

**NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS  
NCTCOG STORMWATER QUALITY MONITORING PROJECT  
NCTCOG PROJECT ID 100004891  
CITY OF MESQUITE 2009**

**Sample Collection Report  
Event Date: October 1, 2009**

Storm Summary

Storm description: A line of showers and thunderstorms moved across the region from the northwest to the southeast preceding a cool front.

Rain event start time and date:	1839 10/01/09	Rainfall total:	0.51 in
Rain event end time and date:	1929 10/01/09	Peak 1-hr rate:	0.51 in/hr
Rainfall station:	KTXMESQU7		
Antecedent dry period:	225 hrs		

Comments: Due to a loose rain gauge connection, the storm summary was developed based on the data obtained from weather station KTXMESQU7 in the North Mesquite Area, Mesquite for this event ([www.wunderground.com/weatherstation](http://www.wunderground.com/weatherstation)).

MS 0901

Station location description: South Mesquite Creek at Mesquite Dr.

Flow start time and date:	1840 10/01/09	Time first aliquot collected:	1845
Flow end time and date:	2135 10/01/09	Time last aliquot collected:	2047
Peak depth:	0.3 ft	Aliquots collected:	6
Average depth:	0.04 ft	Total sample volume:	3.5 gal

Comments: None.

MS 0902

Station location description: North of New Market Road.

Flow start time and date:	1845 10/01/09		
Flow end time and date:	1235 10/02/09		
Time first aliquot collected:	1857 10/01/09		
Time last aliquot collected:	2059 10/01/09		
Peak depth:	4.4 ft	Aliquots collected:	6
Average depth:	1.9 ft	Total sample volume:	3.5 gal

Comments: None.

MS 0903

Station location description: North of Pioneer, behind home on west side of Creek.

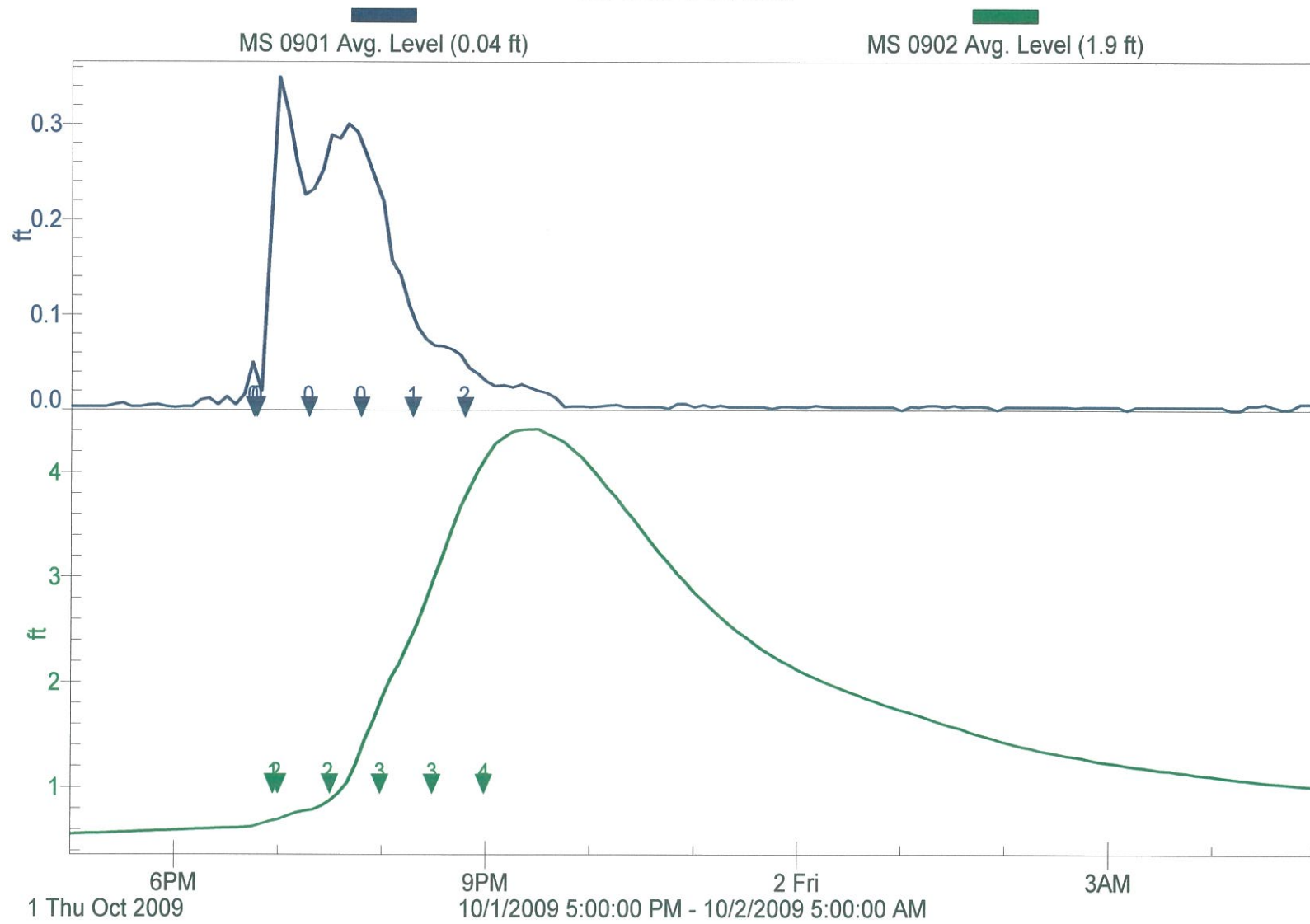
Comments: No sample was collected. The bubbler module experienced a malfunction due to in stream siltation and debris resulting in incorrect stage data. The bubbler line was cleared and the sampler was redeployed.

Prepared By: Chad Richard Date: 11/15/09

Checked By: [Signature] Date: 11/15/09

# NCTCOG CITY OF MESQUITE

MS 0901 & MS 0902



Analytical Results Summary  
NCTCOG Stormwater Quality Monitoring Project  
NCTCOG Project 100004891  
CITY OF MESQUITE 2009

Storm Event:10/01/09 Project Number: 100004891	MS 0901	MS 0902	MS 0903	
PARAMETER NAME	COMPOSITE	COMPOSITE	COMPOSITE	UNIT*
Total Dissolved Solids (TDS)	70.0	112	NST	mg/L
TSS by EPA 160.2	50.00	392.0	NST	mg/L
Biochemical Oxygen Demand	11.4	6.43	NST	mg/L
Chemical Oxygen Demand	21.1	18.8	NST	mg/L
Total Nitrogen	2.50	1.60	NST	mg/L
Phosphorus Dissolved	0.11	0.12	NST	mg/L
Diazinon	<0.037 U	<0.037 U	NST	µg/L
Arsenic Total	<0.002 U	0.002 J	NST	mg/L
Copper, Total	0.008 J	0.019	NST	mg/L
Cadmium, Total	<0.001 U	<0.001 U	NST	mg/L
Lead, Total	0.006 J	0.009 J	NST	mg/L
Zinc, Total	0.056	0.068	NST	mg/L
Chromium, Total	<0.003 U	0.007 J	NST	mg/L
Phosphorus, Total	0.21	0.24	NST	mg/L
PARAMETER NAME	GRAB	GRAB	GRAB	UNIT
Oil & Grease(HEM)	<1.40 U	<1.40 U	NST	mg/L
pH (lab)	7.35	7.53	NST	su
pH (field)	7.4	6.9	NST	su
Ambient Air Temperature (field)	73	73	NST	°F
E. Coli	190	70.0	NST	col/100 mL
Total Coliforms	1,900,000	410,000	NST	col/100 mL

\* - Reported in mg/L and µg/L. The units mg/L and µg/L are equal to ppm and ppb, respectively.

">" - Not Identified Above the Upper Detection Limit

"<" - Not Identified Below the Lower Detection Limit

J - Positively Identified Below the Lower Detection Limit

NST - No Sample Taken

U - Undetected

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CITY OF MESQUITE 2009**

**Sample Collection Report  
Event Date: October 21, 2009**

Storm Summary

Storm description: A large area of rainfall moved across the region from the west to the east preceding a cold front.

Rain event start time and date:	0630 10/21/09	Rainfall total:	0.15 in
Rain event end time and date:	0920 10/21/09	Peak 1-hr rate:	0.12 in/hr
Rainfall station:	MS 0901		
Antecedent dry period:	184 hrs		

Comments: The rain event end time and date are a result of the sampling equipment being removed at the conclusion of the sampling activities.

MS 0901

Station location description: South Mesquite Creek at Mesquite Dr.

Comments: A successful sample was collected for this quarter on October 1, 2009.

MS 0902

Station location description: North of New Market Road.

Comments: A successful sample was collected for this quarter on October 1, 2009.

MS 0903

Station location description: North of Pioneer, behind home on west side of Creek.

Flow start time and date:	0830 10/21/09	Time first aliquot collected:	1008
Flow end time and date:	1255 10/21/09	Time last aliquot collected:	1211

Peak depth:	2.3 ft	Aliquots collected:	6
Average depth:	1.2 ft	Total sample volume:	3.5 gal

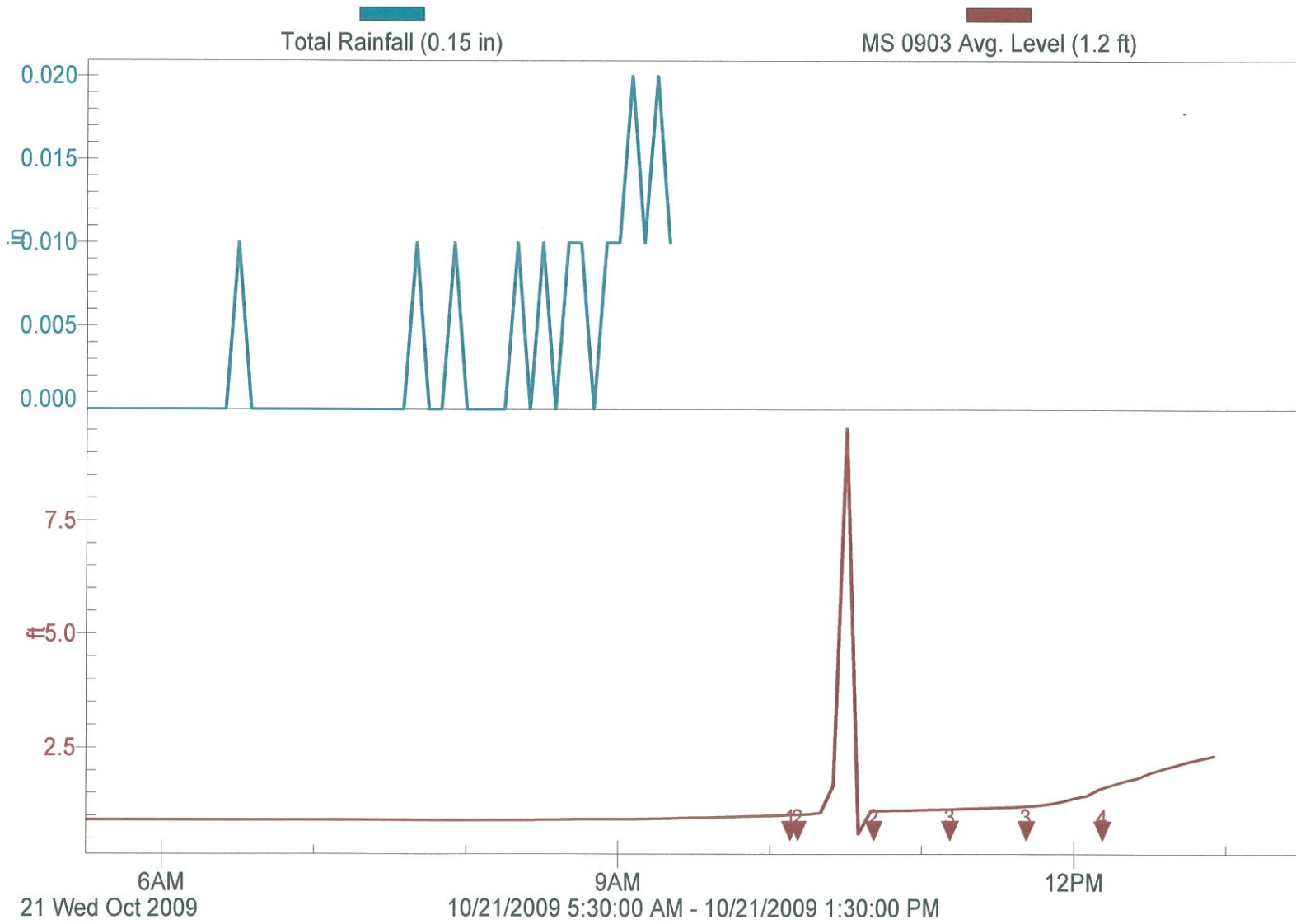
Comments: The bubbler tubing was compressed during field activities resulting in incorrect stage data of over nine feet. The bubbler line was cleared and sampling was resumed.

Prepared By: Chad Richards Date: 11/15/09

Checked By: [Signature] Date: 11/15/09

# NCTCOG CITY OF MESQUITE

MS 0903



Analytical Results Summary  
NCTCOG Stormwater Quality Monitoring Project  
NCTCOG Project 100004891  
CITY OF MESQUITE 2009

Storm Event:10/21/09 Project Number: 100004891	MS 0901	MS 0902	MS 0903	
PARAMETER NAME	COMPOSITE	COMPOSITE	COMPOSITE	UNIT*
Total Dissolved Solids (TDS)	NST	NST	644	mg/L
TSS by EPA 160.2	NST	NST	6.000	mg/L
Biochemical Oxygen Demand	NST	NST	0.620	mg/L
Chemical Oxygen Demand	NST	NST	22.5	mg/L
Total Nitrogen	NST	NST	1.50	mg/L
Phosphorus Dissolved	NST	NST	0.08 J	mg/L
Diazinon	NST	NST	<0.037 U	µg/L
Arsenic Total	NST	NST	<0.002 U	mg/L
Copper, Total	NST	NST	<0.008 U	mg/L
Cadmium, Total	NST	NST	<0.001 U	mg/L
Lead, Total	NST	NST	<0.004 U	mg/L
Zinc, Total	NST	NST	0.035 J	mg/L
Chromium, Total	NST	NST	<0.003 U	mg/L
Phosphorus, Total	NST	NST	0.09 J	mg/L
PARAMETER NAME	GRAB	GRAB	GRAB	UNIT
Oil & Grease(HEM)	NST	NST	<1.40 U	mg/L
pH (lab)	NST	NST	7.80	su
pH (field)	NST	NST	7.9	su
Ambient Air Temperature (field)	NST	NST	63	°F
E. Coli	NST	NST	900	col/100 mL
Total Coliforms	NST	NST	230,000	col/100 mL

\* - Reported in mg/L and µg/L. The units mg/L and µg/L are equal to ppm and ppb, respectively.

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- J - Positively Identified Below the Lower Detection Limit
- NST - No Sample Taken
- U - Undetected