WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Work Orders:	7A24059	**Report Date:**	2/07/2017
		Received Date:	1/24/2017
Project:	Carlsbad Desal Plant - WEEKLY	**Turnaround Time:**	Normal
		Phones:	1(619) 487-0760
		Fax:	
Attn:	Peter Shen	**P.O. #:**	
Client:	IDE Americas, Inc. - Carlsbad CA 4590 Carlsbad Blvd Carlsbad, CA 92008	**Billing Code:**	

ELAP-CA #1132 • EPA-UCMR #CA00211 • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

Dear Peter Shen,

Enclosed are the results of analyses for samples received 1/24/17 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:

Hai Van Nguyen
Senior Project Manager

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IDE Americas, Inc. - Carlsbad CA
4590 Carlsbad Blvd
Carlsbad, CA 92008

Project Number: Carlsbad Desal Plant - WEEKLY

Project Manager: Peter Shen

Reported:
02/07/2017 09:03

Sample Summary

Sample ID	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
M-001, Alias: 16-2900	KE/ VH	7A24059-01	Water	01/20/17 12:55	
M-INF, Alias: 16-2897	KE/ VH	7A24059-02	Water	01/20/17 04:45	
M-002, Alias: 16-2899	KE/ VH	7A24059-03	Water	01/20/17 05:00	

Not Certified Analyses Summary

Analyte	CAS #	Not Accredited By
SM 2520B in Water		
Salinity		NELAP

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Sample Results

Sample: M-001, Alias: 16-2900

7A24059-01 (Water)

Sampled: 01/20/17 12:55 by KE/ VH

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods							
Method: EPA 1664A	**Batch ID:** W7B0018		**Prepared:** 02/01/17 10:19				**Analyst:** joh
Oil & Grease (HEM)	ND	1.3	5.0	mg/l	1	02/02/17 18:04	
Method: SM 2520B	**Batch ID:** W7A2846		**Prepared:** 01/26/17 17:18				**Analyst:** dmn
Salinity	**50**			ppt	1	01/26/17 18:45	
Method: SM 2540D	**Batch ID:** W7A2837		**Prepared:** 01/26/17 16:15				**Analyst:** ajk
Total Suspended Solids	**28**		5	mg/l	1	01/26/17 17:35	

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Sample Results

(Continued)

Sample: M-INF, Alias: 16-2897
7A24059-02 (Water)

Sampled: 01/20/17 4:45 by KE/ VH

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods							
Method: SM 2520B	**Batch ID:** W7A2846		**Prepared:** 01/26/17 17:18				**Analyst:** dmn
Salinity	**33**			ppt	1	01/26/17 18:45	

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Reported:
02/07/2017 09:03

Sample Results

(Continued)

Sample: M-002, Alias: 16-2899
7A24059-03 (Water)

Sampled: 01/20/17 5:00 by KE/ VH

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods							
Method: SM 2520B	**Batch ID:** W7A2846		**Prepared:** 01/26/17 17:18				**Analyst:** dmn
Salinity	**35**			ppt	1	01/26/17 18:45	

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Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7A2837 - SM 2540D										
Blank (W7A2837-BLK1)				**Prepared & Analyzed: 01/26/17**						
Total Suspended Solids	ND		mg/l							
LCS (W7A2837-BS1)				**Prepared & Analyzed: 01/26/17**						
Total Suspended Solids	64.0		mg/l	60.1		106	90-110			
Duplicate (W7A2837-DUP1)	**Source: 7A24076-05**			**Prepared & Analyzed: 01/26/17**						
Total Suspended Solids	37.0		mg/l		37.0			0	20	
Duplicate (W7A2837-DUP2)	**Source: 7A25063-01**			**Prepared & Analyzed: 01/26/17**						
Total Suspended Solids	4.00		mg/l		3.00			29	20	R-03, J
Batch: W7A2846 - SM 2520B										
Duplicate (W7A2846-DUP1)	**Source: 7A24059-03**			**Prepared & Analyzed: 01/26/17**						
Salinity	34.7		ppt		34.7			0	20	
Batch: W7B0018 - EPA 1664A										
Blank (W7B0018-BLK1)				**Prepared: 02/01/17 Analyzed: 02/02/17**						
Oil & Grease (HEM)	ND	1.3	mg/l							
LCS (W7B0018-BS1)				**Prepared: 02/01/17 Analyzed: 02/02/17**						
Oil & Grease (HEM)	19.8	1.3	mg/l	20.0		99	78-114			
LCS (W7B0018-BS2)				**Prepared: 02/01/17 Analyzed: 02/02/17**						
Oil & Grease (HEM)	4.40	1.3	mg/l	5.00		88	78-114			J

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Quality Control Results (Continued)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods (Continued)

Analyte	Result	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W7B0018 - EPA 1664A (Continued)										
LCS Dup (W7B0018-BSD1)				**Prepared: 02/01/17**	**Analyzed: 02/02/17**					
Oil & Grease (HEM)	19.9	1.3	mg/l	20.0		100	78-114	0.5	18	

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Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
R-03	The RPD is not applicable for result below the reporting limit (either ND or J value).
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
Dil	Dilution
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Source	Sample that was matrix spiked or duplicated.
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ) and Detection Limit for Reporting (DLR)
MDA	Minimum Detectable Activity
NR	Not Reportable
TIC	Tentatively Identified Compound (TIC) using mass spectrometry. The reported concentration is relative concentration based on the nearest internal standard. If the library search produces no matches at, or above 85%, the compound is reported as unknown.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.
An Absence of Total Coliform meets the drinking water standards as established by the California State Water Resources Control Board (SWRCB)
All results are expressed on wet weight basis unless otherwise specified.
All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS 002.

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