

**APPENDIX G**  
**PERCOLATION TESTING REPORT**



April 8, 2021

Ms. Tracey Williams  
Project Coordinator  
National Community Renaissance  
9421 Haven Avenue  
Rancho Cucamonga, California 91730

**Subject: Percolation Testing  
24960 Adams Avenue  
Murrieta, California  
EEI Project NCO-73136.4a**

Reference: Geotechnical Investigation  
24960 Adams Avenue  
City of Murrieta, Riverside County,  
California 92562  
Assessor's Parcel Number (APN): 906-080-018  
By EEI, dated March 12, 2021, EEI Project No.NCO-73136.4

Dear Ms. Williams:

This letter presents the results of the Percolation testing performed by EEI personnel on April 7, 2021 at the subject property site in Murrieta, California.

Two percolation tests were performed at the locations identified as P-1 and P-2. The approximate locations of the percolation tests are identified on Boring Location Map (**Figure 1**). Percolation test wells were constructed by inserting 3-inch-diameter perforated PVC pipe in the borings and backfilling the annular space with  $\frac{3}{8}$ -inch gravel to prevent caving during the percolation test. Following construction of the percolation test wells, they were filled with water and pre-saturated. Percolation testing was then performed, and consisted of refilling the test wells with water to approximate referenced elevation and taking a reading of drop in water level every ten minutes for a period of approximately one hour.

Table 1 presents the measured percolation and corresponding infiltration rates calculated for the test holes.

TABLE 1 Summary of Percolation Testing			
Location	Depth (ft.)	Pre-Adjusted Percolation Rate (in/hr.)	Infiltration Rate (in/hr.)
P-1	4.85	43.92	1.26
P-2	4.90	72	2.38

The percolation test results are presented in attached. It must be realized that the infiltration rates presented above are as tested infiltration rates and do not include a factor of safety used for design rates. The project civil engineer should determine the appropriate factor of safety for the proposed disposal system. We note that the design and location of a storm water dissipation/retention system has not yet been determined. Therefore our percolation test was performed in soils that are generally representative of the overall property.

We appreciate to be of continued service. Please contact us should you need additional information.

Respectfully Submitted,  
EEI

*Mohammad Joolazadeh*




Mohammad Joolazadeh  
GE 2199 (exp. 6/30/22)  
Senior Geotechnical Engineer

Attachments: Figure 1  
Percolation Tests Results

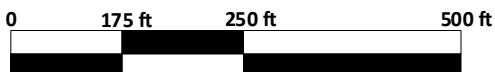


Source: Google Earth, 2020

 B-6 *Approximate Locations of exploratory borings*

 P-2 *Approximate Locations of percolation tests*

Scale: 1" = 250'



Note: All Locations Are Approximate

**GEOTECHNICAL MAP**  
 National Community Renaissance  
**Proposed Residential Development**  
 24960 Adams Ave  
 APN 906-080-018  
 Murrieta, Riverside County, CA  
 EEI Project Number NOC-73136



**FIGURE 1**



Project Adams Ave

By BS

Client National Community Renaissance

Date 4/7/2021

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### PERCOLATION TEST

Borehole ID	B-/P-1	Contractor	EEI
		Equipment/Rig	Hand Auger
Presoak Start	4/7/2021	Boring Diameter	6-inches
Testing Start	4/7/2021	Boring Depth	4.85'
Testing Completion	4/7/2021	Well Installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Notes	Two trials were performed. In both trials, the water level dropped more than 0.5' in less than 30 minutes. A 24 hour pre-soak was not required.		

Reading	Time		Depth to Water		Elapsed Time min.	Water Drop in.	Perc. Rate in./hr.
	Start	Finish	Start	Finish			
			ft.	ft.			
1	10:05	10:15	0.75	1.20	10	5.40	32.40
2	10:15	10:25	0.52	1.11	10	7.08	42.48
3	10:25	10:35	0.50	1.07	10	6.84	41.04
4	10:35	10:45	0.59	1.08	10	5.88	35.28
5	10:45	10:55	0.33	0.94	10	7.32	43.92
6	10:55	11:05	0.32	0.93	10	7.32	43.92

Stabilized Percolation Rate = 43.92 in/hr



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### PERCOLATION TEST

Borehole ID	B-/P-2	Contractor	EEI
		Equipment/Rig	Hand Auger
Presoak Start	4/7/2021	Boring Diameter	6-inches
Testing Start	4/7/2021	Boring Depth	4.9'
Testing Completion	4/7/2021	Well Installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Notes	Two trials were performed. In both trials, the water level dropped more than 0.5' in less than 30 minutes. A 24 hour pre-soak was not required.		

Reading	Time		Depth to Water		Elapsed Time min.	Water Drop in.	Perc. Rate in./hr.
	Start	Finish	Start	Finish			
			ft.	ft.			
1	1:20	1:30	0.79	1.86	10	12.84	77.04
2	1:30	1:40	0.74	1.78	10	12.48	74.88
3	1:40	1:50	0.77	1.73	10	11.52	69.12
4	1:50	2:00	0.73	1.73	10	12.00	72.00
5	2:00	2:10	0.69	1.69	10	12.00	72.00
6	2:10	2:20	0.74	1.74	10	12.00	72.00

Stabilized Percolation Rate = 72.00 in/hr