCPP	ND		0.66	mg/Kg	1	23-Nov-2017 10:05
Surr: DCAA	*88.0*		*30-150*	*%REC*	*1*	*23-Nov-2017 10:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:1

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
Sample ID: 1711205-04 (EE2 Area E Env 2)
Collection Date: 14-Nov-2017 15:05

ANALYTICAL REPORT
WorkOrder:HS17111021
Lab ID:HS17111021-03
Matrix:Solid

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHLORINATED HERBICIDES BY SW8151A	**Method:SW8151**			Prep:SW8151 / 21-Nov-2017		Analyst: STH
2,4,5-T	ND		0.0033	mg/Kg	1	23-Nov-2017 10:36
2,4,5-TP (Silvex)	ND		0.0033	mg/Kg	1	23-Nov-2017 10:36
2,4-D	ND		0.0066	mg/Kg	1	23-Nov-2017 10:36
2,4-DB	ND		0.0066	mg/Kg	1	23-Nov-2017 10:36
Dalapon	ND		0.0033	mg/Kg	1	23-Nov-2017 10:36
Dicamba	ND		0.0033	mg/Kg	1	23-Nov-2017 10:36
Dichlorprop	ND		0.0066	mg/Kg	1	23-Nov-2017 10:36
Dinoseb	ND		0.0033	mg/Kg	1	23-Nov-2017 10:36
MCPA	ND		0.66	mg/Kg	1	23-Nov-2017 10:36
MCPP	ND		0.66	mg/Kg	1	23-Nov-2017 10:36
Surr: DCAA	*70.4*		*30-150*	*%REC*	*1*	*23-Nov-2017 10:36*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision:1

WEIGHT LOG

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
WorkOrder: HS17111021

Batch ID: 122418 **Method:** CHLORINATED HERBICIDES BY SW8151A **Prep:** 8151PRS

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS17111021-01	1	30.01	10 (mL)	0.3332
HS17111021-02	1	30.09	10 (mL)	0.3323
HS17111021-03	1	30.03	10 (mL)	0.333

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
WorkOrder: HS17111021

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 122418	**Test Name :** CHLORINATED HERBICIDES BY SW8151A			**Matrix:** Solid		
HS17111021-01	1711205-01 (PE Pilot Env)	14 Nov 2017 10:15		21 Nov 2017 13:07	23 Nov 2017 09:34	1
HS17111021-02	1711205-03 (EE1 Area E Env 1)	14 Nov 2017 13:55		21 Nov 2017 13:07	23 Nov 2017 10:05	1
HS17111021-03	1711205-04 (EE2 Area E Env 2)	14 Nov 2017 15:05		21 Nov 2017 13:07	23 Nov 2017 10:36	1

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
WorkOrder: HS17111021

QC BATCH REPORT

Batch ID: 122418 **Instrument: ECD_9** **Method: SW8151**

MBLK Sample ID: **MBLK-122418** Units: **ug/Kg** Analysis Date: **22-Nov-2017 20:29**
Client ID: Run ID: **ECD_9_306058** SeqNo: **4324109** PrepDate: **21-Nov-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	ND	3.3								
2,4,5-TP (Silvex)	ND	3.3								
2,4-D	ND	6.6								
2,4-DB	ND	6.6								
Dalapon	ND	3.3								
Dicamba	ND	3.3								
Dichlorprop	ND	6.6								
Dinoseb	ND	3.3								
MCPA	ND	660								
MCPP	ND	660								
Surr: DCAA	*122.1*	*0*	*166.7*	*0*	*73.3*	*30 - 150*				

LCS Sample ID: **LCS-122418** Units: **ug/Kg** Analysis Date: **22-Nov-2017 21:00**
Client ID: Run ID: **ECD_9_306058** SeqNo: **4324110** PrepDate: **21-Nov-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	77.2	3.3	83.33	0	92.6	50 - 150				
2,4,5-TP (Silvex)	80.54	3.3	83.33	0	96.6	50 - 150				
2,4-D	100	6.6	83.33	0	120	40 - 150				
2,4-DB	81.52	6.6	83.33	0	97.8	40 - 150				
Dalapon	74.6	3.3	83.33	0	89.5	30 - 150				
Dicamba	82.47	3.3	83.33	0	99.0	40 - 150				
Dichlorprop	71.53	6.6	83.33	0	85.8	40 - 150				
Dinoseb	54.61	3.3	83.33	0	65.5	40 - 150				
MCPA	7311	660	8333	0	87.7	40 - 150				
MCPP	8145	660	8333	0	97.7	40 - 150				
Surr: DCAA	*149.3*	*0*	*166.7*	*0*	*89.6*	*30 - 150*				

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
WorkOrder: HS17111021

QC BATCH REPORT

Batch ID: 122418 **Instrument: ECD_9** **Method: SW8151**

MS Sample ID: **HS17110895-03MS** Units: **ug/Kg** Analysis Date: **22-Nov-2017 23:06**
Client ID: Run ID: **ECD_9_306058** SeqNo: **4324114** PrepDate: **21-Nov-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	83.92	3.3	83.14	0	101	50 - 150				
2,4,5-TP (Silvex)	93.46	3.3	83.14	0	112	50 - 150				
2,4-D	112.9	6.6	83.14	0	136	40 - 150				
2,4-DB	81.34	6.6	83.14	0	97.8	40 - 150				
Dalapon	84.89	3.3	83.14	0	102	30 - 150				
Dicamba	95.39	3.3	83.14	0	115	40 - 150				
Dichlorprop	82.74	6.6	83.14	0	99.5	40 - 150				
Dinoseb	120.4	3.3	83.14	4.938	139	40 - 150				
MCPA	10890	660	8314	0	131	40 - 150				
MCPP	9341	660	8314	1423	95.2	40 - 150				P
Surr: DCAA	*200.2*	*0*	*166.3*	*0*	*120*	*30 - 150*				

MSD Sample ID: **HS17110895-03MSD** Units: **ug/Kg** Analysis Date: **22-Nov-2017 23:37**
Client ID: Run ID: **ECD_9_306058** SeqNo: **4324115** PrepDate: **21-Nov-2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-T	79.86	3.3	83.22	0	96.0	50 - 150	83.92	4.96	30	
2,4,5-TP (Silvex)	88.27	3.3	83.22	0	106	50 - 150	93.46	5.71	30	
2,4-D	101.8	6.6	83.22	0	122	40 - 150	112.9	10.4	30	
2,4-DB	76.2	6.6	83.22	0	91.6	40 - 150	81.34	6.53	30	
Dalapon	87.36	3.3	83.22	0	105	30 - 150	84.89	2.86	30	
Dicamba	88.7	3.3	83.22	0	107	40 - 150	95.39	7.27	30	
Dichlorprop	70.06	6.6	83.22	0	84.2	40 - 150	82.74	16.6	30	
Dinoseb	114.3	3.3	83.22	4.938	131	40 - 150	120.4	5.21	30	
MCPA	9484	660	8322	0	114	40 - 150	10890	13.8	30	
MCPP	7430	660	8322	1423	72.2	40 - 150	9341	22.8	30	P
Surr: DCAA	*179.1*	*0*	*166.4*	*0*	*108*	*30 - 150*	*200.2*	*11.2*	*30*	

The following samples were analyzed in this batch: HS17111021-01 HS17111021-02 HS17111021-03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: San Antonio Testing Laboratory, Inc.
Project: Herbicicdes 8151
WorkOrder: **HS17111021**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg	Milligrams per Kilogram

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Carolina	624-2017	31-Dec-2017
North Dakota	R193 2017-2017	30-Apr-2018
Oklahoma	2017-088	31-Aug-2018
Texas	T104704231-17-19	30-Apr-2018

Sample Receipt Checklist

Client Name: San Antonio Testing
Work Order: HS17111021
Date/Time Received: **16-Nov-2017 10:00**
Received by: **SBM**

Checklist completed by: *Raegen Giga* eSignature 20-Nov-2017 Date
Reviewed by: *Nicole Brown* eSignature 21-Nov-2017 Date

Matrices: **solid**
Carrier name: **FedEx Ground**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.1c/4.4c uc/c	IR 25	
Cooler(s)/Kit(s):	Box/Foam		
Date/Time sample(s) sent to storage:	11/20/2017 18:00 prior to sample login		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY SATL	COMPANY SATL	REPORT NUMBER
ADDRESS	ADDRESS	
CITY STATE ZIP	CITY STATE ZIP	FAX #
ATTN: Aimee Landon PHONE # 210 229-9920	ATTN: Sandra PHONE #	EMAIL: satesting@satestinglab.com

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ❑ 7-10 Days REG ❑ 5 Days +25% ❑ 4 Days +50% ❑ 3 DAYS +75% ❑ 2 DAYS +100% ❑ Next Day +150% ❑ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE

TRRP 13 ❑ YES ❑ NO LPST PCLS ❑

HARDCOPY ❑ YES ❑ NO / FOR STATE COMPLIANCE ❑ YES ❑ NO

COMMENTS/SPECIAL REQUESTS:

PROJECT NO.

TEMP. I.R. GUN #_____ SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ❑ YES ❑ NO INITIAL TO AUTHORIZE BULK ANALYSIS_____

PROPER CONTAINERS..... ❑ YES ❑ NO IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS_____

SAMPLED BY

TEMP. ON RECPT. COND. OF SAMPLE

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	MATRIX: DRINKING WATER	LIQUID	PAINT CHIPS	OIL	SOLID	SLUDGE	OTHER	SAMPLING METHOD: COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	ANALYSIS REQUESTED: BTEX / MTBE (8260)	TPH (TX1005 / TX1006)	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / (8270 / 625 / TCLP/ SPLP) / Total	VOC / (8260 / 624 / TCLP/ SPLP) / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci	Herbicides 8151	HOLD	PRESERVED WITH: HCL	HNO3	H2SO4	NaOH	NaOH+ZnAc	MeOH	NONE	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	FILTERED IN THE FIELD	REMARKS
1	11/14/17	1015					X							1711205-01 (PE Pilot Env)	1	2	40ml								X												
2	"	1355												1711205-03 (EE1 Area E Env)	1	1	1								X												
3	"	1505												1711205-04 (EE2 Area E Env2)	1	1	1								X												

HS17111021
San Antonio Testing Laboratory, Inc.
Herbicicdes 8151

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (PRINT NAME) Aimee Landon	11/15/17	RECEIVED BY (PRINT NAME)	RELINQUISHED BY (PRINT NAME)		RECEIVED BY (PRINT NAME)
RELINQUISHED BY (SIGNATURE)		RECEIVED BY (SIGNATURE) JM 10:00	METHOD OF SHIPMENT		SUBCONTRACTED ❑ YES ❑ NO
RELINQUISHED BY (PRINT NAME)		RECEIVED BY (PRINT NAME)	SAMPLED IN 5035 CONTAINERS ❑ YES ❑ NO ❑ N/A		CUSTODY SEAL IN PLACE & INTACT ❑ YES ❑ NO

FORM: COC REV 01/16

WHITE - LAB CANARY - CLIENT

FOLD HERE

MARCELA HAWK
210.229.9920
SAN ANTONIO TESTING LABORATORY
1610 S. LAREDO STREET
SAN ANTONIO TX 78207

8 LBS

1 OF 1

SHIP TO:
NICOLE BROWN
713-266-1599
ALS ENVIRONMENTAL
10450 STANCLIFF ROAD, SUITE 210
HOUSTON TX 77099

TX 774 9-08

UPS GROUND
TRACKING #: 1Z 785 26E 03 9840 7437

BILLING: P/P

UIS 19.5.48. WNINV50 93.0A 10/2017

BOX / Foam

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY Adams Environmental, Inc.	COMPANY Same	REPORT NUMBER 171205
ADDRESS 12018 Las Nubes St 78~~233~~	ADDRESS Same	
CITY San Antonio STATE TX ZIP 78233	CITY Same STATE ZIP	FAX # 210-587-7922
ATTN: Brian Gottschalk PHONE # 210-858-6873	ATTN: Sable Kitchen PHONE # Same	E-MAIL

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☑ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: Mitchell Lake Wetlands

TRRP 13 ☐ YES ☒ NO LPST PCLS ☐

HARDCOPY ☐ YES ☒ NO / FOR STATE COMPLIANCE ☐ YES ☒ NO

COMMENTS/SPECIAL REQUESTS: bgottschalk@adamsenv.com

PROJECT NO.

TEMP. I.R. GUN # 6 — SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☑ YES ☐ NO — INITIAL TO AUTHORIZE BULK ANALYSIS

PROPER CONTAINERS ☑ YES ☐ NO — IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS

SAMPLED BY: B. Gottschalk

TEMP. ON RECPT. 4.9°C COND. OF SAMPLE: Iced

ANALYSIS REQUESTED

SAMPLE NUMBER	DATE	TIME	MATRIX	SAMPLING METHOD	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	Metals 8 (RCRA 8)	Total Nitrates	Total Phosphates	Pesticides (EPA 608/8081A)	Herbicides (EPA 8151A)	12/1/17 TKN
PE	11-14-17	10:15	Solid X	Composite X	Pilot Environmental	2	8oz	4oz	X			X	X	X
PA	"	10:15	Solid X	Composite X	Pilot Agricultural	2	↓	↓		X	X		X	X
EE1	"	1:55P	Solid X	Composite X	Area E Environmental 1	2	↓	↓	X			X	X	X
EE2	"	3:05P	Solid X	Composite X	" " " 2	2	↓	↓	X			X	X	X
EA1	"	1:55P	Solid X	Composite X	Area E Agricultural 1	2	↓	↓		X	X		X	X
EA2	"	2:25P	Solid X	Composite X	" " " 2	2	↓	↓		X	X		X	X
EA3	"	3:05P	Solid X	Composite X	" " " 3	2	↓	↓		X	X		X	X

Other analysis columns (not marked): BTEX / MTBE (8260); TPH (TX1005 / TX1006); PAH / SVOC / (8270 / 625 / TCLP / SPLP) / Total; VOC / (8260 / 624 / TCLP / SPLP) / Total; Water Quality - Drinking / Livestock / Irrigation; Coli / TC / FC / HPC / ECOLI / Enterococci; HOLD; PRESERVED WITH: ICE, HCL, HNO3, H2SO4, NaOH, ZN ACETATE, PRESERVED IN THE LAB, COMPOSITED IN THE LAB, FILTERED IN THE LAB, FILTERED IN THE FIELD; REMARKS

NOV 14 2017 1554

RELINQUISHED BY (SIGNATURE) [signature]	DATE / TIME 11-14-17 @ 3:57pm	RECEIVED BY (SIGNATURE) [signature]	
RELINQUISHED BY (PRINT NAME) Brian Gottschalk		RECEIVED BY (PRINT NAME) Aimee Landon	
RELINQUISHED BY (SIGNATURE)		RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (PRINT NAME)		RECEIVED BY (PRINT NAME)	
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	
RELINQUISHED BY (PRINT NAME)		RECEIVED BY (PRINT NAME)	
METHOD OF SHIPMENT Hand		SUBCONTRACTED ☒ YES ☐ NO MicroBac	
SAMPLED IN 5035 CONTAINERS ☐ YES ☒ NO ☐ N/A		CUSTODY SEAL IN PLACE & INTACT ☒ YES ☐ NO	

FORM: COC REV 01/16 WHITE - LAB CANARY - CLIENT

SAtesting

From: Brian Gottschalk <bgottschalk@adamsenvironmental.com>
Sent: Friday, December 01, 2017 11:37 AM
To: SAtesting
Cc: Sable Kitchen
Subject: RE: Mitchell Lake Wetlands - [none]

Thank you for the report. Please run the following samples (**3-day turnaround**) for **Total Nitrogen**:

- 1711205-02
- 1711205-05
- 1711205-06
- 1711205-07

Please let us know if you have any questions, and thanks!

Brian Gottschalk
Principal Scientist

ADAMS ENVIRONMENTAL, INC.
EST. 1996

12018 Las Nubes Street
San Antonio, TX 78233
Phone: (210) 858-6873 | Cell: (512) 784-1522

-----Original Message-----
From: SAtesting [mailto:SAtesting@satestinglab.com]
Sent: Thursday, November 30, 2017 11:16 AM
To: Brian Gottschalk <bgottschalk@adamsenvironmental.com>
Subject: Mitchell Lake Wetlands - [none]

Email Text Override