



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)										Completed by Laboratory												
PWS Name: Shin-Etsu Silicones of America					Laboratory Name: A&B Labs																	
PWS ID#: TX 0200619					TCEQ Lab ID #: TX275																	
PWS Address: 5650 Hwy 332 E, Freeport, TX 77541					Laboratory Address: 10100 East Frwy, Ste. 100 Houston, Tx 77029																	
PWS Contact: Jeremy Vogel																						
PWS Contact Phone #: 979-230-9595 ext. 664					Laboratory Contact: Shanntall Carpenter or Alisha Hughes																	
Inhibitor or Stabilizer Used (✓): Phosphate Silica Calcium carbonate																						
TREATMENT Alkalinity Dosage Rate: Inhibitor Dosage Rate:					Laboratory Contact Phone #: 713-453-6060																	
Sample Information										Parameters Requested: Analyses are required for the parameters checked. * If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.												
Sample Type (✓): X Compliance Non-compliance																						
Temperature and pH (Y or N): Y Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ? Y Were temperature and pH measured in the field within 15 minutes of sample collection?																						
Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement? (✓)	Original Sample ID #	Original Sample Date (MMDDYY)	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-Phosphate (1044) *	Silica (1049) *
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																
pbcu001	EWQP	5650 E HWY 332, Freeport, Tx 77541	9-10-19	08:30	7.9	25.6				19090747.01	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
DS01	DSTWQP	5650 E Hwy 332, Freeport, Tx 77541	9-10-19	08:30	7.8	22.1				1 .02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)										Sample Conditions Upon Receipt (✓)												
Name of Authorized PWS Representative (Print) Signature Organization Date										✓ Samples received unpreserved? Iced Ambient												
										Rejection Code (if applicable): Actual / Corrected sample temperature: 71-7.52												
Lewis Segovia										Date & Time of Sample Preservation (Acidified): 9-10-19 @ 13:34 Thermometer ID #: 8.6°C 1707629												
Chain of Custody										Laboratory Comments:												
Relinquished By (Signature)			Date/Time: 9-10-19 08:45		Relinquished By Courier (Signature)			Date/Time: 9-10-19 13:20														
Received By Courier (Signature)			Date/Time: 9-10-19 11:00		Received By Lab (Signature)			Date/Time: 9-10-19 13:20														

Laboratory Analysis Report

Total Number of Pages: 12

Job ID : 19090747



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
PWS ID #TX0200619 / Shin-Etsu Silicones of America

Report To :	Client Name:	Shin Etsu Silicones America	P.O.#.: 40213188
	Attn:	Jeremy Vogel	Sample Collected By: Lewis Segouia
	Client Address:	5650 Hwy. 332 E.	Date Collected: 09/10/19
	City, State, Zip:	Freeport, Texas, 77541	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
PbCu001 / EWQP / 5650 E HWY 332, Freeport, TX 77541	Drinking Water	19090747.01
DS01 / DSTWQP / 5650 E HWY 332, Freeport, TX77541	Drinking Water	19090747.02

Alisha Hughes

Released By: Alisha Hughes
Title: Project Manager
Date: 9/17/2019



This Laboratory is NELAP (T104704213-19-20) accredited. Effective: 04/01/2019; Expires: 3/31/2020

Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 09/10/2019 13:20

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 19090747

Date: 9/17/2019

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition

M6	Not calculated. Sample concentration high, more than 4X spike concentration. Control limits do not apply."The sample randomly selected as QC for this batch was not part of your project. Therefore, this sample matrix is not applicable to your project samples."
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**LABORATORY TEST RESULTS**

Job ID : 19090747

Date 9/17/2019

Client Name: Shin Etsu Silicones America

Attn: Jeremy Vogel

Project Name: PWS ID #TX0200619 / Shin-Etsu Silicones of America

Client Sample ID: PbCu001 / EWQP / 5650 E HWY 332, Freeport,

Job Sample ID: 19090747.01

Date Collected: TX 77541

09/10/19

Sample Matrix Drinking Water

Time Collected: 08:30

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Calcium	24.3	mg/L	20	2			09/16/19 17:18	BRR
	Iron	0.021	mg/L	1	0.01	0.3		09/16/19 16:40	BRR
	Manganese	0.046	mg/L	1	0.01	0.05		09/16/19 16:40	BRR
	Sodium	294	mg/L	250	25			09/16/19 16:47	BRR
EPA 300.0									
	Chloride	207	mg/L	50.00	5			09/12/19 18:35	RR
	Sulfate	1.59	mg/L	1.00	0.1			09/13/19 17:52	RR
SM 2320B									
	Alkalinity, as CaCO ₃ ¹	544	mg/L	1	20			09/16/19 11:00	KRS
SM 2340C									
	Total Hardness	145	mg CaCO ₃ /L	1	5			09/17/19 14:30	LEB
SM 2510B									
	Conductance	1365	umho/cm	1	2			09/17/19 13:30	LEB
SM 2540C									
	TDS	912.0	mg/L		10	500		09/12/19 13:00	CO

**LABORATORY TEST RESULTS**

Job ID : 19090747

Date 9/17/2019

Client Name: Shin Etsu Silicones America

Attn: Jeremy Vogel

Project Name: PWS ID #TX0200619 / Shin-Etsu Silicones of America

Client Sample ID: DS01 / DSTWQP / 5650 E HWY 332, Freeport,

Job Sample ID: 19090747.02

Date Collected: TX77541

09/10/19

Sample Matrix Drinking Water

Time Collected: 08:30

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
EPA 200.7									
	Calcium	24.8	mg/L	20	2			09/16/19 17:22	BRR
	Iron	BRL	mg/L	1	0.01	0.3		09/16/19 17:30	BRR
	Manganese	BRL	mg/L	1	0.01	0.05		09/16/19 17:30	BRR
	Sodium	316	mg/L	250	25			09/16/19 16:51	BRR
EPA 300.0									
	Chloride	196	mg/L	50.00	5			09/12/19 18:57	RR
	Sulfate	BRL	mg/L	1.00	0.1			09/13/19 18:14	RR
SM 2320B									
	Alkalinity, as CaCO ₃ ¹	530	mg/L	1	20			09/16/19 11:00	KRS
SM 2340C									
	Total Hardness	145	mg CaCO ₃ /L	1	5			09/17/19 14:30	LEB
SM 2510B									
	Conductance	1343	umho/cm	1	2			09/17/19 13:30	LEB
SM 2540C									
	TDS	942.0	mg/L		10	500		09/12/19 13:00	CO

¹-Parameter not available for accreditation

QUALITY CONTROL CERTIFICATE



Job ID : 19090747

Date : 9/17/2019

Analysis : **Method :** SM 2540C **Reporting Units :** mg/L

QC Batch ID : Qb19091271 **Created Date :** 09/12/19 **Created By :** CObuekwe

Samples in This QC Batch : 19090747.01,02

Sample Preparation : PB19091243 **Prep Method :** SM 2540C **Prep Date :** 09/12/19 12:43 **Prep By :** CObuekwe

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
TDS		BRL	mg/L		10	

QC Type: Duplicate

QC Sample ID: 19090717.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
TDS	514.0	490.0	mg/L	4.8	5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	476.0	95.2						80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 19090747

Date : 9/17/2019

Analysis : **Method :** EPA 300.0 **Reporting Units :** mg/L

QC Batch ID : Qb19091413 **Created Date :** 09/12/19 **Created By :** RRaval

Samples in This QC Batch : 19090747.01,02

Sample Preparation : PB19091410 **Prep Method :** EPA 300.0 **Prep Date :** 09/12/19 09:00 **Prep By :** RRaval

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Chloride	16887-00-6	BRL	mg/L	1.00	0.1		
Sulfate		BRL	mg/L	1.00	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Chloride	1	1.06	106	1	1.03	103	2.9	20	90-110	
Sulfate	1	1.02	102	1	1.08	108	5.7	20	90-110	

QC Type: MS and MSD

QC Sample ID: 19090763.04

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Chloride	163	1	N/A	N/A						80-120	M6
Sulfate	60.7	1	61.8	110						80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 19090747

Date : 9/17/2019

Analysis : **Method :** SM 2320B **Reporting Units :** mg/L

QC Batch ID : Qb19091625 **Created Date :** 09/16/19 **Created By :** KRSaranya

Samples in This QC Batch : 19090747.01,02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Alkalinity, as CaCO ₃		BRL	mg/L	1	20	

QC Type: Duplicate

QC Sample ID: 19090747.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Alkalinity, as CaCO ₃	532	530		0.4	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Alkalinity, as CaCO ₃	1190	1240	104	1190	1230	103	0.8	20	80-120	

QUALITY CONTROL CERTIFICATE



Job ID : 19090747

Date : 9/17/2019

Analysis : **Method :** EPA 200.7 **Reporting Units :** mg/L

QC Batch ID : Qb19091697 **Created Date :** 09/16/19 **Created By :** BRena

Samples in This QC Batch : 19090747.01,02

Digestion : PB19091639 **Prep Method :** EPA 200.7 **Prep Date :** 09/16/19 10:30 **Prep By :** Mwisman

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Calcium	7440-70-2	BRL	mg/L	1	0.1		
Iron	7439-89-6	BRL	mg/L	1	0.01		
Manganese	7439-95-5	BRL	mg/L	1	0.01		
Sodium	7440-23-5	BRL	mg/L	1	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Calcium	1	0.955	95.5	1	1.038	104	8.4	20	85-115	
Iron	1	0.971	97.1	1	0.993	99.3	2.2	20	85-115	
Manganese	1	1.012	101	1	1.018	102	0.6	20	85-115	
Sodium	1	1.045	105	1	1.037	104	0.8	20	85-115	

QC Type: MS and MSD

QC Sample ID: 19090748.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Calcium	102	1	N/A	N/A						75-125	M6
Iron	0.035	1	1.000	96.5						75-125	
Manganese	BRL	1	1.009	100						75-125	
Sodium	228	1	N/A	N/A						75-125	M6

QUALITY CONTROL CERTIFICATE



Job ID : 19090747

Date : 9/17/2019

Analysis : **Method :** SM 2510B **Reporting Units :** umho/cm

QC Batch ID : Qb19091786 **Created Date :** 09/17/19 **Created By :** LEBell

Samples in This QC Batch : 19090747.01,02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Conductance		BRL	umho/cm	1	2	

QC Type: Duplicate

QC Sample ID: 19090747.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Conductance	1369	1365	umho/cm	0.3	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Conductance	100	101.3	101						90-110	

QUALITY CONTROL CERTIFICATE



Job ID : 19090747

Date : 9/17/2019

Analysis : **Method :** SM 2340C **Reporting Units :** mg CaCO₃/L

QC Batch ID : Qb19091787 **Created Date :** 01/17/19 **Created By :** LEBell

Samples in This QC Batch : 19090747.01,02

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Total Hardness		BRL	mg CaCO ₃ /L	1	5	

QC Type: Duplicate

QC Sample ID: 19090747.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit	Qual
Total Hardness	145	145	mg CaCO ₃	0	20	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Total Hardness	1000	951	95.1	1000	951	95.1	0	20	80-120	



Sample Condition Checklist

A&B JobID : 19090747		Date Received : 09/10/2019		Time Received : 1:20PM	
Client Name : Shin Etsu Silicones America					
Temperature : 9.1-0.5CF=8.6°C		Sample pH : 7			
Thermometer ID : 1707629		pH Paper ID : 72375			
	Check Points	Yes	No	N/A	
1.	Cooler seal present and signed.		X		
2.	Sample(s) in a cooler.	X			
3.	If yes, ice in cooler.	X			
4.	Sample(s) received with chain-of-custody.	X			
5.	C-O-C signed and dated.	X			
6.	Sample(s) received with signed sample custody seal.		X		
7.	Sample containers arrived intact. (If no comment).	X			
8.	Matrix : <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input type="checkbox"/>				
9.	Sample(s) were received in appropriate container(s).	X			
10.	Sample(s) were received with proper preservative		X		
11.	All samples were logged or labeled.	X			
12.	Sample ID labels match C-O-C ID's	X			
13.	Bottle count on C-O-C matches bottles found.	X			
14.	Sample volume is sufficient for analyses requested.	X			
15.	Samples were received within the hold time.	X			
16.	VOA vials completely filled.			X	
17.	Sample accepted.	X			
18.	Has client been contacted about sub-out			X	
Comments : Include actions taken to resolve discrepancies/problem:					
Split and preserved with 1mL HNO3 LT#81258(9-10-19 @ 13:34); pH <2. -ANA 9-11-19.					

Received by : JMontemayor

Check in by/date : AArnett / 09/11/2019