

**NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS
NCTCOG STORMWATER QUALITY MONITORING PROJECT
NCTCOG PROJECT ID 100042714
City of Irving 2015**

**Sample Collection Report
Event Date: July 8, 2015**

Storm Summary

Storm description: Heavy rain moving southwest to northeast.

Rain event start time and date: 1305 7/8/15 Rainfall total: 0.32 in
Rain event end time and date: 1345 7/8/15 Peak 1-hr rate: 0.32 in/hr

Rainfall station: IR1501
Antecedent dry period: 272 hrs

Comments: Antecedent dry period determined from DFW Airport weather station (KDFW) from www.weatherunderground.com.

IR 1501

Station location description: Cottonwood Creek @ N. Belt Line Road

Flow start time and date: 1310 7/8/15 Time first aliquot collected: 1406 7/8/15
Flow end time and date: 1800 7/8/15 Time last aliquot collected: 1609 7/8/15

Peak depth: 0.609 ft Aliquots collected: 6
Average depth: 0.119 ft Total sample volume: 3.5 gal

Comments:

IR 1502

Station location description: Cottonwood Creek @ N. Story Road

Flow start time and date: 1330 7/8/15 Time first aliquot collected: 1426 7/8/15
Flow end time and date: 1820 7/8/15 Time last aliquot collected: 1631 7/8/15

Peak depth: Unknown Aliquots collected: 6
Average depth: Unknown Total sample volume: 3.5 gal

Comments: Due to sampler malfunction, hydrograph data was not retrieved. However, the sample was collected. Flow start/end time is estimated by upstream and downstream data.

IR 1503

Station location description: Cottonwood Creek @ W. John Carpenter FWY

Flow start time and date: 1325 7/8/15 Time first aliquot collected: 1452 7/8/15
Flow end time and date: 1950 7/8/15 Time last aliquot collected: 1657 7/8/15

Peak depth: 1.857 ft Aliquots collected: 6
Average depth: 0.989 ft Total sample volume: 3.5 gal

Comments:

Prepared By: Ryan Dealy

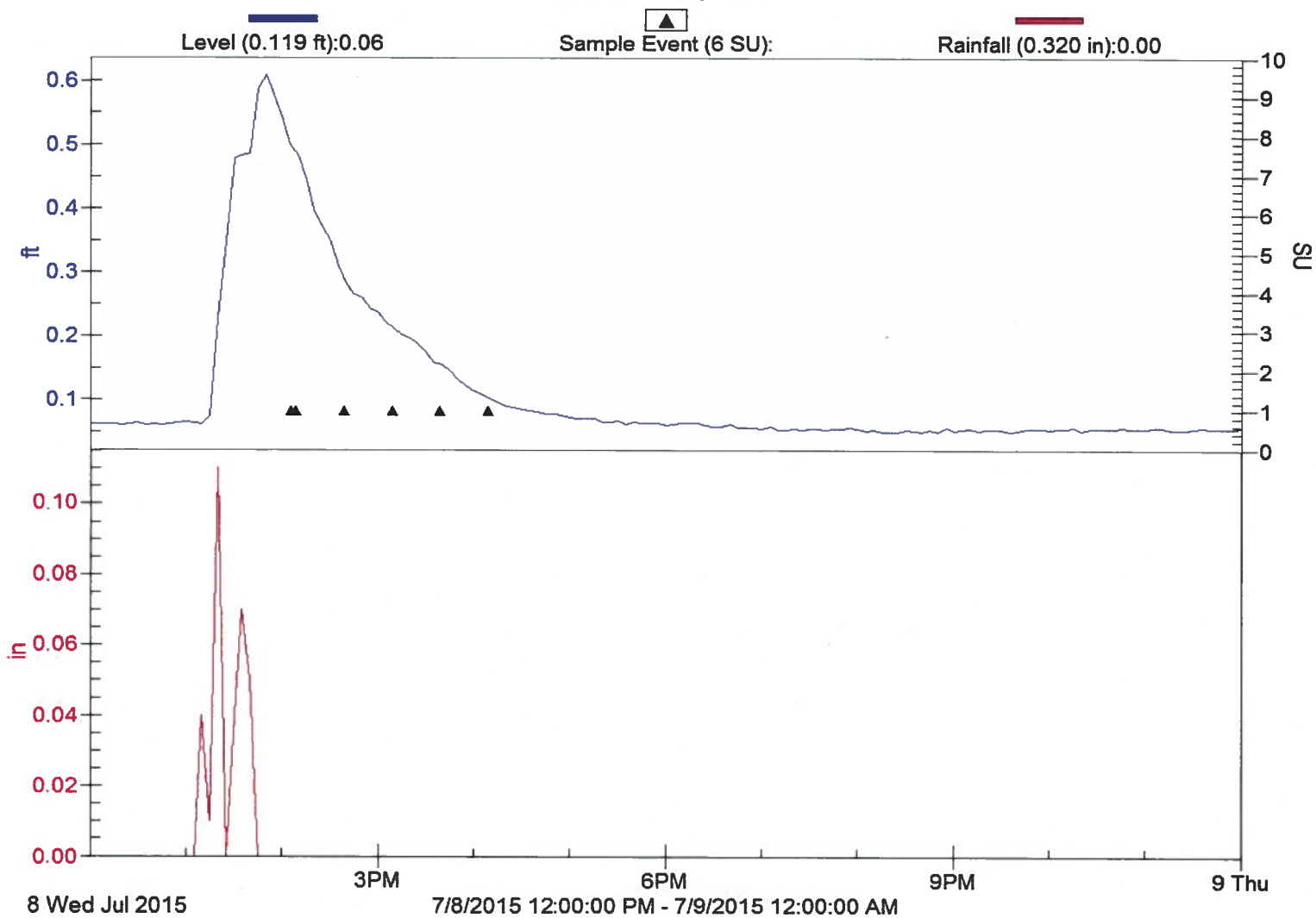
Date: 10/30/15

Checked By: [Signature]

Date: 11/2/15

Irving Cottonwood Creek

IR1501 - 3rd Quarter



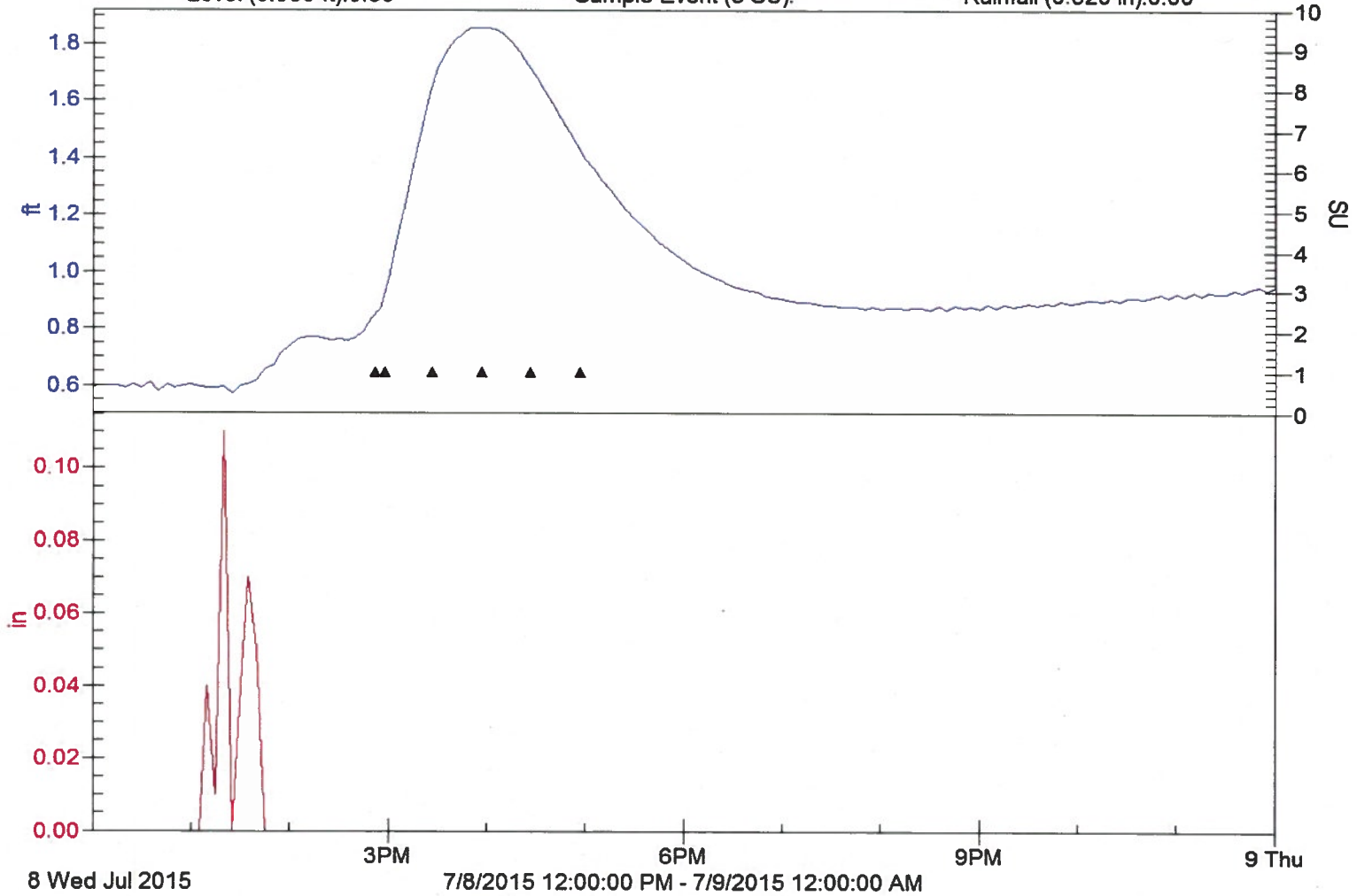
Irving Cottonwood Creek

IR1503 - 3rd Quarter

Level (0.989 ft):0.60

Sample Event (6 SU):

Rainfall (0.320 in):0.00



Analytical Results Summary
NCTCOG Stormwater Quality Monitoring Project
NCTCOG Project 100042714

CITY OF IRVING 2015

Storm Event: 07/08/2015 Project Number: 100042714	IR 1501	IR 1502	IR 1503	
PARAMETER NAME	COMPOSITE	COMPOSITE	COMPOSITE	UNIT
Total Dissolved Solids (TDS)	184	232	232	mg/L
Total Suspended Solids (TSS)	97.33	86.00	35.33	mg/L
Biochemical Oxygen Demand	27.0	25.0	12.0	mg/L
Chemical Oxygen Demand	32.0	21.0	21.0	mg/L
Total Nitrogen	4.86	2.58	3.11	mg/L
Phosphorus, Dissolved	0.12	0.10	0.06	mg/L
Carbaryl	< 0.060 U	< 0.060 U	< 0.060 U	µg/L
Arsenic, Total	< 0.002 U	< 0.002 U	< 0.002 U	mg/L
Copper, Total	< 0.001 U	0.010 J	0.014 J	mg/L
Lead, Total	< 0.004 U	< 0.004 U	< 0.004 U	mg/L
Zinc, Total	0.003 J	0.028	0.039	mg/L
Chromium, Total	< 0.003 U	0.005 J	< 0.003 U	mg/L
Phosphorus, Total	0.006 J	0.13	0.03 J	mg/L
PARAMETER NAME	GRAB	GRAB	GRAB	UNIT
Oil & Grease(HEM)	12.8	9.80	< 1.40 U	mg/L
pH (field)	8.5	8.3	8.9	su
Ambient Air Temperature (field)	78.1	79	80	°F
Water Temperature (field)	78.7	80.6	83.8	°F
E. Coli	9000	2800	5800	col/100 mL
Specific Conductivity	264	486	423	µS/cm
Total Coliforms	13000	9000	11000	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