



**NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS
NCTCOG STORMWATER QUALITY MONITORING PROJECT
PROJECT ID 100037643
CITY OF MESQUITE 2013**

**Sample Collection Report
Event Date: October 5, 2013**

Storm Summary

Storm description: The region received scattered light showers in the morning, followed by a line of showers associated with a cold front from the northwest during the late evening hours.

Rain event start time and date: 1950 10/05/13 Rainfall total: 0.14 in
Rain event end time and date: 2135 10/05/13 Peak 1-hr rate: 0.10 in/hr

Rainfall station: MS1301
Antecedent dry period: 357 hrs

Comments: The antecedent dry period was calculated using a combination of weather data from the onsite rain gauge and the weather station KHQZ located at Mesquite, TX.

MS 1301

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

Flow start time and date: 2205 10/05/13 Time first aliquot collected: 2217 10/05/13
Flow end time and date: 0025 10/06/13 Time last aliquot collected: 0020 10/06/13

Peak depth: 2.4 ft Aliquots collected: 6
Average depth: 1.8 ft Total sample volume: 3.5 gal

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

MS 1302

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

Flow start time and date: 2025 10/05/13 Time first aliquot collected: 2034
Flow end time and date: 2240 10/05/13 Time last aliquot collected: 2238

Peak depth: 1.0 ft Aliquots collected: 6
Average depth: 0.8 ft Total sample volume: 3.5 gal

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

Prepared By: Vinod Balakrishnan

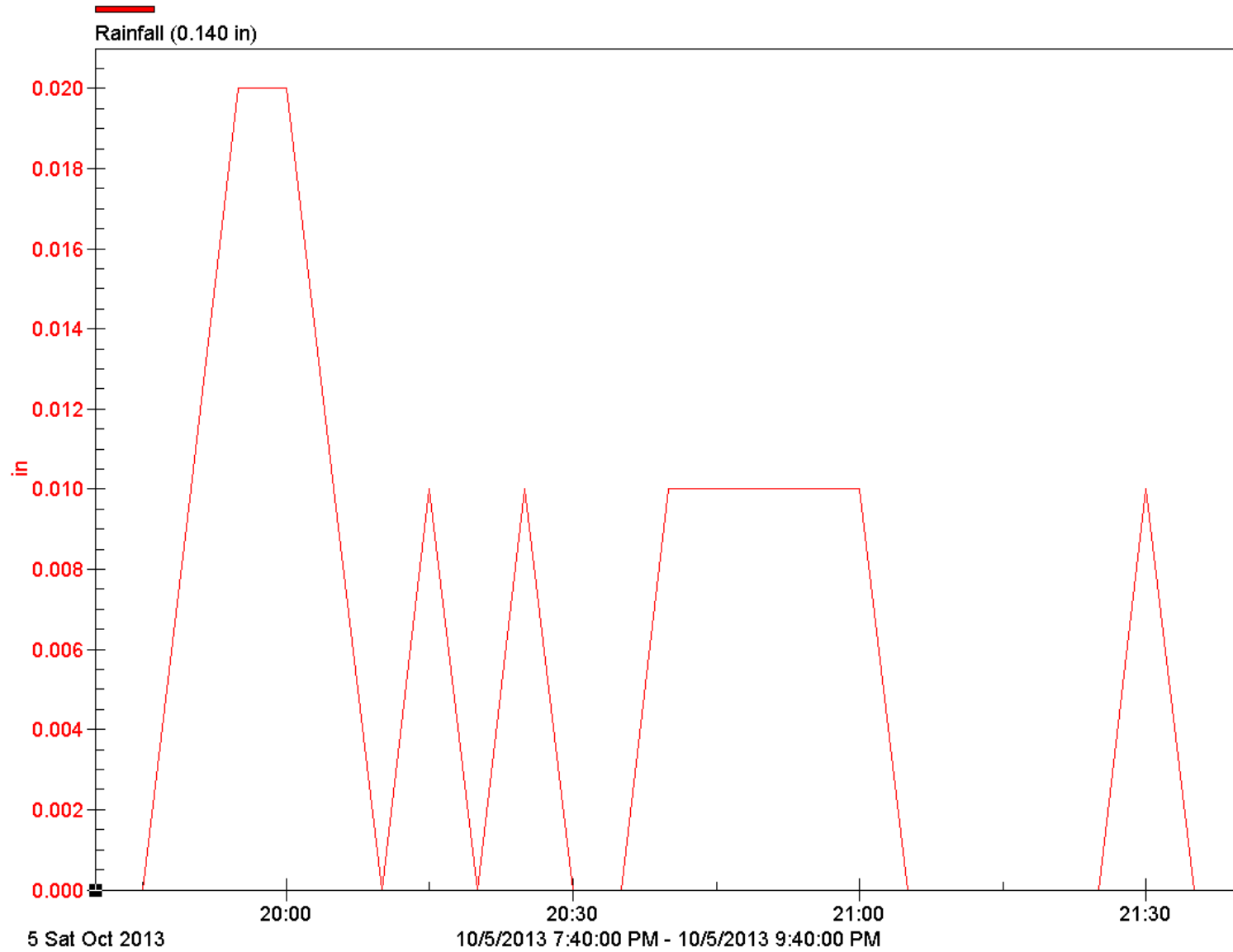
Date: October 8, 2013

Checked By: Chad Richards

Date: October 16, 2013

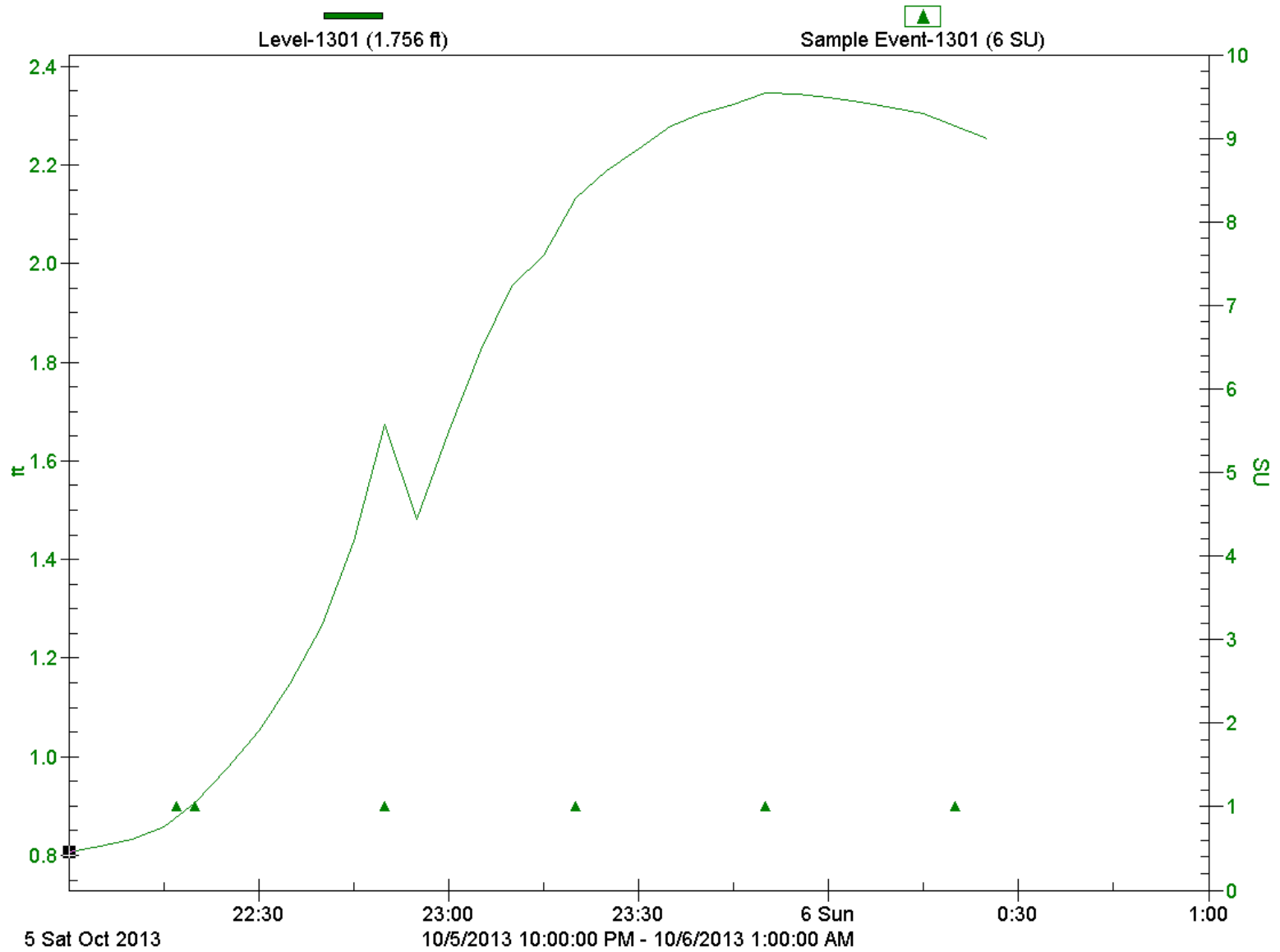
10/5/2013 19:40, 0.000

City of Mesquite
MS1301



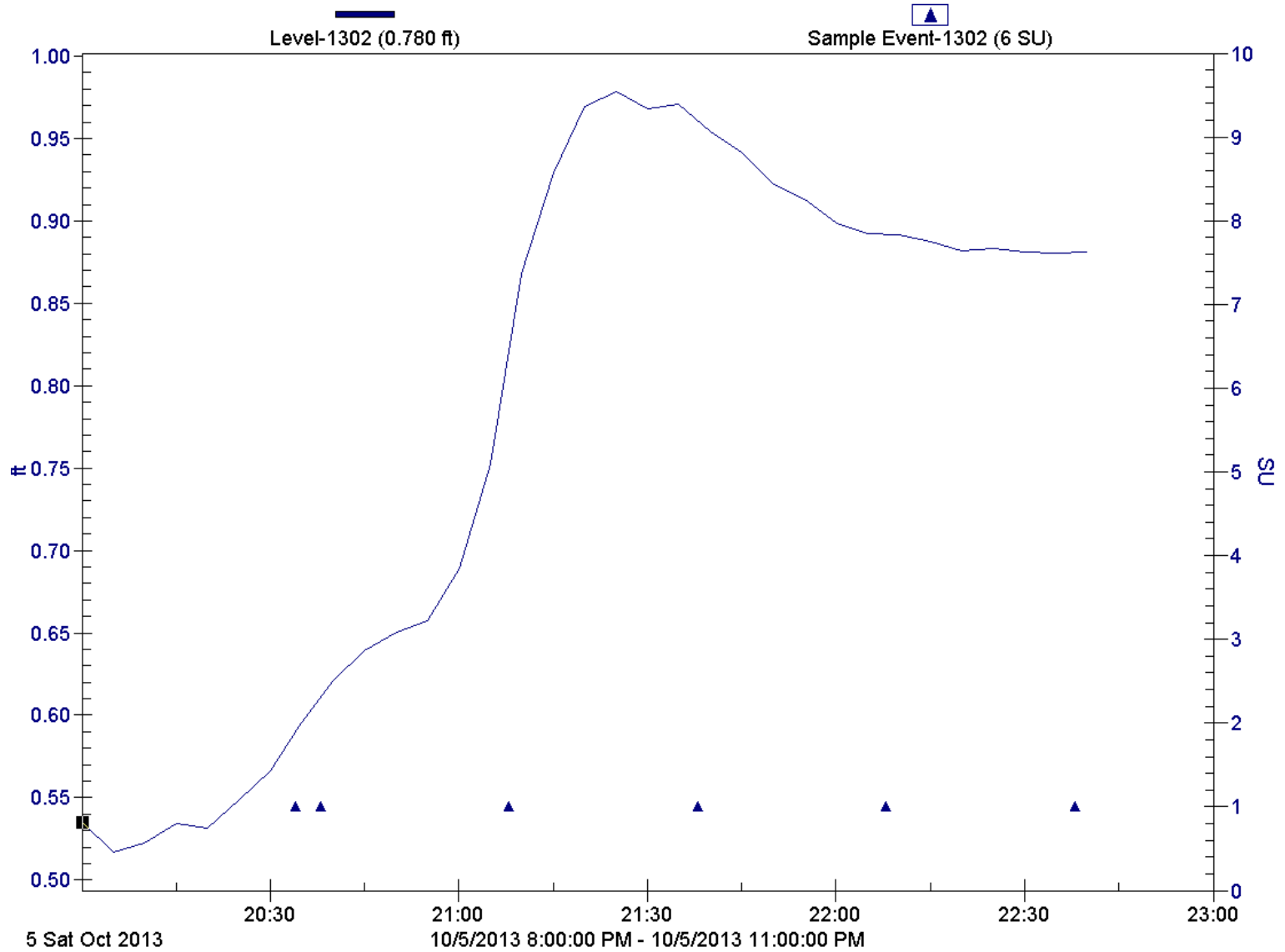
10/5/2013 22:00, 0.806

City of Mesquite
MS1301



10/5/2013 20:00, 0.535

City of Mesquite
MS1302



Analytical Results Summary
 NCTCOG Stormwater Quality Monitoring Project
 NCTCOG Project 100037643
 CITY OF MESQUITE 2013

Storm Event: 10/05/2013 Project Number: 100037643	MS 1301	MS 1302	
PARAMETER NAME	COMPOSITE	COMPOSITE	UNIT
Total Dissolved Solids (TDS)	246	208	mg/L
Total Suspended Solids (TSS)	54.67	50.33	mg/L
Biochemical Oxygen Demand	2.00	7.00	mg/L
Chemical Oxygen Demand	<1.00 U	8.00	mg/L
Total Nitrogen	2.08	1.60	mg/L
Phosphorus, Dissolved	0.05	0.06	mg/L
Carbaryl	<0.060 U	<0.060 U	µg/L
Arsenic, Total	<0.002 U	<0.002 U	mg/L
Copper, Total	0.017 J	0.016 J	mg/L
Lead, Total	<0.004 U	<0.004 U	mg/L
Zinc, Total	0.062	0.026	mg/L
Chromium, Total	0.004 J	0.003 J	mg/L
Phosphorus, Total	0.16	0.17	mg/L
PARAMETER NAME	GRAB	GRAB	UNIT
Oil & Grease(HEM)	2.20 J	1.80 J	mg/L
pH (field)	8.6	8.5	su
Ambient Air Temperature (field)	52	53	°F
Water Temperature (field)	65.2	66.4	°F
E. Coli	14.0	22.0	col/100 mL
Specific Conductivity	482	400	µS/cm
Total Coliforms	74000	34000	col/100 mL

">" - 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