FIBERS SITE GROUP

March 12, 2018

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA
Response and Remediation Branch
U.S Environmental Protection Agency
City View Plaza II - Suite 7000
48 RD, 165 Km. 1.2
Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – February 2018
Fibers Public Supply Wells Site
Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *Unites States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,

Joe Biss, CHMM
Fibers Site Group Project Coordinator
EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Teresita Rodriguez - via email only
Ms. Margo Ludmer, Assistant Regional Counsel – via email only
Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)
Amarilis Rodriguez Mendez, State Remedial Project Manager, Puerto Rico Environmental Quality Board - via email only
Ms. Katherine Mishkin, Hydrogeologist, USEPA Superfund Technical Support Section – via email only
Ms. Enid Diaz, Departmento de Recursos Naturales y Ambientales
Mr. Jorge Morales, PRIDCO - via email only
Mr. Joel Melendez Rodriguez, PRIDCO - via email only
Ms. Ana Palou Balsa, PRIDCO – via email only
Mr. Dan Vineyard, Jackson Walker- via email only
James Kirschner, Arcadis - via email only

RD/RA Monthly Report – February 2018
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was operational for approximately 89% of the time during February 2018. The GWETS had five automated shut downs due to power outages and four shut downs due to GWETS maintenance. In most of these instances the GWETS was restarted no later than the next business day.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1. The GWETS operated at an average flow rate of 176 gallons per minute (gpm) and treated approximately 7.06 million gallons of water. To date (since May 1999), approximately 3.18 billion gallons of water have been treated at the Fibers Site. The total volume of water treated to date correlates with the treatment system influent flow meter totalizer reading.

Groundwater extraction well RW-4 was shut down for a period of time in February 2018. It was determined that the variable frequency drive (VFD) shut down due to a high temperature. The VFD is anticipated to be repaired or replaced during March 2018.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Arcadis U.S., Inc. (Arcadis) collected split groundwater influent and effluent samples on February 5, 2018. The samples were submitted and analyzed by Pace Analytical Services, Inc. (Pace) in St. Rose, Louisiana and Environmental Quality Laboratories, Inc. (EQLAB) in Bayamon, Puerto Rico. A summary of the February 5, 2018 GWETS Laboratory Analytical Results is provided in Table 2. A summary of GWETS influent groundwater concentrations of tetrachloroethene (PCE) and total haloethers, as reported by Pace, is depicted on Figures 2 and 3, respectively.

Arcadis performed a data quality assessment (validation) of the laboratory analytical results reported by Pace. Results are summarized in the Data Review Report #29337R and provided as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete Pace Laboratory Analytical Report #2070154 is provided as Attachment 2.

Arcadis performed a data quality assessment (validation) of the laboratory analytical results reported by EQLAB. Results are summarized in the Data Review Report #29338R and provided as Attachment 3. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete EQLAB Laboratory Analytical Report #246718 (WO 655-04-26) is provided as Attachment 4.

A copy of the GWETS Sampling and Monitoring Field Form, documenting sample collection information, individual flow rates at the three groundwater extraction wells and treatment system parameters is provided as Attachment 5.

(c) List of all work plans, plans and other deliverables completed and submitted.

None for this reporting period.

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

The Fibers Group will prepare and submit an updated Quality Assurance Project Plan (QAPP) to the USEPA within the next six weeks.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Supplemental Subsurface Soil Investigations – In progress
Construction Activities – 100% complete.
System Start-Up – 100% complete.
Start-Up Performance Monitoring – 100% complete.
Long-Term Operation & Maintenance Period – In progress.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.

Tables

Table 1
Summary of Daily Treatment System Operating Records - February 2018
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) [1]	Effluent Flow (gpm) [2]	RW-2 (gpm) [3]	RW-4 (gpm) [4]	RW-5 (gpm) [5]	pH [6]	Comments
2/1/2018	320	398	100	145	80	8.1	GWETS maintenance.
2/2/2018	320	398	100	145	80	8.1	
2/3/2018	289	359	96	121	77	8.1	RW-4 shut down.
2/4/2018	177	220	100	0	80	8.1	
2/5/2018	189	236	100	0	80	8.1	
2/6/2018	59	74	35	0	27	8.4	Power outage; GWETS down.
2/7/2018	176	226	96	0	77	8.1	GWETS restarted.
2/8/2018	168	226	92	0	74	8.1	Power outage; GWETS down.
2/9/2018	177	221	100	0	80	8.1	
2/10/2018	177	221	100	0	80	8.1	
2/11/2018	67	83	39	0	31	8.2	GWETS maintenance.
2/12/2018	79	96	43	0	34	8.2	GWETS maintenance.
2/13/2018	183	232	88	0	70	8.2	
2/14/2018	115	147	67	0	54	8.3	GWETS maintenance.
2/15/2018	180	223	100	0	80	8.1	
2/16/2018	183	215	100	0	80	8.1	
2/17/2018	175	225	100	0	80	8.1	
2/18/2018	172	233	100	0	80	8.1	
2/19/2018	178	224	100	0	80	8.0	
2/20/2018	177	221	100	0	80	8.0	Power outage; GWETS down.
2/21/2018	177	221	100	0	80	8.0	
2/22/2018	155	206	88	0	70	8.1	Power outage; GWETS down.
2/23/2018	172	217	99	0	77	8.0	
2/24/2018	182	229	105	0	80	8.0	
2/25/2018	182	229	105	0	80	8.0	
2/26/2018	132	163	75	0	57	8.2	GWETS maintenance.
2/27/2018	182	228	105	0	80	8.3	GWETS maintenance.
2/28/2018	185	229	105	0	80	8.3	Power outage; GWETS down.
Monthly Average	176	221	91	15	72	8.1	

Notes:

Flow rates are 24-hour daily average.

gpm = gallons per minute.

[1] = Recorded from instrument FIT-101.

[2] = Recorded from instrument FIT-301.

[3] = Recorded from instrument RW2 FIT.

[4] = Recorded from instrument RW4 FIT.

[5] = Recorded from instrument RW5 FIT.

[6] = Recorded from instrument pHIT-201A.

Table 2
Summary of Treatment System Laboratory Analytical Results – Split Samples
Collected at the Treatment System Compound February 5, 2018
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results (split samples) for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on February 5, 2018 are presented below. Split samples were submitted to Pace Analytical Services, Inc. (PACE) in St. Rose, Louisiana and to Environmental Quality Laboratories, Inc. (EQLAB) in Bayamon, Puerto Rico to investigate past acetone detections in the influent and effluent treatment system water samples. Analytical results from both laboratories are presented below. The treatment system average influent flow rate at the time the samples were collected was 177 gallons per minute (gpm). Laboratory analytical reports from PACE and EQLAB did not vary significantly. Acetone was detected in the influent samples and in the Pace effluent sample. A copy of the PACE and EQLAB Analytical Reports are included in this report as Attachment 2 and Attachment 4, respectively.

	VOC (µg/L)							
	Sample ID							
Compound	EFF-20180205		EFFDUP-20180205		INF-20180205		TB-20180205	
	PACE	EQLAB	PACE	EQLAB	PACE	EQLAB	PACE	EQLAB
Tetrachloroethene	ND	ND	ND	ND	5.8	4.90	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Acetate	NA	R	NA	ND	NA	ND	NA	ND
Vinyl Chloride	ND	3.0 UJ	ND	ND	ND	ND	ND	ND
Acetone	4.8	BDL	12.7	BDL	5.5	6.20 J	ND	ND
Acrolein	R	75.0 UJ	ND	ND	ND	ND	ND	ND
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	NA	ND	NA	ND	NA	ND	NA	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	BDL	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND
Epichlorohydrin	NA	ND	NA	ND	NA	ND	NA	ND
Hexachlorobutadiene	NA	ND	NA	ND	NA	ND	NA	ND
Iodomethane	NA	R	NA	ND	NA	ND	NA	ND
Isopropylbenzene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
n-Butylbenzene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
n-Propylbenzene	NA	ND	NA	ND	NA	ND	NA	ND
o-Dichlorobenzene	NA	ND	NA	ND	NA	ND	NA	ND
sec-Butylbenzene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
tert-Butylbenzene	NA	ND	NA	ND	NA	ND	NA	ND
Trans-1,3-dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND

	VOC (µg/L)							
	Sample ID							
Compound	EFF-20180205		EFFDUP-20180205		INF-20180205		TB-20180205	
	PACE	EQLAB	PACE	EQLAB	PACE	EQLAB	PACE	EQLAB
Trans-1,4-Dichloro-2-butene	NA	15.0 UJ	NA	ND	NA	ND	NA	ND
Styrene	R	R	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	NA	ND	NA	ND	NA	ND	NA	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylene	2.0 UJ	6.0 UJ	ND	ND	ND	ND	ND	ND
o-Xylene	ND	3.0 UJ	ND	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	NA	R	NA	R	NA	R	NA	R
Naphthalene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
1,1,1,2-Tetrachloroethane	NA	ND	NA	ND	NA	ND	NA	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
1,2,3-Trichlorobenzene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
1,2,3-Trichlororopane	ND	3.0 UJ	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
1,2,4-Trimethylbenzene	NA	R	NA	ND	NA	ND	NA	ND
1,2-Dibromo-3-chloropropane	NA	ND	NA	ND	NA	ND	NA	ND
1,2-Dibromoethane	NA	ND	NA	ND	NA	ND	NA	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	NA	R	NA	ND	NA	ND	NA	ND
1,3-Dichlorobenzene	NA	ND	NA	ND	NA	ND	NA	ND
1,3-Dichloropropane	NA	ND	NA	ND	NA	ND	NA	ND
1,4-Dichlorobenzene	NA	ND	NA	ND	NA	ND	NA	ND
1-Chlorohexane	NA	ND	NA	ND	NA	ND	NA	ND
2-Chlorotoluene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	NA	ND	NA	ND	NA	ND	NA	ND
4-Isopropyltoluene	NA	3.0 UJ	NA	ND	NA	ND	NA	ND
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND
Enflurane	ND	NA	ND	NA	1.6	NA	ND	NA
Haloether 229	ND	NA	ND	NA	8.4	NA	ND	NA
Haloether 406	ND	NA	ND	NA	ND	NA	ND	NA
Haloether 421	ND	NA	ND	NA	ND	NA	ND	NA
Haloether 427	ND	NA	ND	NA	ND	NA	ND	NA
Haloether 428	ND	NA	ND	NA	ND	NA	ND	NA
Haloether 508	ND	NA	ND	NA	43.1	NA	ND	NA
Haloether 528	ND	NA	ND	NA	ND	NA	ND	NA
Halomar	ND	NA	ND	NA	ND	NA	ND	NA
Isoflurane	ND	NA	ND	NA	37.1	NA	ND	NA
Total Haloethers	ND	NA	ND	NA	90.2	NA	ND	NA
Other VOC	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
VOC = volatile organic compounds.
µg/L = micrograms per liter.
EFF = effluent sample.
EFFDUP = effluent duplicate sample.
INF = influent sample.
TB = trip blank.
ND = not detected at or above laboratory reporting limit.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
UJ = The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
R = rejected.
NA = not analyzed.
BDL = below detection limit

Figures

Figure 1
Fibers Public Supply Wells Superfund Site
Summary of Treatment System Flow Rates

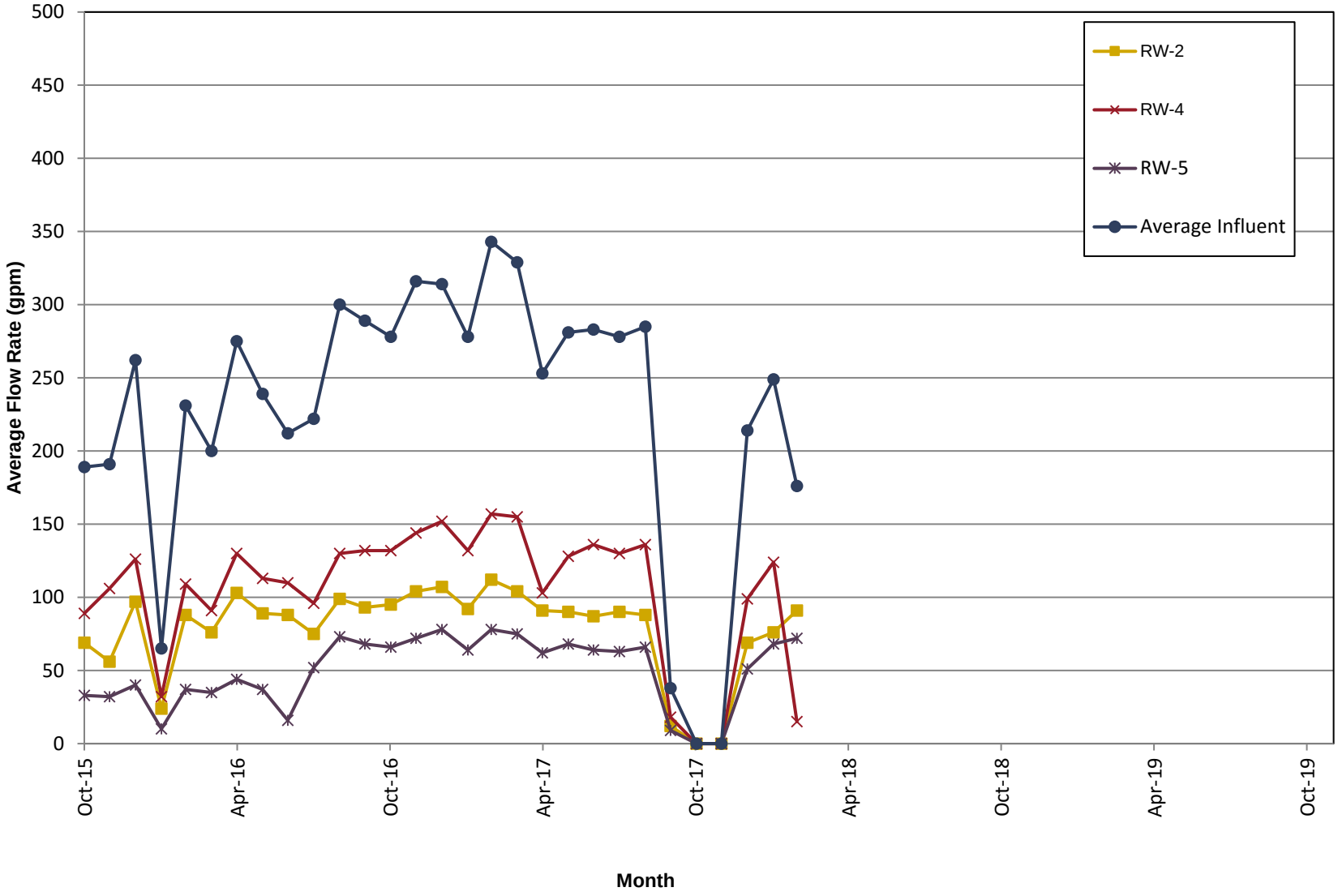


Figure 2
Fibers Public Supply Wells Superfund Site
Treatment System Influent -
Tetrachloroethene (PCE) Concentrations

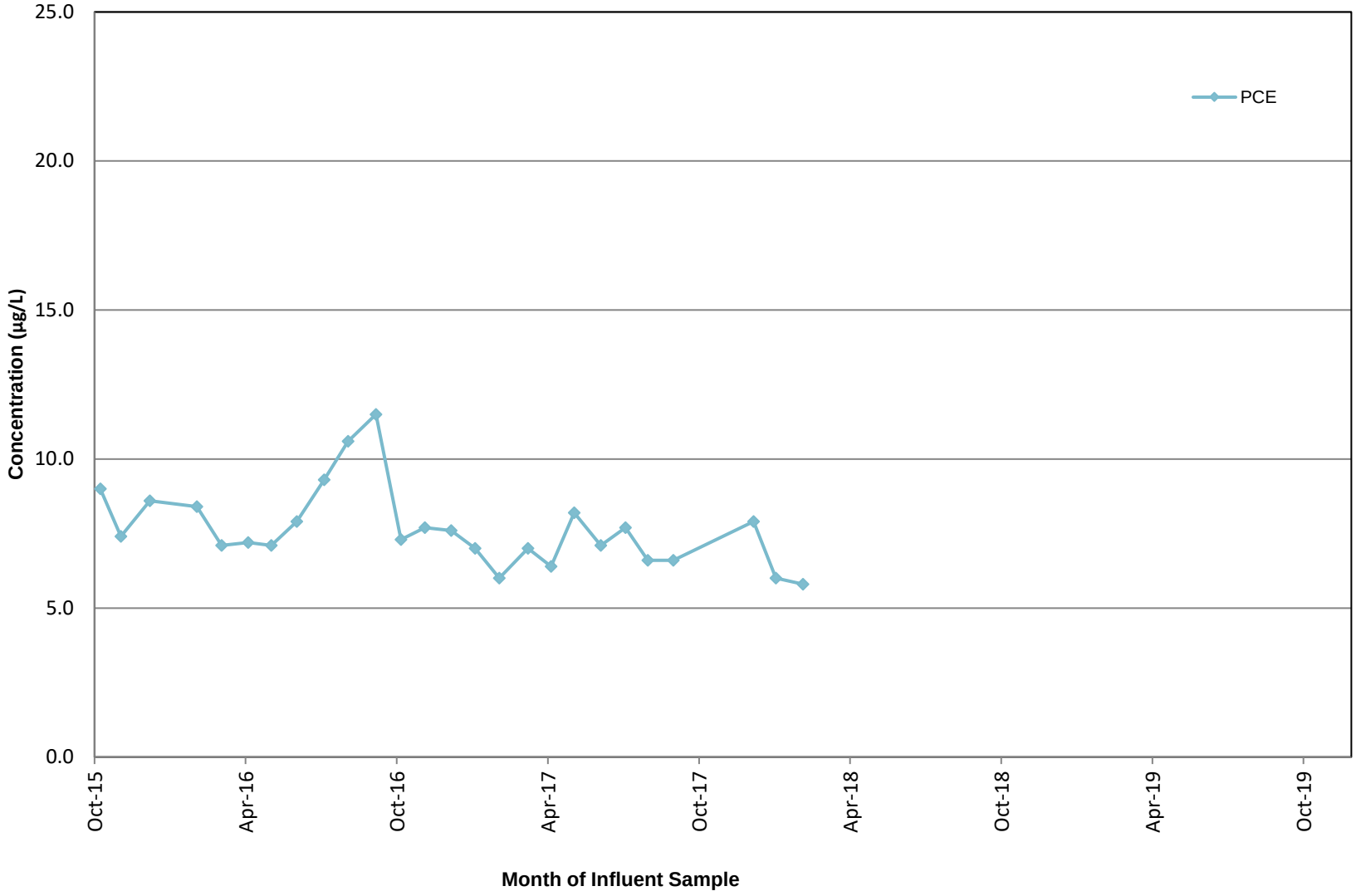
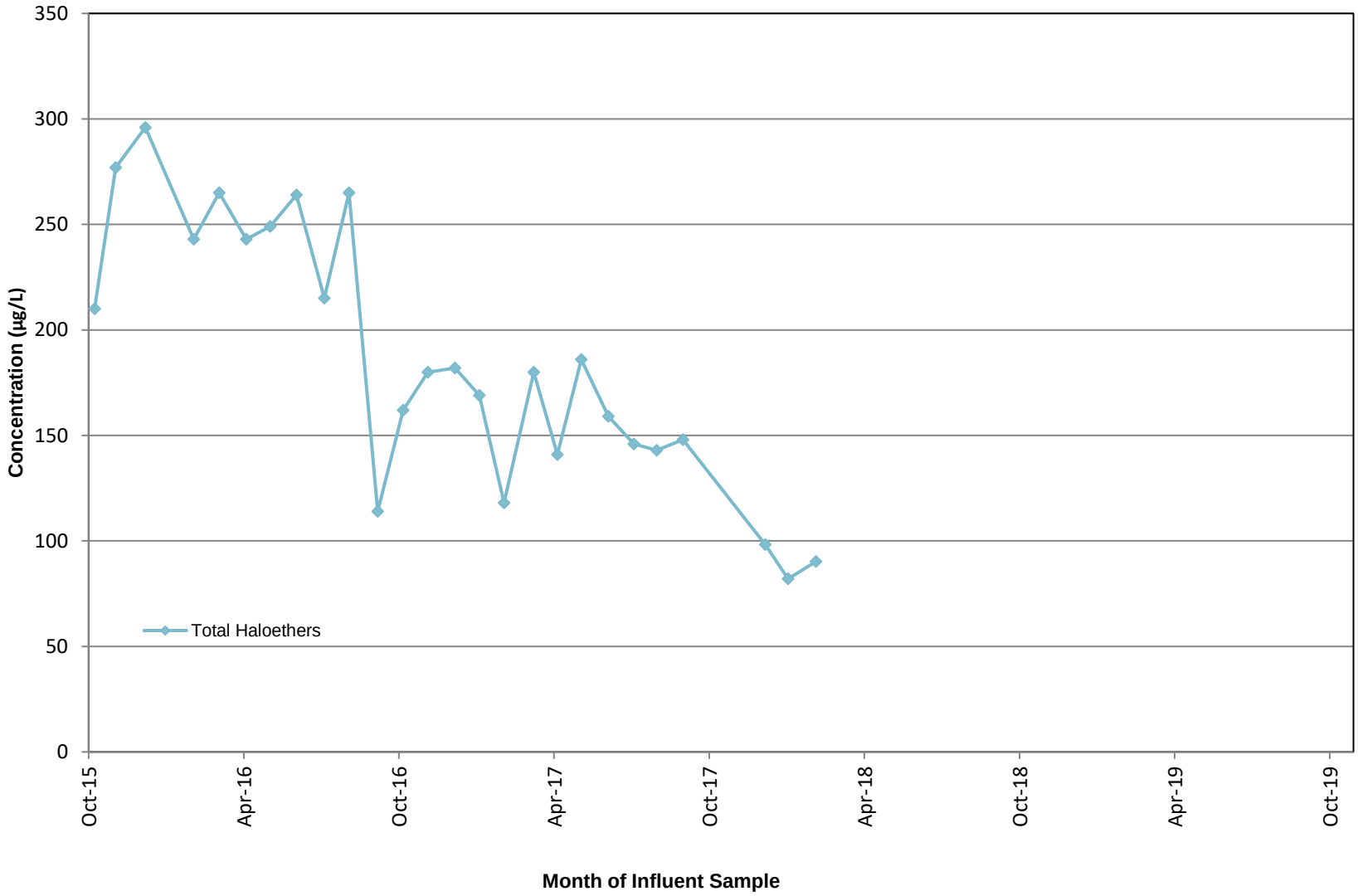


Figure 3
Fibers Public Supply Wells Superfund Site
Treatment System Influent -
Total Haloethers Concentrations



Attachment 1
Data Review Report #29337R

Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #2070154
Analyses Performed By:
Pace Analytical Services, Inc.
New Orleans, Louisiana

Report: #29337R
Review Level: Tier II
Project: CO001911.0005.1705A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2070154 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
TB-20180205	2070154001	Water	02/05/2018		X				
INF-20180205	2070154002	Water	02/05/2018		X				
EFF-20180205	2070154003	Water	02/05/2018		X				
EFFDUP-20180205	2070154004	Water	02/05/2018	EFF-20180205	X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20180205.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
EFF-20180205	m&p-Xylene	< LL but > 10%	< LL but > 10%
	Acrolein	< 10%	< 10%
	Styrene		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20180103 / EFFDUP-20180103	Acetone	4.8	12.7	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) Accuracy (%R)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
RPD Relative percent difference
%RSD Relative standard deviation
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: _____

DATE: March 1, 2018

PEER REVIEW: Dennis Capria

DATE: March 1, 2018

CHAIN OF CUSTODY/
ANNOTATED SAMPLE ANALYSIS DATA SHEETS

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: TB-20180205 **Lab ID: 2070154001** Collected: 02/05/18 00:00 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		02/15/18 20:06	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 20:06	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 20:06	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 20:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 20:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 20:06	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 20:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 20:06	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 20:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 20:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 20:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 20:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 20:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/18 20:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 20:06	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 20:06	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 20:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:06	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/15/18 20:06	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 20:06	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 406	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 421	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 427	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 428	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 508	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 528	ND	ug/L	1.0	1		02/15/18 20:06		
Halomar	ND	ug/L	1.0	1		02/15/18 20:06		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 20:06	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/15/18 20:06		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 20:06	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 20:06	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 20:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 20:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/15/18 20:06	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 20:06	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/15/18 20:06		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	79-01-6	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: TB-20180205 **Lab ID: 2070154001** Collected: 02/05/18 00:00 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 20:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 20:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 20:06	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 20:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 20:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/15/18 20:06	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/15/18 20:06	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	68-124	1		02/15/18 20:06	460-00-4	
Dibromofluoromethane (S)	101	%.	72-126	1		02/15/18 20:06	1868-53-7	

Sample: INF-20180205 **Lab ID: 2070154002** Collected: 02/05/18 10:54 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	**5.5**	ug/L	4.0	1		02/15/18 20:42	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 20:42	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 20:42	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 20:42	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 20:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 20:42	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 20:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 20:42	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 20:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 20:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 20:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 20:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 20:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/18 20:42	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 20:42	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 20:42	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 20:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:42	10061-02-6	
Enflurane	**1.6**	ug/L	1.0	1		02/15/18 20:42	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 20:42	100-41-4	
Haloether 229	**8.4**	ug/L	1.0	1		02/15/18 20:42		
Haloether 406	ND	ug/L	1.0	1		02/15/18 20:42		
Haloether 421	ND	ug/L	1.0	1		02/15/18 20:42		
Haloether 427	ND	ug/L	1.0	1		02/15/18 20:42		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: INF-20180205 **Lab ID: 2070154002** Collected: 02/05/18 10:54 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		02/15/18 20:42		
Haloether 508	**43.1**	ug/L	1.0	1		02/15/18 20:42		
Haloether 528	ND	ug/L	1.0	1		02/15/18 20:42		
Halomar	ND	ug/L	1.0	1		02/15/18 20:42		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 20:42	591-78-6	
Isoflurane	**37.1**	ug/L	1.0	1		02/15/18 20:42		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 20:42	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 20:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 20:42	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 20:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 20:42	79-34-5	
Tetrachloroethene	**5.8**	ug/L	1.0	1		02/15/18 20:42	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 20:42	108-88-3	
Total Haloether	**90.2**	ug/L	1.0	1		02/15/18 20:42		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 20:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 20:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 20:42	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 20:42	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 20:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/15/18 20:42	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%.	79-119	1		02/15/18 20:42	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	68-124	1		02/15/18 20:42	460-00-4	
Dibromofluoromethane (S)	102	%.	72-126	1		02/15/18 20:42	1868-53-7	

Sample: EFF-20180205 **Lab ID: 2070154003** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	**4.8**	ug/L	4.0	1		02/15/18 19:48	67-64-1	
~~Acrolein~~	~~ND~~	~~ug/L~~	~~8.0~~	~~1~~		~~02/15/18 19:48~~	~~107-02-8~~	~~M1~~ R
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 19:48	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 19:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 19:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 19:48	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 19:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 19:48	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 19:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 19:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 19:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 19:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 19:48	67-66-3	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: EFF-20180205 **Lab ID: 2070154003** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		02/15/18 19:48	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 19:48	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 19:48	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 19:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 19:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 19:48	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/15/18 19:48	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 19:48	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 406	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 421	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 427	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 428	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 508	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 528	ND	ug/L	1.0	1		02/15/18 19:48		
Halomar	ND	ug/L	1.0	1		02/15/18 19:48		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 19:48	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/15/18 19:48		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 19:48	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 19:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 19:48	108-10-1	
Styrene	~~ND~~	~~ug/L~~	~~1.0~~	~~1~~		~~02/15/18 19:48~~	~~100-42-5~~	~~M1~~ R
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 19:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/15/18 19:48	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 19:48	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/15/18 19:48		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 19:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 19:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 19:48	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 19:48	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 19:48	179601-23-1	~~M1~~ UJ
o-Xylene	ND	ug/L	1.0	1		02/15/18 19:48	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/15/18 19:48	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	68-124	1		02/15/18 19:48	460-00-4	
Dibromofluoromethane (S)	104	%.	72-126	1		02/15/18 19:48	1868-53-7	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: EFFDUP-20180205 **Lab ID: 2070154004** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	**12.7**	ug/L	4.0	1		02/15/18 20:24	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 20:24	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 20:24	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 20:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 20:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 20:24	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 20:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 20:24	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 20:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 20:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 20:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 20:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 20:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/18 20:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 20:24	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 20:24	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 20:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:24	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/15/18 20:24	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 20:24	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 406	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 421	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 427	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 428	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 508	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 528	ND	ug/L	1.0	1		02/15/18 20:24		
Halomar	ND	ug/L	1.0	1		02/15/18 20:24		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 20:24	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/15/18 20:24		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 20:24	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 20:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 20:24	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 20:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 20:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/15/18 20:24	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 20:24	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/15/18 20:24		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	79-01-6	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: EFFDUP-20180205 **Lab ID: 2070154004** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 20:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 20:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 20:24	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 20:24	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 20:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/15/18 20:24	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%.	79-119	1		02/15/18 20:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	68-124	1		02/15/18 20:24	460-00-4	
Dibromofluoromethane (S)	100	%.	72-126	1		02/15/18 20:24	1868-53-7	

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Docun

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be co

WO# : 2070154

2070154

Section A
Required Client Information:

Company:	Arcadis
Address:	#48 City View Plaza 1 Suite 401
	Rd 165 KM 1.2, Guaynabo, PR 00968
Email:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Elvin Varela
Copy To:	
Purchase Order #:	
Project Name:	Fibers Public Supply Well (PO#CO001911.000
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	craig.mccollum@pacelabs.com,
Pace Profile #:	1037 L1

Regulatory Agency

State / Location
PR

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC 8260	VOC 8260-Trip Blank	Residual Chlorine (Y/N)
1	TB-20180205	WT	G	—	—	02/05/18	[illegible]		2				2							X	
2	INF-20180205	WT	G	—	—	02/05/18	1054		3				3						X		
3	EFF-2018-0205	WT	G	—	—	02/05/18	1129		3				3						X		
4	EFFDUP-20180205	WT	G	—	—	02/05/18	1129		3				3						X		
5	EFFMS-20180205	WT	G	—	—	02/05/18	1129		3				3						X		
6	EFFMSD-20180205	WT	G	—	—	02/05/18	1129		3				3						X		
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] /ARCADIS	2-5-18	15:50	[signature] /Pace	2-5-18	1550	3°	Y	N	Y
	[signature]	2/5/18	17:00	[signature]						
	Fed Ex	2/6/18	0845	[signature] Fed Ex	2/6/18	0845	03	Y	Y	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Elvin Varela
SIGNATURE of SAMPLER:	[signature]
DATE Signed:	02/05/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Attachment 2
Pace Laboratory Analytical Report #2070154

Pace Analytical Services, LLC
1000 Riverbend Blvd - Suite F
St. Rose, LA 70087
(504)469-0333

February 19, 2018

David Howard
ARCADIS
410 North 44th St.
Suite 1000
Phoenix, AZ 85008

RE: Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Craig McCollum
craig.mccollum@pacelabs.com
504-305-3618
Project Manager

Enclosures

cc: Janisse Diaz, Arcadis
Gisela Hernandez Rivera, Arcadis
Elvin Varela, ARCADIS

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CERTIFICATIONS

Project:	Fibers Public Supply Wells
Pace Project No.:	2070154

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch: 11277CA
Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Pennsylviania Dept. of Env Protection (NELAC): 68-04202
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119
Commonwealth of Virginia (TNI): 480246

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SAMPLE SUMMARY

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2070154001	**TB-20180205**	Water	02/05/18 00:00	02/06/18 08:45
2070154002	**INF-20180205**	Water	02/05/18 10:54	02/06/18 08:45
2070154003	**EFF-20180205**	Water	02/05/18 11:29	02/06/18 08:45
2070154004	**EFFDUP-20180205**	Water	02/05/18 11:29	02/06/18 08:45

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SAMPLE ANALYTE COUNT

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2070154001	**TB-20180205**	EPA 5030B/8260	GEM	56	PASI-N
2070154002	**INF-20180205**	EPA 5030B/8260	GEM	56	PASI-N
2070154003	**EFF-20180205**	EPA 5030B/8260	GEM	56	PASI-N
2070154004	**EFFDUP-20180205**	EPA 5030B/8260	GEM	56	PASI-N

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PROJECT NARRATIVE

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Method: **EPA 5030B/8260**
Description: 8260 MSV HALOETHERS
Client: ARCADIS
Date: February 19, 2018

General Information:
4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 101631

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2070154003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 437895)
  - Acrolein
  - Styrene
  - m&p-Xylene
- MSD (Lab ID: 437896)
  - Acrolein
  - Styrene
  - m&p-Xylene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: TB-20180205 **Lab ID: 2070154001** Collected: 02/05/18 00:00 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	4.0	1		02/15/18 20:06	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 20:06	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 20:06	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 20:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 20:06	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 20:06	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 20:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 20:06	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 20:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 20:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 20:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 20:06	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 20:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/18 20:06	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 20:06	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 20:06	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 20:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:06	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/15/18 20:06	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 20:06	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 406	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 421	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 427	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 428	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 508	ND	ug/L	1.0	1		02/15/18 20:06		
Haloether 528	ND	ug/L	1.0	1		02/15/18 20:06		
Halomar	ND	ug/L	1.0	1		02/15/18 20:06		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 20:06	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/15/18 20:06		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 20:06	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 20:06	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 20:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 20:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/15/18 20:06	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 20:06	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/15/18 20:06		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 20:06	79-01-6	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: TB-20180205 **Lab ID: 2070154001** Collected: 02/05/18 00:00 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 20:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 20:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 20:06	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 20:06	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 20:06	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/15/18 20:06	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/15/18 20:06	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	68-124	1		02/15/18 20:06	460-00-4	
Dibromofluoromethane (S)	101	%.	72-126	1		02/15/18 20:06	1868-53-7	

Sample: INF-20180205 **Lab ID: 2070154002** Collected: 02/05/18 10:54 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	**5.5**	ug/L	4.0	1		02/15/18 20:42	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 20:42	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 20:42	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 20:42	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 20:42	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 20:42	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 20:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 20:42	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 20:42	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 20:42	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 20:42	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 20:42	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 20:42	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/18 20:42	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 20:42	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 20:42	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 20:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:42	10061-02-6	
Enflurane	**1.6**	ug/L	1.0	1		02/15/18 20:42	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 20:42	100-41-4	
Haloether 229	**8.4**	ug/L	1.0	1		02/15/18 20:42		
Haloether 406	ND	ug/L	1.0	1		02/15/18 20:42		
Haloether 421	ND	ug/L	1.0	1		02/15/18 20:42		
Haloether 427	ND	ug/L	1.0	1		02/15/18 20:42		

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: INF-20180205 **Lab ID: 2070154002** Collected: 02/05/18 10:54 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Haloether 428	ND	ug/L	1.0	1		02/15/18 20:42		
Haloether 508	**43.1**	ug/L	1.0	1		02/15/18 20:42		
Haloether 528	ND	ug/L	1.0	1		02/15/18 20:42		
Halomar	ND	ug/L	1.0	1		02/15/18 20:42		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 20:42	591-78-6	
Isoflurane	**37.1**	ug/L	1.0	1		02/15/18 20:42		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 20:42	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 20:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 20:42	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 20:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 20:42	79-34-5	
Tetrachloroethene	**5.8**	ug/L	1.0	1		02/15/18 20:42	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 20:42	108-88-3	
Total Haloether	**90.2**	ug/L	1.0	1		02/15/18 20:42		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:42	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 20:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 20:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 20:42	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 20:42	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 20:42	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 20:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/15/18 20:42	95-47-6	
Surrogates								
Toluene-d8 (S)	96	%.	79-119	1		02/15/18 20:42	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	68-124	1		02/15/18 20:42	460-00-4	
Dibromofluoromethane (S)	102	%.	72-126	1		02/15/18 20:42	1868-53-7	

Sample: EFF-20180205 **Lab ID: 2070154003** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	**4.8**	ug/L	4.0	1		02/15/18 19:48	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 19:48	107-02-8	M1
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 19:48	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 19:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 19:48	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 19:48	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 19:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 19:48	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 19:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 19:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 19:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 19:48	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 19:48	67-66-3	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: EFF-20180205 **Lab ID: 2070154003** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		02/15/18 19:48	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 19:48	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 19:48	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 19:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 19:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 19:48	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/15/18 19:48	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 19:48	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 406	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 421	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 427	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 428	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 508	ND	ug/L	1.0	1		02/15/18 19:48		
Haloether 528	ND	ug/L	1.0	1		02/15/18 19:48		
Halomar	ND	ug/L	1.0	1		02/15/18 19:48		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 19:48	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/15/18 19:48		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 19:48	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 19:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 19:48	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 19:48	100-42-5	M1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 19:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/15/18 19:48	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 19:48	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/15/18 19:48		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 19:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 19:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 19:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 19:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 19:48	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 19:48	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 19:48	179601-23-1	M1
o-Xylene	ND	ug/L	1.0	1		02/15/18 19:48	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/15/18 19:48	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	68-124	1		02/15/18 19:48	460-00-4	
Dibromofluoromethane (S)	104	%.	72-126	1		02/15/18 19:48	1868-53-7	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: EFFDUP-20180205 **Lab ID: 2070154004** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Acetone	**12.7**	ug/L	4.0	1		02/15/18 20:24	67-64-1	
Acrolein	ND	ug/L	8.0	1		02/15/18 20:24	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/15/18 20:24	107-13-1	
Benzene	ND	ug/L	1.0	1		02/15/18 20:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/15/18 20:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/15/18 20:24	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/15/18 20:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/15/18 20:24	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/15/18 20:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/15/18 20:24	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/15/18 20:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/15/18 20:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/15/18 20:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/15/18 20:24	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/15/18 20:24	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/15/18 20:24	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/15/18 20:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/15/18 20:24	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/15/18 20:24	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/15/18 20:24	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 406	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 421	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 427	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 428	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 508	ND	ug/L	1.0	1		02/15/18 20:24		
Haloether 528	ND	ug/L	1.0	1		02/15/18 20:24		
Halomar	ND	ug/L	1.0	1		02/15/18 20:24		
2-Hexanone	ND	ug/L	2.0	1		02/15/18 20:24	591-78-6	
Isoflurane	ND	ug/L	1.0	1		02/15/18 20:24		
Methoxyflurane	ND	ug/L	1.0	1		02/15/18 20:24	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/15/18 20:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/15/18 20:24	108-10-1	
Styrene	ND	ug/L	1.0	1		02/15/18 20:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/15/18 20:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/15/18 20:24	127-18-4	
Toluene	ND	ug/L	1.0	1		02/15/18 20:24	108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/15/18 20:24		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/15/18 20:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/15/18 20:24	79-01-6	

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ANALYTICAL RESULTS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Sample: EFFDUP-20180205 **Lab ID: 2070154004** Collected: 02/05/18 11:29 Received: 02/06/18 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Method: EPA 5030B/8260							
Trichlorofluoromethane	ND	ug/L	1.0	1		02/15/18 20:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/15/18 20:24	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/15/18 20:24	76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/15/18 20:24	75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/15/18 20:24	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/15/18 20:24	95-47-6	
Surrogates								
Toluene-d8 (S)	95	%.	79-119	1		02/15/18 20:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	68-124	1		02/15/18 20:24	460-00-4	
Dibromofluoromethane (S)	100	%.	72-126	1		02/15/18 20:24	1868-53-7	

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

QC Batch: 101631 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 2070154001, 2070154002, 2070154003, 2070154004

METHOD BLANK: 437893 | Matrix: Water
Associated Lab Samples: 2070154001, 2070154002, 2070154003, 2070154004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/15/18 18:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/15/18 18:19	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/15/18 18:19	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/15/18 18:19	
1,1-Dichloroethane	ug/L	ND	1.0	02/15/18 18:19	
1,1-Dichloroethene	ug/L	ND	1.0	02/15/18 18:19	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/15/18 18:19	
1,2-Dichloroethane	ug/L	ND	1.0	02/15/18 18:19	
1,2-Dichloropropane	ug/L	ND	1.0	02/15/18 18:19	
2-Butanone (MEK)	ug/L	ND	2.0	02/15/18 18:19	
2-Hexanone	ug/L	ND	2.0	02/15/18 18:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	02/15/18 18:19	
Acetone	ug/L	ND	4.0	02/15/18 18:19	
Acrolein	ug/L	ND	8.0	02/15/18 18:19	
Acrylonitrile	ug/L	ND	4.0	02/15/18 18:19	
Benzene	ug/L	ND	1.0	02/15/18 18:19	
Bromodichloromethane	ug/L	ND	1.0	02/15/18 18:19	
Bromoform	ug/L	ND	1.0	02/15/18 18:19	
Bromomethane	ug/L	ND	1.0	02/15/18 18:19	
Carbon disulfide	ug/L	ND	1.0	02/15/18 18:19	
Carbon tetrachloride	ug/L	ND	1.0	02/15/18 18:19	
Chlorobenzene	ug/L	ND	1.0	02/15/18 18:19	
Chloroethane	ug/L	ND	1.0	02/15/18 18:19	
Chloroform	ug/L	ND	1.0	02/15/18 18:19	
Chloromethane	ug/L	ND	1.0	02/15/18 18:19	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/15/18 18:19	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/15/18 18:19	
Dibromochloromethane	ug/L	ND	1.0	02/15/18 18:19	
Dibromomethane	ug/L	ND	1.0	02/15/18 18:19	
Enflurane	ug/L	ND	1.0	02/15/18 18:19	
Ethylbenzene	ug/L	ND	1.0	02/15/18 18:19	
Haloether 229	ug/L	ND	1.0	02/15/18 18:19	
Haloether 406	ug/L	ND	1.0	02/15/18 18:19	
Haloether 421	ug/L	ND	1.0	02/15/18 18:19	
Haloether 427	ug/L	ND	1.0	02/15/18 18:19	
Haloether 428	ug/L	ND	1.0	02/15/18 18:19	
Haloether 508	ug/L	ND	1.0	02/15/18 18:19	
Haloether 528	ug/L	ND	1.0	02/15/18 18:19	
Halomar	ug/L	ND	1.0	02/15/18 18:19	
Isoflurane	ug/L	ND	1.0	02/15/18 18:19	
m&p-Xylene	ug/L	ND	2.0	02/15/18 18:19	

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

METHOD BLANK: 437893 Matrix: Water
Associated Lab Samples: 2070154001, 2070154002, 2070154003, 2070154004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L	ND	1.0	02/15/18 18:19	
Methylene Chloride	ug/L	ND	5.0	02/15/18 18:19	
o-Xylene	ug/L	ND	1.0	02/15/18 18:19	
Styrene	ug/L	ND	1.0	02/15/18 18:19	
Tetrachloroethene	ug/L	ND	1.0	02/15/18 18:19	
Toluene	ug/L	ND	1.0	02/15/18 18:19	
Total Haloether	ug/L	ND	1.0	02/15/18 18:19	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/15/18 18:19	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/15/18 18:19	
Trichloroethene	ug/L	ND	1.0	02/15/18 18:19	
Trichlorofluoromethane	ug/L	ND	1.0	02/15/18 18:19	
Vinyl chloride	ug/L	ND	1.0	02/15/18 18:19	
4-Bromofluorobenzene (S)	%.	105	68-124	02/15/18 18:19	
Dibromofluoromethane (S)	%.	101	72-126	02/15/18 18:19	
Toluene-d8 (S)	%.	97	79-119	02/15/18 18:19	

LABORATORY CONTROL SAMPLE: 437894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.3	99	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	46.7	93	15-179	
1,1,2-Trichloroethane	ug/L	50	49.3	99	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	50.1	100	38-121	
1,1-Dichloroethane	ug/L	50	48.3	97	63-129	
1,1-Dichloroethene	ug/L	50	47.7	95	51-139	
1,2,3-Trichloropropane	ug/L	50	47.0	94	13-187	
1,2-Dichloroethane	ug/L	50	44.7	89	57-148	
1,2-Dichloropropane	ug/L	50	46.5	93	66-128	
2-Butanone (MEK)	ug/L	50	46.6	93	32-183	
2-Hexanone	ug/L	50	42.8	86	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	45.1	90	26-171	
Acetone	ug/L	50	44.3	89	22-165	
Acrolein	ug/L	50	46.2	92	10-131	
Acrylonitrile	ug/L	50	51.3	103	18-149	
Benzene	ug/L	50	46.2	92	62-131	
Bromodichloromethane	ug/L	50	49.9	100	69-132	
Bromoform	ug/L	50	47.1	94	35-166	
Bromomethane	ug/L	50	47.5	95	34-158	
Carbon disulfide	ug/L	50	49.6	99	31-128	
Carbon tetrachloride	ug/L	50	51.6	103	54-144	
Chlorobenzene	ug/L	50	50.1	100	70-127	
Chloroethane	ug/L	50	44.6	89	17-195	
Chloroform	ug/L	50	48.2	96	73-134	
Chloromethane	ug/L	50	35.2	70	17-153	

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

LABORATORY CONTROL SAMPLE: 437894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	50.5	101	68-129	
cis-1,3-Dichloropropene	ug/L	50	46.2	92	72-138	
Dibromochloromethane	ug/L	50	53.4	107	49-146	
Dibromomethane	ug/L	50	46.4	93	56-145	
Enflurane	ug/L	50	53.8	108	56-135	
Ethylbenzene	ug/L	50	47.1	94	66-126	
Haloether 229	ug/L	50	47.5	95	62-123	
Haloether 406	ug/L	50	51.9	104	62-134	
Haloether 421	ug/L	50	46.7	93	70-128	
Haloether 427	ug/L	50	50.2	100	69-153	
Haloether 428	ug/L	50	48.8	98	70-134	
Haloether 508	ug/L	50	57.4	115	52-139	
Haloether 528	ug/L	50	46.6	93	48-157	
Halomar	ug/L	50	50.4	101	62-128	
Isoflurane	ug/L	50	52.2	104	61-132	
m&p-Xylene	ug/L	100	99.3	99	65-129	
Methoxyflurane	ug/L	50	46.7	93	72-124	
Methylene Chloride	ug/L	50	52.1	104	46-168	
o-Xylene	ug/L	50	49.4	99	65-124	
Styrene	ug/L	50	51.1	102	72-133	
Tetrachloroethene	ug/L	50	53.2	106	46-157	
Toluene	ug/L	50	46.2	92	69-126	
Total Haloether	ug/L		552			
trans-1,2-Dichloroethene	ug/L	50	52.0	104	60-129	
trans-1,3-Dichloropropene	ug/L	50	48.3	97	59-149	
Trichloroethene	ug/L	50	48.9	98	67-132	
Trichlorofluoromethane	ug/L	50	51.5	103	39-171	
Vinyl chloride	ug/L	50	42.0	84	27-149	
4-Bromofluorobenzene (S)	%.			103	68-124	
Dibromofluoromethane (S)	%.			104	72-126	
Toluene-d8 (S)	%.			99	79-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437895 437896

Parameter	Units	2070154003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	54.7	51.2	109	102	54-137	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.4	44.8	99	90	15-187	10	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.6	48.2	105	96	59-148	9	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	56.0	52.8	112	106	40-117	6	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.7	48.4	99	97	59-133	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	53.6	49.7	107	99	44-146	8	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	50.3	44.3	101	89	14-199	13	20	
1,2-Dichloroethane	ug/L	ND	50	50	49.0	44.2	98	88	56-154	10	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.3	46.1	101	92	62-135	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437895 437896

Parameter	Units	2070154003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Butanone (MEK)	ug/L	ND	50	50	46.4	45.6	93	91	20-205	2	20	
2-Hexanone	ug/L	ND	50	50	45.7	41.9	91	84	25-189	9	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50	50	47.3	43.8	95	88	23-184	8	20	
Acetone	ug/L	4.8	50	50	60.7	54.8	112	100	11-217	10	20	
Acrolein	ug/L	ND	50	50	ND	ND	0	0	10-142		20	M1
Acrylonitrile	ug/L	ND	50	50	48.1	46.9	96	94	20-164	3	20	
Benzene	ug/L	ND	50	50	51.5	46.5	103	93	52-141	10	20	
Bromodichloromethane	ug/L	ND	50	50	54.0	48.4	108	97	70-134	11	20	
Bromoform	ug/L	ND	50	50	49.8	46.5	98	92	37-171	7	20	
Bromomethane	ug/L	ND	50	50	54.0	50.5	108	101	34-155	7	20	
Carbon disulfide	ug/L	ND	50	50	58.8	53.1	118	106	28-130	10	20	
Carbon tetrachloride	ug/L	ND	50	50	59.5	54.0	119	108	48-146	10	20	
Chlorobenzene	ug/L	ND	50	50	54.3	51.3	109	103	67-129	6	20	
Chloroethane	ug/L	ND	50	50	49.6	47.4	99	95	12-192	5	20	
Chloroform	ug/L	ND	50	50	52.0	50.1	104	100	66-143	4	20	
Chloromethane	ug/L	ND	50	50	46.3	42.0	93	84	14-155	10	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	55.6	52.6	111	105	56-141	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	50.1	45.9	100	92	70-139	9	20	
Dibromochloromethane	ug/L	ND	50	50	55.8	52.2	112	104	50-150	7	20	
Dibromomethane	ug/L	ND	50	50	51.4	45.2	103	90	58-153	13	20	
Enflurane	ug/L	ND	50	50	57.1	54.7	114	109	63-126	4	20	
Ethylbenzene	ug/L	ND	50	50	51.4	48.7	103	97	57-135	5	20	
Haloether 229	ug/L	ND	50	50	54.7	51.2	109	102	56-127	7	20	
Haloether 406	ug/L	ND	50	50	56.2	52.6	112	105	68-128	7	20	
Haloether 421	ug/L	ND	50	50	53.2	48.0	106	96	74-120	10	20	
Haloether 427	ug/L	ND	50	50	55.9	53.5	112	107	78-120	5	20	
Haloether 428	ug/L	ND	50	50	54.4	51.9	109	104	74-125	5	20	
Haloether 508	ug/L	ND	50	50	61.2	54.8	122	110	28-156	11	20	
Haloether 528	ug/L	ND	50	50	45.4	40.9	91	82	45-142	11	20	
Halomar	ug/L	ND	50	50	54.4	51.2	109	102	67-123	6	20	
Isoflurane	ug/L	ND	50	50	56.1	54.7	112	109	45-140	3	20	
m&p-Xylene	ug/L	ND	100	100	46.6	45.7	47	46	56-136	2	20	M1
Methoxyflurane	ug/L	ND	50	50	52.4	47.8	105	96	75-119	9	20	
Methylene Chloride	ug/L	ND	50	50	54.8	52.0	110	104	45-166	5	20	
o-Xylene	ug/L	ND	50	50	45.3	42.4	91	85	57-133	6	20	
Styrene	ug/L	ND	50	50	ND	ND	0	0	58-144		20	M1
Tetrachloroethene	ug/L	ND	50	50	57.5	54.6	115	109	48-143	5	20	
Toluene	ug/L	ND	50	50	49.7	45.5	99	91	59-136	9	20	
Total Haloether	ug/L	ND			601	561				7		
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.3	53.9	115	108	57-132	6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	52.4	46.8	105	94	59-154	11	20	
Trichloroethene	ug/L	ND	50	50	55.0	50.4	110	101	58-140	9	20	
Trichlorofluoromethane	ug/L	ND	50	50	57.3	55.0	115	110	24-175	4	20	
Vinyl chloride	ug/L	ND	50	50	34.4	31.8	69	64	21-150	8	20	
4-Bromofluorobenzene (S)	%.						101	102	68-124			

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QUALITY CONTROL DATA

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 437895 437896

Parameter	Units	2070154003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%.						102	105	72-126			
Toluene-d8 (S)	%.						98	98	79-119			

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QUALIFIERS

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Fibers Public Supply Wells
Pace Project No.: 2070154

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2070154001	**TB-20180205**	EPA 5030B/8260	101631		
2070154002	**INF-20180205**	EPA 5030B/8260	101631		
2070154003	**EFF-20180205**	EPA 5030B/8260	101631		
2070154004	**EFFDUP-20180205**	EPA 5030B/8260	101631		

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CHAIN-OF-CUSTODY / Analytical Request Docun

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be co

WO# : 2070154

2070154

Section A
Required Client Information:

Company:	Arcadis
Address:	#48 City View Plaza 1 Suite 401
	Rd 165 KM 1.2, Guaynabo, PR 00968
Email:	
Phone:	Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	Elvin Varela
Copy To:	
Purchase Order #:	
Project Name:	Fibers Public Supply Well (PO#CO001911.000
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	craig.mccollum@pacelabs.com,
Pace Profile #:	1037 L1

Regulatory Agency

State / Location
PR

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC 8260	VOC 8260-Trip Blank	Residual Chlorine (Y/N)
1	TB-20180205	WT	G	—	—	02/05/18	[illegible]		2				2							X	
2	INF-20180205	WT	G	—	—	02/05/18	1054		3				3						X		
3	EFF-2018-0205	WT	G	—	—	02/05/18	1129		3				3						X		
4	EFFDUP-20180205	WT	G	—	—	02/05/18	1129		3				3						X		
5	EFFMS-20180205	WT	G	—	—	02/05/18	1129		3				3						X		
6	EFFMSD-20180205	WT	G	—	—	02/05/18	1129		3				3						X		
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] /ARCADIS	2-5-18	15:50	[signature] /Pace	2-5-18	1550	3°	Y	N	Y
	[signature]	2/5/18	17:00	[signature]						
	Fed Ex	2/6/18	0845	[signature] Fed Ex	2/6/18	0845	03	Y	Y	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Elvin Varela
SIGNATURE of SAMPLER:	[signature]
DATE Signed:	02/05/18

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical

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St. Rose, LA 70087

Sample Condition Upon Recei

Project #

WO#: 2070154

PM: CJM **Due Date: 02/20/18**
CLIENT: 20-CHEV-ARC

Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☒ Yes ☐ No

Therometer Used: ☐ Therm Fisher IR 5 ☐ Therm Fisher IR 6 ☒ Therm Fisher IR 7

Type of Ice: (Wet) Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/6/18 RC

Temp must be measured from Temperature blank when present

				Comments:
Temperature Blank Present"?	☐ Yes	☒ No	☐ N/A	1
Chain of Custody Present:	☒ Yes	☐ No	☐ N/A	2
Chain of Custody Complete:	☒ Yes	☐ No	☐ N/A	3
Chain of Custody Relinquished:	☒ Yes	☐ No	☐ N/A	4
Sampler Name & Signature on COC:	☒ Yes	☐ No	☐ N/A	5
Samples Arrived within Hold Time:	☒ Yes	☐ No	☐ N/A	6
Sufficient Volume:	☒ Yes	☐ No	☐ N/A	7
Correct Containers Used:	☒ Yes	☐ No	☐ N/A	8
Filtered vol. Rec. for Diss. tests	☐ Yes	☐ No	☒ N/A	9
Sample Labels match COC:	☒ Yes	☐ No	☐ N/A	10
All containers received within manafacture's precautionary and/or expiration dates.	☒ Yes	☐ No	☐ N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☐ Yes	☐ No	☒ N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐ Yes	☐ No	☒ N/A	13 — If No, was preserative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes	☒ No	☐ N/A	14
Trip Blank Present:	☒ Yes	☐ No		15

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Attachment 3
Data Review Report #29338R

Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #246718 (WO 655-04-26)
Analyses Performed By:
eqlab - Environmental Quality Laboratories, Inc.
San Juan, Puerto Rico

Report: #29338R
Review Level: Tier II
Project: CO001911.0005.1705A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #246718 (WO 655-04-26) for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	TPH	MET	MISC
EFF-20180205	2801147	Water	02/05/2018		X				
EFF–DUP-20180205	2801148	Water	02/05/2018	EFF-20180205	X				
INF-20180205	2801151	Water	02/05/2018		X				
TRIP BLANK	2801152	Water	02/05/2018		X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20180205.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

  U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the RL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
EFF-20180205	1,1-Dichloropropene	< LL but > 10%	< LL but > 10%
	4-Isopropyltoluene		
	Acrolein		
	Naphthalene		
	Vinyl Acetate		
	m,p-Xylene		
	n-Butylbenzene		
	o-Xylene		
	trans-1,4-Dichloro-2-butene		
	2-Chlorotoluene	AC	< LL but > 10%
	Isopropylbenzene		
	Vinyl Chloride		
	sec-Butylbenzene		
	Iodomethane	<10%	<10%
	Styrene		
	1,2,4-Trimethylbenzene		
	Vinyl Acetate		
	1,3,5-Trimethylbenzene	AC	<10%

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
	Detect	J
< 10%	Non-detect	R
	Detect	J
Parent sample concentration > four times the MS/MSD spiking solution concentration.	Detect	No Action
	Non-detect	

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20180205/ EFF–DUP-20180205	All compounds	U	U	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Note: 2-Chloroethyl vinyl ether degrades in the presence of acid. Since the samples were preserved with acid to a pH of less than 2, the not detected results for 2-chloroethyl vinyl ether were rejected for all samples within this SDG.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment/Field blanks					X
C. Trip blanks		X		X	
Laboratory Control Sample (LCS) Accuracy (%R)		X		X	
Laboratory Control Sample Duplicate (LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision RPD		X		X	
Field/Laboratory Duplicate Sample RPD		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X

%R Percent recovery
RPD Relative percent difference
%RSD Relative standard deviation
%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: _____

DATE: February 28, 2018

PEER REVIEW: Dennis Capria

DATE: March 1, 2018

CHAIN OF CUSTODY/
ANNOTATED SAMPLE ANALYSIS DATA SHEETS

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801147**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U J	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~1.2~~	~~3.0~~	~~--~~	~~02/06/2018~~	~~18:13~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~1.2~~	~~3.0~~	~~--~~	~~02/06/2018~~	~~18:13~~	~~KMOR~~	~~02/06/2018~~		~~EPA 5030B~~ R

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801147**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~	~~--~~	~~02/06/2018~~	~~18:13~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
2-Chlorotoluene	EPA 8260B	ND	µg/L	U J	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U J	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	BDL	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U J	25.0	75.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

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To: ARCADIS CARIBE, PSC
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ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801147**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

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Laboratory Test Report

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Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~8.0~~	~~15.0~~	~~--~~	~~02/06/2018~~	~~18:13~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
Isopropylbenzene	EPA 8260B	ND	µg/L	U J	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U J	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~1.2~~	~~3.0~~	~~--~~	~~02/06/2018~~	~~18:13~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~	~~--~~	~~02/06/2018~~	~~18:13~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
Vinyl chloride	EPA 8260B	ND	µg/L	U J	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U J	1.8	6.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

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GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
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Client Ref. #: N/A

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Laboratory Test Report

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Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U J	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U J	2.3	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U J	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U J	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Asociado de Puerto Rico LICENCIA NUM. 4 8

Certified by Laboratory Director

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Client Ref. #: N/A

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Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~	~~--~~	~~02/06/2018~~	~~18:39~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	BDL	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits			Analysis			Prep Method		
					MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87785 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165. KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 4538

Certified by Laboratory Director

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO. PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018**	10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018**	10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~	~~--~~	~~02/06/2018~~	~~17:47~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	6.20	µg/L	J	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	4.90	µg/L	--	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
+ Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	BDL	µg/L	U	1.5	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 238

Certified by Laboratory Director

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO. PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	~~ND~~	~~µg/L~~	~~U~~	~~6.0~~	~~15.0~~		~~02/06/2018~~	~~17:21~~	~~KMOR~~	~~02/06/2018~~	~~--~~	~~EPA 5030B~~ R
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

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To: ARCADIS CARIBE, PSC
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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

	Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
	Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
+	Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
	m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ
Quimico Licenciado
Colegio de Quimicos de Puerto Rico
Libre Asociado de Puerto Rico
LICENCIA NUM. 4533

Certified by Laboratory Director

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

2018-02079

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

CLIENT NAME: ARCADIS CARIBE, PSC | CLIENT ID: 655-04 | W.O. #: 26 | SITE: GUAYAMA, PR | CLIENT REP: MR. ELVIN VARELA

P.O. #: 507 | PWSID #: | FOLDER #: 246718 | PROJECT: GUAYAMA PROJECT | EQLAB REP: EGARCIA

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: 2801147-1 MATRIX: GROUND WATER SOURCE: EFFLUENT, GUAYAMA, PR EFF-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801148-1 MATRIX: GROUND WATER DUP SOURCE: EFFLUENT-DUPLICATE, GUAYAMA, PR EFFDUP-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801149-1 MATRIX: GROUND WATER MS SOURCE: EFFLUENT-MS, GUAYAMA, PR EFFMS-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801150-1 MATRIX: GROUND WATER MSD SOURCE: EFFLUENT-MSD, GUAYAMA, PR EFFMSD-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:		02/05/18	~~1135~~
Fixed in field by:		02/05/18	varias
Authorized by:	N	N	N
Received by EQLF:	A	A	A
Released to EQLL by:		2-5-18	1525
Received by EQLL:		2-5-18	1525

SPECIAL INSTRUCTIONS / COMMENTS:
varias QA/QC level II Report

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

Arrival Temperature: 3.0°C Signature:

Eqlab's general terms and conditions on reverse side of this document.

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

2018-02079

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

CLIENT NAME: ARCADIS CARIBE, PSC | CLIENT ID: 655-04 | W.O. #: 26 | SITE: GUAYAMA, PR | CLIENT REP: MR. ELVIN VARELA

P.O. #: 507 | PWSID #: | FOLDER #: 246718 | PROJECT: GUAYAMA PROJECT | EQLAB REP: EGARCIA

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: 2801151-1 MATRIX: DI WATER SOURCE: INFLUENT, GUAYAMA, PR INF-20180205	DATE: 02/05/18 TIME: 1055 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801152-1 MATRIX: DI WATER SOURCE: TRIP BLANK, GUAYAMA, PR	DATE: 02/05/18 TIME: LAB TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:		02/05/18	~~1055~~ varias
Fixed in field by:		02/05/18	varias
Authorized by:	N	N	N
Received by EQLF:	A	A	A
Released to EQLL by:		2-5-18	1525
Received by EQLL:		2-5-18	1525

SPECIAL INSTRUCTIONS / COMMENTS: QA/QC Level II Report

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

Arrival Temperature: 3.0°C Signature:

Eqlab's general terms and conditions on reverse side of this document.

Attachment 4
EQLAB Laboratory Analytical Report #246718 (WO 655-04-26)

Quality Assurance Report

Prepared for:
ARCADIS CARIBE, PSC

Facility:
GUAYAMA PROJECT

Project
INTERNAL

Samples Received:
February 05, 2018

Folder Number:
246718

W.O. #:
655-04-26

ENVIRONMENTAL QUALITY LABORATORIES, INC.

February 26, 2018

ARCADIS CARIBE, PSC.
#48 CITY VIEW PLAZA1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: Mr. ELVIN VARELA

Re: Quality Assurance Report for the samples received on February 05, 2018

Dear Mr. Varela

Enclosed you will find the Quality Assurance Report for the samples received on February 05, 2018 for the INTERNAL Project. The QC data submitted reflects the precision and accuracy of the analyzed samples.

Please feel free to contact us if you require any further information.

Cordially,

Environmental Quality Laboratories, Inc.

Janet Gómez Rosario

Lic. Janet Gómez-Rosario
QA/QC Supervisor

TABLE OF CONTENTS

Section	Description
1	Quality Assurance Narrative
2	Laboratory Test Report
3	Analytical Test Results Quality Assurance Report

List of Appendices

Appendix	Description
A	Chain of Custody Documentation
B	Raw Data Worksheets

SECTION 1
QUALITY ASSURANCE NARRATIVE

QUALITY ASSURANCE NARRATIVE

OVERVIEW

On February 05, 2018 Environmental Quality Laboratories, Inc. received from ARCADIS CARIBE, PSC, five Ground Water and one DI Water samples. The samples were collected at the Guayama facility February 05, 2018, for the Internal Project. The samples were analyzed for EPA 8260B VOC. The samples were received in good condition (3° C) and stored at 4 °C ± 2 °C in the refrigerator until the time of analysis. The following table shows the sample sources and the EQLAB sample number assigned to your sample upon receipt:

SAMPLE #	SOURCE	MATRIX
2801147	EFF-20180205	GROUND WATER
2801148	EFF – DUP-20180205	GROUND WATER
2801149	EFF – MS-20180205	GROUND WATER
2801150	EFF – MSD-20180205	GROUND WATER
2801151	INF-20180205	GROUND WATER
2801152	TRIP BLANK	DI WATER

In the Appendices you will find copies of the supporting documentation of your samples. Appendix A contains the Chain of Custody Documentation and Appendix B contains the Raw Data Worksheets. Appendix C contains the Proficiency Test Result.

Quality Control Remarks

The QC data has been released after being subjected to a series of inspections. General deviations are summarized below. Specific QC issues associated with your samples are:

Sample Collection: All samples were collected by the client personnel. EQLab personnel did not find any deviations about of this item.

Sample Management: EQ Lab did not find any deviation about this item.

Sample Preparation: EQ Lab did not find any deviation about this item.

.

Laboratory Test Report: EQ Lab did not find any deviation about this item.

Sample Analysis: **VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS) EPA 8260B VOC Rev. 2, December 1996**

Run # 195945

Analysis Date: February 06, 2018

Sample	Analyte	Deviation	Recovery	Range
2801149/MS	1,1-Dichloropropene	00S	77.5%	83-110%
	1,2,4-Trimethylbenzene	00S	8%	52-141%
	4-Isopropyltoluene	00S	48%	66-129%
	Acrolein	00S	34.1%	47-157%
	Iodomethane	00S	4.17%	45-148%
	Naphthalene	00S	27%	66-135%
	Styrene	00S	0	65-123%
	Vinyl Acetate	00S	0	52-141%
	m,p-Xylene	00S	30.9%	56-145%
	n-Butylbenzene	00S	64.7%	72-114%
	o-Xylene	00S	40.6%	54-143%
	trans-1,4-Dichloro-2-butene	00S	23.3	47-129%

Run # 194935

Analysis Date: February 06, 2018

Sample	Analyte	Deviation	Recovery	Range
2801150/MSD	1,1-Dichloropropene	00S	75%	83-110%
	1,2,4-Trimethylbenzene	00S	7.25%	52-141%
	1,3,5-Trimethylbenzene	00S	0	61-125%
	2-Chloroethyl vinyl ether	00S	0	10-178%
	2-Chlorotoluene	00S	62.8%	64-139%
	4-Isopropyltoluene	00S	51.9%	66-129%
	Acrolein	00S	35.4%	47-157%
	Iodomethane	00S	4.02%	45-148%
	Isopropylbenzene	00S	55.9%	64-122%
	Naphthalene	00S	24.7%	66-135%
	Styrene	00S	0	65-123%
	Vinyl Acetate	00S	0	52-141%
	Vinyl chloride	00S	29.5%	39-151%
	m,p-Xylene	00S	31.2%	56-145%
	n-Butylbenzene	00S	60.7%	74-114%
	o-Xylene	00S	42.1%	54-143%
	sec-Butylbenzene	00S	61.2%	64-114%
	trans-1,4-Dichloro-2-butene	00S	24.2%	47-129%

Explanation: For the above samples (**2801149/MS** and **2801150/MSD**) the analytes 00S there it's a possible Matrix Spike Interference since the analytes have acceptable recoveries in the **2804371/LFB**. See the following table.

Run # 194935

Analysis Date: February 06, 2018

Sample	Analyte	Recovery	Range
2804371/LFB	1,1-Dichloropropene	95%	6 7-131%
	1,2,4-Trimethylbenzene	87.5%	63-129%
	1,3,5-Trimethylbenzene	93.0%	68-123%
	2-Chloroethyl vinyl ether	71.6%	47-143%
	2-Chlorotoluene	89.5%	66-127%
	4-Isopropyltoluene	89%	68-131%
	Acrolein	121%	40-143%
	Iodomethane	121%	54-143%
	Isopropylbenzene	88%	69-121%
	Naphthalene	77.5%	71-134%
	Styrene	86.5%	65-127%
	Vinyl Acetate	81.7%	53-144%
	Vinyl chloride	114%	52-140%
	m,p-Xylene	88.8%	63-130%
	n-Butylbenzene	88.5%	67-127%
	o-Xylene	85.5%	66-124%
	sec-Butylbenzene	93.5%	66-122%
	trans-1,4-Dichloro-2-butene	80.7%	53-123%

General Comments

The analysis was performed in accordance with the latest Environmental Protection Agency and Standard Method for the Examination of Water and Wastewater Approved Methodology. All the results associated with quality control samples were found within acceptable criteria established for these parameters. After reviewing the documentation mentioned above we conclude that the data presented herein is valid and acceptable.

Formulas:

1. RPD = Relative Percent Difference

All Duplicates (DUP, MSD and LFBD) are calculated as follow:

$$RPD = \left\{ \frac{(\text{Final Result QC}) - (\text{Final Result Ref})}{\frac{(\text{Final Result QC}) + (\text{Final Result Ref})}{2}} \right\} \times 100$$

RPD is reported N.C. when the (value of Final Result) < 10X (value of MDL)

RPD General Acceptance criteria is (≤ 20%) for all matrices except Solid / Soil (≤ 40%)

$RPD_{Micro} = (\text{Log}_{10}\ \text{Final Result QC}) - (\text{Log}_{10}\ \text{Final Result Ref})$ which is expressed as Precision.

2. The % of Recovery is calculated as follow:

$$\%\ Rec = \left\{ \frac{(\text{Final Result QC})}{\text{Amount Added of QC}} \right\} \times 100$$

3. The % of Recovery for MS and MSD is calculated as follow:

$$\% \text{ Rec} = \left\{ \frac{(\text{Final Result QC}) - (\text{Final Result Ref})}{\text{Amount Added of QC}} \right\} \times 100$$

Marcelino Benitez

Prepared By:
Lcdo. Marcelino Benítez
QA/QC Coordinador Licensed

February 26, 2018
Date

Janet Gómez Rosario

Checked by:
Lcda. Janet Gómez
QA/QC Supervisor

February 26, 2018
Date

SECTION 2
LABORATORY TEST REPORT

February 15, 2018

MR. ELVIN VARELA

ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165 KM 1.2
GUAYNABO PR 00968

I hereby certify that the results reported for EQ Lab Samples from 2801147 to 2801152 have been reviewed by me and are correct as presented herein.

Lcda Sonia Pichardo Rodriguez
Certified by Laboratory Director

SONIA PICHARDO RODRIGUEZ
Químico Licenciado
Estado Libre Asociado de Puerto Rico
LICENCIA NUM. 4538
A 1656673

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801147**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801147**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	BDL	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

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Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

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EPA ID PR00014

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Source: **EFF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801147**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

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Description: GROUND WATER - Grab
Client Ref. #: N/A

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Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:13	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 4

Certified by Laboratory Director

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Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

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Laboratory Test Report

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Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	BDL	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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PRDOH Certified
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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

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Attn: MR. ELVIN VARELA
Source: **EFF DUP-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801148**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	18:39	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 5338

Certified by Laboratory Director

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GUAYAMA, PR

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Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

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Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	88.0	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	99.0	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	85.0	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	94.6	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	101	%	--	2.0	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	90.0	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	77.5	%	Q	1.4	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	78.3	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	80.8	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	77.8	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	8.00	%	Q	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	68.7	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	86.7	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	103	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	86.2	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	%	U	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B

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GUAYAMA, PR

Project Name: INTERNO
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Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801149**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	78.1	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	88.6	%	--	2.0	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	81.6	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	65.0	%	--	1.5	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	103	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	95.6	%	--	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	%	U	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	66.3	%	--	1.4	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	78.7	%	--	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	75.2	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	48.0	%	Q	1.4	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	88.8	%	--	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	113	%	--	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	34.1	%	Q	25.0	75.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	90.0	%	--	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	89.9	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MS-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801149**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	80.5	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	104	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	104	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	67.2	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	54.1	%	--	2.0	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	96.0	%	--	7.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	103	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	82.5	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	110	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	106	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	117	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	85.3	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	85.4	%	--	1.5	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	58.0	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	130	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	80.6	%	--	30.0	75.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MS-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801149**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Ethylbenzene	EPA 8260B	70.9	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	85.0	%	--	1.4	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	4.17	%	Q	8.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	64.4	%	--	2.0	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	27.0	%	Q	2.0	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	%	Q	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	85.1	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	88.3	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	69.1	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	86.2	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	118	%	--	1.5	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	%	Q	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	45.8	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	86.9	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	67.2	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	30.9	%	Q	1.8	6.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B

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EPA ID PR00014

To: ARCADIS CARIBE, PSC
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ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MS-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801149**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	64.7	%	Q	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	67.8	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	81.5	%	--	1.0	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	40.6	%	Q	2.3	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	70.6	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	73.7	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	95.5	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	74.3	%	--	1.2	3.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	23.3	%	Q	6.0	15.0	--	02/06/2018	19:05	KMOR	02/06/2018	--	EPA 5030B

ONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 4538

Certified by Laboratory Director

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MSD-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801150**	Collected Date & Time:	**02/05/2018** 11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	78.0	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	94.0	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	81.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	91.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	102	%	--	2.0	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	87.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	75.0	%	Q	1.4	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	78.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	77.9	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	77.6	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	7.25	%	Q	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	71.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	85.6	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	101	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	85.6	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	%	Q	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B

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ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MSD-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801150**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	73.6	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	85.8	%	--	2.0	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	85.2	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	74.4	%	--	1.5	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	97.6	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	93.5	%	--	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	%	Q	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	62.8	%	Q	1.4	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	73.6	%	--	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	77.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	51.9	%	Q	1.4	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	84.3	%	--	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	113	%	--	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	35.4	%	Q	25.0	75.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	85.5	%	--	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	88.0	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B

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Source: **EFF MSD-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab
ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801150**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	70.4	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	94.0	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	102	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	62.7	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	58.3	%	--	2.0	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	96.6	%	--	7.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	96.2	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	72.6	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	118	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	106	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	117	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	81.9	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	85.8	%	--	1.5	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	60.7	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	133	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	78.5	%	--	30.0	75.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MSD-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801150**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	66.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	89.5	%	--	1.4	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	4.02	%	Q	8.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	55.9	%	Q	2.0	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	24.7	%	Q	2.0	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	%	Q	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	79.8	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Tetrahydrofuran	EPA 8260B	85.0	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	70.0	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	85.1	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	123	%	--	1.5	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	%	Q	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	29.5	%	Q	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	81.9	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	68.2	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	31.2	%	Q	1.8	6.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B

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EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **EFF MSD-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801150**	Collected Date & Time:	**02/05/2018**	11:35	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	60.7	%	Q	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	68.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	82.4	%	--	1.0	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	42.1	%	Q	2.3	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	61.2	%	Q	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	71.2	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	86.5	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	72.9	%	--	1.2	3.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	24.2	%	Q	6.0	15.0	--	02/06/2018	19:31	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 4538

Certified by Laboratory Director

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PRDOH Certified
EPA ID PR00014

ENVIRONMENTAL QUALITY LABORATORIES, INC.
60 E STREET, MINILLAS INDUSTRIAL PARK, BAYAMÓN, PR 00959
PO BOX 11458 SANTURCE, PR 00910-1458 TEL. (787) 288-6420 FAX (787) 288-6465 www.eqlab.com

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits			Analysis			Prep Method		
					MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

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EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	6.20	µg/L	J	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

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Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

Parameter	Method	Results	Units	DQ	Limits MDL	Limits MRL	Limits MCL	Analysis Date	Analysis Time	Analysis By	Prep Method Date	Prep Method By	Prep Method Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	BDL	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

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Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
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Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	4.90	µg/L	--	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
+ Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	BDL	µg/L	U	1.5	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac

The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **INF-20180205**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: GROUND WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801151**	Collected Date & Time:	**02/05/2018** 10:55	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:47	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Estado Libre Asociado de Puerto Rico LICENCIA NUM. 4538

Certified by Laboratory Director

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MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1,1-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1,2-Trichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,1-Dichloropropene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,3-Trichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2,4-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromo-3-chloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dibromoethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,3,5-Trimethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample.
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ACCREDITED IN ACCORDANCE WITH nelac
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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
1,3-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,3-Dichloropropane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1,4-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
1-Chlorohexane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2,2-Dichloropropane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Butanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Chloroethyl vinyl ether	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
2-Hexanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
4-Chlorotoluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
4-Isopropyltoluene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
4-Methyl-2-pentanone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Acetone	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Acrolein	EPA 8260B	ND	µg/L	U	25.0	75.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Acrylonitrile	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Benzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

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PRDOH Certified
EPA ID PR00014

To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Bromobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromodichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromoform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Bromomethane	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Carbon disulfide	EPA 8260B	ND	µg/L	U	7.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Carbon tetrachloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chlorobenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chloroethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chloroform	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Chloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dibromochloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dibromomethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dichlorodifluoromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Dichloromethane	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Epichlorohydrin	EPA 8260B	ND	µg/L	U	30.0	75.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

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To: ARCADIS CARIBE, PSC
#48 CITY VIEW PLAZA 1, SUITE 401
ROAD 165, KM 1.2
GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018** 10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018 15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C	Eqlab Rep.:	EGARCIA
Folder Number:	246718			Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
Ethylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Hexachlorobutadiene	EPA 8260B	ND	µg/L	U	1.4	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Iodomethane	EPA 8260B	ND	µg/L	U	8.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Isopropylbenzene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Naphthalene	EPA 8260B	ND	µg/L	U	2.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Styrene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Tetrachloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
+ Tetrahydrofuran	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Toluene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Trichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Trichlorofluoromethane	EPA 8260B	ND	µg/L	U	1.5	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Vinyl Acetate	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
Vinyl chloride	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
cis-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
cis-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
m,p-Xylene	EPA 8260B	ND	µg/L	U	1.8	6.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

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GUAYNABO, PR 00968

Attn: MR. ELVIN VARELA
Source: **TRIP BLANK**
GUAYAMA, PR

Project Name: INTERNO
Facility: GUAYAMA PROJECT
Description: DI WATER - Grab
Client Ref. #: N/A

eqlab ENVIRONMENTAL QUALITY LABORATORIES, INC.

Laboratory Test Report

Sample Number:	**2801152**	Collected Date & Time:	**02/05/2018**	10:00	Date of Report:	02/15/2018
Work Order:	655-04-26	Received Date & Time:	02/05/2018	15:25	Collected By:	EVARELA
Delivery Slip:	2018-02079	Temperature at Arrival:	3.0 °C		Eqlab Rep.:	EGARCIA
Folder Number:	246718				Proposal Number:	20805 - 1

Remarks:

					Limits			Analysis			Prep Method		
Parameter	Method	Results	Units	DQ	MDL	MRL	MCL	Date	Time	By	Date	By	Method
n-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
n-Propylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
o-Dichlorobenzene	EPA 8260B	ND	µg/L	U	1.0	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
o-Xylene	EPA 8260B	ND	µg/L	U	2.3	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
sec-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
tert-Butylbenzene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
trans-1,2-Dichloroethene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
trans-1,3-Dichloropropene	EPA 8260B	ND	µg/L	U	1.2	3.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B
trans-1,4-Dichloro-2-butene	EPA 8260B	ND	µg/L	U	6.0	15.0	--	02/06/2018	17:21	KMOR	02/06/2018	--	EPA 5030B

SONIA PICHARDO RODRIGUEZ Químico Licenciado Libre Asociado de Puerto Rico LICENCIA NUM. 4538

Certified by Laboratory Director

ND = Not Detected MCL = Maximum Contaminant Level BDL = Below Detection Limit DNI = Does Not Ignite MDL = Minimum Detection Limit N/A = Not Applicable
MO = Monitoring Only MRL = Minimum Reporting Level PTRL = Pattern Recognition Level. All results are calculated on a wet weight basis unless otherwise stated. All results relate only to this sample
+ = Parameter is not accredited under EQLab's NELAP Certification

ACCREDITED IN ACCORDANCE WITH nelac
The results presented herein meet all NELAC requirements.
Refer to eqlab certification number E87783 at www.eqlab.com.

PRDOH Certified
EPA ID PR00014

DEFINITIONS / DATA QUALIFIERS (DQ)

DEFINITIONS:

A / A – Amount Added
ASTM – American Society for Testing and Materials
BDL – Below Detection Limit
CCB – Continues Calibration Blank
CCV – Continues Calibration Verification
DNI – Does not Ignite
DQ – Data Qualifiers
DUP – Duplicate
EB/ ERB – Equipment Blank / Equipment Reagent Blank
EPA – Environmental Protection Agency
EQLab – Environmental Quality Laboratories, Inc.
FB – Field Blank
FD – Field Duplicate
FRB – Field Reagent Blank
ICB – Initial Calibration Blank
ICV – Initial Calibration Verification
LCS – Laboratory Control Sample
LFB – Laboratory Fortified Blank
LFBD – Laboratory Fortified Blank Duplicate
LRB – Laboratory Reagent Blank
MB – Method Blank
MCL – Maximum Contaminant Level
MDL – Method Detection Limit
MO – Monitoring Only
MRL – Minimum Reporting Limit
MS – Matrix Spike
MSD – Matrix Spike Duplicate
N/A – Not Applicable
N.D. – Not Detected
NELAC – National Environmental Laboratory Accreditation Conference
PRDOH – Puerto Rico Department of Health
PTRL – Pattern Recognition Level
TB – Trip Blank
Rec. – Recovery
RPD – Relative Percent Difference
SM – Standard Method
SURR – Surrogate

DATA QUALIFIERS (DQ):

Data Qualifiers (DQ) to be used by EQLab are listed below:

B – Analyte was detected in the blank.

D – Diluted Sample.

J - The reported result is an estimated value (e.g., matrix interference was observed or the analyte was detected at a concentration outside the quantitation range and/or final result was found between MDL and MRL).

N - Non-target analyte.

P – Does not meet preservation criteria (e.g. does not meet arrival temperature criteria or acid/base preservation criteria or incorrect container, among others).

Q - One or more quality control criteria failed (e.g., fails in Holding Time, LFB/LCS recovery, surrogate (SURR) spike recovery, matrix spike recovery or CCV recovery, out of RPD acceptance criteria among other).

R – Recognition Level. ND Results are reported "<PTRL" – Pattern Recognition Level (applicable for EPA 508 (PCB) mixtures (Aroclors), Toxaphene, and Chlordane only).

T –Thomas Formula (applicable for Microbiology testing only). The combination of positives tubes did not appear in Table 9221.IV. SM 9221C "Estimation of Bacterial Density"

U - Analyte was not detected and is reported as less than the MDL or as defined by the client. The MDL has been adjusted for any dilution or concentration of the sample.

FOOTNOTES:

All results are calculated on wet weight basis unless otherwise stated.

SECTION 3
ANALYTICAL TEST RESULTS
QUALITY ASSURANCE REPORT

Analytical Test Results Quality Assurance Report

W. O. # 655-04-26 Date: February 26, 2018

1.0 Samples Analyzed:

EQL SAMPLE #	DATE COLLECTED	DATE RECEIVED
2801147, 2801148, 2801149, 2801150, 2801151, 2801152	February 05, 2018	February 05, 2018

2.0 Instrumentation:

Parameter	Instrumentation Used
EPA 8260B VOC	V7 – AG7890MS Gas Chromatograph with a Mass Selective Detector

3.0 Methodology:

Parameter	Method	Date Analyzed	Analyst
EPA 8260B VOC	EPA 8260B VOC	February 06, 2018	K. Otero

Marcelino Benítez

Lcdo Marcelino Benítez
QA/QC Coordinador Licensed

QUALITY CONTROL SUMMARY

EPA 8260B VOC - Run #195945

2804364 - LRB
Reference Sample Number is: 2801147

Analyte Name	Reference Result	QC Result	DQ	Units	MDL	MRL	Accuracy A/A	Accuracy Rec. %	Acceptance Criteria Low Limit	Acceptance Criteria High Limit	Precision RPD	Acceptance Criteria High Limit	Analysis Date	Analysis Time	Analysis By
1,1,1,2-Tetrachloroethane	N.D	N.D.	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,1,1-Trichloroethane	N.D	N.D.	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,1,2,2-Tetrachloroethane	N.D	N.D.	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,1,2-Trichloroethane	N.D	N.D.	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,1-Dichloroethane	N.D	N.D.	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,1-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,1-Dichloropropene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2,3-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2,3-Trichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2,4-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2,4-Trimethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2-Dibromo-3-chloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2-Dibromoethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2-Dichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,3,5-Trimethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,3-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,3-Dichloropropane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1,4-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
1-Chlorohexane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
2,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
2-Butanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
2-Chloroethyl vinyl ether	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
2-Chlorotoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR

QUALITY CONTROL SUMMARY

2-Hexanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
4-Bromofluorobenzene-SURR	18.2	18.3	--	µg/L	N/A	N/A	20.0	91.4	79	121	N/A	N/A	02/06/18	15:37	KMOR
4-Chlorotoluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
4-Isopropyltoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
4-Methyl-2-pentanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Acetone	BDL	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Acrolein	N.D	N.D	U	µg/L	25.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Acrylonitrile	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Benzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Bromobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Bromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Bromodichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Bromoform	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Bromomethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Carbon disulfide	N.D	N.D	U	µg/L	7.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Carbon tetrachloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Chlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Chloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Chloroform	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Chloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Dibromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Dibromofluoromethane-SURR	23.4	22.8	--	µg/L	N/A	N/A	20.0	114	83	120	N/A	N/A	02/06/18	15:37	KMOR
Dibromomethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Dichlorodifluoromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Dichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Epichlorohydrin	N.D	N.D	U	µg/L	30.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Ethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Hexachlorobutadiene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Iodomethane	N.D	N.D	U	µg/L	8.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Isopropylbenzene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Naphthalene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR

QUALITY CONTROL SUMMARY

Styrene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Tetrachloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Tetrahydrofuran	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Toluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Toluene-d8-SURR	20.7	19.6	--	µg/L	N/A	N/A	20.0	98.0	80	116	N/A	N/A	02/06/18	15:37	KMOR
Trichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Trichlorofluoromethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Vinyl Acetate	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
Vinyl chloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
cis-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
cis-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
m,p-Xylene	N.D	N.D	U	µg/L	1.8	6.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
n-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
n-Propylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
o-Dichlorobenzene	N.D	N.D	U	µg/L	1.0	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
o-Xylene	N.D	N.D	U	µg/L	2.3	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
sec-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
tert-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
trans-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
trans-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR
trans-1,4-Dichloro-2-butene	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N/A	N/A	02/06/18	15:37	KMOR

2804365 - ICV
Reference Sample Number is: 2801147

							Accuracy				Precision		Analysis		
									Acceptance Criteria			Acceptance Criteria			
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,1,1-Trichloroethane	N.D	22.8	--	µg/L	1.2	3.0	20.0	114	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,1,2,2-Tetrachloroethane	N.D	19.1	--	µg/L	1.2	3.0	20.0	95.7	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,1,2-Trichloroethane	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,1-Dichloroethane	N.D	23.4	--	µg/L	2.0	3.0	20.0	117	80	120	N/A	N/A	02/06/18	16:55	KMOR

QUALITY CONTROL SUMMARY

1,1-Dichloroethene	N.D	22.8	--	µg/L	1.2	3.0	20.0	114	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,1-Dichloropropene	N.D	20.6	--	µg/L	1.4	3.0	20.0	103	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2,3-Trichlorobenzene	N.D	17.4	--	µg/L	1.2	3.0	20.0	87.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2,3-Trichloropropane	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.5	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2,4-Trichlorobenzene	N.D	17.6	--	µg/L	1.2	3.0	20.0	87.8	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2,4-Trimethylbenzene	N.D	18.4	--	µg/L	1.2	3.0	20.0	92.1	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2-Dibromo-3-chloropropane	N.D	16.6	--	µg/L	1.2	3.0	20.0	83.1	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2-Dibromoethane	N.D	18.8	--	µg/L	1.2	3.0	20.0	93.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2-Dichloroethane	N.D	22.5	--	µg/L	1.2	3.0	20.0	112	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,2-Dichloropropane	N.D	19.5	--	µg/L	1.2	3.0	20.0	97.7	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,3,5-Trimethylbenzene	N.D	19.9	--	µg/L	1.2	3.0	20.0	99.5	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,3-Dichlorobenzene	N.D	17.1	--	µg/L	1.2	3.0	20.0	85.4	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,3-Dichloropropane	N.D	19.8	--	µg/L	2.0	3.0	20.0	98.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
1,4-Dichlorobenzene	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
1-Chlorohexane	N.D	16.9	--	µg/L	1.5	3.0	20.0	84.5	80	120	N/A	N/A	02/06/18	16:55	KMOR
2,2-Dichloropropane	N.D	23.7	--	µg/L	1.2	3.0	20.0	119	80	120	N/A	N/A	02/06/18	16:55	KMOR
2-Butanone	N.D	105.7	--	µg/L	6.0	15.0	100	106	80	120	N/A	N/A	02/06/18	16:55	KMOR
2-Chloroethyl vinyl ether	N.D	84.1	--	µg/L	6.0	15.0	100	84.1	80	120	N/A	N/A	02/06/18	16:55	KMOR
2-Chlorotoluene	N.D	19.1	--	µg/L	1.4	3.0	20.0	95.4	80	120	N/A	N/A	02/06/18	16:55	KMOR
2-Hexanone	N.D	85.5	--	µg/L	6.0	15.0	100	85.5	80	120	N/A	N/A	02/06/18	16:55	KMOR
4-Bromofluorobenzene-SURR	18.2	19.8	--	µg/L	N/A	N/A	20.0	98.9	79	121	N/A	N/A	02/06/18	16:55	KMOR
4-Chlorotoluene	N.D	19.4	--	µg/L	1.2	3.0	20.0	97.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
4-Isopropyltoluene	N.D	19.3	--	µg/L	1.4	3.0	20.0	96.6	80	120	N/A	N/A	02/06/18	16:55	KMOR
4-Methyl-2-pentanone	N.D	95.0	--	µg/L	6.0	15.0	100	95.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
Acetone	BDL	118.9	--	µg/L	6.0	15.0	100	119	80	120	N/A	N/A	02/06/18	16:55	KMOR
Acrolein	N.D	488.7	--	µg/L	25.0	75.0	500	97.7	80	120	N/A	N/A	02/06/18	16:55	KMOR
Acrylonitrile	N.D	95.8	--	µg/L	6.0	15.0	100	95.8	80	120	N/A	N/A	02/06/18	16:55	KMOR
Benzene	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	02/06/18	16:55	KMOR
Bromobenzene	N.D	19.8	--	µg/L	1.2	3.0	20.0	99.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
Bromochloromethane	N.D	23.6	--	µg/L	1.2	3.0	20.0	118	80	120	N/A	N/A	02/06/18	16:55	KMOR
Bromodichloromethane	N.D	22.9	--	µg/L	1.2	3.0	20.0	114	80	120	N/A	N/A	02/06/18	16:55	KMOR

QUALITY CONTROL SUMMARY

Bromoform	N.D	16.6	--	µg/L	1.2	3.0	20.0	83.1	80	120	N/A	N/A	02/06/18	16:55	KMOR
Bromomethane	N.D	21.4	--	µg/L	2.0	3.0	20.0	107	80	120	N/A	N/A	02/06/18	16:55	KMOR
Carbon disulfide	N.D	110.4	--	µg/L	7.0	15.0	100	110	80	120	N/A	N/A	02/06/18	16:55	KMOR
Carbon tetrachloride	N.D	22.9	--	µg/L	1.2	3.0	20.0	115	80	120	N/A	N/A	02/06/18	16:55	KMOR
Chlorobenzene	N.D	19.2	--	µg/L	1.2	3.0	20.0	95.8	80	120	N/A	N/A	02/06/18	16:55	KMOR
Chloroethane	N.D	22.0	--	µg/L	1.2	3.0	20.0	110	80	120	N/A	N/A	02/06/18	16:55	KMOR
Chloroform	N.D	21.4	--	µg/L	1.2	3.0	20.0	107	80	120	N/A	N/A	02/06/18	16:55	KMOR
Chloromethane	N.D	22.2	--	µg/L	1.2	3.0	20.0	111	80	120	N/A	N/A	02/06/18	16:55	KMOR
Dibromochloromethane	N.D	18.8	--	µg/L	1.2	3.0	20.0	93.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
Dibromofluoromethane-SURR	23.4	23.5	--	µg/L	N/A	N/A	20.0	117	83	120	N/A	N/A	02/06/18	16:55	KMOR
Dibromomethane	N.D	18.5	--	µg/L	1.5	3.0	20.0	92.3	80	120	N/A	N/A	02/06/18	16:55	KMOR
Dichlorodifluoromethane	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.3	80	120	N/A	N/A	02/06/18	16:55	KMOR
Dichloromethane	N.D	22.8	--	µg/L	1.2	3.0	20.0	114	80	120	N/A	N/A	02/06/18	16:55	KMOR
Epichlorohydrin	N.D	450.1	--	µg/L	30.0	75.0	500	90.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
Ethylbenzene	N.D	19.8	--	µg/L	1.2	3.0	20.0	99.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
Hexachlorobutadiene	N.D	19.8	--	µg/L	1.4	3.0	20.0	99.2	80	120	N/A	N/A	02/06/18	16:55	KMOR
Iodomethane	N.D	117.3	--	µg/L	8.0	15.0	100	117	80	120	N/A	N/A	02/06/18	16:55	KMOR
Isopropylbenzene	N.D	18.9	--	µg/L	2.0	3.0	20.0	94.4	80	120	N/A	N/A	02/06/18	16:55	KMOR
Naphthalene	N.D	17.7	--	µg/L	2.0	3.0	20.0	88.5	80	120	N/A	N/A	02/06/18	16:55	KMOR
Styrene	N.D	18.0	--	µg/L	1.2	3.0	20.0	89.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
Tetrachloroethene	N.D	21.0	--	µg/L	1.2	3.0	20.0	105	80	120	N/A	N/A	02/06/18	16:55	KMOR
Tetrahydrofuran	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.7	80	120	N/A	N/A	02/06/18	16:55	KMOR
Toluene	N.D	19.1	--	µg/L	1.2	3.0	20.0	95.6	80	120	N/A	N/A	02/06/18	16:55	KMOR
Toluene-d8-SURR	20.7	20.5	--	µg/L	N/A	N/A	20.0	103	80	116	N/A	N/A	02/06/18	16:55	KMOR
Trichloroethene	N.D	20.5	--	µg/L	1.2	3.0	20.0	102	80	120	N/A	N/A	02/06/18	16:55	KMOR
Trichlorofluoromethane	N.D	17.9	--	µg/L	1.5	3.0	20.0	89.3	80	120	N/A	N/A	02/06/18	16:55	KMOR
Vinyl Acetate	N.D	104.4	--	µg/L	6.0	15.0	100	104	80	120	N/A	N/A	02/06/18	16:55	KMOR
Vinyl chloride	N.D	23.7	--	µg/L	1.2	3.0	20.0	118	80	120	N/A	N/A	02/06/18	16:55	KMOR
cis-1,2-Dichloroethene	N.D	20.7	--	µg/L	1.2	3.0	20.0	103	80	120	N/A	N/A	02/06/18	16:55	KMOR
cis-1,3-Dichloropropene	N.D	19.6	--	µg/L	1.2	3.0	20.0	98.1	80	120	N/A	N/A	02/06/18	16:55	KMOR
m,p-Xylene	N.D	38.0	--	µg/L	1.8	6.0	40.0	95.1	80	120	N/A	N/A	02/06/18	16:55	KMOR

QUALITY CONTROL SUMMARY

n-Butylbenzene	N.D	20.0	--	µg/L	1.2	3.0	20.0	99.8	80	120	N/A	N/A	02/06/18	16:55	KMOR
n-Propylbenzene	N.D	20.0	--	µg/L	1.2	3.0	20.0	99.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
o-Dichlorobenzene	N.D	18.6	--	µg/L	1.0	3.0	20.0	93.0	80	120	N/A	N/A	02/06/18	16:55	KMOR
o-Xylene	N.D	18.0	--	µg/L	2.3	3.0	20.0	90.2	80	120	N/A	N/A	02/06/18	16:55	KMOR
sec-Butylbenzene	N.D	20.4	--	µg/L	1.2	3.0	20.0	102	80	120	N/A	N/A	02/06/18	16:55	KMOR
tert-Butylbenzene	N.D	19.6	--	µg/L	1.2	3.0	20.0	97.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
trans-1,2-Dichloroethene	N.D	23.4	--	µg/L	1.2	3.0	20.0	117	80	120	N/A	N/A	02/06/18	16:55	KMOR
trans-1,3-Dichloropropene	N.D	18.8	--	µg/L	1.2	3.0	20.0	93.9	80	120	N/A	N/A	02/06/18	16:55	KMOR
trans-1,4-Dichloro-2-butene	N.D	88.8	--	µg/L	6.0	15.0	100	88.8	80	120	N/A	N/A	02/06/18	16:55	KMOR

2801148 - DUP
Reference Sample Number is: 2801147

							Accuracy				Precision		Analysis		
									Acceptance Criteria			Acceptance Criteria			
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,1,1-Trichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,1,2,2-Tetrachloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,1,2-Trichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,1-Dichloroethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,1-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,1-Dichloropropene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2,3-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2,3-Trichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2,4-Trichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2,4-Trimethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2-Dibromo-3-chloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2-Dibromoethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2-Dichloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,3,5-Trimethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,3-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR

QUALITY CONTROL SUMMARY

1,3-Dichloropropane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1,4-Dichlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
1-Chlorohexane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
2,2-Dichloropropane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
2-Butanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
2-Chloroethyl vinyl ether	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
2-Chlorotoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
2-Hexanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
4-Bromofluorobenzene-SURR	18.2	18.4	--	µg/L	N/A	N/A	20.0	91.9	71	125	N/A	N/A	02/06/18	18:39	KMOR
4-Chlorotoluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
4-Isopropyltoluene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
4-Methyl-2-pentanone	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Acetone	BDL	BDL	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Acrolein	N.D	N.D	U	µg/L	25.0	75.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Acrylonitrile	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Benzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Bromobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Bromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Bromodichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Bromoform	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Bromomethane	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Carbon disulfide	N.D	N.D	U	µg/L	7.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Carbon tetrachloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Chlorobenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Chloroethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Chloroform	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Chloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Dibromochloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Dibromofluoromethane-SURR	23.4	23.4	--	µg/L	N/A	N/A	20.0	117	76	123	N/A	N/A	02/06/18	18:39	KMOR
Dibromomethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Dichlorodifluoromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR

QUALITY CONTROL SUMMARY

Dichloromethane	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Epichlorohydrin	N.D	N.D	U	µg/L	30.0	75.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Ethylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Hexachlorobutadiene	N.D	N.D	U	µg/L	1.4	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Iodomethane	N.D	N.D	U	µg/L	8.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Isopropylbenzene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Naphthalene	N.D	N.D	U	µg/L	2.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Styrene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Tetrachloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Tetrahydrofuran	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Toluene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Toluene-d8-SURR	20.7	20.7	--	µg/L	N/A	N/A	20.0	104	77	122	N/A	N/A	02/06/18	18:39	KMOR
Trichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Trichlorofluoromethane	N.D	N.D	U	µg/L	1.5	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Vinyl Acetate	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
Vinyl chloride	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
cis-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
cis-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
m,p-Xylene	N.D	N.D	U	µg/L	1.8	6.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
n-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
n-Propylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
o-Dichlorobenzene	N.D	N.D	U	µg/L	1.0	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
o-Xylene	N.D	N.D	U	µg/L	2.3	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
sec-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
tert-Butylbenzene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
trans-1,2-Dichloroethene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
trans-1,3-Dichloropropene	N.D	N.D	U	µg/L	1.2	3.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR
trans-1,4-Dichloro-2-butene	N.D	N.D	U	µg/L	6.0	15.0	N/A	N/A	N/A	N/A	N.C.	20	02/06/18	18:39	KMOR

QUALITY CONTROL SUMMARY

2801149 - MS
Reference Sample Number is: 2801147

Analyte Name	Reference Result	QC Result	DQ	Units	MDL	MRL	Accuracy A/A	Accuracy Rec. %	Acceptance Criteria Low Limit	Acceptance Criteria High Limit	Precision RPD	Acceptance Criteria High Limit	Analysis Date	Analysis Time	Analysis By
1,1,1,2-Tetrachloroethane	N.D	17.6	--	µg/L	1.2	3.0	20.0	88.0	67	124	N/A	N/A	02/06/18	19:05	KMOR
1,1,1-Trichloroethane	N.D	19.8	--	µg/L	1.2	3.0	20.0	99.0	69	140	N/A	N/A	02/06/18	19:05	KMOR
1,1,2,2-Tetrachloroethane	N.D	17.0	--	µg/L	1.2	3.0	20.0	85.0	64	122	N/A	N/A	02/06/18	19:05	KMOR
1,1,2-Trichloroethane	N.D	18.9	--	µg/L	1.2	3.0	20.0	94.6	78	125	N/A	N/A	02/06/18	19:05	KMOR
1,1-Dichloroethane	N.D	20.2	--	µg/L	2.0	3.0	20.0	101	56	141	N/A	N/A	02/06/18	19:05	KMOR
1,1-Dichloroethene	N.D	18.0	--	µg/L	1.2	3.0	20.0	90.0	44	155	N/A	N/A	02/06/18	19:05	KMOR
1,1-Dichloropropene	N.D	15.5	Q	µg/L	1.4	3.0	20.0	77.5	83	110	N/A	N/A	02/06/18	19:05	KMOR
1,2,3-Trichlorobenzene	N.D	15.7	--	µg/L	1.2	3.0	20.0	78.3	71	119	N/A	N/A	02/06/18	19:05	KMOR
1,2,3-Trichloropropane	N.D	16.2	--	µg/L	1.2	3.0	20.0	80.8	47	131	N/A	N/A	02/06/18	19:05	KMOR
1,2,4-Trichlorobenzene	N.D	15.6	--	µg/L	1.2	3.0	20.0	77.8	53	139	N/A	N/A	02/06/18	19:05	KMOR
1,2,4-Trimethylbenzene	N.D	1.6	Q	µg/L	1.2	3.0	20.0	8.00	52	141	N/A	N/A	02/06/18	19:05	KMOR
1,2-Dibromo-3-chloropropane	N.D	13.7	--	µg/L	1.2	3.0	20.0	68.7	67	140	N/A	N/A	02/06/18	19:05	KMOR
1,2-Dibromoethane	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.7	66	140	N/A	N/A	02/06/18	19:05	KMOR
1,2-Dichloroethane	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	60	139	N/A	N/A	02/06/18	19:05	KMOR
1,2-Dichloropropane	N.D	17.2	--	µg/L	1.2	3.0	20.0	86.2	71	121	N/A	N/A	02/06/18	19:05	KMOR
1,3,5-Trimethylbenzene	N.D	N.D.	U	µg/L	1.2	3.0	20.0	N/A	61	125	N/A	N/A	02/06/18	19:05	KMOR
1,3-Dichlorobenzene	N.D	15.6	--	µg/L	1.2	3.0	20.0	78.1	61	129	N/A	N/A	02/06/18	19:05	KMOR
1,3-Dichloropropane	N.D	17.7	--	µg/L	2.0	3.0	20.0	88.6	69	124	N/A	N/A	02/06/18	19:05	KMOR
1,4-Dichlorobenzene	N.D	16.3	--	µg/L	1.2	3.0	20.0	81.6	73	122	N/A	N/A	02/06/18	19:05	KMOR
1-Chlorohexane	N.D	13.0	--	µg/L	1.5	3.0	20.0	65.0	48	136	N/A	N/A	02/06/18	19:05	KMOR
2,2-Dichloropropane	N.D	20.6	--	µg/L	1.2	3.0	20.0	103	13	157	N/A	N/A	02/06/18	19:05	KMOR
2-Butanone	N.D	95.6	--	µg/L	6.0	15.0	100	95.6	43	151	N/A	N/A	02/06/18	19:05	KMOR
2-Chloroethyl vinyl ether	N.D	N.D.	U	µg/L	6.0	15.0	100	N/A	10	178	N/A	N/A	02/06/18	19:05	KMOR
2-Chlorotoluene	N.D	13.3	--	µg/L	1.4	3.0	20.0	66.3	64	139	N/A	N/A	02/06/18	19:05	KMOR
2-Hexanone	N.D	78.7	--	µg/L	6.0	15.0	100	78.7	53	147	N/A	N/A	02/06/18	19:05	KMOR
4-Bromofluorobenzene-SURR	18.2	18.7	--	µg/L	N/A	N/A	20.0	93.7	71	125	N/A	N/A	02/06/18	19:05	KMOR
4-Chlorotoluene	N.D	15.0	--	µg/L	1.2	3.0	20.0	75.2	64	128	N/A	N/A	02/06/18	19:05	KMOR

QUALITY CONTROL SUMMARY

4-Isopropyltoluene	N.D	9.6	Q	µg/L	1.4	3.0	20.0	48.0	66	129	N/A	N/A	02/06/18	19:05	KMOR
4-Methyl-2-pentanone	N.D	88.8	--	µg/L	6.0	15.0	100	88.8	57	143	N/A	N/A	02/06/18	19:05	KMOR
Acetone	BDL	112.6	--	µg/L	6.0	15.0	100	113	33	154	N/A	N/A	02/06/18	19:05	KMOR
Acrolein	N.D	170.3	Q	µg/L	25.0	75.0	500	34.1	47	157	N/A	N/A	02/06/18	19:05	KMOR
Acrylonitrile	N.D	90.0	--	µg/L	6.0	15.0	100	90.0	34	160	N/A	N/A	02/06/18	19:05	KMOR
Benzene	N.D	18.0	--	µg/L	1.2	3.0	20.0	89.9	65	139	N/A	N/A	02/06/18	19:05	KMOR
Bromobenzene	N.D	16.1	--	µg/L	1.2	3.0	20.0	80.5	64	120	N/A	N/A	02/06/18	19:05	KMOR
Bromochloromethane	N.D	20.7	--	µg/L	1.2	3.0	20.0	104	49	150	N/A	N/A	02/06/18	19:05	KMOR
Bromodichloromethane	N.D	20.8	--	µg/L	1.2	3.0	20.0	104	64	141	N/A	N/A	02/06/18	19:05	KMOR
Bromoform	N.D	13.4	--	µg/L	1.2	3.0	20.0	67.2	61	132	N/A	N/A	02/06/18	19:05	KMOR
Bromomethane	N.D	10.8	--	µg/L	2.0	3.0	20.0	54.1	35	163	N/A	N/A	02/06/18	19:05	KMOR
Carbon disulfide	N.D	96.0	--	µg/L	7.0	15.0	100	96.0	48	158	N/A	N/A	02/06/18	19:05	KMOR
Carbon tetrachloride	N.D	20.5	--	µg/L	1.2	3.0	20.0	103	73	137	N/A	N/A	02/06/18	19:05	KMOR
Chlorobenzene	N.D	16.5	--	µg/L	1.2	3.0	20.0	82.5	68	121	N/A	N/A	02/06/18	19:05	KMOR
Chloroethane	N.D	22.0	--	µg/L	1.2	3.0	20.0	110	50	142	N/A	N/A	02/06/18	19:05	KMOR
Chloroform	N.D	21.2	--	µg/L	1.2	3.0	20.0	106	59	140	N/A	N/A	02/06/18	19:05	KMOR
Chloromethane	N.D	23.3	--	µg/L	1.2	3.0	20.0	117	42	139	N/A	N/A	02/06/18	19:05	KMOR
Dibromochloromethane	N.D	17.1	--	µg/L	1.2	3.0	20.0	85.3	67	137	N/A	N/A	02/06/18	19:05	KMOR
Dibromofluoromethane-SURR	23.4	24.3	--	µg/L	N/A	N/A	20.0	121	76	123	N/A	N/A	02/06/18	19:05	KMOR
Dibromomethane	N.D	17.1	--	µg/L	1.5	3.0	20.0	85.4	72	139	N/A	N/A	02/06/18	19:05	KMOR
Dichlorodifluoromethane	N.D	11.6	--	µg/L	1.2	3.0	20.0	58.0	42	157	N/A	N/A	02/06/18	19:05	KMOR
Dichloromethane	N.D	26.1	--	µg/L	1.2	3.0	20.0	130	56	135	N/A	N/A	02/06/18	19:05	KMOR
Epichlorohydrin	N.D	402.8	--	µg/L	30.0	75.0	500	80.6	37	129	N/A	N/A	02/06/18	19:05	KMOR
Ethylbenzene	N.D	14.2	--	µg/L	1.2	3.0	20.0	70.9	58	136	N/A	N/A	02/06/18	19:05	KMOR
Hexachlorobutadiene	N.D	17.0	--	µg/L	1.4	3.0	20.0	85.0	62	124	N/A	N/A	02/06/18	19:05	KMOR
Iodomethane	N.D	BDL	Q	µg/L	8.0	15.0	100	4.17	45	148	N/A	N/A	02/06/18	19:05	KMOR
Isopropylbenzene	N.D	12.9	--	µg/L	2.0	3.0	20.0	64.4	64	122	N/A	N/A	02/06/18	19:05	KMOR
Naphthalene	N.D	5.4	Q	µg/L	2.0	3.0	20.0	27.0	66	135	N/A	N/A	02/06/18	19:05	KMOR
Styrene	N.D	N.D	Q	µg/L	1.2	3.0	20.0	0.00	65	123	N/A	N/A	02/06/18	19:05	KMOR
Tetrachloroethene	N.D	17.0	--	µg/L	1.2	3.0	20.0	85.1	64	138	N/A	N/A	02/06/18	19:05	KMOR
Tetrahydrofuran	N.D	17.7	--	µg/L	1.2	3.0	20.0	88.3	51	147	N/A	N/A	02/06/18	19:05	KMOR

QUALITY CONTROL SUMMARY

Toluene	N.D	13.8	--	µg/L	1.2	3.0	20.0	69.1	65	140	N/A	N/A	02/06/18	19:05	KMOR
Toluene-d8-SURR	20.7	20.9	--	µg/L	N/A	N/A	20.0	104	77	122	N/A	N/A	02/06/18	19:05	KMOR
Trichloroethene	N.D	17.2	--	µg/L	1.2	3.0	20.0	86.2	76	126	N/A	N/A	02/06/18	19:05	KMOR
Trichlorofluoromethane	N.D	23.6	--	µg/L	1.5	3.0	20.0	118	60	144	N/A	N/A	02/06/18	19:05	KMOR
Vinyl Acetate	N.D	N.D	Q	µg/L	6.0	15.0	100	0.00	52	141	N/A	N/A	02/06/18	19:05	KMOR
Vinyl chloride	N.D	9.2	--	µg/L	1.2	3.0	20.0	45.8	39	151	N/A	N/A	02/06/18	19:05	KMOR
cis-1,2-Dichloroethene	N.D	17.4	--	µg/L	1.2	3.0	20.0	86.9	66	127	N/A	N/A	02/06/18	19:05	KMOR
cis-1,3-Dichloropropene	N.D	13.4	--	µg/L	1.2	3.0	20.0	67.2	57	131	N/A	N/A	02/06/18	19:05	KMOR
m,p-Xylene	N.D	12.4	Q	µg/L	1.8	6.0	40.0	30.9	56	145	N/A	N/A	02/06/18	19:05	KMOR
n-Butylbenzene	N.D	12.9	Q	µg/L	1.2	3.0	20.0	64.7	72	114	N/A	N/A	02/06/18	19:05	KMOR
n-Propylbenzene	N.D	13.6	--	µg/L	1.2	3.0	20.0	67.8	61	123	N/A	N/A	02/06/18	19:05	KMOR
o-Dichlorobenzene	N.D	16.3	--	µg/L	1.0	3.0	20.0	81.5	73	124	N/A	N/A	02/06/18	19:05	KMOR
o-Xylene	N.D	8.1	Q	µg/L	2.3	3.0	20.0	40.6	54	143	N/A	N/A	02/06/18	19:05	KMOR
sec-Butylbenzene	N.D	14.1	--	µg/L	1.2	3.0	20.0	70.6	64	114	N/A	N/A	02/06/18	19:05	KMOR
tert-Butylbenzene	N.D	14.7	--	µg/L	1.2	3.0	20.0	73.7	68	113	N/A	N/A	02/06/18	19:05	KMOR
trans-1,2-Dichloroethene	N.D	19.1	--	µg/L	1.2	3.0	20.0	95.5	56	146	N/A	N/A	02/06/18	19:05	KMOR
trans-1,3-Dichloropropene	N.D	14.9	--	µg/L	1.2	3.0	20.0	74.3	59	130	N/A	N/A	02/06/18	19:05	KMOR
trans-1,4-Dichloro-2-butene	N.D	23.3	Q	µg/L	6.0	15.0	100	23.3	47	129	N/A	N/A	02/06/18	19:05	KMOR

2801150 - MSD
Reference Sample Number is: 2801147

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	15.6	--	µg/L	1.2	3.0	20.0	78.0	67	124	12.0	20	02/06/18	19:31	KMOR
1,1,1-Trichloroethane	N.D	18.8	--	µg/L	1.2	3.0	20.0	94.0	69	140	5.18	20	02/06/18	19:31	KMOR
1,1,2,2-Tetrachloroethane	N.D	16.3	--	µg/L	1.2	3.0	20.0	81.5	64	122	4.20	20	02/06/18	19:31	KMOR
1,1,2-Trichloroethane	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.5	78	125	3.23	20	02/06/18	19:31	KMOR
1,1-Dichloroethane	N.D	20.4	--	µg/L	2.0	3.0	20.0	102	56	141	0.985	20	02/06/18	19:31	KMOR
1,1-Dichloroethene	N.D	17.5	--	µg/L	1.2	3.0	20.0	87.5	44	155	2.82	20	02/06/18	19:31	KMOR
1,1-Dichloropropene	N.D	15.0	Q	µg/L	1.4	3.0	20.0	75.0	83	110	3.28	20	02/06/18	19:31	KMOR
1,2,3-Trichlorobenzene	N.D	15.7	--	µg/L	1.2	3.0	20.0	78.5	71	119	0.00	20	02/06/18	19:31	KMOR

QUALITY CONTROL SUMMARY

1,2,3-Trichloropropane	N.D	15.6	--	µg/L	1.2	3.0	20.0	77.9	47	131	3.66	20	02/06/18	19:31	KMOR
1,2,4-Trichlorobenzene	N.D	15.5	--	µg/L	1.2	3.0	20.0	77.6	53	139	0.257	20	02/06/18	19:31	KMOR
1,2,4-Trimethylbenzene	N.D	1.5	Q	µg/L	1.2	3.0	20.0	7.25	52	141	N.C.	20	02/06/18	19:31	KMOR
1,2-Dibromo-3-chloropropane	N.D	14.3	--	µg/L	1.2	3.0	20.0	71.5	67	140	3.99	20	02/06/18	19:31	KMOR
1,2-Dibromoethane	N.D	17.1	--	µg/L	1.2	3.0	20.0	85.6	66	140	1.34	20	02/06/18	19:31	KMOR
1,2-Dichloroethane	N.D	20.2	--	µg/L	1.2	3.0	20.0	101	60	139	1.96	20	02/06/18	19:31	KMOR
1,2-Dichloropropane	N.D	17.1	--	µg/L	1.2	3.0	20.0	85.6	71	121	0.699	20	02/06/18	19:31	KMOR
1,3,5-Trimethylbenzene	N.D	N.D	Q	µg/L	1.2	3.0	20.0	0.00	61	125	N.C.	20	02/06/18	19:31	KMOR
1,3-Dichlorobenzene	N.D	14.7	--	µg/L	1.2	3.0	20.0	73.6	61	129	5.87	20	02/06/18	19:31	KMOR
1,3-Dichloropropane	N.D	17.2	--	µg/L	2.0	3.0	20.0	85.8	69	124	N.C.	20	02/06/18	19:31	KMOR
1,4-Dichlorobenzene	N.D	17.0	--	µg/L	1.2	3.0	20.0	85.2	73	122	4.26	20	02/06/18	19:31	KMOR
1-Chlorohexane	N.D	14.9	--	µg/L	1.5	3.0	20.0	74.4	48	136	N.C.	20	02/06/18	19:31	KMOR
2,2-Dichloropropane	N.D	19.5	--	µg/L	1.2	3.0	20.0	97.6	13	157	5.24	20	02/06/18	19:31	KMOR
2-Butanone	N.D	93.5	--	µg/L	6.0	15.0	100	93.5	43	151	2.24	20	02/06/18	19:31	KMOR
2-Chloroethyl vinyl ether	N.D	N.D	Q	µg/L	6.0	15.0	100	0.00	10	178	N.C.	20	02/06/18	19:31	KMOR
2-Chlorotoluene	N.D	12.6	Q	µg/L	1.4	3.0	20.0	62.8	64	139	N.C.	20	02/06/18	19:31	KMOR
2-Hexanone	N.D	73.6	--	µg/L	6.0	15.0	100	73.6	53	147	6.67	20	02/06/18	19:31	KMOR
4-Bromofluorobenzene-SURR	18.2	20.9	--	µg/L	N/A	N/A	20.0	105	71	125	N/A	N/A	02/06/18	19:31	KMOR
4-Chlorotoluene	N.D	15.5	--	µg/L	1.2	3.0	20.0	77.5	64	128	3.01	20	02/06/18	19:31	KMOR
4-Isopropyltoluene	N.D	10.4	Q	µg/L	1.4	3.0	20.0	51.9	66	129	N.C.	20	02/06/18	19:31	KMOR
4-Methyl-2-pentanone	N.D	84.3	--	µg/L	6.0	15.0	100	84.3	57	143	5.22	20	02/06/18	19:31	KMOR
Acetone	BDL	113.0	--	µg/L	6.0	15.0	100	113	33	154	0.355	20	02/06/18	19:31	KMOR
Acrolein	N.D	177.1	Q	µg/L	25.0	75.0	500	35.4	47	157	N.C.	20	02/06/18	19:31	KMOR
Acrylonitrile	N.D	85.5	--	µg/L	6.0	15.0	100	85.5	34	160	5.12	20	02/06/18	19:31	KMOR
Benzene	N.D	17.6	--	µg/L	1.2	3.0	20.0	88.0	65	139	2.14	20	02/06/18	19:31	KMOR
Bromobenzene	N.D	14.1	--	µg/L	1.2	3.0	20.0	70.4	64	120	13.4	20	02/06/18	19:31	KMOR
Bromochloromethane	N.D	18.8	--	µg/L	1.2	3.0	20.0	94.0	49	150	9.62	20	02/06/18	19:31	KMOR
Bromodichloromethane	N.D	20.4	--	µg/L	1.2	3.0	20.0	102	64	141	2.09	20	02/06/18	19:31	KMOR
Bromoform	N.D	12.5	--	µg/L	1.2	3.0	20.0	62.7	61	132	6.93	20	02/06/18	19:31	KMOR
Bromomethane	N.D	11.7	--	µg/L	2.0	3.0	20.0	58.3	35	163	N.C.	20	02/06/18	19:31	KMOR
Carbon disulfide	N.D	96.6	--	µg/L	7.0	15.0	100	96.6	48	158	0.550	20	02/06/18	19:31	KMOR

QUALITY CONTROL SUMMARY

Carbon tetrachloride	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.2	73	137	6.39	20	02/06/18	19:31	KMOR
Chlorobenzene	N.D	14.5	--	µg/L	1.2	3.0	20.0	72.6	68	121	12.8	20	02/06/18	19:31	KMOR
Chloroethane	N.D	23.6	--	µg/L	1.2	3.0	20.0	118	50	142	6.98	20	02/06/18	19:31	KMOR
Chloroform	N.D	21.2	--	µg/L	1.2	3.0	20.0	106	59	140	0.0940	20	02/06/18	19:31	KMOR
Chloromethane	N.D	23.4	--	µg/L	1.2	3.0	20.0	117	42	139	0.342	20	02/06/18	19:31	KMOR
Dibromochloromethane	N.D	16.4	--	µg/L	1.2	3.0	20.0	81.9	67	137	4.01	20	02/06/18	19:31	KMOR
Dibromofluoromethane-SURR	23.4	21.5	--	µg/L	N/A	N/A	20.0	108	76	123	N/A	N/A	02/06/18	19:31	KMOR
Dibromomethane	N.D	17.2	--	µg/L	1.5	3.0	20.0	85.8	72	139	0.467	20	02/06/18	19:31	KMOR
Dichlorodifluoromethane	N.D	12.1	--	µg/L	1.2	3.0	20.0	60.7	42	157	N.C.	20	02/06/18	19:31	KMOR
Dichloromethane	N.D	26.7	--	µg/L	1.2	3.0	20.0	133	56	135	2.31	20	02/06/18	19:31	KMOR
Epichlorohydrin	N.D	392.6	--	µg/L	30.0	75.0	500	78.5	37	129	2.56	20	02/06/18	19:31	KMOR
Ethylbenzene	N.D	13.3	--	µg/L	1.2	3.0	20.0	66.5	58	136	6.33	20	02/06/18	19:31	KMOR
Hexachlorobutadiene	N.D	17.9	--	µg/L	1.4	3.0	20.0	89.5	62	124	5.16	20	02/06/18	19:31	KMOR
Iodomethane	N.D	BDL	Q	µg/L	8.0	15.0	100	4.02	45	148	N.C.	20	02/06/18	19:31	KMOR
Isopropylbenzene	N.D	11.2	Q	µg/L	2.0	3.0	20.0	55.9	64	122	N.C.	20	02/06/18	19:31	KMOR
Naphthalene	N.D	4.9	Q	µg/L	2.0	3.0	20.0	24.7	66	135	N.C.	20	02/06/18	19:31	KMOR
Styrene	N.D	N.D	Q	µg/L	1.2	3.0	20.0	0.00	65	123	N.C.	20	02/06/18	19:31	KMOR
Tetrachloroethene	N.D	16.0	--	µg/L	1.2	3.0	20.0	79.8	64	138	6.43	20	02/06/18	19:31	KMOR
Tetrahydrofuran	N.D	17.0	--	µg/L	1.2	3.0	20.0	85.0	51	147	3.81	20	02/06/18	19:31	KMOR
Toluene	N.D	14.0	--	µg/L	1.2	3.0	20.0	70.0	65	140	1.30	20	02/06/18	19:31	KMOR
Toluene-d8-SURR	20.7	23.4	--	µg/L	N/A	N/A	20.0	117	77	122	N/A	N/A	02/06/18	19:31	KMOR
Trichloroethene	N.D	17.0	--	µg/L	1.2	3.0	20.0	85.1	76	126	1.29	20	02/06/18	19:31	KMOR
Trichlorofluoromethane	N.D	24.6	--	µg/L	1.5	3.0	20.0	123	60	144	4.07	20	02/06/18	19:31	KMOR
Vinyl Acetate	N.D	N.D	Q	µg/L	6.0	15.0	100	0.00	52	141	N.C.	20	02/06/18	19:31	KMOR
Vinyl chloride	N.D	5.9	Q	µg/L	1.2	3.0	20.0	29.5	39	151	N.C.	20	02/06/18	19:31	KMOR
cis-1,2-Dichloroethene	N.D	16.4	--	µg/L	1.2	3.0	20.0	81.9	66	127	5.99	20	02/06/18	19:31	KMOR
cis-1,3-Dichloropropene	N.D	13.6	--	µg/L	1.2	3.0	20.0	68.2	57	131	1.55	20	02/06/18	19:31	KMOR
m,p-Xylene	N.D	12.5	Q	µg/L	1.8	6.0	40.0	31.2	56	145	N.C.	20	02/06/18	19:31	KMOR
n-Butylbenzene	N.D	12.1	Q	µg/L	1.2	3.0	20.0	60.7	72	114	6.30	20	02/06/18	19:31	KMOR
n-Propylbenzene	N.D	13.7	--	µg/L	1.2	3.0	20.0	68.5	61	123	1.03	20	02/06/18	19:31	KMOR
o-Dichlorobenzene	N.D	16.5	--	µg/L	1.0	3.0	20.0	82.4	73	124	1.10	20	02/06/18	19:31	KMOR

QUALITY CONTROL SUMMARY

o-Xylene	N.D	8.4	Q	µg/L	2.3	3.0	20.0	42.1	54	143	N.C.	20	02/06/18	19:31	KMOR
sec-Butylbenzene	N.D	12.2	Q	µg/L	1.2	3.0	20.0	61.2	64	114	14.2	20	02/06/18	19:31	KMOR
tert-Butylbenzene	N.D	14.2	--	µg/L	1.2	3.0	20.0	71.2	68	113	3.38	20	02/06/18	19:31	KMOR
trans-1,2-Dichloroethene	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.5	56	146	9.95	20	02/06/18	19:31	KMOR
trans-1,3-Dichloropropene	N.D	14.6	--	µg/L	1.2	3.0	20.0	72.9	59	130	1.90	20	02/06/18	19:31	KMOR
trans-1,4-Dichloro-2-butene	N.D	24.2	Q	µg/L	6.0	15.0	100	24.2	47	129	N.C.	20	02/06/18	19:31	KMOR

2804371 - LFB
Reference Sample Number is: 2801147

							Accuracy				Precision				
									Acceptance Criteria			Acceptance Criteria	Analysis		
Analyte Name	**Reference Result**	**QC Result**	**DQ**	**Units**	**MDL**	**MRL**	**A/A**	**Rec. %**	**Low Limit**	**High Limit**	**RPD**	**High Limit**	**Date**	**Time**	**By**
1,1,1,2-Tetrachloroethane	N.D	19.7	--	µg/L	1.2	3.0	20.0	98.5	67	126	N/A	N/A	02/07/18	07:12	KMOR
1,1,1-Trichloroethane	N.D	20.8	--	µg/L	1.2	3.0	20.0	104	64	139	N/A	N/A	02/07/18	07:12	KMOR
1,1,2,2-Tetrachloroethane	N.D	16.9	--	µg/L	1.2	3.0	20.0	84.5	60	131	N/A	N/A	02/07/18	07:12	KMOR
1,1,2-Trichloroethane	N.D	20.5	--	µg/L	1.2	3.0	20.0	103	70	129	N/A	N/A	02/07/18	07:12	KMOR
1,1-Dichloroethane	N.D	21.9	--	µg/L	2.0	3.0	20.0	110	63	133	N/A	N/A	02/07/18	07:12	KMOR
1,1-Dichloroethene	N.D	21.7	--	µg/L	1.2	3.0	20.0	109	55	139	N/A	N/A	02/07/18	07:12	KMOR
1,1-Dichloropropene	N.D	19.0	--	µg/L	1.4	3.0	20.0	95.0	67	131	N/A	N/A	02/07/18	07:12	KMOR
1,2,3-Trichlorobenzene	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.5	68	131	N/A	N/A	02/07/18	07:12	KMOR
1,2,3-Trichloropropane	N.D	18.2	--	µg/L	1.2	3.0	20.0	91.0	52	131	N/A	N/A	02/07/18	07:12	KMOR
1,2,4-Trichlorobenzene	N.D	17.4	--	µg/L	1.2	3.0	20.0	87.0	51	132	N/A	N/A	02/07/18	07:12	KMOR
1,2,4-Trimethylbenzene	N.D	17.5	--	µg/L	1.2	3.0	20.0	87.5	63	129	N/A	N/A	02/07/18	07:12	KMOR
1,2-Dibromo-3-chloropropane	N.D	14.4	--	µg/L	1.2	3.0	20.0	72.0	66	139	N/A	N/A	02/07/18	07:12	KMOR
1,2-Dibromoethane	N.D	18.7	--	µg/L	1.2	3.0	20.0	93.5	76	126	N/A	N/A	02/07/18	07:12	KMOR
1,2-Dichloroethane	N.D	22.1	--	µg/L	1.2	3.0	20.0	111	60	136	N/A	N/A	02/07/18	07:12	KMOR
1,2-Dichloropropane	N.D	19.1	--	µg/L	1.2	3.0	20.0	95.5	70	124	N/A	N/A	02/07/18	07:12	KMOR
1,3,5-Trimethylbenzene	N.D	18.6	--	µg/L	1.2	3.0	20.0	93.0	68	123	N/A	N/A	02/07/18	07:12	KMOR
1,3-Dichlorobenzene	N.D	16.3	--	µg/L	1.2	3.0	20.0	81.5	62	127	N/A	N/A	02/07/18	07:12	KMOR
1,3-Dichloropropane	N.D	19.6	--	µg/L	2.0	3.0	20.0	98.0	74	124	N/A	N/A	02/07/18	07:12	KMOR
1,4-Dichlorobenzene	N.D	18.6	--	µg/L	1.2	3.0	20.0	93.0	73	123	N/A	N/A	02/07/18	07:12	KMOR
1-Chlorohexane	N.D	15.5	--	µg/L	1.5	3.0	20.0	77.5	56	139	N/A	N/A	02/07/18	07:12	KMOR

QUALITY CONTROL SUMMARY

2,2-Dichloropropane	N.D	14.8	--	µg/L	1.2	3.0	20.0	74.0	37	148	N/A	N/A	02/07/18	07:12	KMOR
2-Butanone	N.D	97.5	--	µg/L	6.0	15.0	100	97.5	57	136	N/A	N/A	02/07/18	07:12	KMOR
2-Chloroethyl vinyl ether	N.D	71.6	--	µg/L	6.0	15.0	100	71.6	47	143	N/A	N/A	02/07/18	07:12	KMOR
2-Chlorotoluene	N.D	17.9	--	µg/L	1.4	3.0	20.0	89.5	66	127	N/A	N/A	02/07/18	07:12	KMOR
2-Hexanone	N.D	79.1	--	µg/L	6.0	15.0	100	79.1	62	136	N/A	N/A	02/07/18	07:12	KMOR
4-Bromofluorobenzene-SURR	18.2	19.6	--	µg/L	N/A	N/A	20.0	98.2	79	121	N/A	N/A	02/07/18	07:12	KMOR
4-Chlorotoluene	N.D	18.2	--	µg/L	1.2	3.0	20.0	91.0	63	125	N/A	N/A	02/07/18	07:12	KMOR
4-Isopropyltoluene	N.D	17.8	--	µg/L	1.4	3.0	20.0	89.0	68	131	N/A	N/A	02/07/18	07:12	KMOR
4-Methyl-2-pentanone	N.D	89.2	--	µg/L	6.0	15.0	100	89.2	62	135	N/A	N/A	02/07/18	07:12	KMOR
Acetone	BDL	115.6	--	µg/L	6.0	15.0	100	116	46	142	N/A	N/A	02/07/18	07:12	KMOR
Acrolein	N.D	605.7	--	µg/L	25.0	75.0	500	121	40	153	N/A	N/A	02/07/18	07:12	KMOR
Acrylonitrile	N.D	91.2	--	µg/L	6.0	15.0	100	91.2	53	141	N/A	N/A	02/07/18	07:12	KMOR
Benzene	N.D	19.3	--	µg/L	1.2	3.0	20.0	96.5	66	131	N/A	N/A	02/07/18	07:12	KMOR
Bromobenzene	N.D	19.0	--	µg/L	1.2	3.0	20.0	95.0	61	126	N/A	N/A	02/07/18	07:12	KMOR
Bromochloromethane	N.D	23.2	--	µg/L	1.2	3.0	20.0	116	60	133	N/A	N/A	02/07/18	07:12	KMOR
Bromodichloromethane	N.D	22.2	--	µg/L	1.2	3.0	20.0	111	72	129	N/A	N/A	02/07/18	07:12	KMOR
Bromoform	N.D	15.5	--	µg/L	1.2	3.0	20.0	77.5	61	130	N/A	N/A	02/07/18	07:12	KMOR
Bromomethane	N.D	23.9	--	µg/L	2.0	3.0	20.0	120	47	151	N/A	N/A	02/07/18	07:12	KMOR
Carbon disulfide	N.D	110.8	--	µg/L	7.0	15.0	100	111	58	140	N/A	N/A	02/07/18	07:12	KMOR
Carbon tetrachloride	N.D	21.5	--	µg/L	1.2	3.0	20.0	108	69	134	N/A	N/A	02/07/18	07:12	KMOR
Chlorobenzene	N.D	18.3	--	µg/L	1.2	3.0	20.0	91.5	67	122	N/A	N/A	02/07/18	07:12	KMOR
Chloroethane	N.D	24.9	--	µg/L	1.2	3.0	20.0	125	47	144	N/A	N/A	02/07/18	07:12	KMOR
Chloroform	N.D	23.4	--	µg/L	1.2	3.0	20.0	117	61	134	N/A	N/A	02/07/18	07:12	KMOR
Chloromethane	N.D	21.3	--	µg/L	1.2	3.0	20.0	107	43	142	N/A	N/A	02/07/18	07:12	KMOR
Dibromochloromethane	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.5	69	134	N/A	N/A	02/07/18	07:12	KMOR
Dibromofluoromethane-SURR	23.4	23.2	--	µg/L	N/A	N/A	20.0	116	83	120	N/A	N/A	02/07/18	07:12	KMOR
Dibromomethane	N.D	18.5	--	µg/L	1.5	3.0	20.0	92.5	76	131	N/A	N/A	02/07/18	07:12	KMOR
Dichlorodifluoromethane	N.D	16.5	--	µg/L	1.2	3.0	20.0	82.5	49	145	N/A	N/A	02/07/18	07:12	KMOR
Dichloromethane	N.D	24.5	--	µg/L	1.2	3.0	20.0	123	62	129	N/A	N/A	02/07/18	07:12	KMOR
Epichlorohydrin	N.D	371.0	--	µg/L	30.0	75.0	500	74.2	52	134	N/A	N/A	02/07/18	07:12	KMOR
Ethylbenzene	N.D	18.5	--	µg/L	1.2	3.0	20.0	92.5	69	131	N/A	N/A	02/07/18	07:12	KMOR

QUALITY CONTROL SUMMARY

Hexachlorobutadiene	N.D	17.7	--	µg/L	1.4	3.0	20.0	88.5	51	139	N/A	N/A	02/07/18	07:12	KMOR
Iodomethane	N.D	121.2	--	µg/L	8.0	15.0	100	121	54	143	N/A	N/A	02/07/18	07:12	KMOR
Isopropylbenzene	N.D	17.6	--	µg/L	2.0	3.0	20.0	88.0	69	121	N/A	N/A	02/07/18	07:12	KMOR
Naphthalene	N.D	15.5	--	µg/L	2.0	3.0	20.0	77.5	71	134	N/A	N/A	02/07/18	07:12	KMOR
Styrene	N.D	17.3	--	µg/L	1.2	3.0	20.0	86.5	65	127	N/A	N/A	02/07/18	07:12	KMOR
Tetrachloroethene	N.D	19.2	--	µg/L	1.2	3.0	20.0	96.0	62	135	N/A	N/A	02/07/18	07:12	KMOR
Tetrahydrofuran	N.D	17.1	--	µg/L	1.2	3.0	20.0	85.5	67	134	N/A	N/A	02/07/18	07:12	KMOR
Toluene	N.D	18.0	--	µg/L	1.2	3.0	20.0	90.0	59	143	N/A	N/A	02/07/18	07:12	KMOR
Toluene-d8-SURR	20.7	20.7	--	µg/L	N/A	N/A	20.0	104	80	116	N/A	N/A	02/07/18	07:12	KMOR
Trichloroethene	N.D	20.5	--	µg/L	1.2	3.0	20.0	103	67	138	N/A	N/A	02/07/18	07:12	KMOR
Trichlorofluoromethane	N.D	24.5	--	µg/L	1.5	3.0	20.0	123	45	157	N/A	N/A	02/07/18	07:12	KMOR
Vinyl Acetate	N.D	81.7	--	µg/L	6.0	15.0	100	81.7	53	144	N/A	N/A	02/07/18	07:12	KMOR
Vinyl chloride	N.D	22.7	--	µg/L	1.2	3.0	20.0	114	52	140	N/A	N/A	02/07/18	07:12	KMOR
cis-1,2-Dichloroethene	N.D	20.3	--	µg/L	1.2	3.0	20.0	102	71	128	N/A	N/A	02/07/18	07:12	KMOR
cis-1,3-Dichloropropene	N.D	17.9	--	µg/L	1.2	3.0	20.0	89.5	63	125	N/A	N/A	02/07/18	07:12	KMOR
m,p-Xylene	N.D	35.5	--	µg/L	1.8	6.0	40.0	88.8	63	130	N/A	N/A	02/07/18	07:12	KMOR
n-Butylbenzene	N.D	17.7	--	µg/L	1.2	3.0	20.0	88.5	67	127	N/A	N/A	02/07/18	07:12	KMOR
n-Propylbenzene	N.D	18.4	--	µg/L	1.2	3.0	20.0	92.0	64	124	N/A	N/A	02/07/18	07:12	KMOR
o-Dichlorobenzene	N.D	18.2	--	µg/L	1.0	3.0	20.0	91.0	75	121	N/A	N/A	02/07/18	07:12	KMOR
o-Xylene	N.D	17.1	--	µg/L	2.3	3.0	20.0	85.5	66	124	N/A	N/A	02/07/18	07:12	KMOR
sec-Butylbenzene	N.D	18.7	--	µg/L	1.2	3.0	20.0	93.5	66	122	N/A	N/A	02/07/18	07:12	KMOR
tert-Butylbenzene	N.D	18.1	--	µg/L	1.2	3.0	20.0	90.5	65	126	N/A	N/A	02/07/18	07:12	KMOR
trans-1,2-Dichloroethene	N.D	21.7	--	µg/L	1.2	3.0	20.0	109	66	129	N/A	N/A	02/07/18	07:12	KMOR
trans-1,3-Dichloropropene	N.D	16.9	--	µg/L	1.2	3.0	20.0	84.5	60	131	N/A	N/A	02/07/18	07:12	KMOR
trans-1,4-Dichloro-2-butene	N.D	80.7	--	µg/L	6.0	15.0	100	80.7	53	123	N/A	N/A	02/07/18	07:12	KMOR

Footnotes:

Data Qualifiers (DQ) to be used by EQLab are listed below:

B – Analyte was detected in the blank.

D – Diluted Sample.

J – The reported result is an estimated value (e.g., matrix interference was observed or the analyte was detected at a concentration outside the quantitation range and/or final result was found between MDL and MRL).

N – Non-target analyte.

P – Does not meet preservation criteria (e.g. does not meet arrival temperature criteria or acid/base preservation criteria or incorrect container, among others).

Q – One or more quality control criteria failed (e.g., fails in Holding Time, LFB/LCS recovery, surrogate (SURR) spike recovery, matrix spike recovery or CCV recovery, out of RPD acceptance criteria among other).

R – Recognition Level. ND Results are reported "<PTRL" – Pattern Recognition Level (applicable for EPA 508 (PCB) mixtures (Aroclors), Toxaphene, and Chlordane only).

T –Thomas Formula (applicable for Microbiology testing only). The combination of positives tubes did not appear in Table 9221.IV. SM 9221C "Estimation of Bacterial Density"

U – Analyte was not detected and is reported as less than the MDL or as defined by the client. The MDL has been adjusted for any dilution or concentration of the sample.

Definitions:

A / A – Amount Added
ASTM – American Society for Testing and Materials
BDL – Below Detection Limit
CCB – Continues Calibration Blank
CCV – Continues Calibration Verification
DNI – Does not Ignite
DQ – Data Qualifiers
DUP – Duplicate
LRB – Laboratory Reagent Blank
MB – Method Blank
MCL – Maximum Contaminant Level
MDL – Method Detection Limit
MO – Monitoring Only
MRL – Minimum Reporting Limit
MS – Matrix Spike

EB/ ERB – Equipment Blank / Equipment Reagent Blank
EPA – Environmental Protection Agency
EQLab – Environmental Quality Laboratories, Inc.
FB – Field Blank
FD – Field Duplicate
FRB – Field Reagent Blank
ICB – Initial Calibration Blank
ICV – Initial Calibration Verification
LCS – Laboratory Control Sample
LFB – Laboratory Fortified Blank
LFBD – Laboratory Fortified Blank Duplicate
MSD – Matrix Spike Duplicate
N/A – Not Applicable
N.D. – Not Detected
NELAC – National Environmental Laboratory Accreditation Conference
PRDOH – Puerto Rico Department of Health
PTRL – Pattern Recognition Level
TB – Trip Blank
Rec. – Recovery
RPD – Relative Percent Difference
SM – Standard Method
SURR – Surrogate

Formulas:

1. The Relative Percent Difference (RPD) is calculated as follows:

RPD = { [/QC Final Result – Reference Final Result /] / [(QC Final Result + Reference Final Result) / 2] } X 100

RPD Micro = (log_10 QC Final Result) - (log_10 Reference Final Result) (Expressed as Precision)

The RPD applies to the following Quality Controls: DUP, MSD, LFBD. The RPD is reported N.C. when the QC Final Result is less than ten times the value of MDL. The RPD general acceptance criteria is as close to zero as possible; no more than 20% for all matrices except Solid / Soil which is < or = 40%.

2. The Recovery Percentage (% Rec) is calculated as follows:

%Rec = [(QC Final Result) / (QC Fortified Concentration)] X 100

3. For the MS and MSD Quality Controls, the Recovery Percentage (% Rec) is calculated as follows:

%Rec = [(QC Final Result - Reference Final Result) / (QC Fortified Concentration)] X 100

APPENDIX A
CHAIN OF CUSTODY DOCUMENTATION

2018-02079

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

CLIENT NAME: ARCADIS CARIBE, PSC | CLIENT ID: 655-04 | W.O. #: 26 | SITE: GUAYAMA, PR | CLIENT REP: MR. ELVIN VARELA

P.O. #: 507 | PWSID #: | FOLDER #: 246718 | PROJECT: GUAYAMA PROJECT | EQLAB REP: EGARCIA

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: 2801147-1 MATRIX: GROUND WATER SOURCE: EFFLUENT, GUAYAMA, PR EFF-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801148-1 MATRIX: GROUND WATER DUP SOURCE: EFFLUENT-DUPLICATE, GUAYAMA, PR EFFDUP-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801149-1 MATRIX: GROUND WATER MS SOURCE: EFFLUENT-MS, GUAYAMA, PR EFFMS-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801150-1 MATRIX: GROUND WATER MSD SOURCE: EFFLUENT-MSD, GUAYAMA, PR EFFMSD-20180205	DATE: 02/05/18 TIME: 1135 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:		02/05/18	~~1135~~
Fixed in field by:		02/05/18	Varias
Authorized by:	N/A	N/A	N/A
Received by EQLF:			
Released to EQLL by:		2-5-18	1525
Received by EQLL:		2-5-18	1525

SPECIAL INSTRUCTIONS / COMMENTS: varias QA/QC level II Report

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

Arrival Temperature: 3.0°C Signature:

Eqlab's general terms and conditions on reverse side of this document.

2018-02079

ENVIRONMENTAL QUALITY LABORATORIES, INC.

SAMPLE DELIVERY SLIP & CHAIN OF CUSTODY

PO BOX 11458, SAN JUAN, PR 00910-1458 • TEL. (787) 288-6420, FAX (787) 288-6465, e-mail: info@eqlab.com

CLIENT NAME: ARCADIS CARIBE, PSC | CLIENT ID: 655-04 | W.O. #: 26 | SITE: GUAYAMA, PR | CLIENT REP: MR. ELVIN VARELA

P.O. #: 507 | PWSID #: | FOLDER #: 246718 | PROJECT: GUAYAMA PROJECT | EQLAB REP: EGARCIA

SAMPLE INFORMATION		CONTAINER INFORMATION	FIELD TESTING		ANALYSIS REQUESTED
SAMPLE #: 2801151-1 MATRIX: DI WATER SOURCE: INFLUENT, GUAYAMA, PR INF-20180205	DATE: 02/05/18 TIME: 1055 TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: 2801152-1 MATRIX: DI WATER SOURCE: TRIP BLANK, GUAYAMA, PR	DATE: 02/05/18 TIME: LAB TYPE: Grab	TYPE VIAL/TC COLOR CLEAR VOLUME PRESERVATIVE HCl pH<2,Cool 4 °C			EPA 8260B VOC
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			
SAMPLE #: MATRIX: SOURCE:	DATE: TIME: TYPE:	TYPE COLOR VOLUME PRESERVATIVE			

CUSTODY RECORD	SIGNATURE	DATE	TIME
Collected in field by:		02/05/18	~~1055~~ varias
Fixed in field by:		02/05/18	varias
Authorized by:	N/A	N/A	N/A
Received by EQLF:			
Released to EQLL by:		2-5-18	1525
Received by EQLL:		2-5-18	1525

SPECIAL INSTRUCTIONS / COMMENTS: QA/QC Level II Report

*EQLF = Eqlab's Field Personnel.
*EQLL = Eqlab's Log-in Personnel.

Arrival Temperature: 3.0°C Signature:

Eqlab's general terms and conditions on reverse side of this document.

APPENDIX A
CHAIN OF CUSTODY DOCUMENTATION

Attachment 5
Sampling and Monitoring Field Form

ARCADIS Design & Consultancy for natural and built assets

Groundwater Extraction and Treatment System (GWETS) Sampling and Monitoring Field Form
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Collection Date	Sample ID	Collection Time		Sampler's Initials
		Pace	Eqlab	
02/05/18	TB-20180205	LAB	LAB	EVB
02/05/18	IWF-20180205	1054	1055	EVB
02/05/18	EFF-20180205	1129	1135	EVB
02/05/18	EFFDUP-20180205	1129	1135	EVB
02/05/18	EFFMS-20180205	1129	1135	EVB
02/05/18	EFFMSD-20180205	1129	1135	EVB

GWETS Operational Data at Sample Collection

Extraction Wells

RW-2	99.9	gpm
RW-4	—	gpm
RW-5	79.8	gpm

Compound Treatment System

Influent Flow Rate (FIT-101)	177.3	gpm
Effluent Flow Rate (FIT-301)	221.4	gpm
Blower (FIT-201A)	2567	scfm
Influent Flow Pressure (PIT-101)	2.2	psi
Effluent Flow Pressure (PIT-301)	2.5	psi
pH (pHIT-201A)	8.1	

Notes:
gpm = gallons per minute
scfm = standard cubic feet per minute
psi = pounds per square inch