UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Amended Final Analytical Report

Site Name ----------Dimock Residential Groundwater Site

Sample Collection Date(s)-- 03/05/12 - 03/08/12

Contact---------- Cynthia Caporale (3EA21)

Report Date---------- 04/04/12

Project #---------- 12SF073

Work Order(s)---------- 1203005
1203007
1203012

Analyses included in this report:

ABN Glycols

Report Narrative

This report has been amended to correct the units in the case narrative from ug/L to mg/L.

The reporting limit for these compounds is 2 mg/L. The nominal detection limit is 0.5 mg/L. There were no compounds detected between the detection limit and the reporting limit.

On the day the samples were analyzed propylene glycol was left out of the Blank Spike (BS). Both ethylene and propylene glycol were spiked into the MS/MSD and the recoveries were acceptable. Because the MS/MSD can substitute for the BS in the method the samples were not reanalyzed. A blank and BS were reanalyzed additionally at a later date and results were acceptable. No targets were detected in the samples.

Concentrations reported in the QC have changed slightly since the draft report was issued due to a minor change in the calibration and an adjustment to the volume used for the matrix spikes determined during the final data review process.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Dimock Residential Groundwater Site Project Number: 12SF073

Data Management Coordinator: Christy Warren

Christy Warren 4/5/12

Data Management Coordinator Signature Date

Date Transmitted: 4/5/12

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____ / ____ / _____

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____

Signature Date

Please provide a reason for holding:

Environmental Protection Agency

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
FB19	1203005-01	Liquid	3/5/12 9:36	03/07/12 09:50
HW56	1203005-02	Liquid	3/5/12 16:54	03/07/12 09:50
HW60	1203005-03	Liquid	3/5/12 12:25	03/07/12 09:50
FB20	1203007-01	Liquid	3/6/12 14:00	03/08/12 09:00
HW61	1203007-02	Liquid	3/6/12 15:42	03/08/12 09:00
HW61-P	1203007-03	Liquid	3/6/12 16:00	03/08/12 09:00
HW61z	1203007-04	Liquid	3/7/12 15:42	03/08/12 09:00
FB21	1203012-01	Liquid	3/8/12 13:38	03/09/12 09:30
HW50	1203012-02	Liquid	3/8/12 15:09	03/09/12 09:30

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-01 **Station ID: FB19**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-02 **Station ID: HW56**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203005-03 **Station ID: HW60**

Batch: B2C0702 Date Collected: 03/05/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-01 **Station ID: FB20**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-02 **Station ID: HW61**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-03 **Station ID: HW61-P**

Batch: B2C0702 Date Collected: 03/06/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203007-04 **Station ID: HW61z**

Batch: B2C0702 Date Collected: 03/07/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-01 **Station ID: FB21**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS

Lab ID: 1203012-02 **Station ID: HW50**

Batch: B2C0702 Date Collected: 03/08/12
Sample Type: Liquid Sample Volume: 1 ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result mg/L	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Propylene glycol (57-55-6)	U		2.0	1	03/09/12	03/09/12
Ethylene glycol (107-21-1)	U		2.0	"	"	"

kws

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Blank (B2C0702-BLK1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

Blank (B2C0702-BLK2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit
Propylene glycol	U		2.0
Ethylene glycol	U		2.0

LCS (B2C0702-BS1)
Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Ethylene glycol	53.0		2.0	50.0	106	70-130

LCS (B2C0702-BS2)
Prepared: 3/14/2012 Analyzed: 3/14/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Propylene glycol	50.6		2.0	50.0	101	70-130
Ethylene glycol	58.0		2.0	50.0	116	70-130

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Glycols by Direct Aqueous Injection Modified 8270 - GC/MS - Quality Control

Batch: B2C0702 **Sample Type: Liquid**

Matrix Spike (B2C0702-MS1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Propylene glycol	55.7		2.0	66.7		83.6	70-130
Ethylene glycol	67.6		2.0	66.7		101	70-130

Matrix Spike Dup (B2C0702-MSD1)

Source: 1203005-02 Prepared: 3/9/2012 Analyzed: 3/9/2012

Targets

ANALYTE	Result mg/L	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Propylene glycol	53.7		2.0	66.7		80.6	70-130	3.61	30
Ethylene glycol	67.5		2.0	66.7		101	70-130	0.08	30

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USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-030612-085615-0247

DateShipped: 3/6/2012
CarrierName: FedEx
AirbillNo: 7981 3489 3053

Case #: CT5928

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB19	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19052 (-NA- / 40mlGlassVial), 19053 (-NA- / 40mlGlassVial) (2)	FB19	03/05/2012 09:36	
HW56	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol, Ethylene Glycol	19119 (-NA- / 40mlGlassVial), 19120 (-NA- / 40mlGlassVial), 19138 (-NA- / 40mlGlassVial), 19139 (-NA- / 40mlGlassVial), 19140 (-NA- / 40mlGlassVial), 19141 (-NA- / 40mlGlassVial) (6)	HW56	03/05/2012 16:54	
HW60	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19085 (-NA- / 40mlGlassVial), 19086 (-NA- / 40mlGlassVial) (2)	HW60	03/05/2012 12:25	

Sample(s) to be used for Lab QC: HW56

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	D Giacovone	3/6/12	Isaiah Harris	3/7/12	9:50						

Sample Temp: 6°C

DIM0095544
DIM0095560

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USEPA CLP Generic COC (LAB COPY)
DateShipped: 3/7/2012
CarrierName: FedEx
AirbillNo: 7981 4076 7688

CHAIN OF CUSTODY RECORD

Case #: CT5928

No: 3-030712-111413-0253
Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB20	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	19242 (-NA- / 40mlGlassVial), 19243 (-NA- / 40mlGlassVial) (2)	FB20	03/06/2012 14:00	
HW61	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19172 (-NA- / 40mlGlassVial), 19173 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	
HW61-P	Drinking Water/ Brian Burris	Grab	Ethylene Glycol, Ethylene Glycol	19216 (-NA- / 40mlGlassVial), 19217 (-NA- / 40mlGlassVial) (2)	HW61-P	03/06/2012 16:00	
HW61z	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	19198 (-NA- / 40mlGlassVial), 19199 (-NA- / 40mlGlassVial) (2)	HW61	03/06/2012 15:42	

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
8	[signature]	3/7/12	Isaiah Harris	3/8/12	9:00						

Sample Temp: 4°C

DIM0095544 DIM0095561

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USEPA CLP Generic COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-030812-165546-0262

DateShipped: 3/8/2012
CarrierName: FedEx
AirbillNo: 7981 4835 1266

Case #: CT5928

Lab: EPA R6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 2819832137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB21	Aqueous/ Joel Munson	Grab	Ethylene Glycol, Ethylene Glycol	18960 (-NA- / 40mlGlassVial), 18961 (-NA- / 40mlGlassVial) (2)	FB21	03/08/2012 13:38	
HW50	Drinking Water/ Mike Ferrier	Grab	Ethylene Glycol, Ethylene Glycol	18999 (-NA- / 40mlGlassVial), 19000 (-NA- / 40mlGlassVial) (2)	HW50	03/08/2012 15:09	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
4	D Macomore	3/8/12	Isaiah Harris	3/9/12	9:30						

Sample Temp: 4°C

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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.