Environmental Resources Management

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1 December 2014

Via Electronic Mail

Mr. Wayne Praskins
Remedial Project Manager
United States Environmental Protection Agency
Region 9
75 Hawthorne Street
San Francisco, CA 94105

Subject: November 2014 – Additional Groundwater Sampling Data
Source Area Operable Unit,
Rockets, Fireworks, and Flares Site

Dear Mr. Praskins:

On behalf of Emhart Industries, Inc. (Emhart), ERM-West, Inc. (ERM) submits this November 2014 – Additional Groundwater Sampling Data for the Source Area Operable Unit at the Rockets, Fireworks, and Flares Site. This data is submitted pursuant to the U.S. Environmental Protection Agency's request, dated 15 October 2014, to collect additional groundwater samples from specific monitoring wells (EMW-01, EMW-03 and EMW-04). These activities were associated with implementing remedial actions described in the *Statement of Work for Remedial Design and Remedial Action for the Source Area Operable Unit, B.F. Goodrich Superfund Site* (Statement of Work), which is Appendix F to the Consent Decree entered by the U.S. District Court for the Central District of California in *City of Colton v. American Promotional Events, Inc. et al.,* Case No. ED CV 09-01864 PSG (SSx) on 2 July 2013 (Doc. No. 1820).

If you have any questions or concerns, please contact Mr. Truong Mai at (949) 623-4700 or Ms. Heather Balfour at (916) 924-9378.

Sincerely,

Heather D. Balfour, P.E.
Project Manager

Truong T. Mai, P.E.
Partner

Enclosures:
Table 1 – Groundwater Summary Table
Attachment 1 – Laboratory Data
Attachment 2 – Data Validation Report

cc:

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Table

Table 1
Groundwater Summary Table
Source Area Operable Unit
Rockets, Flares and Fireworks Site

Location	Date	Sample Type	1,2,4-TMB	1,2-DCA	Acetone	Carbon Tetrachloride	Chloroform	Cumene	Ethyl-benzene	n-Propylbenzene	Perchlorate	Toluene	TCE
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EMW-01A	5/9/2014	N	< 5.0	< 2.5	**13.7**	< 2.5	< 2.5	< 2.5	**2.8**	< 5.0	**38** J-	**190.0**	< 2.5
EMW-01A	8/26/2014	FD	< 2.0	**1.5**	**17.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**12.7**	**10.2**	**2.5**
EMW-01A	8/26/2014	N	< 2.0	**1.6**	**16.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**12.6**	**10.6**	**2.6**
EMW-01A	11/5/2014	N	**0.21** J	**2.5**	**20.9**	< 1.0	< 1.0	**0.56** J	**5.1**	**0.63** J	**1.2** J	**127.0**	< 1.0
EMW-01A	11/5/2014	FD	**0.21** J	**2.4**	**19.0** J	< 1.0	< 1.0	**0.56** J	**5.1**	**0.64** J	**1.0** J	**125.0**	< 1.0
EMW-01B	5/9/2014	N	< 2.0	**1.1**	**22.0**	< 1.0	< 1.0	< 1.0	**0.53**	< 2.0	**25.1** J-	**59.3**	**1.7**
EMW-01B	8/26/2014	N	< 2.0	**1.6**	**12.2**	< 1.0	< 1.0	**0.35**	**3.6**	**0.47**	**3.6**	**154.0**	< 1.0
EMW-01B	11/5/2014	N	< 2.0	**3.4**	**41.5**	< 1.0	< 1.0	< 1.0	**0.40** J	< 2.0	**1.9** J	**18.3**	**1.6**
EMW-03A	5/9/2014	N	< 2.0	**0.43**	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**19.1** J-	**71.1**	**0.5**
EMW-03A	8/28/2014	FD	< 2.0	**1.2**	**22.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**20.7**	**21.3**	**0.44**
EMW-03A	8/28/2014	N	< 2.0	**1.1**	**19.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**19.7**	**21.2**	**0.4**
EMW-03A	11/5/2014	N	< 2.0	**0.77** J	**13.3** J	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**16.7**	**10.2**	**0.38** J
EMW-03B	5/9/2014	N	<4.0	**1.6**	< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	**68.9** J-	**149.0**	**1.1**
EMW-03B	8/26/2014	N	< 2.0	**1.9**	**12.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**1.2**	**41.2**	**0.82**
EMW-03B	11/5/2014	N	< 2.0	**4.5**	**34.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.83** J	**96.0**	**0.22** J
EMW-03C	5/9/2014	N	<5.0	**1.6**	**47.9**	< 2.5	< 2.5	< 2.5	< 2.5	< 5.0	**0.96** J-	**190.0**	< 2.5
EMW-03C	8/28/2014	N	< 2.0	**1.6**	**52.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	**19.5**	< 1.0
EMW-03C	11/5/2014	N	< 2.0	**3.3**	**143.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	**76.9**	< 1.0
EMW-04A	5/9/2014	N	< 2.0	< 1.0	< 20	**0.41**	< 1.0	< 1.0	< 1.0	< 2.0	**136** J-	**4.9**	**20.6**
EMW-04A	8/28/2014	N	< 2.0	**0.7**	**15.5**	**0.74**	**0.23**	< 1.0	< 1.0	< 2.0	**130**	**4.6**	**21.4**
EMW-04A	11/5/2014	N	< 2.0	**1.8**	**17.7** J	**0.52** J	< 1.0	< 1.0	< 1.0	< 2.0	**119**	**12.5**	**18.3**
EMW-04B	5/9/2014	N	< 2.0	**1.9**	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**13.6** J-	**45.2**	**4.5**
EMW-04B	8/26/2014	N	< 2.0	**5.3**	**36.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**2.8**	**16.6**	**2.9**
EMW-04B	11/5/2014	N	< 2.0	**0.22** J	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**74.6**	**0.49** J	**10.4**
EMW-04C	5/9/2014	N	< 10.0	**2.2**	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	**10** J-	**246**	< 5.0
EMW-04C	8/26/2014	N	< 2.0	**1.5**	**20.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 3.0	**20.7**	**0.23**
EMW-04C	11/5/2014	N	< 2.0	**7.0**	**48.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	**0.94** J	**109.0**	< 1.0
		Rialto ROD Value	NS	NS	NS	0.5	80	NS	NS	NS	6	NS	5

Notes:
< = Compound not detected. Reportable detection limit shown.
Bolded values indicate concentrations above the reportable detection limit.
Shaded values indicate concentrations above the cleanup standards established in the 2010 ROD.
J = The associated numerical value is an estimated quantity.
J- = Estimated result biased low.

Abbreviations:
µg/L = Micrograms per liter
DCA = Dichloroethane
FD = Field duplicate sample
N = Normal environmental sample
NS = No standard
ROD = Record of Decision
TCE = Trichloroethene
TMB = Trimethylbenzene

Attachment 1
Laboratory Data

Northern California
ACCUTEST LABORATORIES

11/14/14

Technical Report for

ERM-Irvine

BF Goodrich Superfund Sampling,Rialto

BF GOODRICH SUPERFUND SAMPLING

Accutest Job Number: C36990

Sampling Date: 11/05/14

Report to:

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Total number of pages in report: **80**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

ERM-Irvine

Job No: C36990

BF Goodrich Superfund Sampling, Rialto
Project No: BF GOODRICH SUPERFUND SAMPLING

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C36990-1	11/05/14	07:30	BS	11/07/14	AQ	Trip Blank Water	05112014TB-1
C36990-2	11/05/14	08:00	BS	11/07/14	AQ	Field Blank Water	05112014FB-1
C36990-3	11/05/14	09:23	BS	11/07/14	AQ	Ground Water	05112014D-1
C36990-4	11/05/14	08:45	BS	11/07/14	AQ	Ground Water	EMW-01B-556-GW-05/11/2014
C36990-4D	11/05/14	08:45	BS	11/07/14	AQ	Water Dup/MSD	EMW-01B-556-GW-05/11/2014
C36990-4S	11/05/14	08:45	BS	11/07/14	AQ	Water Matrix Spike	EMW-01B-556-GW-05/11/2014
C36990-5	11/05/14	09:17	BS	11/07/14	AQ	Ground Water	EMW-01A-47D-GW-05/11/2014
C36990-6	11/05/14	09:50	BS	11/07/14	AQ	Ground Water	EMW-04C-690-GW-05/11/2014
C36990-7	11/05/14	10:18	BS	11/07/14	AQ	Ground Water	EMW-04B-605-GW-05/11/2014
C36990-8	11/05/14	10:54	BS	11/07/14	AQ	Ground Water	EMW-04A-450-GW-05/11/2014
C36990-9	11/05/14	11:30	BS	11/07/14	AQ	Ground Water	EMW-03C-640-GW-05/11/2014
C36990-10	11/05/14	11:52	BS	11/07/14	AQ	Ground Water	EMW-03B-560-GW-05/11/2014
C36990-11	11/05/14	12:12	BS	11/07/14	AQ	Ground Water	EMW-03A-418-GW-05/11/2014

Accutest Laboratories

Sample Summary
(continued)

ERM-Irvine

Job No: C36990

BF Goodrich Superfund Sampling, Rialto
Project No: BF GOODRICH SUPERFUND SAMPLING

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C36990-12	11/05/14	12:30	BS	11/07/14	AQ	Equipment Blank	05112014EB-1

Summary of Hits

Job Number: C36990
Account: ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto
Collected: 11/05/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C36990-1	**05112014TB-1**					
No hits reported in this sample.						
C36990-2	**05112014FB-1**					
Specific Conductivity		1.9	1.0	1.0	umhos/cm	SM2510 B-97
C36990-3	**05112014D-1**					
Acetone		19.0 J	20	4.0	ug/l	SW846 8260B
1,2-Dichloroethane		2.4	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		5.1	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.56 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene		0.64 J	2.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.21 J	2.0	0.20	ug/l	SW846 8260B
Toluene		125	5.0	1.0	ug/l	SW846 8260B
Xylene (total)		5.0	2.0	0.46	ug/l	SW846 8260B
Perchlorate		1.0 J	3.0	0.31	ug/l	EPA 314
Specific Conductivity		194	1.0	1.0	umhos/cm	SM2510 B-97
C36990-4	**EMW-01B-556-GW-05/11/2014**					
Acetone		41.5	20	4.0	ug/l	SW846 8260B
1,2-Dichloroethane		3.4	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		0.40 J	1.0	0.20	ug/l	SW846 8260B
Toluene		18.3	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		1.6	1.0	0.20	ug/l	SW846 8260B
Xylene (total)		0.51 J	2.0	0.46	ug/l	SW846 8260B
Perchlorate		1.9 J	3.0	0.31	ug/l	EPA 314
Specific Conductivity		310	1.0	1.0	umhos/cm	SM2510 B-97
C36990-5	**EMW-01A-47D-GW-05/11/2014**					
Acetone		20.9	20	4.0	ug/l	SW846 8260B
1,2-Dichloroethane		2.5	1.0	0.20	ug/l	SW846 8260B
Ethylbenzene		5.1	1.0	0.20	ug/l	SW846 8260B
Isopropylbenzene		0.56 J	1.0	0.20	ug/l	SW846 8260B
n-Propylbenzene		0.63 J	2.0	0.20	ug/l	SW846 8260B
1,2,4-Trimethylbenzene		0.21 J	2.0	0.20	ug/l	SW846 8260B
Toluene		127	5.0	1.0	ug/l	SW846 8260B
Xylene (total)		4.9	2.0	0.46	ug/l	SW846 8260B
Perchlorate		1.2 J	3.0	0.31	ug/l	EPA 314
Specific Conductivity		201	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C36990
Account: ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto
Collected: 11/05/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C36990-6	**EMW-04C-690-GW-05/11/2014**					
Acetone		48.0	20	4.0	ug/l	SW846 8260B
1,2-Dichloroethane		7.0	1.0	0.20	ug/l	SW846 8260B
Toluene		109	5.0	1.0	ug/l	SW846 8260B
Perchlorate		0.94 J	3.0	0.31	ug/l	EPA 314
Specific Conductivity		226	1.0	1.0	umhos/cm	SM2510 B-97
C36990-7	**EMW-04B-605-GW-05/11/2014**					
1,2-Dichloroethane		0.22 J	1.0	0.20	ug/l	SW846 8260B
Toluene		0.49 J	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		10.4	1.0	0.20	ug/l	SW846 8260B
Perchlorate		74.6	6.0	0.63	ug/l	EPA 314
Specific Conductivity		357	1.0	1.0	umhos/cm	SM2510 B-97
C36990-8	**EMW-04A-450-GW-05/11/2014**					
Acetone		17.7 J	20	4.0	ug/l	SW846 8260B
Carbon tetrachloride		0.52 J	1.0	0.20	ug/l	SW846 8260B
1,2-Dichloroethane		1.8	1.0	0.20	ug/l	SW846 8260B
Toluene		12.5	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene		18.3	1.0	0.20	ug/l	SW846 8260B
Perchlorate		119	15	1.6	ug/l	EPA 314
Specific Conductivity		383	1.0	1.0	umhos/cm	SM2510 B-97
C36990-9	**EMW-03C-640-GW-05/11/2014**					
Acetone		143	20	4.0	ug/l	SW846 8260B
1,2-Dichloroethane		3.3	1.0	0.20	ug/l	SW846 8260B
Toluene		76.9	1.0	0.20	ug/l	SW846 8260B
Specific Conductivity		253	1.0	1.0	umhos/cm	SM2510 B-97
C36990-10	**EMW-03B-560-GW-05/11/2014**					
Acetone		34.7	20	4.0	ug/l	SW846 8260B
1,2-Dichloroethane		4.5	1.0	0.20	ug/l	SW846 8260B
Toluene		96.0	5.0	1.0	ug/l	SW846 8260B
Trichloroethylene		0.22 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		0.83 J	3.0	0.31	ug/l	EPA 314
Specific Conductivity		226	1.0	1.0	umhos/cm	SM2510 B-97
C36990-11	**EMW-03A-418-GW-05/11/2014**					
Acetone		13.3 J	20	4.0	ug/l	SW846 8260B

Summary of Hits

Job Number: C36990
Account: ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto
Collected: 11/05/14

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
1,2-Dichloroethane	0.77 J	1.0	0.20	ug/l	SW846 8260B
Toluene	10.2	1.0	0.20	ug/l	SW846 8260B
Trichloroethylene	0.38 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate	16.7	3.0	0.31	ug/l	EPA 314
Specific Conductivity	390	1.0	1.0	umhos/cm	SM2510 B-97
C36990-12 05112014EB-1					
Specific Conductivity	1.9	1.0	1.0	umhos/cm	SM2510 B-97

Northern California ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	05112014TB-1		
Lab Sample ID:	C36990-1	**Date Sampled:**	11/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49234.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014TB-1		
Lab Sample ID:	C36990-1	**Date Sampled:**	11/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-130%
2037-26-5	Toluene-D8	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014TB-1		
Lab Sample ID:	C36990-1	**Date Sampled:**	11/05/14
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014FB-1		
Lab Sample ID:	C36990-2	**Date Sampled:**	11/05/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49235.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014FB-1		
Lab Sample ID:	C36990-2	**Date Sampled:**	11/05/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	102%		70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014FB-1		
Lab Sample ID:	C36990-2	**Date Sampled:**	11/05/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014FB-1		
Lab Sample ID:	C36990-2	**Date Sampled:**	11/05/14
Matrix:	AQ - Field Blank Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.31 U	3.0	0.31	ug/l	1	11/08/14 12:49	PH	EPA 314
Specific Conductivity	1.9	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	05112014D-1		
Lab Sample ID:	C36990-3	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49241.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2	W49278.D	5	11/11/14	TN	n/a	n/a	VW1782

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	19.0	20	4.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	2.4	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014D-1		
Lab Sample ID:	C36990-3	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	5.1	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	0.56	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	0.64	2.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.21	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	125 [a]	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	5.0	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	101%	70-130%
2037-26-5	Toluene-D8	104%	99%	70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014D-1		
Lab Sample ID:	C36990-3	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%	102%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014D-1		
Lab Sample ID:	C36990-3	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.0 J	3.0	0.31	ug/l	1	11/08/14 13:06	PH	EPA 314
Specific Conductivity	194	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-01B-556-GW-05/11/2014		
Lab Sample ID:	C36990-4	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49242.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	41.5	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	3.4	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-01B-556-GW-05/11/2014		
Lab Sample ID:	C36990-4	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.40	1.0	0.20	ug/l	J
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	18.3	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	1.6	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	0.51	2.0	0.46	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-01B-556-GW-05/11/2014		
Lab Sample ID:	C36990-4	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-01B-556-GW-05/11/2014		
Lab Sample ID:	C36990-4	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.9 J	3.0	0.31	ug/l	1	11/08/14 13:24	PH	EPA 314
Specific Conductivity	310	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-01A-47D-GW-05/11/2014		
Lab Sample ID:	C36990-5	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49243.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2	W49279.D	5	11/11/14	TN	n/a	n/a	VW1782

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20.9	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	2.5	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-01A-47D-GW-05/11/2014		
Lab Sample ID:	C36990-5	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	5.1	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	0.56	1.0	0.20	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	0.63	2.0	0.20	ug/l	J
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.21	2.0	0.20	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	127 [a]	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	4.9	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	103%	70-130%
2037-26-5	Toluene-D8	103%	100%	70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-01A-47D-GW-05/11/2014		
Lab Sample ID:	C36990-5	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%	104%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-01A-47D-GW-05/11/2014		
Lab Sample ID:	C36990-5	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.2 J	3.0	0.31	ug/l	1	11/08/14 14:51	PH	EPA 314
Specific Conductivity	201	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-04C-690-GW-05/11/2014		
Lab Sample ID:	C36990-6	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49244.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2	W49282.D	5	11/11/14	TN	n/a	n/a	VW1782

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	48.0	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	7.0	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04C-690-GW-05/11/2014		
Lab Sample ID:	C36990-6	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	109 [a]	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	102%	70-130%
2037-26-5	Toluene-D8	102%	99%	70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04C-690-GW-05/11/2014		
Lab Sample ID:	C36990-6	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04C-690-GW-05/11/2014		
Lab Sample ID:	C36990-6	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.94 J	3.0	0.31	ug/l	1	11/08/14 15:08	PH	EPA 314
Specific Conductivity	226	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-04B-605-GW-05/11/2014		
Lab Sample ID:	C36990-7	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49245.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.22	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04B-605-GW-05/11/2014		
Lab Sample ID:	C36990-7	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	0.49	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	10.4	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04B-605-GW-05/11/2014		
Lab Sample ID:	C36990-7	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04B-605-GW-05/11/2014		
Lab Sample ID:	C36990-7	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	74.6	6.0	0.63	ug/l	2	11/08/14 17:10	PH	EPA 314
Specific Conductivity	357	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-04A-450-GW-05/11/2014		
Lab Sample ID:	C36990-8	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49246.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17.7	20	4.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	0.52	1.0	0.20	ug/l	J
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	1.8	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04A-450-GW-05/11/2014		
Lab Sample ID:	C36990-8	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	12.5	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	18.3	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04A-450-GW-05/11/2014		
Lab Sample ID:	C36990-8	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-04A-450-GW-05/11/2014		
Lab Sample ID:	C36990-8	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	119	15	1.6	ug/l	5	11/08/14 17:28	PH	EPA 314
Specific Conductivity	383	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-03C-640-GW-05/11/2014		
Lab Sample ID:	C36990-9	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49247.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	143	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	3.3	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03C-640-GW-05/11/2014		
Lab Sample ID:	C36990-9	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	76.9	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		70-130%
2037-26-5	Toluene-D8	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03C-640-GW-05/11/2014		
Lab Sample ID:	C36990-9	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03C-640-GW-05/11/2014		
Lab Sample ID:	C36990-9	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.31 U	3.0	0.31	ug/l	1	11/08/14 16:00	PH	EPA 314
Specific Conductivity	253	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-03B-560-GW-05/11/2014		
Lab Sample ID:	C36990-10	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49248.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2	W49283.D	5	11/11/14	TN	n/a	n/a	VW1782

	Purge Volume
Run #1	10.0 ml
Run #2	10.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	34.7	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	4.5	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03B-560-GW-05/11/2014		
Lab Sample ID:	C36990-10	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	96.0 [a]	5.0	1.0	ug/l	
79-01-6	Trichloroethylene	0.22	1.0	0.20	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	99%	70-130%
2037-26-5	Toluene-D8	106%	99%	70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03B-560-GW-05/11/2014		
Lab Sample ID:	C36990-10	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%	101%	70-130%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03B-560-GW-05/11/2014		
Lab Sample ID:	C36990-10	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.83 J	3.0	0.31	ug/l	1	11/08/14 16:18	PH	EPA 314
Specific Conductivity	226	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EMW-03A-418-GW-05/11/2014		
Lab Sample ID:	C36990-11	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49249.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	13.3	20	4.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.77	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03A-418-GW-05/11/2014		
Lab Sample ID:	C36990-11	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	10.2	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.38	1.0	0.20	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		70-130%
2037-26-5	Toluene-D8	104%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03A-418-GW-05/11/2014		
Lab Sample ID:	C36990-11	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EMW-03A-418-GW-05/11/2014		
Lab Sample ID:	C36990-11	**Date Sampled:**	11/05/14
Matrix:	AQ - Ground Water	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	16.7	3.0	0.31	ug/l	1	11/08/14 16:35	PH	EPA 314
Specific Conductivity	390	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	05112014EB-1		
Lab Sample ID:	C36990-12	**Date Sampled:**	11/05/14
Matrix:	AQ - Equipment Blank	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W49236.D	1	11/07/14	TN	n/a	n/a	VW1780
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014EB-1		
Lab Sample ID:	C36990-12	**Date Sampled:**	11/05/14
Matrix:	AQ - Equipment Blank	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-130%
2037-26-5	Toluene-D8	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014EB-1		
Lab Sample ID:	C36990-12	**Date Sampled:**	11/05/14
Matrix:	AQ - Equipment Blank	**Date Received:**	11/07/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BF Goodrich Superfund Sampling, Rialto		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	05112014EB-1		
Lab Sample ID:	C36990-12	**Date Sampled:**	11/05/14
Matrix:	AQ - Equipment Blank	**Date Received:**	11/07/14
		Percent Solids:	n/a
Project:	BF Goodrich Superfund Sampling,Rialto		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.31 U	3.0	0.31	ug/l	1	11/08/14 16:53	PH	EPA 314
Specific Conductivity	1.9	1.0	1.0	umhos/cm	1	11/08/14 11:00	PH	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Northern California ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY

CLIENT: ERM

SITE: BF Goodrich Rialto Superfund Site

Project Code/Job #: 0179962.04.C

CONDUCT ANALYSIS TO DETECT

LAB - Accutest C36990 COC 1 of 2

Billing Information:
PO# 0179962.04.C

Report to:
Heather Balfour
ERM
2525 Natomas Park Drive, Suite 350
Sacramento, California 95833
Tel: +01 916 999 8944
heather.balfour@erm.com

CC:
Darren.Burgett@erm.com
Christopher.Berg@erm.com

SAMPLE I.D.	DATE	TIME	MATRIX	# CONTAINERS	VOC's 8260B	Perchlorate 314.0			LAB#			ADD'L INFORMATION
05112014 TB-1	11/05/14	0730	W	3	Y				1			
05112014 FB-1	↓	0800		4	Y	Y			2			
~~EMW-01-D-556-05112014~~		~~0845~~		~~12~~	~~X~~	~~X~~						~~MS/MSD~~
~~EMW-01-S-470-05/11/2014~~		~~0917~~		~~4~~	~~Y~~	~~Y~~						
05112014D-1	11/5/14	0923		4	Y	Y			3			
EMW-01B ~~EMW-01-B-556-GW-05/11/2014~~		0845		12	X	X			4			MS/MSD
EMW-01A ~~EMW-01-S-470-GW 05/11/2014~~		0917		4	Y	Y			5			
EMW-04C ~~EMW-04-D-690-GW 05/11/2014~~		0950		4	Y	Y			6			
EMW-04B ~~EMW-04-I-605-GW-05/11/2014~~		1018		4	X	X			7			
EMW-04A ~~EMW-04-S-450-GW 05/11/2014~~	↓	1054		4	Y	Y			8			

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	11-5-14		Ben Stevens	48 Hour ~~As Contracted~~

		TIME			TIME
RELEASED BY		1600	RECEIVED BY	Nicole	1600
RELEASED BY	Nicole		RECEIVED BY	[signature] 11-6-14	1100
RELEASED BY	[signature] Fedex	11-6-14 1100	RECEIVED BY	[signature] 11/7/14	0750
SHIPPED VIA		TIME SENT	COOLER #		

*Temp: 4.7

IRVINE

C. Berg (ERM)
11/12/2014

C36990: Chain of Custody
Page 1 of 3

C36990: Chain of Custody
Page 1 of 5

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB - Accutest C36990 COC 2 of 2

Billing Information:
PO# 0179962.04.C

Report to:
Heather Balfour
ERM
2525 Natomas Park Drive, Suite 350
Sacramento, California 95833
Tel: +01 916 999 8944
heather.balfour@erm.com

CC:
Darren.Burgett@erm.com
Christopher.Berg@erm.com

CHAIN OF CUSTODY

CLIENT: ERM

SITE: BF Goodrich Rialto Superfund Site

Project Code/Job #: 0179962.04.C

SAMPLE I.D.	DATE	TIME	MATRIX	# CONTAINERS	VOC's 8260B	Perchlorate 314.0	LAB #	ADD'L INFORMATION
EMW-03C ~~EMW-03.0~~ 640 GW 05/11/2014	11.5.14	1130	W	4	Y	Y	9	
EMW-03B ~~EMW-03.1~~ 560 GW 05/11/2014		1152	W	4	Y	Y	10	
EMW-03A ~~EMW-03.5~~ 418 GW 05/11/2014		1212	W	4	Y	Y	11	
BS 112014 EB.1		1230	W	4	X	X	12	

SAMPLING COMPLETED: DATE 11.5.14 TIME

SAMPLING PERFORMED BY: Ben Stevens

RESULTS NEEDED NO LATER THAN: 48 Hour ~~As Contracted~~

RELEASED BY	TIME	RECEIVED BY	TIME
	1600	Nicole	1600
Nicole		[illegible] 11-6-14	1100
[illegible] → FedEx	11-6-14 1900	[illegible] 11/7/14	0750

SHIPPED VIA: TIME SENT: COOLER #:

IRVINE

4.1 4

C36990: Chain of Custody
Page 2 of 3

C36990: Chain of Custody
Page 2 of 5

4.1 4

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB - Accutest C36990 COC 1 of 2

CHAIN OF CUSTODY

CLIENT: ERM

SITE: BF Goodrich Rialto Superfund Site

Project Code/Job #: 0179962.04.C

Billing Information:
PO# 0179962.04.C

Report to:
Heather Balfour
ERM
2525 Natomas Park Drive, Suite 350
Sacramento, California 95833
Tel: +01 916 999 8944
heather.balfour@erm.com

CC:
Darren.Burgett@erm.com
Christopher.Berg@erm.com

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS #		VOC's 8260B	Perchlorate 314.0			LAB#			ADD'L INFORMATION
05112014TB.1	11-05-14	0730	W	3		Y				1			
05112014FB.1	↓	0800		4		Y	Y			2			
~~EMW-01-D-556-05141014~~		~~0845~~		~~12~~		~~X~~	~~Y~~						~~MS/MSD~~
~~EMW015 470-05/11/2014~~		~~0917~~		~~4~~		~~Y~~	~~Y~~						
05112014D.1	11/5/14	0923		4		Y	Y			3			
EMW-01-556-GW-05/11/2014		0845		12		X	X			4			MS/MSD
EMW015470-GW 05/11/2014		0917		4		Y	Y			5			
EMW-04-D-690-GW 05/11/2014		0950		4		Y	Y			6			
EMW-04-I-605-GW-05/11/2014		1018		4		X	X			7			
EMW-04-S-450-GW 05/11/2014	↓	1054		4		Y	Y			8			

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	11-5-14		Ben Steven	48 Hour ~~As Contracted~~

RELEASED BY	TIME	RECEIVED BY	TIME
[signature]	1600	Nicole	1600
Nicole		[signature]	11-6-14 1100
[signature] Fedex	11-6-14 1600	[signature]	11/7/14 0750

SHIPPED VIA	TIME SENT	COOLER #

Temp: 4.7

IRVINE

4.1
4

C36990: Chain of Custody
Page 3 of 5

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB - Accutest C36990 COC 2 of 1

CHAIN OF CUSTODY

CLIENT: ERM

SITE: BF Goodrich Rialto Superfund Site

Project Code/Job #: 0179962.04.C

Billing Information:
PO# 0179962.04.C

Report to:
Heather Balfour
ERM
2525 Natomas Park Drive, Suite 350
Sacramento, California 95833
Tel: +01 916 999 8944
heather.balfour@erm.com

CC:
Darren.Burgett@erm.com
Christopher.Berg@erm.com

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS #		VOC's 8260B	Perchlorate 314.0		LAB #				ADD'L INFORMATION
EMW-03-D 640 GW 05/11/2014	11-5-14	1130	W	4		Y	Y		9				
EMW-03-1-560 GW 05/11/2014	↓	1152	W	4		Y	Y		10				
EMW-03-S-418 GW 05/11/2014	↓	1212	W	4		Y	Y		11				
05112014 EB-1	↓	1230	W	4		X	X		12				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN
	11-5-14		Ben Stevens	48 Hour ~~As Contracted~~

RELEASED BY	TIME	RECEIVED BY	TIME
	1600	Nicole	1600
Nicole		[signature]	11-6-14 1100
[signature] → Fedex	11-6-14 1900	[signature]	11/7/14 0750

SHIPPED VIA	TIME SENT	COOLER #

IRVINE

4.1
4

C36990: Chain of Custody
Page 4 of 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C36990 **Client:** ERM **Project:** BF GOODRICH RIALTO

Date / Time Received: 11/7/2014 7:50:00 AM **Delivery Method:** FedEx **Airbill #'s:** 806499140194

Cooler Temps (Initial/Adjusted): #1: (4.7/4.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☐		☑	3. COC Present:	☑		☐
2. Custody Seals Intact:	☐		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:408.588.0200

2105 Lundy Avenue
F: 408.588.0201

San Jose, CA 95131
www/accutest.com

Northern California ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1780-MB	W49233.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	20	4.0	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.20	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.20	ug/l	
75-25-2	Bromoform	ND	1.0	0.22	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.20	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.20	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.28	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.20	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.26	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.40	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.20	ug/l	
108-20-3	Di-Isopropyl ether	ND	2.0	0.22	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.20	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	

Method Blank Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1780-MB	W49233.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	1.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.20	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.40	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	2.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.20	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	70-130%

Method Blank Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1780-MB	W49233.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Surrogate Recoveries		Limits
2037-26-5	Toluene-D8	101%	70-130%
460-00-4	4-Bromofluorobenzene	99%	70-130%

Method Blank Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1782-MB	W49277.D	1	11/11/14	TN	n/a	n/a	VW1782

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-3, C36990-5, C36990-6, C36990-10

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	70-130%
2037-26-5	Toluene-D8	100%	70-130%
460-00-4	4-Bromofluorobenzene	101%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1780-BS	W49230.D	1	11/07/14	TN	n/a	n/a	VW1780
VW1780-BSD	W49231.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	80	83.2	104	77.0	96	8	38-159/24
71-43-2	Benzene	20	19.7	99	19.8	99	1	77-122/25
108-86-1	Bromobenzene	20	19.3	97	19.7	99	2	76-126/17
74-97-5	Bromochloromethane	20	20.5	103	20.2	101	1	77-130/17
75-27-4	Bromodichloromethane	20	19.4	97	19.0	95	2	75-127/16
75-25-2	Bromoform	20	19.8	99	19.5	98	2	69-141/17
104-51-8	n-Butylbenzene	20	19.7	99	19.8	99	1	72-129/18
135-98-8	sec-Butylbenzene	20	19.7	99	19.7	99	0	74-128/18
98-06-6	tert-Butylbenzene	20	19.1	96	19.0	95	1	73-127/18
108-90-7	Chlorobenzene	20	19.4	97	19.5	98	1	77-122/16
75-00-3	Chloroethane	20	19.3	97	18.9	95	2	69-133/18
67-66-3	Chloroform	20	20.2	101	19.5	98	4	74-126/17
95-49-8	o-Chlorotoluene	20	19.4	97	19.9	100	3	72-127/20
106-43-4	p-Chlorotoluene	20	19.1	96	19.8	99	4	68-127/18
56-23-5	Carbon tetrachloride	20	19.7	99	19.6	98	1	71-133/19
75-34-3	1,1-Dichloroethane	20	19.8	99	19.2	96	3	71-125/17
75-35-4	1,1-Dichloroethylene	20	19.0	95	18.5	93	3	66-125/20
563-58-6	1,1-Dichloropropene	20	20.1	101	19.8	99	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	20	20.0	100	19.5	98	3	65-131/20
106-93-4	1,2-Dibromoethane	20	19.6	98	19.5	98	1	75-135/17
107-06-2	1,2-Dichloroethane	20	19.5	98	19.3	97	1	71-131/17
78-87-5	1,2-Dichloropropane	20	19.8	99	19.8	99	0	78-124/16
142-28-9	1,3-Dichloropropane	20	19.9	100	19.6	98	2	78-123/16
108-20-3	Di-Isopropyl ether	20	20.2	101	19.7	99	3	68-129/17
594-20-7	2,2-Dichloropropane	20	21.5	108	20.6	103	4	70-131/19
124-48-1	Dibromochloromethane	20	19.6	98	19.5	98	1	76-132/16
75-71-8	Dichlorodifluoromethane	20	20.7	104	20.0	100	3	32-168/28
156-59-2	cis-1,2-Dichloroethylene	20	20.0	100	19.7	99	2	73-126/17
10061-01-5	cis-1,3-Dichloropropene	20	19.8	99	19.8	99	0	72-130/16
541-73-1	m-Dichlorobenzene	20	19.5	98	19.7	99	1	75-124/16
95-50-1	o-Dichlorobenzene	20	19.3	97	19.3	97	0	76-124/16
106-46-7	p-Dichlorobenzene	20	19.4	97	19.6	98	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	20	19.5	98	18.9	95	3	71-126/18
10061-02-6	trans-1,3-Dichloropropene	20	18.9	95	18.5	93	2	71-126/16
100-41-4	Ethylbenzene	20	19.6	98	19.6	98	0	76-126/17
637-92-3	Ethyl Tert Butyl Ether	20	21.8	109	21.1	106	3	75-134/17

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1780-BS	W49230.D	1	11/07/14	TN	n/a	n/a	VW1780
VW1780-BSD	W49231.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	80	80.0	100	78.6	98	2	67-150/22
87-68-3	Hexachlorobutadiene	20	19.4	97	19.6	98	1	69-135/20
98-82-8	Isopropylbenzene	20	19.4	97	19.2	96	1	61-125/17
99-87-6	p-Isopropyltoluene	20	19.9	100	19.7	99	1	68-127/18
108-10-1	4-Methyl-2-pentanone	80	79.7	100	78.1	98	2	71-142/21
74-83-9	Methyl bromide	20	21.6	108	21.5	108	0	68-132/18
74-87-3	Methyl chloride	20	21.1	106	20.6	103	2	39-150/28
74-95-3	Methylene bromide	20	20.0	100	19.9	100	1	77-127/16
75-09-2	Methylene chloride	20	21.2	106	20.8	104	2	67-128/18
78-93-3	Methyl ethyl ketone	80	81.7	102	81.1	101	1	56-155/23
1634-04-4	Methyl Tert Butyl Ether	20	20.7	104	20.0	100	3	73-132/17
91-20-3	Naphthalene	20	18.6	93	18.2	91	2	70-136/20
103-65-1	n-Propylbenzene	20	19.6	98	19.5	98	1	71-127/17
100-42-5	Styrene	20	19.8	99	19.8	99	0	72-134/16
994-05-8	Tert-Amyl Methyl Ether	20	20.7	104	20.2	101	2	73-133/17
75-65-0	Tert-Butyl Alcohol	100	102	102	106	106	4	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	20	19.8	99	19.5	98	2	77-130/16
71-55-6	1,1,1-Trichloroethane	20	20.2	101	19.8	99	2	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	20	19.4	97	19.4	97	0	77-129/17
79-00-5	1,1,2-Trichloroethane	20	19.2	96	19.3	97	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	20	19.7	99	19.7	99	0	70-133/18
96-18-4	1,2,3-Trichloropropane	20	19.8	99	19.7	99	1	69-126/18
120-82-1	1,2,4-Trichlorobenzene	20	19.1	96	19.2	96	1	68-129/17
95-63-6	1,2,4-Trimethylbenzene	20	19.6	98	19.6	98	0	74-129/17
108-67-8	1,3,5-Trimethylbenzene	20	20.4	102	20.4	102	0	77-129/17
127-18-4	Tetrachloroethylene	20	19.2	96	19.3	97	1	69-127/20
108-88-3	Toluene	20	19.7	99	19.6	98	1	75-122/17
79-01-6	Trichloroethylene	20	19.3	97	19.3	97	0	78-123/17
75-69-4	Trichlorofluoromethane	20	20.2	101	20.2	101	0	65-136/23
75-01-4	Vinyl chloride	20	20.8	104	20.8	104	0	57-146/22
1330-20-7	Xylene (total)	60	58.7	98	58.5	98	0	77-125/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	103%	100%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1780-BS	W49230.D	1	11/07/14	TN	n/a	n/a	VW1780
VW1780-BSD	W49231.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2037-26-5	Toluene-D8	100%	100%	70-130%
460-00-4	4-Bromofluorobenzene	100%	99%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW1782-BS	W49274.D	1	11/11/14	TN	n/a	n/a	VW1782
VW1782-BSD	W49275.D	1	11/11/14	TN	n/a	n/a	VW1782

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-3, C36990-5, C36990-6, C36990-10

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	20	19.1	96	18.7	94	2	75-122/17

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	102%	70-130%
2037-26-5	Toluene-D8	98%	98%	70-130%
460-00-4	4-Bromofluorobenzene	99%	99%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36990-4MS	W49250.D	1	11/07/14	TN	n/a	n/a	VW1780
C36990-4MSD	W49251.D	1	11/07/14	TN	n/a	n/a	VW1780
C36990-4	W49242.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Compound	C36990-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	41.5		80	128	108	80	124	103	3	38-159/24
71-43-2	Benzene	ND		20	21.3	107	20	21.0	105	1	77-122/16
108-86-1	Bromobenzene	ND		20	19.6	98	20	19.9	100	2	76-126/17
74-97-5	Bromochloromethane	ND		20	21.4	107	20	21.0	105	2	77-130/17
75-27-4	Bromodichloromethane	ND		20	20.8	104	20	20.2	101	3	75-127/16
75-25-2	Bromoform	ND		20	20.7	104	20	20.4	102	1	69-141/17
104-51-8	n-Butylbenzene	ND		20	16.3	82	20	15.5	78	5	72-129/18
135-98-8	sec-Butylbenzene	ND		20	17.5	88	20	16.7	84	5	74-128/18
98-06-6	tert-Butylbenzene	ND		20	18.1	91	20	17.6	88	3	73-127/18
108-90-7	Chlorobenzene	ND		20	19.7	99	20	19.9	100	1	77-122/16
75-00-3	Chloroethane	ND		20	21.5	108	20	20.7	104	4	69-133/18
67-66-3	Chloroform	ND		20	22.0	110	20	21.0	105	5	74-126/17
95-49-8	o-Chlorotoluene	ND		20	19.9	100	20	19.4	97	3	72-127/20
106-43-4	p-Chlorotoluene	ND		20	20.0	100	20	19.9	100	1	68-127/18
56-23-5	Carbon tetrachloride	ND		20	22.1	111	20	21.5	108	3	71-133/19
75-34-3	1,1-Dichloroethane	ND		20	21.9	110	20	20.9	105	5	71-125/17
75-35-4	1,1-Dichloroethylene	ND		20	20.7	104	20	20.0	100	3	66-125/20
563-58-6	1,1-Dichloropropene	ND		20	22.3	112	20	21.9	110	2	75-124/18
96-12-8	1,2-Dibromo-3-chloropropane	ND		20	23.6	118	20	21.4	107	10	65-131/20
106-93-4	1,2-Dibromoethane	ND		20	20.4	102	20	20.5	103	0	75-135/17
107-06-2	1,2-Dichloroethane	3.4		20	24.3	105	20	23.1	99	5	71-131/17
78-87-5	1,2-Dichloropropane	ND		20	21.6	108	20	21.3	107	1	78-124/16
142-28-9	1,3-Dichloropropane	ND		20	21.4	107	20	21.0	105	2	78-123/16
108-20-3	Di-Isopropyl ether	ND		20	23.2	116	20	21.7	109	7	68-129/17
594-20-7	2,2-Dichloropropane	ND		20	21.8	109	20	20.2	101	8	70-131/19
124-48-1	Dibromochloromethane	ND		20	20.2	101	20	20.0	100	1	76-132/16
75-71-8	Dichlorodifluoromethane	ND		20	23.1	116	20	22.3	112	4	32-168/28
156-59-2	cis-1,2-Dichloroethylene	ND		20	21.2	106	20	20.6	103	3	73-126/17
10061-01-5	cis-1,3-Dichloropropene	ND		20	20.5	103	20	20.2	101	1	72-130/16
541-73-1	m-Dichlorobenzene	ND		20	18.9	95	20	18.9	95	0	75-124/16
95-50-1	o-Dichlorobenzene	ND		20	19.6	98	20	19.1	96	3	76-124/16
106-46-7	p-Dichlorobenzene	ND		20	19.1	96	20	18.9	95	1	75-124/16
156-60-5	trans-1,2-Dichloroethylene	ND		20	20.9	105	20	20.2	101	3	71-126/18
10061-02-6	trans-1,3-Dichloropropene	ND		20	19.5	98	20	18.9	95	3	71-126/16
100-41-4	Ethylbenzene	0.40	J	20	20.5	101	20	20.3	100	1	76-126/17
637-92-3	Ethyl Tert Butyl Ether	ND		20	25.1	126	20	23.6	118	6	75-134/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36990-4MS	W49250.D	1	11/07/14	TN	n/a	n/a	VW1780
C36990-4MSD	W49251.D	1	11/07/14	TN	n/a	n/a	VW1780
C36990-4	W49242.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Compound	C36990-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
591-78-6	2-Hexanone	ND		80	100	125	80	95.6	120	4	67-150/22
87-68-3	Hexachlorobutadiene	ND		20	12.5	63* [a]	20	11.7	59* [a]	7	69-135/20
98-82-8	Isopropylbenzene	ND		20	19.5	98	20	19.1	96	2	61-125/17
99-87-6	p-Isopropyltoluene	ND		20	17.3	87	20	16.7	84	4	68-127/18
108-10-1	4-Methyl-2-pentanone	ND		80	99.5	124	80	93.9	117	6	71-142/21
74-83-9	Methyl bromide	ND		20	22.3	112	20	21.6	108	3	68-132/18
74-87-3	Methyl chloride	ND		20	23.6	118	20	22.3	112	6	39-150/28
74-95-3	Methylene bromide	ND		20	21.9	110	20	21.2	106	3	77-127/16
75-09-2	Methylene chloride	ND		20	22.3	112	20	21.5	108	4	67-128/18
78-93-3	Methyl ethyl ketone	ND		80	102	128	80	98.6	123	3	56-155/23
1634-04-4	Methyl Tert Butyl Ether	ND		20	23.5	118	20	22.1	111	6	73-132/17
91-20-3	Naphthalene	ND		20	19.7	99	20	19.3	97	2	70-136/20
103-65-1	n-Propylbenzene	ND		20	18.9	95	20	18.7	94	1	71-127/17
100-42-5	Styrene	ND		20	19.5	98	20	19.7	99	1	72-134/16
994-05-8	Tert-Amyl Methyl Ether	ND		20	23.8	119	20	22.5	113	6	73-133/17
75-65-0	Tert-Butyl Alcohol	ND		100	124	124	100	131	131	5	60-149/26
630-20-6	1,1,1,2-Tetrachloroethane	ND		20	20.7	104	20	20.2	101	2	77-130/16
71-55-6	1,1,1-Trichloroethane	ND		20	22.8	114	20	21.8	109	4	74-128/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	22.0	110	20	21.6	108	2	77-129/17
79-00-5	1,1,2-Trichloroethane	ND		20	20.8	104	20	20.5	103	1	77-125/16
87-61-6	1,2,3-Trichlorobenzene	ND		20	17.4	87	20	17.2	86	1	70-133/18
96-18-4	1,2,3-Trichloropropane	ND		20	21.3	107	20	20.2	101	5	69-126/18
120-82-1	1,2,4-Trichlorobenzene	ND		20	16.7	84	20	16.1	81	4	68-129/17
95-63-6	1,2,4-Trimethylbenzene	ND		20	18.9	95	20	18.3	92	3	74-129/17
108-67-8	1,3,5-Trimethylbenzene	ND		20	19.5	98	20	18.9	95	3	77-129/17
127-18-4	Tetrachloroethylene	ND		20	19.4	97	20	19.5	98	1	69-127/20
108-88-3	Toluene	18.3		20	32.2	70* [a]	20	33.4	76	4	75-122/17
79-01-6	Trichloroethylene	1.6		20	23.0	107	20	22.5	105	2	78-123/17
75-69-4	Trichlorofluoromethane	ND		20	23.4	117	20	22.5	113	4	65-136/23
75-01-4	Vinyl chloride	ND		20	24.4	122	20	23.4	117	4	57-146/22
1330-20-7	Xylene (total)	0.51	J	60	59.6	98	60	59.5	98	0	77-125/17

CAS No.	Surrogate Recoveries	MS	MSD	C36990-4	Limits
1868-53-7	Dibromofluoromethane	106%	102%	103%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C36990-4MS	W49250.D	1	11/07/14	TN	n/a	n/a	VW1780
C36990-4MSD	W49251.D	1	11/07/14	TN	n/a	n/a	VW1780
C36990-4	W49242.D	1	11/07/14	TN	n/a	n/a	VW1780

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-1, C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12

CAS No.	Surrogate Recoveries	MS	MSD	C36990-4	Limits
2037-26-5	Toluene-D8	101%	101%	104%	70-130%
460-00-4	4-Bromofluorobenzene	102%	102%	105%	70-130%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C36990
Account: ERMCAI ERM-Irvine
Project: BF Goodrich Superfund Sampling, Rialto

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C37008-5MS	W49294.D	1	11/11/14	TN	n/a	n/a	VW1782
C37008-5MSD	W49295.D	1	11/11/14	TN	n/a	n/a	VW1782
C37008-5	W49284.D	1	11/11/14	TN	n/a	n/a	VW1782

The QC reported here applies to the following samples: **Method:** SW846 8260B

C36990-3, C36990-5, C36990-6, C36990-10

CAS No.	Compound	C37008-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	ND		20	19.4	97	20	19.0	95	2	75-122/17

CAS No.	Surrogate Recoveries	MS	MSD	C37008-5	Limits
1868-53-7	Dibromofluoromethane	109%	106%	102%	70-130%
2037-26-5	Toluene-D8	98%	97%	99%	70-130%
460-00-4	4-Bromofluorobenzene	105%	103%	102%	70-130%

* = Outside of Control Limits.

Northern California ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C36990
Account: ERMCAI - ERM-Irvine
Project: BF Goodrich Superfund Sampling,Rialto

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Perchlorate	GP7033/GN14925	3.0	0.0	ug/l	25	23.5	94.0	85-115%
Specific Conductivity	GN14909	1.0	0.0	umhos/cm				

Associated Samples:
Batch GP7033: C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12
Batch GN14909: C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C36990
Account: ERMCAI - ERM-Irvine
Project: BF Goodrich Superfund Sampling,Rialto

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Perchlorate	GP7033/GN14925	ug/l	25	23.3	0.9	

Associated Samples:
Batch GP7033: C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C36990
Account: ERMCAI - ERM-Irvine
Project: BF Goodrich Superfund Sampling,Rialto

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN14909	C36990-12	umhos/cm	1.9	2.1	12.9(a)	0-10%
Specific Conductivity	GN14909	C36990-4	umhos/cm	310	310	0.0	0-10%

Associated Samples:
Batch GN14909: C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C36990
Account: ERMCAI - ERM-Irvine
Project: BF Goodrich Superfund Sampling,Rialto

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Perchlorate	GP7033/GN14925	C36990-4	ug/l	1.9	25	23.7	87.2	80-120%

Associated Samples:
Batch GP7033: C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C36990
Account: ERMCAI - ERM-Irvine
Project: BF Goodrich Superfund Sampling,Rialto

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Perchlorate	GP7033/GN14925	C36990-4	ug/l	1.9	25	23.3	1.7	15%

Associated Samples:
Batch GP7033: C36990-2, C36990-3, C36990-4, C36990-5, C36990-6, C36990-7, C36990-8, C36990-9, C36990-10, C36990-11, C36990-12
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Attachment 2
Data Validation Report

Memorandum

Environmental Resources Management

2525 Natomas Park Drive, Suite 350
Sacramento, CA 95833
(916) 924-9378
(916) 920-9378 (fax)

To: Chris Berg

From: Sandra Mulhearn

Date: 13 November 2014

Subject: Data Review of the Rockets, Fireworks and Flares Site, Rialto, CA - Groundwater Samples Collected November 2014

Project Number: 0179962.04.C

Data Package: Accutest Laboratories Data Package C36990

The quality of the data was assessed and any necessary qualifiers were applied following the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review,* October 1999 and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review,* October 2004.

HOLDING TIME AND PRESERVATION EVALUATION

The sample shipments were received at the laboratory within the method-prescribed temperature and preservation requirements. None of the data were qualified based on temperature or preservation exceedances. All samples were prepared and analyzed within the method-prescribed time period from the date of collection.

BLANK EVALUATION

The method blank, equipment blank, field blank, and trip blank sample results were nondetected for each of the target analytes.

BLANK SPIKE EVALUATION

The blank spike sample (BSS) and blank spike duplicate (BSD) recoveries were within the laboratory's limits of acceptance.

MATRIX SPIKE EVALUATION

The matrix spike (MS) and matrix spike duplicate (MSD) recoveries were within the laboratory's limits of acceptance with limited exceptions. The outlying MS/MSD recoveries did not warrant qualification of associated sample data. Sample data were not qualified if the spike sample was prepared using a non-client sample, if the data could be verified using associated, in-control BSS/BSD recoveries, or if only one recovery in the MS/MSD pair exceeded control limits. The MS outliers are presented in Table 1.

SURROGATE SPIKE EVALUATION

The surrogate recoveries were within acceptable limits. No qualifications to the data were made. The surrogate recoveries indicate minimal matrix interference in the samples.

FIELD DUPLICATE EVALUATION

One sample was collected and submitted in duplicate. ERM calculated the relative percent difference (RPD) between detected sample results. The USEPA has not established control criteria for field duplicate samples; therefore, sample data are not qualified on the basis of field duplicate imprecision. A list of duplicate detections and calculated RPDs is provided in Table 2.

ANALYTICAL DUPLICATE EVALUATION

The laboratory prepared and analyzed two samples for specific conductivity as analytical duplicates. All of the RPDs were within the acceptable laboratory limit of 10% with one exception. A single outlier was noted for an equipment blank. No qualifications are made based upon outliers on quality control samples. The outliers are listed in Table 3.

OVERALL ASSESSMENT

No data were qualified. All of the data can be used for decision-making purposes. The quality of the data generated during this investigation is acceptable for the preparation of technically-defensible documents.

Table 1
Matrix Spike Recoveries Outside of Acceptable Limits
Groundwater Samples Collected August 2014
Former BF Goodrich Site
Rialto, California

Lab Package	Spike Sample ID	Associated Sample	Compound	Recovery (%)	Limit (%)	RPD	RPD Limit	Sample Result	ERM Qualifier
C36990	EMW-01B-556-GW-05/11/2014	NA	Hexachlorobutadiene	63/59	69-135	7	20	--	--
C36990	EMW-01B-556-GW-05/11/2014	NA	Toluene	70/76	75-122	4	17	--	--

Data packages reviewed: C36990

Key:
RPD = Relative percent difference
NA = Not applicable; associated samples not qualified

Table 2
Field Duplicate Results and Calculated Relative Percent Differences
Groundwater Samples Collected November 2014
Former BF Goodrich Site
Rialto, California

Lab Package	Sample ID : Duplicate ID	Compound	Concentration Sample	Concentration Duplicate	Report Limit	Units	RPD
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Acetone	20.9	19	20	µg/L	9.5
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	1,2-Dichloroethane	2.5	2.4	1.0	µg/L	4.1
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Ethylbenzene	5.1	5.1	1.0	µg/L	0
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Isopropylbenzene	0.56	0.56	1.0	µg/L	0
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	n-Propylbenzene	0.63	0.64	2.0	µg/L	1.6
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	1,2,4-Trimethylbenzene	0.21	0.21	2.0	µg/L	0
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Toluene	127	125	5.0	µg/L	1.6
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Xylene (total)	4.9	5.0	2.0	µg/L	2.0
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Perchlorate	1.2	1.0	3.0	µg/L	18
C36990	EMW-01A-47D-GW-5/11/2014 : 05112014D-1	Specific Conductivity	201	194	1.0	umhos/cm	3.5

Data packages reviewed: C36990

Key:
RPD = Relative percent difference µg/L = Micrograms per liter umhos/cm = Micromhos per centimeter

Table 3
Laboratory Duplicate Results
Groundwater Samples Collected November 2014
Former BF Goodrich Site
Rialto, California

Lab Package	Duplicate Sample	Compound	RPD	Limit	Qualifier
C36990	05112014EB-1	Specific Conductivity	12.9	10	--

Data packages reviewed: C36990

Key:
RPD = Relative percent difference