



**NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS  
NCTCOG STORMWATER QUALITY MONITORING PROJECT  
PROJECT ID 100024283  
CITY OF MESQUITE 2012**

**Sample Collection Report  
Event Date: July 7, 2012**

Storm Summary

Storm description: An area of pop-up showers and light thunderstorms developed throughout the vicinity.

Rain event start time and date: 1610 7/7/12    Rainfall total:                    0.16 in  
Rain event end time and date: 1955 7/7/12    Peak 1-hr rate:                    0.10 in/hr

Rainfall station:                    MS 1201  
Antecedent dry period:            143 hrs

Comments: The antecedent dry period was calculated based on the data obtained from weather station KHQZ at Mesquite Metro Airport, for this event ([www.wunderground.com/weatherstation](http://www.wunderground.com/weatherstation)).

MS 1201

Station location description: North of New Market Road (in Park)

Flow start time and date:            1700 7/7/12    Time first aliquot collected: 1737  
Flow end time and date:            1950 7/7/12    Time last aliquot collected: 1940

Peak depth:                    2.8 ft            Aliquots collected:            6  
Average depth:                1.3 ft            Total sample volume:        3.5 gal

Comments: An additional aliquot is shown on the graph prior to the sample sequence that was stopped by the field crew and was not collected. The flow end time and date are a result of the sampling equipment being removed at the conclusion of the sampling activities.

MS 1202

Station location description: North Mesquite Creek at Edward's Church

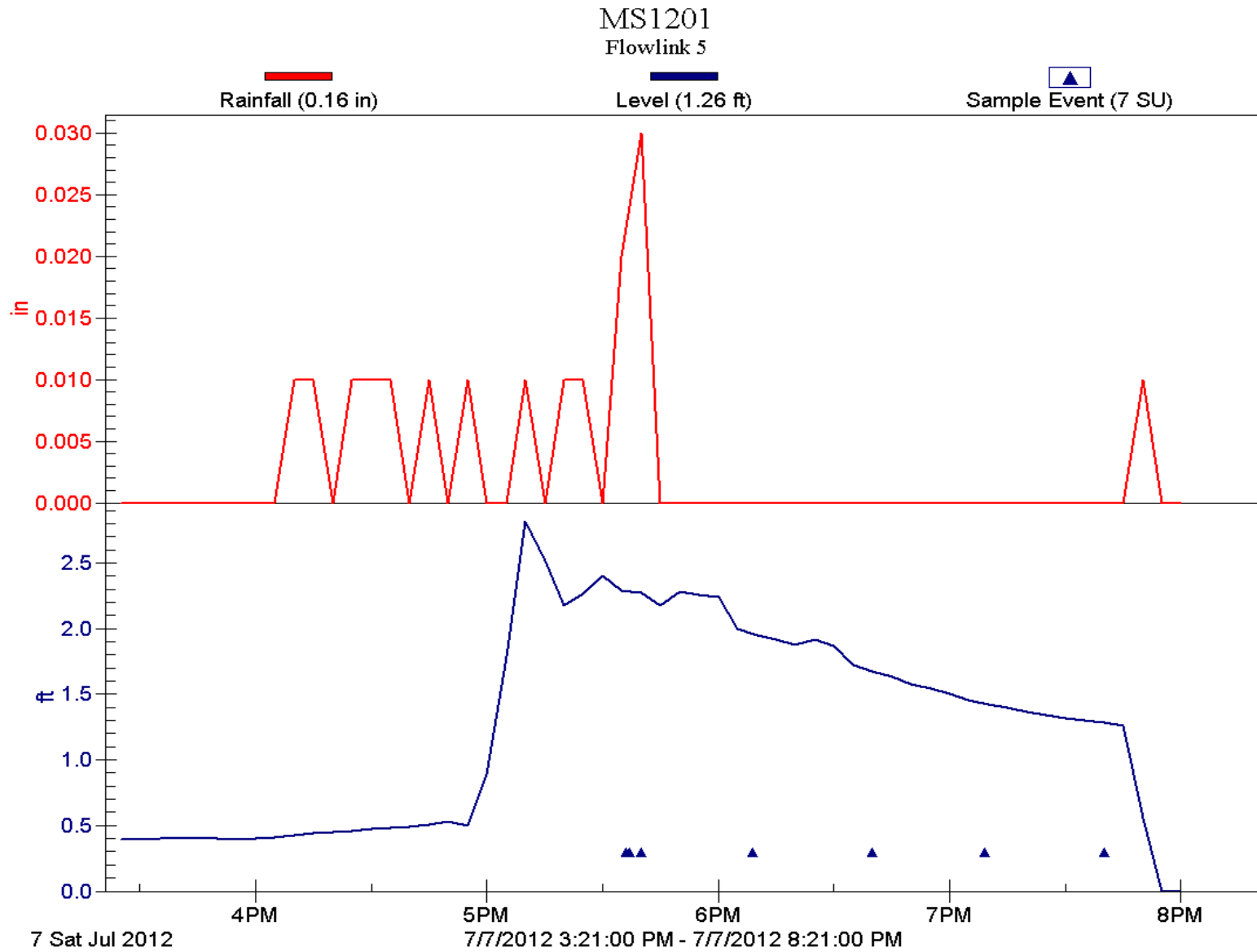
Comments: A sample could not be collected at this site for this event.

Prepared By: Sue Shartzter\_\_\_\_\_

Date: October 13, 2012\_\_\_\_\_

Checked By: Chad Richards\_\_\_\_\_

Date: October 23, 2012\_\_\_\_\_



Analytical Results Summary  
NCTCOG Stormwater Quality Monitoring Project  
NCTCOG Project 100024283  
CITY OF MESQUITE 2012

Storm Event: 07/07/12 Project Number: 100024283	MS 1201	MS 1202	
PARAMETER NAME	COMPOSITE	COMPOSITE	UNIT*
Total Dissolved Solids (TDS)	228	NST	mg/L
Total Suspended Solids (TSS)	180.0	NST	mg/L
Biochemical Oxygen Demand	14.6	NST	mg/L
Chemical Oxygen Demand	47.3	NST	mg/L
Total Nitrogen	11.4	NST	mg/L
Phosphorus, Dissolved	0.03	NST	mg/L
Carbaryl	<0.060 U	NST	µg/L
Arsenic, Total	0.002 J	NST	mg/L
Copper, Total	0.026	NST	mg/L
Lead, Total	0.011	NST	mg/L
Zinc, Total	0.109	NST	mg/L
Chromium, Total	0.010	NST	mg/L
Phosphorus, Total	0.12	NST	mg/L
PARAMETER NAME	GRAB	GRAB	UNIT
Oil & Grease(HEM)	<1.40 U	NST	mg/L
pH (field)	8.5	NST	su
Ambient Air Temperature (field)	77	NST	°F
Water Temperature (field)	83.7	NST	°F
E. Coli	1,100	NST	col/100 mL
Specific Conductivity	87.1	NST	µS/cm
Total Coliforms	18,000	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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**Sample Collection Report  
Event Date: July 15, 2012**

Storm Summary

Storm description: An area of showers and thunderstorms developed throughout the vicinity.

Rain event start time and date: 1255 7/15/12 Rainfall total: 0.23 in  
Rain event end time and date: 1415 7/15/12 Peak 1-hr rate: 0.23 in/hr

Rainfall station: KHQZ  
Antecedent dry period: 182 hrs

Comments: The rain gauge was offline for this event. The storm summary was calculated based on the data obtained from weather station KHQZ at Mesquite Metro Airport, for this event ([www.wunderground.com/weatherstation](http://www.wunderground.com/weatherstation)).

MS 1201

Station location description: North of New Market Road (in Park)

Comments: A successful sample was collected at this site for this quarter on July 7, 2012.

MS 1202

Station location description: North Mesquite Creek at Edward's Church

Flow start time and date: 1245 7/15/12 Time first aliquot collected: 1254  
Flow end time and date: 1505 7/15/12 Time last aliquot collected: 1458

Peak depth:	5.1 ft	Aliquots collected:	6
Average depth:	2.5 ft	Total sample volume:	3.5 gal

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

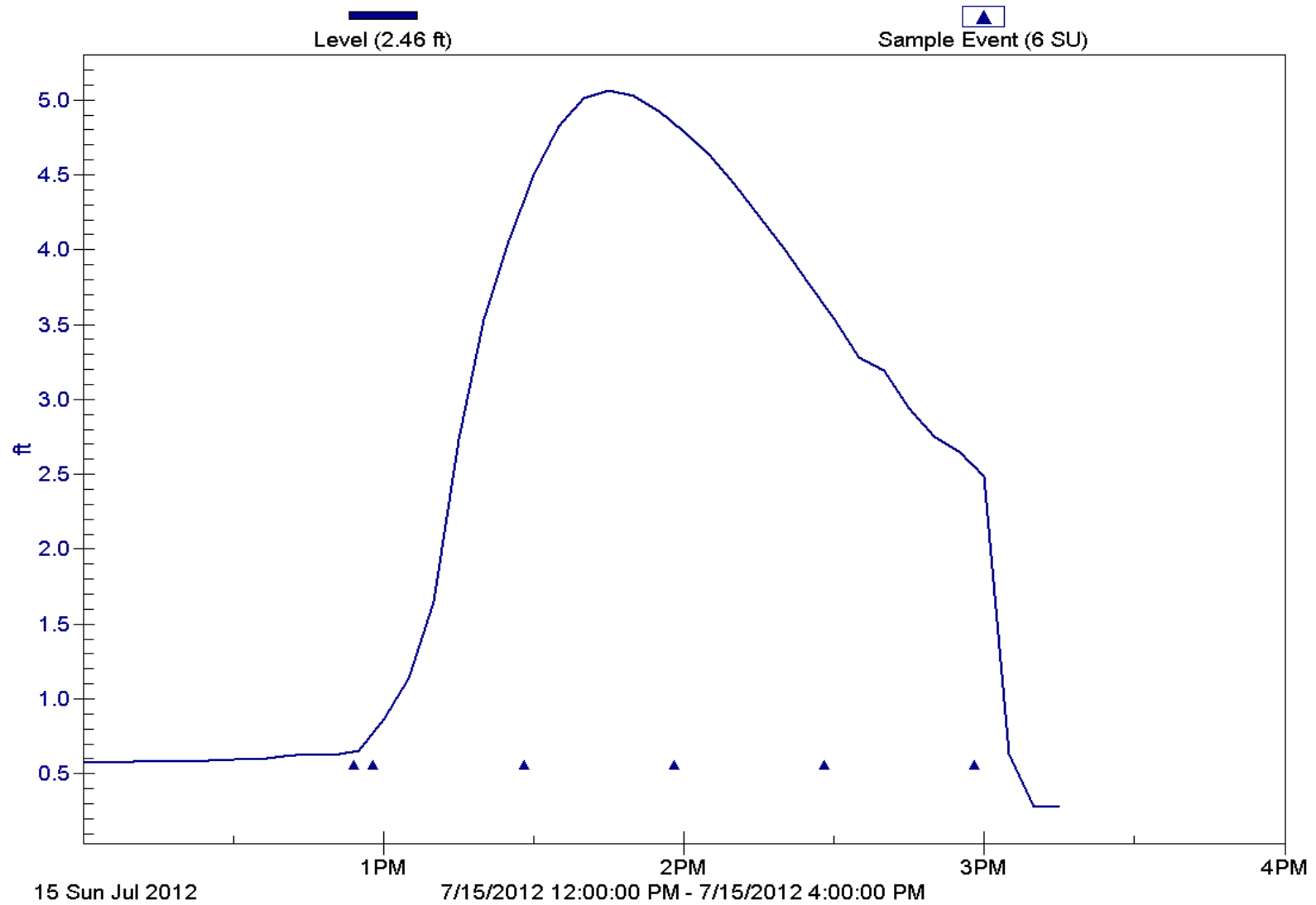
Prepared By: Sue Shartzter\_\_\_\_\_

Date: October 13, 2012\_\_\_\_\_

Checked By: Chad Richards\_\_\_\_\_

Date: October 23, 2012\_\_\_\_\_

MS1202  
Flowlink 5



Analytical Results Summary  
 NCTCOG Stormwater Quality Monitoring Project  
 NCTCOG Project 100024283  
 CITY OF MESQUITE 2012

Storm Event: 07/15/12 Project Number: 100024283	MS 1201	MS 1202	
PARAMETER NAME	COMPOSITE	COMPOSITE	UNIT*
Total Dissolved Solids (TDS)	NST	122	mg/L
Total Suspended Solids (TSS)	NST	70.00	mg/L
Biochemical Oxygen Demand	NST	5.81	mg/L
Chemical Oxygen Demand	NST	45.0	mg/L
Total Nitrogen	NST	36.0	mg/L
Phosphorus, Dissolved	NST	0.06	mg/L
Carbaryl	NST	<0.600 U	µg/L
Arsenic, Total	NST	0.006 J	mg/L
Copper, Total	NST	0.012	mg/L
Lead, Total	NST	<0.004 U	mg/L
Zinc, Total	NST	0.028 J	mg/L
Chromium, Total	NST	<0.003 U	mg/L
Phosphorus, Total	NST	0.31	mg/L
PARAMETER NAME	GRAB	GRAB	UNIT
Oil & Grease(HEM)	NST	18.3	mg/L
pH (field)	NST	8.4	su
Ambient Air Temperature (field)	NST	85	°F
Water Temperature (field)	NST	86.1	°F
E. Coli	NST	2,700	col/100 mL
Specific Conductivity	NST	136	µS/cm
Total Coliforms	NST	62,000	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