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

Sample Collection Report
Event Date: April 8, 2012

Storm Summary

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

Rain event start time and date:	1405 4/8/12	Rainfall total:	0.52 in
Rain event end time and date:	1755 4/8/12	Peak 1-hr rate:	0.25 in/hr

Rainfall station:	KTXGARLA22
Antecedent dry period:	118 hrs

Comments: The rain gauge at GA 1201 became clogged by debris during the storm. The storm summary period was calculated based on the data obtained from weather station KTXGARLA22 at Oakridge, Garland for this event (www.wunderground.com/weatherstation).

GA 1201

Station location description: Duck Creek at Shiloh Bridge

Flow start time and date:	1424 4/8/12	Time first aliquot collected:	1424
Flow end time and date:	1630 4/8/12	Time last aliquot collected:	1628
Peak depth:	2.3 ft	Aliquots collected:	6
Average depth:	1.3 ft	Total sample volume:	3.5 gal

Comments: Flow was observed by the sampling crew at 1424 and sampling initiated. The sampler did not record the first flow reading until 1430 due to low flow conditions. The flow end time and date are a result of the sampling equipment being removed at the conclusion of the sampling activities.

GA 1202

Station location description: Duck Creek between Forest North and South

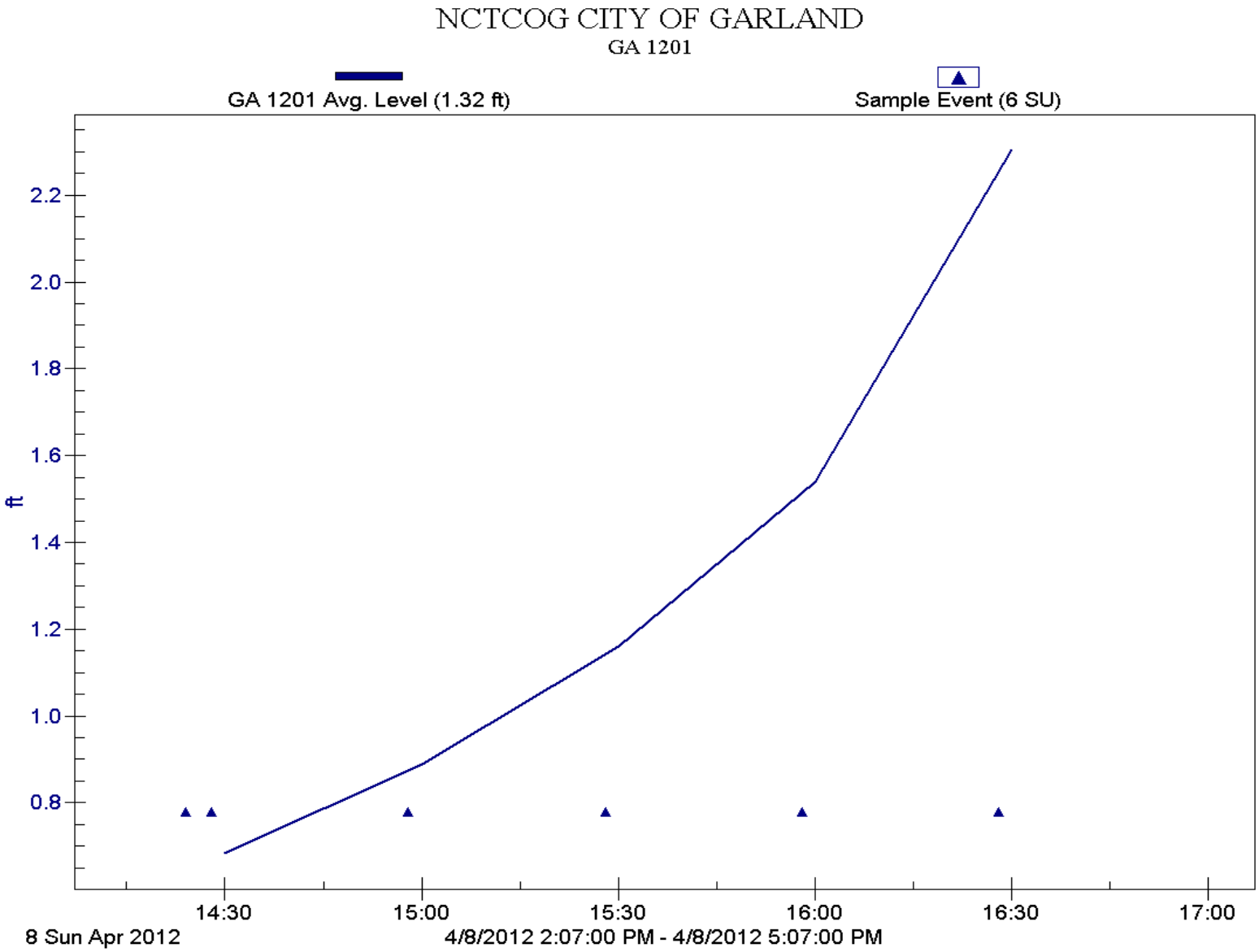
GA 1203

Station location description: Duck Creek under La Prada Bridge

Comments: A successful sample was collected at this site for this quarter on April 3, 2012.

Prepared By: Sue Shartzer Date: May 7, 2012

Checked By: Chad Richards Date: May 7, 2012


NCTCOG CITY OF GARLAND
GA 1201
GA 1201 Avg. Level (1.32 ft)
Sample Event (6 SU)
ft
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
14:30
15:00
15:30
16:00
16:30
17:00
8 Sun Apr 2012
4/8/2012 2:07:00 PM - 4/8/2012 5:07:00 PM

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

Storm Event: 04/08/12 Project Number: 100024283	**GA 1201**	**GA 1202**	**GA 1203**	
PARAMETER NAME	**COMPOSITE**	**COMPOSITE**	**COMPOSITE**	**UNIT***
Total Dissolved Solids (TDS)	208	NST	NST	mg/L
Total Suspended Solids (TSS)	20.00	NST	NST	mg/L
Biochemical Oxygen Demand	5.68	NST	NST	mg/L
Chemical Oxygen Demand	10.0	NST	NST	mg/L
Total Nitrogen	2.60	NST	NST	mg/L
Phosphorus, Dissolved	0.12	NST	NST	mg/L
Carbaryl	<0.060 U	NST	NST	µg/L
Arsenic, Total	0.002 J	NST	NST	mg/L
Copper, Total	0.040	NST	NST	mg/L
Lead, Total	0.004 J	NST	NST	mg/L
Zinc, Total	0.026 J	NST	NST	mg/L
Chromium, Total	<0.003 U	NST	NST	mg/L
Phosphorus, Total	<0.05 U	NST	NST	mg/L
PARAMETER NAME	**GRAB**	**GRAB**	**GRAB**	**UNIT**
Oil & Grease(HEM)	<1.40 U	NST	NST	mg/L
pH (field)	8.4	NST	NST	su
Ambient Air Temperature (field)	64	NST	NST	°F
Water Temperature (field)	70	NST	NST	°F
E. Coli	700	NST	NST	col/100 mL
Specific Conductivity	407	NST	NST	µS/cm
Total Coliforms	90,000	NST	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

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

Sample Collection Report
Event Date: April 3, 2012

Storm Summary

Storm description: A line of severe thunderstorms moved across the region from the west bringing multiple tornados, hail, and heavy rain.

Rain event start time and date:	1400 4/3/12	Rainfall total:	0.85 in
Rain event end time and date:	1635 4/3/12	Peak 1-hr rate:	0.60 in/hr

Rainfall station:	GA 1201
Antecedent dry period:	291 hrs

Comments: The antecedent dry period was calculated based on the data obtained from weather station KTXGARLA22 at Oakridge, Garland for this event (www.wunderground.com/weatherstation).

GA 1201

Station location description: Duck Creek at Shiloh Bridge

Comments: A sample was successfully collected; however, some of the sample jars were broken during transport. Since a complete sample was unavailable, the sample was not submitted to the laboratory.

GA 1202

Station location description: Duck Creek between Forest North and South

Flow start time and date:	1405 4/3/12	Time first aliquot collected:	1408
Flow end time and date:	1805 4/3/12	Time last aliquot collected:	1719
Peak depth:	2.8 ft	Aliquots collected:	6
Average depth:	1.5 ft	Total sample volume:	3.5 gal

Comments: Additional aliquots are shown on the graph that were not collected. The automatic sampler experienced a pause during the program between the first and second aliquots for bottle 2. The sampler was manually restarted and aliquot collection was resumed. The flow end time and date are a result of the sampling equipment being removed at the conclusion of the sampling activities.

GA 1203

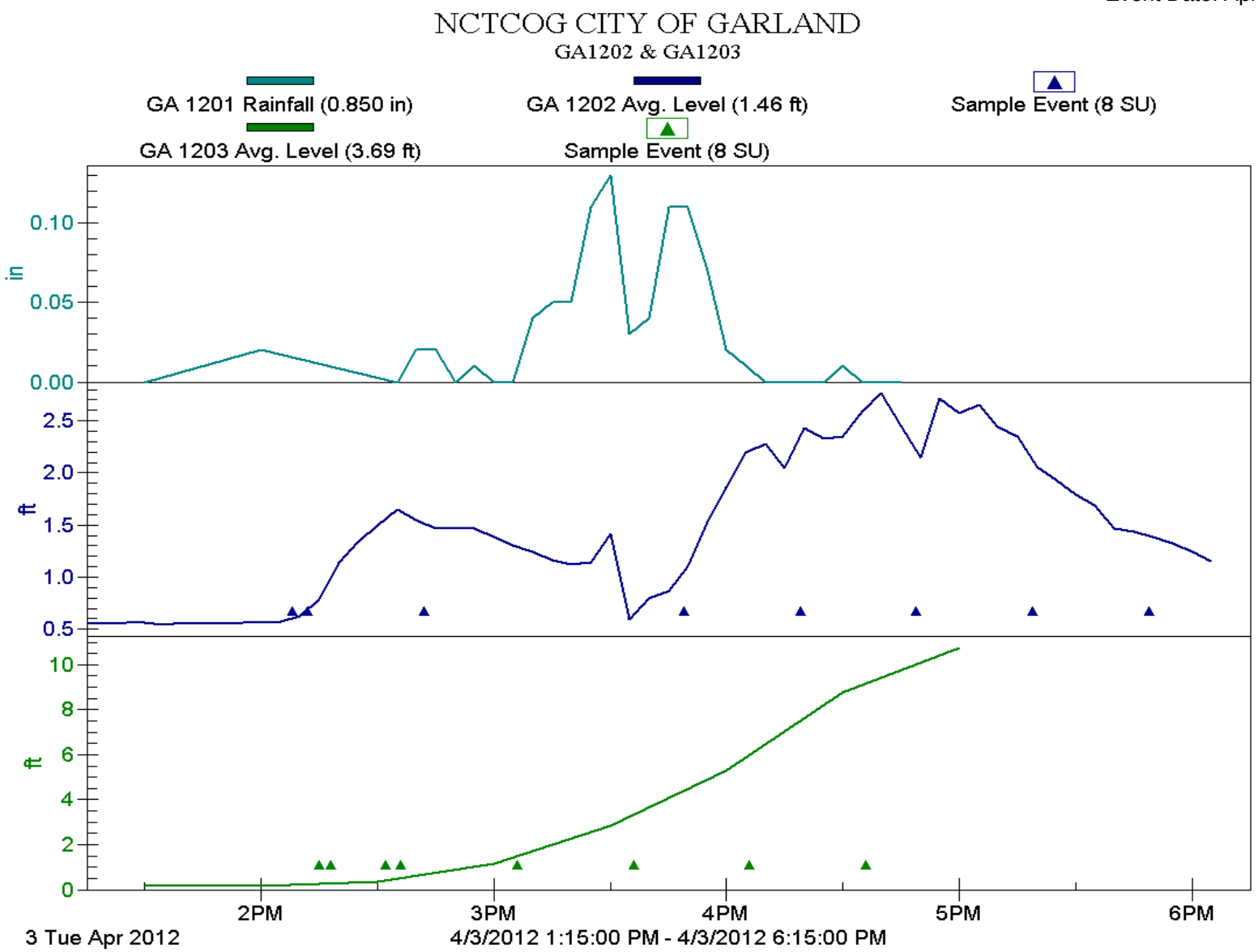
Station location description: Duck Creek under La Prada Bridge

Flow start time and date:	1430 4/3/12	Time first aliquot collected:	1432
Flow end time and date:	1700 4/3/12	Time last aliquot collected:	1636
Peak depth:	10.8 ft	Aliquots collected:	6
Average depth:	3.7 ft	Total sample volume:	3.5 gal

Comments: Two additional aliquots are shown on the graph that were not collected. The sampler was initialized and reset prior to the aliquot collection starting at 1432. 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 Shartzer_____ Date: May 7, 2012_____

Checked By: Chad Richards_____ Date: May 7, 2012_____


NCTCOG CITY OF GARLAND
GA1202 & GA1203
GA 1201 Rainfall (0.850 in)
GA 1202 Avg. Level (1.46 ft)
Sample Event (8 SU)
GA 1203 Avg. Level (3.69 ft)
Sample Event (8 SU)
in
0.10
0.05
0.00
ft
2.5
2.0
1.5
1.0
0.5
ft
10
8
6
4
2
0
2PM
3PM
4PM
5PM
6PM
3 Tue Apr 2012
4/3/2012 1:15:00 PM - 4/3/2012 6:15:00 PM

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

Storm Event: 04/03/12 Project Number: 100024283	**GA 1201**	**GA 1202**	**GA 1203**	
PARAMETER NAME	**COMPOSITE**	**COMPOSITE**	**COMPOSITE**	**UNIT***
Total Dissolved Solids (TDS)	NST	180	144	mg/L
Total Suspended Solids (TSS)	NST	164.0	512.0	mg/L
Biochemical Oxygen Demand	NST	13.1	16.8	mg/L
Chemical Oxygen Demand	NST	84.0	100	mg/L
Total Nitrogen	NST	2.23	8.24	mg/L
Phosphorus, Dissolved	NST	0.01	0.19	mg/L
Carbaryl	NST	<0.060 U	<0.060 U	µg/L
Arsenic, Total	NST	<0.002 U	<0.002 U	mg/L
Copper, Total	NST	0.034	0.033	mg/L
Lead, Total	NST	0.006 J	0.009 J	mg/L
Zinc, Total	NST	0.049 J	0.047 J	mg/L
Chromium, Total	NST	<0.003 U	0.007 J	mg/L
Phosphorus, Total	NST	0.08 J	0.46	mg/L
PARAMETER NAME	**GRAB**	**GRAB**	**GRAB**	**UNIT**
Oil & Grease(HEM)	NST	1.60 J	1.60 J	mg/L
pH (field)	NST	8.8	7.5	su
Ambient Air Temperature (field)	NST	63	63	°F
Water Temperature (field)	NST	73.6	72.9	°F
E. Coli	NST	450	600	col/100 mL
Specific Conductivity	NST	428	784	µS/cm
Total Coliforms	NST	19,000	24,000	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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