Ponded Areas on Lomas Blvd at Broadway Blvd and John Street
Marble Arno LOMR

Location	Flow Area (ft^2) *	Depth	Length	Volume (ft^3)	Ponded Area (ft^2)	Total # of Manholes in Street	Ponded Area/Manhole in PCSWMM (ft^2)
Broadway Blvd Sta. Existing @ Lomas Blvd to Sta. 5+75 *	17.1	0.67	350	5985	8933		-
Broadway Blvd Sta. 0+00 to Sta. 1+50 *	18.8	0.67	150	2820	4209		-
Lomas Blvd @ John Street to Sta. 21+75 *	22.5	0.67	458	10305	15381		-
				Total:	28522	9	3169

* Calculation below use Hydraulic Toolbox Version 5.1 to calculate roadway flow area to approximate for model. These calculations were only done for project vicinity.

Volume Loss from Model

Road Name	Junction Name in Model	Volume Loss (MG)	Volume Loss (ft^3)	Ponded Area Available (ft^2)	Approximate Flow Depth in Roadway (ft)	Approximate Flow Depth in Roadway (in)	
Lomas Blvd	SDMH12	0	0.0	28522	0.92	11.1	
Lomas Blvd	Ex.JohnStMH	0	0.0				
Lomas Blvd	COA7848	0.052	6951.9				
Lomas Blvd	SDMH1062	0.042	5615.0				
Lomas Blvd	SDMH1061	0.03	4010.7				
Lomas Blvd	SDMH1064	0.026	3475.9				
Lomas Blvd	SDMH1068	0.018	2406.4				
Lomas Blvd	SDMH9+18	0.018	2406.4				
Lomas Blvd	SDMH1065	0.011	1470.6				
		Total:	26337				

Ponded Areas on Broadway Blvd between Marble Ave and Granite Ave
Marble Arno LOMR

Location	Flow Area (ft^2) *	Depth	Length	Volume (ft^3)	Ponded Area (ft^2)	Total # of Manholes in Street	Ponded Area/Manhole in PCSWMM (ft^2)
Broadway Blvd Sta. Existing @ Sta. 5+75 to North of Granite Ave *	15.2	0.67	913	13877.6	20713	4	5178

* Flow area calculated using Hydraulic Toolbox 5.1. Split between GraniteSDPostOffice & COA7766JB manhole.

Volume Loss from Model

Road Name	Junction Name in Model	Volume Loss (MG)	Volume Loss (ft^3)	Ponded Area Available (ft^2)	Approximate Flow Depth in Roadway	Approximate Flow Depth in Roadway (in)	
Broadway Blvd Sta. Existing @ 5+75 to North of Granite Ave *	GraniteSDPostOffice	0.041	5481.3	20713	0.52	6.3	
Broadway Blvd Sta. Existing @ 5+75 to North of Granite Ave *	COA7766JB	0.04	5347.6				
		Total:	10829				

* Calculation below use Hydraulic Toolbox Version 5.1 to calculate roadway flow area to approximate for model. These calculations were only done for project vicinity.

Ponded Areas on John Street, Roma Ave, Commercial Street, Marquette Ave, Marble Ave and Arno St Marble Arno LOMR					
Length of Road From GIS (ft)	Width of Road - Average (ft)	Surface Area of Road From GIS (ft^2) *	Total # of Manholes in Street Analyzed	Ponded Area/Manhole in PCSWMM (ft^2)	Comment
681	40	27240	-	-	John Street between Lomas Blvd and Roma Ave.
232	27	6264	-	-	Roma Ave between Commerical and John St.
326	29	9454	-	-	Commercial St between Marquette Ave and Roma Ave
408	33	13464	-	-	Commercial St between Marquette Ave and Tijeras Ave (south of bridge)
137	37	5069	-	-	On Marquette Ave at Intersection
	Total	61491	2	30746	
378	30	11340	4	2835	On Marble Ave between Broadway Blvd and Arno St. **
495	32	15840	0	-	On Arno St between Lomas Blvd and Marble Ave. **
-	Total:	27180	4	6795	Total between Marble and Arno.
-	-	27826	1	27826	In USPS post office parking lot
* Ponded area calculations above assume no road crown. These calculations were only done for project vicinity and not adjusted for road crown.					
** There are no inlets on Arno. Assumed it will surge through inlets on Marble and pond in Marble and Arno. No area added in Arno, only in Marble.					