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212 E. Rowland Street #423  
Covina, CA 91723

December 28, 2011

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Docket Control Center  
Arizona Corporation Commission  
1200 W. Washington Street  
Phoenix, Arizona 85007

AZ CORP COMMISSION  
DOCKET CONTROL

**RE: COMMENTS AND RESPONSES (Part-II) TO STAFF REPORT DATED 12/16/2011**  
**Docket No. WS-20794A-11-0140 and WS-20794A-11-0279**

DII-Emerald Springs, LLC ("DII") as per PROCEDURAL ORDER dated 11/21/2011, files the following comments and responses to the Staff Report dated 12/16/2011:

1. Attached is a document from the Engineer responsible for the design and installation of the existing WWTP. This reports documents the capacity of the exiting system, including the 2" force main, the lift station and the actual WWTP to be 96 units on normal ADEQ requirement flow. Please note that under normal flow 53 connections will produce 10,600 GPD. However, under the actual circumstances at the site we will probably never reached this flow. Our flow is very little and it may reach 50-60% of the normal ADEQ flow parameters.
2. Please correct the restriction allowing more connections to at least 96; which is the normal system capacity under ADEQ parameters.

If you need additional information, please contact me directly at 626-664-0602.

Sincerely;

DII-Emerald Springs, LLC  
Henry Melendez, President

Arizona Corporation Commission

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**THE HARCUVAR COMPANY**

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**M E M O R A N D U M**

**TO:** Mr. Henry Melendez  
**FROM:** James D. Downing, P.E.  
**DATE:** December 28, 2011  
**SUBJECT:** Emerald Springs WWTP Lift Station and Force Main

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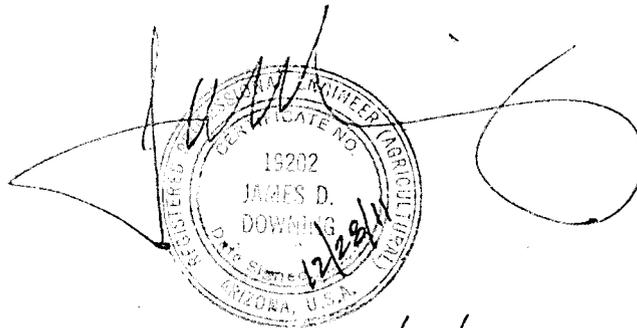
Using ADEQ design parameters, including peaking factors, the maximum capacity of the subject system will be 96 residential lots, or 19,200 gpd. See the attached spreadsheet.

Should you require anything further, please advise.

**DII-Emerald Springs, LLC: Docket No. WS-20794A-11-0140 and WS-20794A-11-0279**

1	Emerald Springs WWTP Force Main		
2			
3	Scenario	Current	Maximum
4			
5	Lots	53	96
6	Lot type	residential	residential
7	People / lot	2.5	2.5
8	Population	132.5	240
9	Wastewater generation	gpcd	80
10		gpd	10,600
11	Peaking factor		3.476
12	Peak flow	gpm	25.59
13		cfs	0.06
14	Force main size	in	2.00
15	Force main area	sq	3.14
16		sf	0.02
17	Velocity	fps	2.62
18	Length	ft	2,500
19	C		140
20	D	in	2.00
21	Friction loss	ft	38.59
22	Elevation head	ft	10.00
23	Lift	ft	10.00
24	Total head	ft	58.59
25	Power required	hp	0.58

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