FORM 4
Rev 12/05

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax:(303)894-2109

DE | ET | DE | ES

DOCUMENT #2221247

RECEIVED 11/14/2011

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry Information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 96850
2. Name of Operator: Williams Production RMT
3. Address: 1058 County Road 215
City: Parachute State: CO Zip: 81635
4. Contact Name: Karolina Blaney
Phone: 970 683 2295
Fax: 970 285 9573

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	
Other	X	

5. API Number 05- ~~045-10659~~
OGCC Facility ID Number 277095
6. Well/Facility Name:
7. Well/Facility Number TR 44-26-597
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE S26 T5S R97W 6th PM
9. County: Garfield
10. Field Name: Trail Ridge
11. Federal, Indian or State Lease Number:

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage **from** Exterior Section Lines:				
Change of **Surface** Footage **to** Exterior Section Lines:				
Change of **Bottomhole** Footage **from** Exterior Section Lines:				
Change of **Bottomhole** Footage **to** Exterior Section Lines:				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude
Longitude
Ground Elevation
Distance to nearest property line
Distance to nearest lease line
Distance to nearest well same formation
Distance to nearest bldg, public rd, utility or RR
Is location in a High Density Area (rule 603b)? Yes/No
Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond
Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ CHANGE WELL NAME NUMBER
From:
To:
Effective Date:

☐ ABANDONED LOCATION:
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately ☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent
Approximate Start Date:

☒ Report of Work Done
Date Work Completed: 10/20/2011

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)
☐ Change Drilling Plans
☐ Gross Interval Changed?
☐ Casing/Cementing Program Change
☐ Request to Vent or Flare
☐ Repair Well
☐ Rule 502 variance requested
☒ Other: Form 15 COAs
☐ E&P Waste Disposal
☐ Beneficial Reuse of E&P Waste
☐ Status Update/Change of Remediation Plans for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 11/14/2011 Email: Karolina.Blaney@Williams.com
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Richard Allison Title: OGLA Specialist Date: 12/7/2011
CONDITIONS OF APPROVAL, IF ANY:

Click here to reset form

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

1. OGCC Operator Number: 96850 API Number: 05-045-10659
2. Name of Operator: Williams Production RMT OGCC Facility ID # 277095
3. Well/Facility Name: Well/Facility Number: TR 44-26-597
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESE S26 T5S R97W 6th PM

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

In accordance with the TR 44-26-597 Pit Permit Form 15 conditions of approval (see attached), Williams is submit the following documents in order to stay in compliance:

- Hydrostatic test of pit liner
- As-built plat & cross section
- Analytical data of the grab water sample collected from pit

Form 15

FORM 15 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the Attachment Checklist

	Oper	OGCC
Detailed Site Plan	✓	
Topo Map w/ Pit Location	✓	
Water Analysis (Form 25)		
Source Wells (Form 26)	✓	
Pit Design/Plan & Cross Sect	✓	
Design Calculations	✓	
Sensitive Area Determ.		
Mud Program		
Form 2A	✓	

FORM SUBMITTED FOR:

☐ Pit Report ☑ Pit Permit

OGCC Operator Number: 96850

Name of Operator: Williams Production RMT Co

Address: 1515 Arapahoe St., Tower 3, Suite 1000

City: Denver State: Co Zip: 80202

Contact Name and Telephone:

Lisa Dee

No: (303) 260-4538

Fax: (303) 629-8268

API Number (of associated well): See attached Form 26 OGCC Facility ID (of other associated facility): Applied For

Pit Location (QtrQtr, Sec, Twp, Rng, Meridian): Chevron TR 44-26-597 pad (SESE of Sec. 26: T5S-R97W 6th P.M.)

Latitude: N39.578697 NAD83 Longitude: W108.237914 NAD83 County: Garfield

Pit Use: ☐ Production ☐ Drilling (Attach mud program) ☑ Special Purpose (Describe Use): Multiwell Pit

Pit Type: ☑ Lined ☐ Unlined Surface Discharge Permit: ☐ Yes ☐ No

Offsite disposal of pit contents: ☐ Injection ☐ Commercial Pit/Facility Name: _____ Pit/Facility No: _____

Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" ☐ Yes ☑ No **Attach data used for determination.**

Distance (in feet) to nearest surface water: +/- 1300' ground water: +/- 4000' water wells: +/- 1.35 mi

LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:

Crop Land: ☐ Irrigated ☐ Dry Land ☐ Improved Pasture ☐ Hay Meadow ☐ CRP

Non-Crop Land: ☑ Rangeland ☐ Timber ☐ Recreational ☐ Other (describe): _____

Subdivided: ☐ Industrial ☐ Commercial ☐ Residential

SOILS (or attach copy of Form 2A if previously submitted for associated well)

Soil map units form USNRCS survey: Sheet No: Website Data Soil Complex/Series No: 55

Soils Series Name: Parachute-Irigul Complex Horizon thickness (in inches): A: 0-10" ; B: 10-25" ; C: 25-29"

Soils Series Name: See attached Form 2A Horizon thickness (in inches): A: 0-6" ; B: 6-13" ; C: 13-17"

Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 150' Width: 50' Depth: 6'

Calculated pit volume (bbls): 3,992bbls Daily inflow rate (bbls/day): 20

Daily disposal rates (attach calculations): Evaporation: 3.9 bbls/day Percolation: none bbls/day

Type of liner material: Poly Thickness: 24mil

Attach description of proposed design and construction (include sketches and calculations).

Method of treatment of produced water prior to discharge into pit (separator, heater-treater, other): Separator

Is pit fenced? ☑ Yes ☐ No Is pit netted? ☐ Yes ☒ No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Lisa Dee Signed: [signature]

Title: Regulatory Specialist - Piceance Highlands Asset Team Date: 3/4/2009

OGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

- OPERATOR WILL SUBMIT FIELD VERIFIED DIMENSIONS & CAPACITIES TO COGCC ON FORM 4
- OPERATOR WILL CEASE USE BY 12/31/2011 OR CONDUCT 72-hour HYDROSTATIC TEST OF LINER BY SAME DATE
- OPERATOR WILL SUBMIT CLOSURE PLAN (FORM 27) OR PROVIDE STATUS UPDATE TO COGCC BY 12/31/2011
- OPERATOR WILL PROVIDE ANALYTICAL DATA FOR GRAB SAMPLE FROM PIT WATER ON FORM 4

FACILITY NUMBER: 277095

Hydrostatic Test Results

Hydrostatic Pit Testing
Data Collection & Computation Form

Fox Engineering Solutions

Pit Owner:	Williams Production RMT Company
Pit Name:	TR 44-26-597
COGCC Facility No.	277095
Pit Location:	SE 1/4 SE 1/4 Sec 26, T5S, R97W, 6th P.M.
	Latitude: N 39.5787° Longitude: W108.2379° NAD83
Reported Liner:	24mil Polypropylene
Approximate Elevation:	8636 ft. msl
Test Conducted By:	David Fox, Fox Engineering Solutions

Test Initiation:

Date:	10/17/2011
Time:	10:15 AM
Total Duration:	72 hours

Test Termination:

Date:	10/20/2011
Time:	10:15 AM

	Length	Width	Area		Comments
Tributary Pit Liner Surface Area (ft^2):	-	-	3,772	$ft.^2$	**Surveyed by Bookcliff Survey**
Initial Pit Water Surface Area:	-	-	2,178	$ft.^2$	**Surveyed by Bookcliff Survey**
Final Pit Water Surface Area:	-	-	2,178	$ft.^2$	**Surveyed by Bookcliff Survey**
Average Pit Surface Area:			2178	$ft.^2$	

Initial Pit Fluid Level:		**8636.23 ft.**
Final Pit Fluid Level:		**8636.21 ft**
Difference		**0.02 ft or**
Est. Fluid Depth:	**4** ft.	**0.24 inches**

Evaporation Pan Installed: Yes — **Location:** West side of pit

Measured Pan Evaporation:	**0.39 inches**
during Test Duration	
Evaporation w/ Pan Coeff. 0.72	**0.28 inches**

Rain Gauge Installed: Yes — **Location:** West side of pit

Recorded Precipitation:	**0.00 inches**
Equiv. 72-Hour Precip. Inflow:	**0.00 inches**

Other Inflow/Outflow:	**Inflow (gal)**	**0**	**Equivalent Inflow:**	**0.00 inches**
	Outflow (gal)	**0**	**Equivalent Outflow:**	**0.00 inches**

Calculated Fluid Level Change in Inches: (+ indicates fluid level increased)

(Precipitation - Pan Evaporation + Inflows - Outflows)	**-0.39 inches**
(Precipitation - 72% Pan Evaporation + Inflows - Outflows)	**-0.28 inches**

Measure Change in Inches: (+ indicates fluid level increased) **-0.24 inches**

Difference between Calculated and Measured Pit Fluid Level:

(With Pan Evaporation)	**0.15 inches**
(With 72% Pan Evaporation)	**0.04 inches**

Summary: No observed loss in liner integrity. Fluid level drop did not exceeded evaporation.

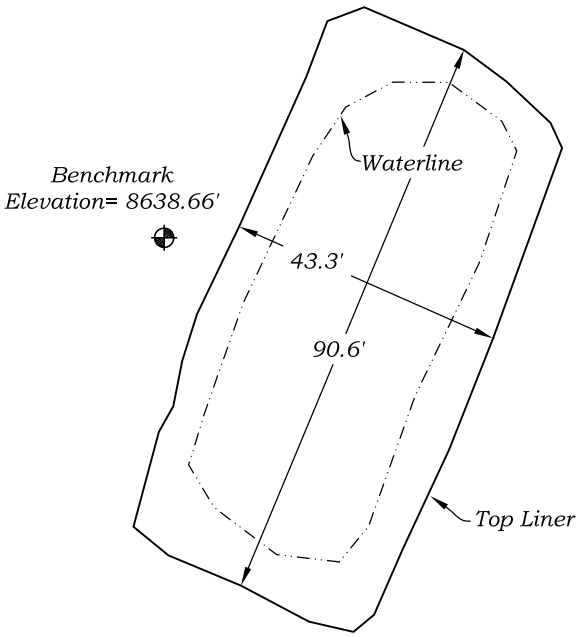
Weather: Dry, Cool 30 - 65° temperatures with no precipitation.

Liner and Pit Condition: Produced water fluid level at approximate 4 ft depth.
Visible portion of liner, approximately the top 2-3 ft., had no apparent delamination or seam failures.

Comments: Bookcliff Survey utilized a Trimble Total Station for required area and elevation measurements.
Williams staff indicated that no fluids were transferred from or to the pit during the duration of the test.
Guard personnel at site for the duration of the hydrotest.

HYDROTEST EXHIBIT

TRAIL RIDGE 44-26-597



SCALE: 1"= 30'

TRAIL RIDGE 44-26-597 PIT DETAILS

TEST @ 10:15A.M.

TOP WATER ELEV. (OCTOBER 17, 2011)= 8636.23'
TOP WATER ELEV. (OCTOBER 20, 2011)= 8636.21'
TOP WATER SURFACE AREA (OCTOBER 17, 2011)= 2,178 sq. ft.

TOP OF LINER SURFACE AREA = 3,772 sq. ft.

TRAIL RIDGE 44-26-597 PIT LOCATION

SECTION 26,
TOWNSHIP 5 SOUTH,
RANGE 97 WEST OF THE SIXTH P.M.

136 East Third Street
Rifle, Colorado 81650
Ph. (970) 625-1330
Fax (970) 625-2773

BOOKCLIFF Survey Services, Inc.

Fox Engineering Solutions
670 Canyon Creek Dr.
Grand Junction, CO 81503

TRAIL RIDGE
44-26-597

DATE: 10/20/11
SHEET: 1 OF 1
PROJECT: HYDROTEST
DFT: SRB

K:\2010 TRAIL RIDGE\HYDROTESTS\dwg\HYDROTEST.dwg, 10/20/2011 3:46:14 PM

Hydrostatic Testing Procedures for COGCC Earthen Pits

Version 5.0

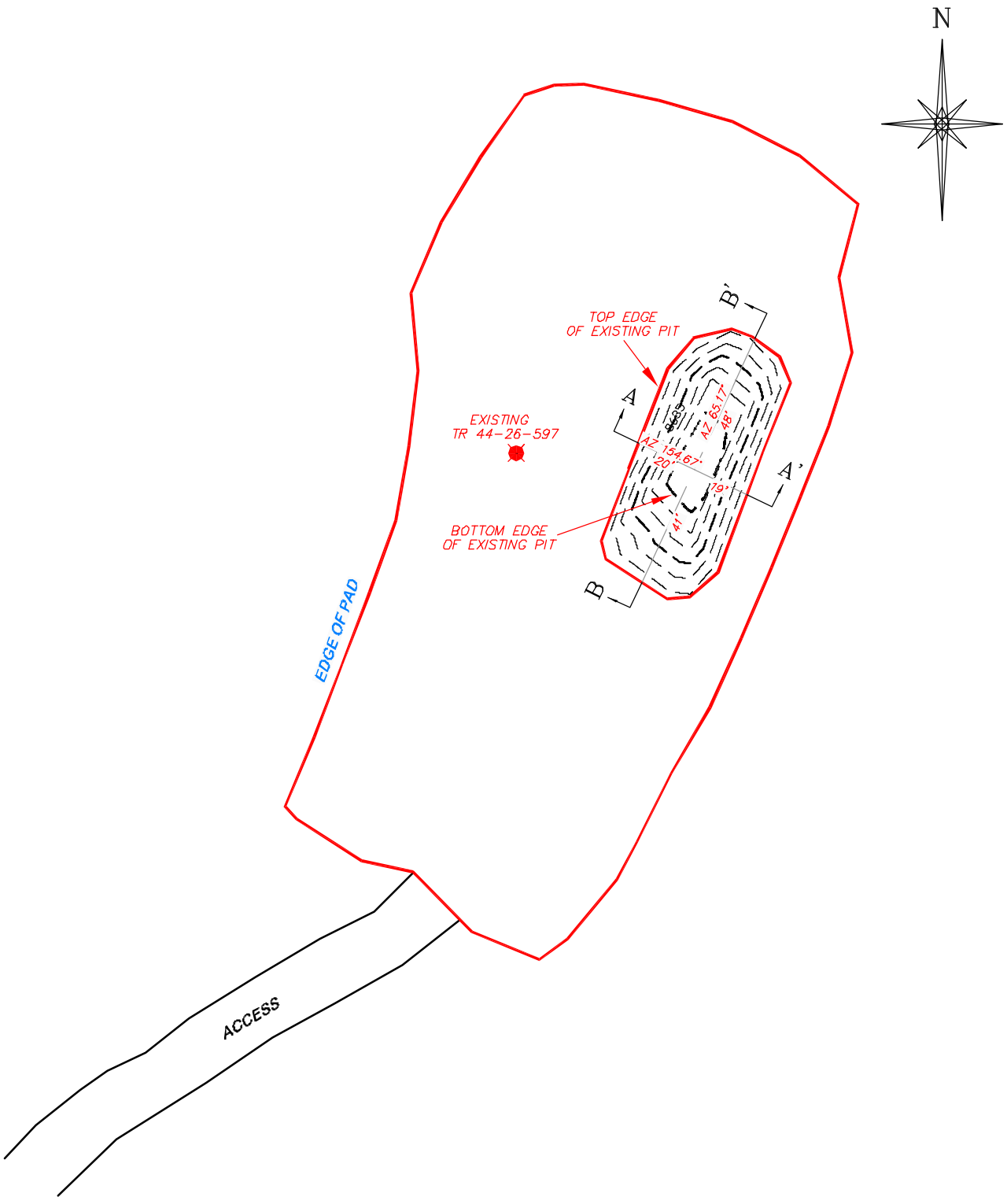
Fox Engineering Solutions

The purpose for hydrostatic testing earthen pits is to comply with COGCC approval conditions for verifying the fluid holding integrity of the pit lining system. These procedures are specific to existing or active earthen pits holding oil and gas related fluids including, but not limited to, produced water. During testing, the pit shall have fluid level as high as practical, without encroaching into the 2 ft. freeboard, and the test shall be conducted for a minimum of 72 hours, if practical. Visible portions of the liner, including the anchor trench and seams, shall be inspected for defects. The test shall be scheduled and coordinated with personnel to ensure that oil and gas activities do not interfere with the test. Testing procedures may be subject to changes as dictated by field and climatic factors. All personnel involved with testing, while onsite, shall comply with their respective EH&S requirements.

- If practical, a sign shall be placed in a conspicuous location during the test stating “Hydrostatic Testing in Progress, Pit Closed to All Water Hauling Activities”. Contact information shall also be placed on the sign.
- A semi-permanent datum elevation point shall be established at the pit location. The surface area of the water surface and the surface area of the liner area, tributary to the pit shall be measured. The date and time of each measurement shall be documented.
- The pit fluid level; fluid surface area; and the lined surface area, tributary to the pit, shall be measured and recorded at the beginning of the test. The pit fluid level shall be measured again at the end of the test. A survey grade total station shall be utilized for accuracy to capture this information. The date and time of measurements shall be documented.
- A 4” diameter official rain gauge with funnel inlet shall be installed at the pit site. Precipitation shall be recorded for the duration of the hydrostatic test.
- Pan Evaporation shall be measured during the duration of the test following the procedures established by the National Weather Service – NOAA in the document entitled “National Weather Service - Observing Handbook No. 2, dated July 1989. A Class A evaporation pan shall be placed at the site, or as near as practical, with evaporation measured per established procedures.
- For the duration of the test, all inflows and outflows, such as truck and piped transfers, shall cease. If the cessation of inflows and outflows is not practical, all pit inflows and outflows shall be accurately metered and documented during the test. 24-hour surveillance monitoring may be warranted.
- If no precipitation has occurred during the test, compare the change in the pit fluid level with the recorded pan evaporation.
- If precipitation has occurred during the test, precipitation falling onto tributary portions of the liner, outside of the fluid surface area, must be added as an inflow to the pit and converted into inches of depth over the fluid surface area.
- The calculated change in pit level during the test is: $\Delta S = P + I - O - E$ (all measurements converted to inches)

  Where: ΔS = Change in pit storage
  P = Precipitation Inflow
  I = Measured Inflows
  O = Measured Outflows
  E = Evaporation
- The measured change in the pit fluid level shall be compared to the calculated change, utilizing precipitation and evaporation data, in the pit fluid level during the test duration. The test procedures and results will be reviewed and analyzed for discrepancies. If the test results indicate integrity issues with the lining system, the test will be repeated.

As-built Plat & Cross Sections



NOTES:
1) ALL AZIMUTHS SHOWN ARE GRID AZIMUTHS.
2) MULTI-WELL PIT CAPACITY 45,713± Bbls.
3) MULTI-WELL PIT DRY AT TIME OF SURVEY.

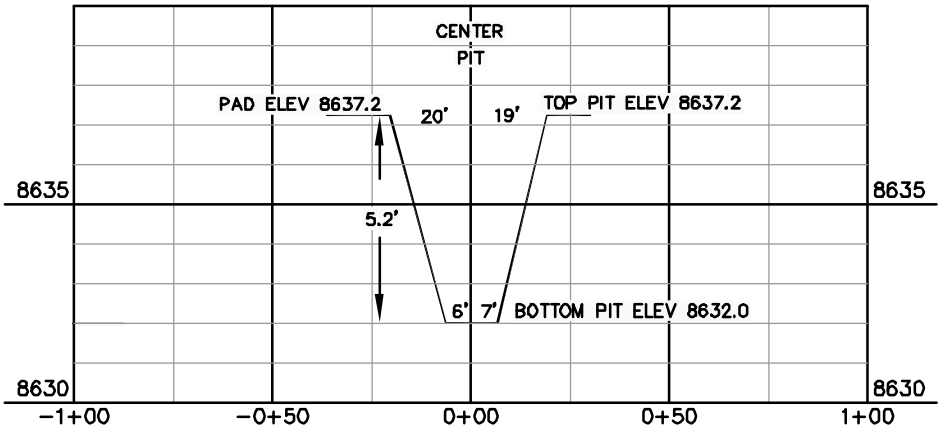
50 0 50
SCALE FEET

GRIFFIN & ASSOCIATES, INC.
1414 ELK ST., ROCK SPRINGS, WY 82901
(307) 362-5028

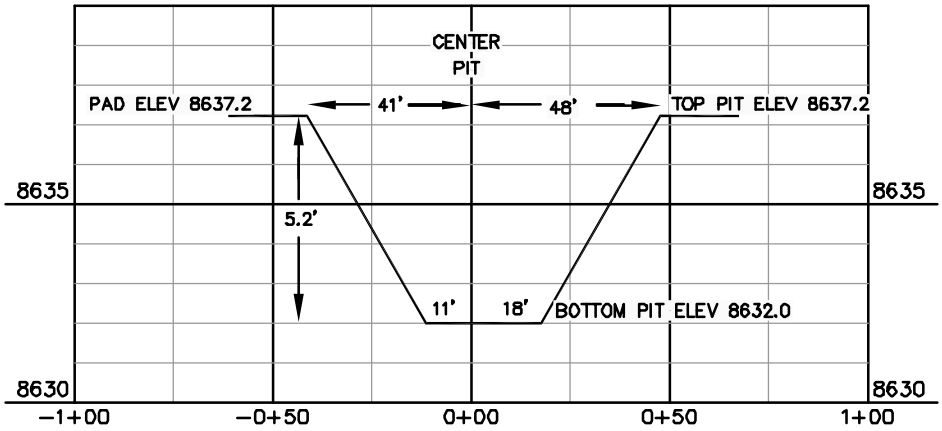
DRAWN: 6/10/11 - RAB	SCALE: 1" = 50'
REVISED: 6/14/11 - RAB	DRG JOB No. 13210
CONVERTED CAPACITY TO Bbls	SHEET 1 OF 2

CONSTRUCTION LAYOUT

WILLIAMS PRODUCTION RMT COMPANY
TR 44-26-597 MULTI-WELL PIT LAYOUT



A — A'



B — B'

DRG RIFFIN & ASSOCIATES, INC.
(307) 362-5028
1414 ELK ST., ROCK SPRINGS, WY 82901

DRAWN: 6/10/11 - RAB	HORZ. 1" = 50' VERT. 1" = 5'
REVISED: 6/13/11 - RAB	DRG JOB No. 13210
CHANGED BOTTOM ELEV.	SHEET 2 OF 2

CONSTRUCTION LAYOUT CROSS SECTIONS

WILLIAMS PRODUCTION RMT COMPANY
TR 44-26-597 MULTI-WELL PIT
SESE, SECTION 26, T5S, R97W, 6th P.M.

Analytical Data

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Karolina Blaney
Williams
1058 County Road 215
Parachute, CO 81635

Report Summary

Wednesday November 09, 2011

Report Number: L544507
Samples Received: 11/02/11
Client Project:

Description: TR44-26-597 Pit

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: 

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karolina Blaney
Williams
1058 County Road 215
Parachute, CO 81635

November 09, 2011

ESC Sample # : L544507-01

Date Received : November 02, 2011
Description : TR44-26-597 Pit

Site ID : TR44-26-597

Sample ID : TR44-26-597

Project # :

Collected By :
Collection Date : 11/01/11 12:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Bromide	39.	1.0	mg/l	300.0	11/05/11	1
Chloride	4900	100	mg/l	300.0	11/05/11	100
Sulfate	14.	5.0	mg/l	300.0	11/05/11	1
Alkalinity	260	20.	mg/l	2320B	11/03/11	1
Alkalinity,Bicarbonate	260	20.	mg/l	2320B	11/04/11	1
Alkalinity,Carbonate	BDL	20.	mg/l	2320B	11/04/11	1
pH	6.5		su	9040C	11/03/11	1
Specific Conductance	13000	1.8	umhos/cm	9050A	11/03/11	1
Dissolved Solids	8500	10.	mg/l	2540C	11/07/11	1
Calcium,Dissolved	84.	0.50	mg/l	6010B	11/06/11	1
Iron,Dissolved	3.4	0.10	mg/l	6010B	11/06/11	1
Magnesium,Dissolved	9.4	0.10	mg/l	6010B	11/06/11	1
Manganese,Dissolved	0.20	0.010	mg/l	6010B	11/06/11	1
Potassium,Dissolved	77.	0.50	mg/l	6010B	11/06/11	1
Sodium,Dissolved	3500	2.5	mg/l	6010B	11/06/11	5
Volatile Organics						
Acetone	BDL	5.0	mg/l	8260B	11/02/11	100
Acrolein	BDL	5.0	mg/l	8260B	11/02/11	100
Acrylonitrile	BDL	1.0	mg/l	8260B	11/02/11	100
Benzene	2.3	0.10	mg/l	8260B	11/02/11	100
Bromobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
Bromodichloromethane	BDL	0.10	mg/l	8260B	11/02/11	100
Bromoform	BDL	0.10	mg/l	8260B	11/02/11	100
Bromomethane	BDL	0.50	mg/l	8260B	11/02/11	100
n-Butylbenzene	BDL	0.10	mg/l	8260B	11/02/11	100
sec-Butylbenzene	BDL	0.10	mg/l	8260B	11/02/11	100
tert-Butylbenzene	BDL	0.10	mg/l	8260B	11/02/11	100
Carbon tetrachloride	BDL	0.10	mg/l	8260B	11/02/11	100
Chlorobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
Chlorodibromomethane	BDL	0.10	mg/l	8260B	11/02/11	100
Chloroethane	BDL	0.50	mg/l	8260B	11/02/11	100
2-Chloroethyl vinyl ether	BDL	5.0	mg/l	8260B	11/02/11	100
Chloroform	BDL	0.50	mg/l	8260B	11/02/11	100
Chloromethane	BDL	0.25	mg/l	8260B	11/02/11	100
2-Chlorotoluene	BDL	0.10	mg/l	8260B	11/02/11	100
4-Chlorotoluene	BDL	0.10	mg/l	8260B	11/02/11	100
1,2-Dibromo-3-Chloropropane	BDL	0.50	mg/l	8260B	11/02/11	100
1,2-Dibromoethane	BDL	0.10	mg/l	8260B	11/02/11	100

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L544507-01 (PH) - 6.52@20.6c

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Karolina Blaney
Williams
1058 County Road 215
Parachute, CO 81635

November 09, 2011

ESC Sample # : L544507-01

Date Received : November 02, 2011
Description : TR44-26-597 Pit

Site ID : TR44-26-597

Sample ID : TR44-26-597

Project # :

Collected By :
Collection Date : 11/01/11 12:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Dibromomethane	BDL	0.10	mg/l	8260B	11/02/11	100
1,2-Dichlorobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
1,3-Dichlorobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
1,4-Dichlorobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
Dichlorodifluoromethane	BDL	0.50	mg/l	8260B	11/02/11	100
1,1-Dichloroethane	BDL	0.10	mg/l	8260B	11/02/11	100
1,2-Dichloroethane	BDL	0.10	mg/l	8260B	11/02/11	100
1,1-Dichloroethene	BDL	0.10	mg/l	8260B	11/02/11	100
cis-1,2-Dichloroethene	BDL	0.10	mg/l	8260B	11/02/11	100
trans-1,2-Dichloroethene	BDL	0.10	mg/l	8260B	11/02/11	100
1,2-Dichloropropane	BDL	0.10	mg/l	8260B	11/02/11	100
1,1-Dichloropropene	BDL	0.10	mg/l	8260B	11/02/11	100
1,3-Dichloropropane	BDL	0.10	mg/l	8260B	11/02/11	100
cis-1,3-Dichloropropene	BDL	0.10	mg/l	8260B	11/02/11	100
trans-1,3-Dichloropropene	BDL	0.10	mg/l	8260B	11/02/11	100
2,2-Dichloropropane	BDL	0.10	mg/l	8260B	11/02/11	100
Di-isopropyl ether	BDL	0.10	mg/l	8260B	11/02/11	100
Ethylbenzene	0.33	0.10	mg/l	8260B	11/02/11	100
Hexachloro-1,3-butadiene	BDL	0.10	mg/l	8260B	11/02/11	100
Isopropylbenzene	BDL	0.10	mg/l	8260B	11/02/11	100
p-Isopropyltoluene	BDL	0.10	mg/l	8260B	11/02/11	100
2-Butanone (MEK)	BDL	1.0	mg/l	8260B	11/02/11	100
Methylene Chloride	BDL	0.50	mg/l	8260B	11/02/11	100
4-Methyl-2-pentanone (MIBK)	BDL	1.0	mg/l	8260B	11/02/11	100
Methyl tert-butyl ether	BDL	0.10	mg/l	8260B	11/02/11	100
Naphthalene	BDL	0.50	mg/l	8260B	11/02/11	100
n-Propylbenzene	BDL	0.10	mg/l	8260B	11/02/11	100
Styrene	BDL	0.10	mg/l	8260B	11/02/11	100
1,1,1,2-Tetrachloroethane	BDL	0.10	mg/l	8260B	11/02/11	100
1,1,2,2-Tetrachloroethane	BDL	0.10	mg/l	8260B	11/02/11	100
1,1,2-Trichlorotrifluoroethane	BDL	0.10	mg/l	8260B	11/02/11	100
Tetrachloroethene	BDL	0.10	mg/l	8260B	11/02/11	100
Toluene	6.1	0.50	mg/l	8260B	11/02/11	100
1,2,3-Trichlorobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
1,2,4-Trichlorobenzene	BDL	0.10	mg/l	8260B	11/02/11	100
1,1,1-Trichloroethane	BDL	0.10	mg/l	8260B	11/02/11	100
1,1,2-Trichloroethane	BDL	0.10	mg/l	8260B	11/02/11	100
Trichloroethene	BDL	0.10	mg/l	8260B	11/02/11	100
Trichlorofluoromethane	BDL	0.50	mg/l	8260B	11/02/11	100
1,2,3-Trichloropropane	BDL	0.25	mg/l	8260B	11/02/11	100
1,2,4-Trimethylbenzene	0.73	0.10	mg/l	8260B	11/02/11	100
1,2,3-Trimethylbenzene	BDL	0.10	mg/l	8260B	11/02/11	100
1,3,5-Trimethylbenzene	0.63	0.10	mg/l	8260B	11/02/11	100
Vinyl chloride	BDL	0.10	mg/l	8260B	11/02/11	100

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L544507-01 (PH) - 6.52@20.6c

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Est. 1970

REPORT OF ANALYSIS

Karolina Blaney
Williams
1058 County Road 215
Parachute, CO 81635

November 09, 2011

ESC Sample # : L544507-01

Date Received : November 02, 2011
Description : TR44-26-597 Pit

Site ID : TR44-26-597

Sample ID : TR44-26-597

Project # :

Collected By :
Collection Date : 11/01/11 12:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Xylenes, Total	5.6	0.30	mg/l	8260B	11/02/11	100
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	11/02/11	100
Dibromofluoromethane	98.3		% Rec.	8260B	11/02/11	100
4-Bromofluorobenzene	108.		% Rec.	8260B	11/02/11	100
Base/Neutral Extractables						
Acenaphthene	BDL	0.0010	mg/l	8270C	11/07/11	1
Acenaphthylene	BDL	0.0010	mg/l	8270C	11/07/11	1
Anthracene	BDL	0.0010	mg/l	8270C	11/07/11	1
Benzidine	BDL	0.010	mg/l	8270C	11/07/11	1
Benzo(a)anthracene	BDL	0.0010	mg/l	8270C	11/07/11	1
Benzo(b)fluoranthene	BDL	0.0010	mg/l	8270C	11/07/11	1
Benzo(k)fluoranthene	BDL	0.0010	mg/l	8270C	11/07/11	1
Benzo(g,h,i)perylene	BDL	0.0010	mg/l	8270C	11/07/11	1
Benzo(a)pyrene	BDL	0.0010	mg/l	8270C	11/07/11	1
Bis(2-chlorethoxy)methane	BDL	0.010	mg/l	8270C	11/07/11	1
Bis(2-chloroethyl)ether	BDL	0.010	mg/l	8270C	11/07/11	1
Bis(2-chloroisopropyl)ether	BDL	0.010	mg/l	8270C	11/07/11	1
4-Bromophenyl-phenylether	BDL	0.010	mg/l	8270C	11/07/11	1
2-Chloronaphthalene	BDL	0.0010	mg/l	8270C	11/07/11	1
4-Chlorophenyl-phenylether	BDL	0.010	mg/l	8270C	11/07/11	1
Chrysene	BDL	0.0010	mg/l	8270C	11/07/11	1
Dibenz(a,h)anthracene	BDL	0.0010	mg/l	8270C	11/07/11	1
3,3-Dichlorobenzidine	BDL	0.010	mg/l	8270C	11/07/11	1
2,4-Dinitrotoluene	BDL	0.010	mg/l	8270C	11/07/11	1
2,6-Dinitrotoluene	BDL	0.010	mg/l	8270C	11/07/11	1
Fluoranthene	BDL	0.0010	mg/l	8270C	11/07/11	1
Fluorene	0.0025	0.0010	mg/l	8270C	11/07/11	1
Hexachlorobenzene	BDL	0.0010	mg/l	8270C	11/07/11	1
Hexachloro-1,3-butadiene	BDL	0.010	mg/l	8270C	11/07/11	1
Hexachlorocyclopentadiene	BDL	0.010	mg/l	8270C	11/07/11	1
Hexachloroethane	BDL	0.010	mg/l	8270C	11/07/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0010	mg/l	8270C	11/07/11	1
Isophorone	BDL	0.010	mg/l	8270C	11/07/11	1
Naphthalene	0.031	0.0010	mg/l	8270C	11/07/11	1
Nitrobenzene	BDL	0.010	mg/l	8270C	11/07/11	1
n-Nitrosodimethylamine	BDL	0.010	mg/l	8270C	11/07/11	1
n-Nitrosodiphenylamine	BDL	0.010	mg/l	8270C	11/07/11	1
n-Nitrosodi-n-propylamine	BDL	0.010	mg/l	8270C	11/07/11	1
Phenanthrene	0.0012	0.0010	mg/l	8270C	11/07/11	1
Benzylbutyl phthalate	BDL	0.0010	mg/l	8270C	11/07/11	1
Bis(2-ethylhexyl)phthalate	BDL	0.0010	mg/l	8270C	11/07/11	1
Di-n-butyl phthalate	BDL	0.0010	mg/l	8270C	11/07/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L544507-01 (PH) - 6.52@20.6c

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REPORT OF ANALYSIS

Karolina Blaney
Williams
1058 County Road 215
Parachute, CO 81635

November 09, 2011

ESC Sample # : L544507-01

Date Received : November 02, 2011
Description : TR44-26-597 Pit

Site ID : TR44-26-597

Sample ID : TR44-26-597

Project # :

Collected By :
Collection Date : 11/01/11 12:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Diethyl phthalate	BDL	0.0010	mg/l	8270C	11/07/11	1
Dimethyl phthalate	BDL	0.0010	mg/l	8270C	11/07/11	1
Di-n-octyl phthalate	BDL	0.0010	mg/l	8270C	11/07/11	1
Pyrene	BDL	0.0010	mg/l	8270C	11/07/11	1
1,2,4-Trichlorobenzene	BDL	0.010	mg/l	8270C	11/07/11	1
Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.010	mg/l	8270C	11/07/11	1
2-Chlorophenol	BDL	0.010	mg/l	8270C	11/07/11	1
2,4-Dichlorophenol	BDL	0.010	mg/l	8270C	11/07/11	1
2,4-Dimethylphenol	0.066	0.010	mg/l	8270C	11/07/11	1
4,6-Dinitro-2-methylphenol	BDL	0.010	mg/l	8270C	11/07/11	1
2,4-Dinitrophenol	BDL	0.010	mg/l	8270C	11/07/11	1
2-Nitrophenol	BDL	0.010	mg/l	8270C	11/07/11	1
4-Nitrophenol	BDL	0.010	mg/l	8270C	11/07/11	1
Pentachlorophenol	BDL	0.010	mg/l	8270C	11/07/11	1
Phenol	0.042	0.010	mg/l	8270C	11/07/11	1
2,4,6-Trichlorophenol	BDL	0.010	mg/l	8270C	11/07/11	1
Surrogate Recovery						
2-Fluorophenol	9.76		% Rec.	8270C	11/07/11	1
Phenol-d5	19.7		% Rec.	8270C	11/07/11	1
Nitrobenzene-d5	101.		% Rec.	8270C	11/07/11	1
2-Fluorobiphenyl	66.6		% Rec.	8270C	11/07/11	1
2,4,6-Tribromophenol	83.5		% Rec.	8270C	11/07/11	1
p-Terphenyl-d14	69.1		% Rec.	8270C	11/07/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

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Reported: 11/08/11 16:09 Revised: 11/09/11 08:56
L544507-01 (PH) - 6.52@20.6c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L544507-01	WG563471	SAMP	pH	R1920352	T8
	WG564071	SAMP	Benzidine	R1924417	J3
	WG564071	SAMP	n-Nitrosodiphenylamine	R1924417	J4
	WG564071	SAMP	2,4-Dimethylphenol	R1924417	E
	WG564071	SAMP	4,6-Dinitro-2-methylphenol	R1924417	J3
	WG564071	SAMP	Pentachlorophenol	R1924417	J3
	WG564071	SAMP	2,4,6-Trichlorophenol	R1924417	J3
	WG563619	SAMP	sec-Butylbenzene	R1920412	J3
	WG563619	SAMP	tert-Butylbenzene	R1920412	J3
	WG563619	SAMP	Dichlorodifluoromethane	R1920412	J3
	WG563619	SAMP	1,1-Dichloroethene	R1920412	J3
	WG563619	SAMP	trans-1,2-Dichloroethene	R1920412	J3
	WG563619	SAMP	Hexachloro-1,3-butadiene	R1920412	J4J3
	WG563619	SAMP	p-Isopropyltoluene	R1920412	J3
	WG563619	SAMP	n-Propylbenzene	R1920412	J3
	WG563619	SAMP	Styrene	R1920412	J4
	WG563619	SAMP	1,1,2-Trichlorotrifluoroethane	R1920412	J3
	WG563619	SAMP	1,2,3-Trichlorobenzene	R1920412	J3
	WG563619	SAMP	1,2,4-Trichlorobenzene	R1920412	J3
	WG563619	SAMP	Trichlorofluoromethane	R1920412	J3
	WG563619	SAMP	Vinyl chloride	R1920412	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
T8	(ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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Est. 1970

Williams
Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L544507

November 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Specific Conductance	< 1.8	umhos/cm			WG563598	11/03/11 14:24
pH	4.70	su			WG563471	11/03/11 16:20
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,1,1-Trichloroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,1,2-Trichloroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,1-Dichloroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,1-Dichloroethene	< .001	mg/l			WG563619	11/02/11 17:47
1,1-Dichloropropene	< .001	mg/l			WG563619	11/02/11 17:47
1,2,3-Trichlorobenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,2,3-Trichloropropane	< .001	mg/l			WG563619	11/02/11 17:47
1,2,3-Trimethylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,2,4-Trichlorobenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,2,4-Trimethylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG563619	11/02/11 17:47
1,2-Dibromoethane	< .001	mg/l			WG563619	11/02/11 17:47
1,2-Dichlorobenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,2-Dichloroethane	< .001	mg/l			WG563619	11/02/11 17:47
1,2-Dichloropropane	< .001	mg/l			WG563619	11/02/11 17:47
1,3,5-Trimethylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,3-Dichlorobenzene	< .001	mg/l			WG563619	11/02/11 17:47
1,3-Dichloropropane	< .001	mg/l			WG563619	11/02/11 17:47
1,4-Dichlorobenzene	< .001	mg/l			WG563619	11/02/11 17:47
2,2-Dichloropropane	< .001	mg/l			WG563619	11/02/11 17:47
2-Butanone (MEK)	< .01	mg/l			WG563619	11/02/11 17:47
2-Chloroethyl vinyl ether	< .05	mg/l			WG563619	11/02/11 17:47
2-Chlorotoluene	< .001	mg/l			WG563619	11/02/11 17:47
4-Chlorotoluene	< .001	mg/l			WG563619	11/02/11 17:47
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG563619	11/02/11 17:47
Acetone	< .05	mg/l			WG563619	11/02/11 17:47
Acrolein	< .025	mg/l			WG563619	11/02/11 17:47
Acrylonitrile	< .01	mg/l			WG563619	11/02/11 17:47
Benzene	< .001	mg/l			WG563619	11/02/11 17:47
Bromobenzene	< .001	mg/l			WG563619	11/02/11 17:47
Bromodichloromethane	< .001	mg/l			WG563619	11/02/11 17:47
Bromoform	< .001	mg/l			WG563619	11/02/11 17:47
Bromomethane	< .005	mg/l			WG563619	11/02/11 17:47
Carbon tetrachloride	< .001	mg/l			WG563619	11/02/11 17:47
Chlorobenzene	< .001	mg/l			WG563619	11/02/11 17:47
Chlorodibromomethane	< .001	mg/l			WG563619	11/02/11 17:47
Chloroethane	< .005	mg/l			WG563619	11/02/11 17:47
Chloroform	< .005	mg/l			WG563619	11/02/11 17:47
Chloromethane	< .0025	mg/l			WG563619	11/02/11 17:47
cis-1,2-Dichloroethene	< .001	mg/l			WG563619	11/02/11 17:47
cis-1,3-Dichloropropene	< .001	mg/l			WG563619	11/02/11 17:47
Di-isopropyl ether	< .001	mg/l			WG563619	11/02/11 17:47
Dibromomethane	< .001	mg/l			WG563619	11/02/11 17:47
Dichlorodifluoromethane	< .005	mg/l			WG563619	11/02/11 17:47
Ethylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
Hexachloro-1,3-butadiene	< .001	mg/l			WG563619	11/02/11 17:47
Isopropylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
Methyl tert-butyl ether	< .001	mg/l			WG563619	11/02/11 17:47
Methylene Chloride	< .005	mg/l			WG563619	11/02/11 17:47
n-Butylbenzene	< .001	mg/l			WG563619	11/02/11 17:47

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Williams
Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L544507

November 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
n-Propylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
Naphthalene	< .005	mg/l			WG563619	11/02/11 17:47
p-Isopropyltoluene	< .001	mg/l			WG563619	11/02/11 17:47
sec-Butylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
Styrene	< .001	mg/l			WG563619	11/02/11 17:47
tert-Butylbenzene	< .001	mg/l			WG563619	11/02/11 17:47
Tetrachloroethene	< .001	mg/l			WG563619	11/02/11 17:47
Toluene	< .005	mg/l			WG563619	11/02/11 17:47
trans-1,2-Dichloroethene	< .001	mg/l			WG563619	11/02/11 17:47
trans-1,3-Dichloropropene	< .001	mg/l			WG563619	11/02/11 17:47
Trichloroethene	< .001	mg/l			WG563619	11/02/11 17:47
Trichlorofluoromethane	< .005	mg/l			WG563619	11/02/11 17:47
Vinyl chloride	< .001	mg/l			WG563619	11/02/11 17:47
Xylenes, Total	< .003	mg/l			WG563619	11/02/11 17:47
4-Bromofluorobenzene		% Rec.	104.8	82-120	WG563619	11/02/11 17:47
Dibromofluoromethane		% Rec.	95.68	82-126	WG563619	11/02/11 17:47
Toluene-d8		% Rec.	106.3	92-112	WG563619	11/02/11 17:47
Alkalinity	< 20	mg/l			WG563737	11/03/11 16:41
Calcium,Dissolved	< .5	mg/l			WG564232	11/06/11 19:13
Iron,Dissolved	< .1	mg/l			WG564232	11/06/11 19:13
Magnesium,Dissolved	< .1	mg/l			WG564232	11/06/11 19:13
Manganese,Dissolved	< .01	mg/l			WG564232	11/06/11 19:13
Potassium,Dissolved	< .5	mg/l			WG564232	11/06/11 19:13
Sodium,Dissolved	< .5	mg/l			WG564232	11/06/11 19:13
Bromide	< 1	mg/l			WG564017	11/05/11 06:58
Chloride	< 1	mg/l			WG564017	11/05/11 06:58
Sulfate	< 5	mg/l			WG564017	11/05/11 06:58
Dissolved Solids	< 10	mg/l			WG563862	11/07/11 11:07
1,2,4-Trichlorobenzene	< .01	mg/l			WG564071	11/07/11 10:10
2,4,6-Trichlorophenol	< .01	mg/l			WG564071	11/07/11 10:10
2,4-Dichlorophenol	< .01	mg/l			WG564071	11/07/11 10:10
2,4-Dimethylphenol	< .01	mg/l			WG564071	11/07/11 10:10
2,4-Dinitrophenol	< .01	mg/l			WG564071	11/07/11 10:10
2,4-Dinitrotoluene	< .01	mg/l			WG564071	11/07/11 10:10
2,6-Dinitrotoluene	< .01	mg/l			WG564071	11/07/11 10:10
2-Chloronaphthalene	< .001	mg/l			WG564071	11/07/11 10:10
2-Chlorophenol	< .01	mg/l			WG564071	11/07/11 10:10
2-Nitrophenol	< .01	mg/l			WG564071	11/07/11 10:10
3,3-Dichlorobenzidine	< .01	mg/l			WG564071	11/07/11 10:10
4,6-Dinitro-2-methylphenol	< .01	mg/l			WG564071	11/07/11 10:10
4-Bromophenyl-phenylether	< .01	mg/l			WG564071	11/07/11 10:10
4-Chloro-3-methylphenol	< .01	mg/l			WG564071	11/07/11 10:10
4-Chlorophenyl-phenylether	< .01	mg/l			WG564071	11/07/11 10:10
4-Nitrophenol	< .01	mg/l			WG564071	11/07/11 10:10
Acenaphthene	< .001	mg/l			WG564071	11/07/11 10:10
Acenaphthylene	< .001	mg/l			WG564071	11/07/11 10:10
Anthracene	< .001	mg/l			WG564071	11/07/11 10:10
Benzidine	< .01	mg/l			WG564071	11/07/11 10:10
Benzo(a)anthracene	< .001	mg/l			WG564071	11/07/11 10:10

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Quality Assurance Report
Level II

L544507

November 09, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzo(a)pyrene	< .001	mg/l			WG564071	11/07/11 10:10
Benzo(b)fluoranthene	< .001	mg/l			WG564071	11/07/11 10:10
Benzo(g,h,i)perylene	< .001	mg/l			WG564071	11/07/11 10:10
Benzo(k)fluoranthene	< .001	mg/l			WG564071	11/07/11 10:10
Benzylbutyl phthalate	< .001	mg/l			WG564071	11/07/11 10:10
Bis(2-chlorethoxy)methane	< .01	mg/l			WG564071	11/07/11 10:10
Bis(2-chloroethyl)ether	< .01	mg/l			WG564071	11/07/11 10:10
Bis(2-chloroisopropyl)ether	< .01	mg/l			WG564071	11/07/11 10:10
Bis(2-ethylhexyl)phthalate	< .001	mg/l			WG564071	11/07/11 10:10
Chrysene	< .001	mg/l			WG564071	11/07/11 10:10
Di-n-butyl phthalate	< .001	mg/l			WG564071	11/07/11 10:10
Di-n-octyl phthalate	< .001	mg/l			WG564071	11/07/11 10:10
Dibenz(a,h)anthracene	< .001	mg/l			WG564071	11/07/11 10:10
Diethyl phthalate	< .001	mg/l			WG564071	11/07/11 10:10
Dimethyl phthalate	< .001	mg/l			WG564071	11/07/11 10:10
Fluoranthene	< .001	mg/l			WG564071	11/07/11 10:10
Fluorene	< .001	mg/l			WG564071	11/07/11 10:10
Hexachloro-1,3-butadiene	< .01	mg/l			WG564071	11/07/11 10:10
Hexachlorobenzene	< .001	mg/l			WG564071	11/07/11 10:10
Hexachlorocyclopentadiene	< .01	mg/l			WG564071	11/07/11 10:10
Hexachloroethane	< .01	mg/l			WG564071	11/07/11 10:10
Indeno(1,2,3-cd)pyrene	< .001	mg/l			WG564071	11/07/11 10:10
Isophorone	< .01	mg/l			WG564071	11/07/11 10:10
n-Nitrosodi-n-propylamine	< .01	mg/l			WG564071	11/07/11 10:10
n-Nitrosodimethylamine	< .01	mg/l			WG564071	11/07/11 10:10
n-Nitrosodiphenylamine	< .01	mg/l			WG564071	11/07/11 10:10
Naphthalene	< .001	mg/l			WG564071	11/07/11 10:10
Nitrobenzene	< .01	mg/l			WG564071	11/07/11 10:10
Pentachlorophenol	< .001	mg/l			WG564071	11/07/11 10:10
Phenanthrene	< .001	mg/l			WG564071	11/07/11 10:10
Phenol	< .01	mg/l			WG564071	11/07/11 10:10
Pyrene	< .001	mg/l			WG564071	11/07/11 10:10
2,4,6-Tribromophenol		% Rec.	79.21	16-147	WG564071	11/07/11 10:10
2-Fluorobiphenyl		% Rec.	88.84	29-127	WG564071	11/07/11 10:10
2-Fluorophenol		% Rec.	27.56	10-75	WG564071	11/07/11 10:10
Nitrobenzene-d5		% Rec.	75.36	17-119	WG564071	11/07/11 10:10
Phenol-d5		% Rec.	25.73	10-63	WG564071	11/07/11 10:10
p-Terphenyl-d14		% Rec.	91.83	40-174	WG564071	11/07/11 10:10

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
pH	su	1.30	1.30	3.13*	1	L544414-01	WG563471
pH	su	7.60	7.60	0.394	1	L544666-01	WG563471
Alkalinity	mg/l	930.	920.	1.08	20	L544323-01	WG563737
Alkalinity	mg/l	66.0	77.0	15.4	20	L544676-01	WG563737
Calcium,Dissolved	mg/l	220.	215.	0	20	L544757-03	WG564232
Iron,Dissolved	mg/l	0	0.00300	NA	20	L544757-03	WG564232
Magnesium,Dissolved	mg/l	77.0	77.8	0.904	20	L544757-03	WG564232
Manganese,Dissolved	mg/l	0.810	0.813	0.493	20	L544757-03	WG564232
Potassium,Dissolved	mg/l	11.0	11.0	1.83	20	L544757-03	WG564232
Sodium,Dissolved	mg/l	140.	144.	2.82	20	L544757-03	WG564232
Sulfate	mg/l	0	3.10	NA	20	L542990-12	WG564017

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Quality Assurance Report
Level II

L544507

November 09, 2011

Analyte	Units	Duplicate Result	Duplicate	RPD	Limit	Ref Samp	Batch
Chloride	mg/l	8.80	8.80	0.227	20	L544648-07	WG564017
Dissolved Solids	mg/l	0	6.00	0	5	L544827-02	WG563862

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Specific Conductance	umhos/cm	427	420.	98.4	85-115	WG563598
pH	su	7.98	8.00	100.	98-101	WG563471
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0224	89.5	77-128	WG563619
1,1,1-Trichloroethane	mg/l	.025	0.0186	74.2	71-126	WG563619
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0229	91.5	78-130	WG563619
1,1,2-Trichloroethane	mg/l	.025	0.0227	90.9	81-121	WG563619
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0161	64.3	53-143	WG563619
1,1-Dichloroethane	mg/l	.025	0.0192	76.7	73-123	WG563619
1,1-Dichloroethene	mg/l	.025	0.0171	68.4	54-134	WG563619
1,1-Dichloropropene	mg/l	.025	0.0181	72.5	67-127	WG563619
1,2,3-Trichlorobenzene	mg/l	.025	0.0211	84.4	77-130	WG563619
1,2,3-Trichloropropane	mg/l	.025	0.0229	91.8	68-130	WG563619
1,2,3-Trimethylbenzene	mg/l	.025	0.0196	78.4	70-127	WG563619
1,2,4-Trichlorobenzene	mg/l	.025	0.0211	84.4	76-127	WG563619
1,2,4-Trimethylbenzene	mg/l	.025	0.0200	80.1	77-129	WG563619
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0239	95.5	55-142	WG563619
1,2-Dibromoethane	mg/l	.025	0.0234	93.4	78-124	WG563619
1,2-Dichlorobenzene	mg/l	.025	0.0212	84.9	82-121	WG563619
1,2-Dichloroethane	mg/l	.025	0.0205	81.9	69-128	WG563619
1,2-Dichloropropane	mg/l	.025	0.0206	82.6	77-121	WG563619
1,3,5-Trimethylbenzene	mg/l	.025	0.0206	82.3	78-127	WG563619
1,3-Dichlorobenzene	mg/l	.025	0.0223	89.1	77-127	WG563619
1,3-Dichloropropane	mg/l	.025	0.0225	90.1	78-117	WG563619
1,4-Dichlorobenzene	mg/l	.025	0.0215	85.8	79-117	WG563619
2,2-Dichloropropane	mg/l	.025	0.0196	78.4	63-130	WG563619
2-Butanone (MEK)	mg/l	.125	0.0963	77.0	58-144	WG563619
2-Chloroethyl vinyl ether	mg/l	.125	0.111	88.6	26-172	WG563619
2-Chlorotoluene	mg/l	.025	0.0208	83.2	78-123	WG563619
4-Chlorotoluene	mg/l	.025	0.0210	83.9	78-122	WG563619
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.116	92.7	58-147	WG563619
Acetone	mg/l	.125	0.0933	74.6	49-153	WG563619
Acrolein	mg/l	.125	0.0844	67.5	10-181	WG563619
Acrylonitrile	mg/l	.125	0.0953	76.2	53-153	WG563619
Benzene	mg/l	.025	0.0190	76.1	72-119	WG563619
Bromobenzene	mg/l	.025	0.0215	86.0	76-121	WG563619
Bromodichloromethane	mg/l	.025	0.0204	81.6	75-127	WG563619
Bromoform	mg/l	.025	0.0263	105.	61-136	WG563619
Bromomethane	mg/l	.025	0.0229	91.5	42-172	WG563619
Carbon tetrachloride	mg/l	.025	0.0185	73.8	63-129	WG563619
Chlorobenzene	mg/l	.025	0.0222	88.8	78-123	WG563619
Chlorodibromomethane	mg/l	.025	0.0232	92.9	73-128	WG563619
Chloroethane	mg/l	.025	0.0193	77.0	52-164	WG563619
Chloroform	mg/l	.025	0.0193	77.2	76-122	WG563619
Chloromethane	mg/l	.025	0.0189	75.5	50-141	WG563619
cis-1,2-Dichloroethene	mg/l	.025	0.0193	77.2	75-121	WG563619
cis-1,3-Dichloropropene	mg/l	.025	0.0212	85.0	74-124	WG563619
Di-isopropyl ether	mg/l	.025	0.0188	75.1	66-129	WG563619

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Quality Assurance Report
Level II

L544507

November 09, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Dibromomethane	mg/l	.025	0.0223	89.1	77-124	WG563619
Dichlorodifluoromethane	mg/l	.025	0.0185	73.9	33-173	WG563619
Ethylbenzene	mg/l	.025	0.0210	83.9	77-124	WG563619
Hexachloro-1,3-butadiene	mg/l	.025	0.0177	70.7*	71-134	WG563619
Isopropylbenzene	mg/l	.025	0.0228	91.1	74-126	WG563619
Methyl tert-butyl ether	mg/l	.025	0.0209	83.7	67-127	WG563619
Methylene Chloride	mg/l	.025	0.0188	75.2	67-122	WG563619
n-Butylbenzene	mg/l	.025	0.0198	79.4	74-130	WG563619
n-Propylbenzene	mg/l	.025	0.0203	81.4	77-125	WG563619
Naphthalene	mg/l	.025	0.0213	85.1	70-134	WG563619
p-Isopropyltoluene	mg/l	.025	0.0209	83.5	77-132	WG563619
sec-Butylbenzene	mg/l	.025	0.0205	82.2	77-130	WG563619
Styrene	mg/l	.025	0.0149	59.6*	69-145	WG563619
tert-Butylbenzene	mg/l	.025	0.0211	84.3	76-131	WG563619
Tetrachloroethene	mg/l	.025	0.0205	82.0	75-121	WG563619
Toluene	mg/l	.025	0.0205	81.9	75-114	WG563619
trans-1,2-Dichloroethene	mg/l	.025	0.0174	69.5	63-127	WG563619
trans-1,3-Dichloropropene	mg/l	.025	0.0201	80.3	69-124	WG563619
Trichloroethene	mg/l	.025	0.0208	83.1	69-131	WG563619
Trichlorofluoromethane	mg/l	.025	0.0170	68.1	53-161	WG563619
Vinyl chloride	mg/l	.025	0.0173	69.0	55-142	WG563619
Xylenes, Total	mg/l	.075	0.0627	83.6	77-123	WG563619
4-Bromofluorobenzene				102.3	82-120	WG563619
Dibromofluoromethane				92.94	82-126	WG563619
Toluene-d8				105.4	92-112	WG563619
Alkalinity	mg/l	100	98.0	98.0	85-115	WG563737
Calcium,Dissolved	mg/l	11.3	11.2	99.1	85-115	WG564232
Iron,Dissolved	mg/l	1.13	1.09	96.5	85-115	WG564232
Magnesium,Dissolved	mg/l	11.3	11.6	103.	85-115	WG564232
Manganese,Dissolved	mg/l	1.13	1.14	101.	85-115	WG564232
Potassium,Dissolved	mg/l	11.3	11.3	100.	85-115	WG564232
Sodium,Dissolved	mg/l	11.3	11.8	104.	85-115	WG564232
Bromide	mg/l	40	40.3	101.	90-110	WG564017
Chloride	mg/l	40	40.1	100.	90-110	WG564017
Sulfate	mg/l	40	40.2	101.	90-110	WG564017
Dissolved Solids	mg/l	8800	8520	96.8	85-115	WG563862
1,2,4-Trichlorobenzene	mg/l	.01	0.00755	75.5	34-97	WG564071
2,4,6-Trichlorophenol	mg/l	.01	0.00640	64.0	38-113	WG564071
2,4-Dichlorophenol	mg/l	.01	0.00747	74.7	46-105	WG564071
2,4-Dimethylphenol	mg/l	.01	0.00841	84.1	47-108	WG564071
2,4-Dinitrophenol	mg/l	.01	0.00452	45.2	10-121	WG564071
2,4-Dinitrotoluene	mg/l	.01	0.00819	81.9	59-117	WG564071
2,6-Dinitrotoluene	mg/l	.01	0.00903	90.3	57-110	WG564071
2-Chloronaphthalene	mg/l	.01	0.00853	85.3	47-106	WG564071
2-Chlorophenol	mg/l	.01	0.00624	62.4	37-90	WG564071
2-Nitrophenol	mg/l	.01	0.00757	75.7	40-112	WG564071
3,3-Dichlorobenzidine	mg/l	.01	0.00997	99.7	58-116	WG564071
4,6-Dinitro-2-methylphenol	mg/l	.01	0.00517	51.7	21-119	WG564071
4-Bromophenyl-phenylether	mg/l	.01	0.00906	90.6	63-120	WG564071

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Chloro-3-methylphenol	mg/l	.01	0.00740	74.0	50-105	WG564071
4-Chlorophenyl-phenylether	mg/l	.01	0.00900	90.0	58-115	WG564071
4-Nitrophenol	mg/l	.01	0.00190	19.0	10-53	WG564071
Acenaphthene	mg/l	.01	0.00888	88.8	52-107	WG564071
Acenaphthylene	mg/l	.01	0.00921	92.1	55-119	WG564071
Anthracene	mg/l	.01	0.00927	92.7	65-114	WG564071
Benzidine	mg/l	.01	0.00289	28.9	10-55	WG564071
Benzo(a)anthracene	mg/l	.01	0.00878	87.8	68-113	WG564071
Benzo(a)pyrene	mg/l	.01	0.00891	89.1	68-115	WG564071
Benzo(b)fluoranthene	mg/l	.01	0.00870	87.0	67-114	WG564071
Benzo(g,h,i)perylene	mg/l	.01	0.00881	88.1	52-132	WG564071
Benzo(k)fluoranthene	mg/l	.01	0.00882	88.2	62-116	WG564071
Benzylbutyl phthalate	mg/l	.01	0.00793	79.3	12-166	WG564071
Bis(2-chlorethoxy)methane	mg/l	.01	0.00869	86.9	56-116	WG564071
Bis(2-chloroethyl)ether	mg/l	.01	0.00833	83.3	39-109	WG564071
Bis(2-chloroisopropyl)ether	mg/l	.01	0.00812	81.2	43-108	WG564071
Bis(2-ethylhexyl)phthalate	mg/l	.01	0.00889	88.9	61-147	WG564071
Chrysene	mg/l	.01	0.00861	86.1	65-114	WG564071
Di-n-butyl phthalate	mg/l	.01	0.00933	93.3	56-133	WG564071
Di-n-octyl phthalate	mg/l	.01	0.00880	88.0	59-143	WG564071
Dibenz(a,h)anthracene	mg/l	.01	0.00960	96.0	54-130	WG564071
Diethyl phthalate	mg/l	.01	0.00815	81.5	33-136	WG564071
Dimethyl phthalate	mg/l	.01	0.00718	71.8	10-152	WG564071
Fluoranthene	mg/l	.01	0.00899	89.9	66-120	WG564071
Fluorene	mg/l	.01	0.00910	91.0	58-110	WG564071
Hexachloro-1,3-butadiene	mg/l	.01	0.00810	81.0	34-115	WG564071
Hexachlorobenzene	mg/l	.01	0.00830	83.0	55-117	WG564071
Hexachlorocyclopentadiene	mg/l	.01	0.00816	81.6	20-121	WG564071
Hexachloroethane	mg/l	.01	0.00698	69.8	24-93	WG564071
Indeno(1,2,3-cd)pyrene	mg/l	.01	0.00930	93.0	56-129	WG564071
Isophorone	mg/l	.01	0.00713	71.3	55-108	WG564071
n-Nitrosodi-n-propylamine	mg/l	.01	0.00818	81.8	50-115	WG564071
n-Nitrosodimethylamine	mg/l	.01	0.00453	45.3	12-68	WG564071
n-Nitrosodiphenylamine	mg/l	.01	0.00899	89.9	55-98	WG564071
Naphthalene	mg/l	.01	0.00849	84.9	42-103	WG564071
Nitrobenzene	mg/l	.01	0.00828	82.8	39-102	WG564071
Pentachlorophenol	mg/l	.01	0.00465	46.5	10-101	WG564071
Phenanthrene	mg/l	.01	0.00902	90.2	61-110	WG564071
Phenol	mg/l	.01	0.00232	23.2	10-53	WG564071
Pyrene	mg/l	.01	0.00899	89.9	65-116	WG564071
2,4,6-Tribromophenol				67.52	16-147	WG564071
2-Fluorobiphenyl				86.62	29-127	WG564071
2-Fluorophenol				34.12	10-75	WG564071
Nitrobenzene-d5				81.27	17-119	WG564071
Phenol-d5				26.14	10-63	WG564071
p-Terphenyl-d14				90.11	40-174	WG564071

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Specific Conductance	umhos/	420.	420.	98.0	85-115	0	20	WG563598
pH	su	8.00	8.00	100.	98-101	0	20	WG563471
1,1,1,2-Tetrachloroethane	mg/l	0.0259	0.0224	104.	77-128	14.7	20	WG563619
1,1,1-Trichloroethane	mg/l	0.0221	0.0186	88.0	71-126	17.4	20	WG563619
1,1,2,2-Tetrachloroethane	mg/l	0.0243	0.0229	97.0	78-130	6.24	20	WG563619

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1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L544507

November 09, 2011

		Laboratory Control Sample Duplicate						
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,2-Trichloroethane	mg/l	0.0246	0.0227	98.0	81-121	7.88	20	WG563619
1,1,2-Trichlorotrifluoroethane	mg/l	0.0202	0.0161	81.0	53-143	22.9*	20	WG563619
1,1-Dichloroethane	mg/l	0.0229	0.0192	92.0	73-123	17.8	20	WG563619
1,1-Dichloroethene	mg/l	0.0215	0.0171	86.0	54-134	22.7*	20	WG563619
1,1-Dichloropropene	mg/l	0.0220	0.0181	88.0	67-127	19.2	20	WG563619
1,2,3-Trichlorobenzene	mg/l	0.0260	0.0211	104.	77-130	20.8*	20	WG563619
1,2,3-Trichloropropane	mg/l	0.0249	0.0229	100.	68-130	8.37	20	WG563619
1,2,3-Trimethylbenzene	mg/l	0.0231	0.0196	92.0	70-127	16.3	20	WG563619
1,2,4-Trichlorobenzene	mg/l	0.0259	0.0211	104.	76-127	20.6*	20	WG563619
1,2,4-Trimethylbenzene	mg/l	0.0243	0.0200	97.0	77-129	19.4	20	WG563619
1,2-Dibromo-3-Chloropropane	mg/l	0.0257	0.0239	103.	55-142	7.21	20	WG563619
1,2-Dibromoethane	mg/l	0.0251	0.0234	100.	78-124	7.12	20	WG563619
1,2-Dichlorobenzene	mg/l	0.0245	0.0212	98.0	82-121	14.4	20	WG563619
1,2-Dichloroethane	mg/l	0.0230	0.0205	92.0	69-128	11.9	20	WG563619
1,2-Dichloropropane	mg/l	0.0243	0.0206	97.0	77-121	16.2	20	WG563619
1,3,5-Trimethylbenzene	mg/l	0.0249	0.0206	100.	78-127	19.2	20	WG563619
1,3-Dichlorobenzene	mg/l	0.0267	0.0223	107.	77-127	18.1	20	WG563619
1,3-Dichloropropane	mg/l	0.0245	0.0225	98.0	78-117	8.27	20	WG563619
1,4-Dichlorobenzene	mg/l	0.0248	0.0215	99.0	79-117	14.3	20	WG563619
2,2-Dichloropropane	mg/l	0.0229	0.0196	92.0	63-130	15.5	20	WG563619
2-Butanone (MEK)	mg/l	0.102	0.0963	82.0	58-144	6.13	20	WG563619
2-Chloroethyl vinyl ether	mg/l	0.120	0.111	96.0	26-172	8.42	22	WG563619
2-Chlorotoluene	mg/l	0.0249	0.0208	100.	78-123	18.1	20	WG563619
4-Chlorotoluene	mg/l	0.0248	0.0210	99.0	78-122	16.9	20	WG563619
4-Methyl-2-pentanone (MIBK)	mg/l	0.124	0.116	99.0	58-147	6.61	20	WG563619
Acetone	mg/l	0.105	0.0933	84.0	49-153	12.1	21	WG563619
Acrolein	mg/l	0.102	0.0844	81.0	10-181	18.7	30	WG563619
Acrylonitrile	mg/l	0.103	0.0953	82.0	53-153	7.68	20	WG563619
Benzene	mg/l	0.0225	0.0190	90.0	72-119	16.7	20	WG563619
Bromobenzene	mg/l	0.0247	0.0215	99.0	76-121	14.0	20	WG563619
Bromodichloromethane	mg/l	0.0239	0.0204	96.0	75-127	15.8	20	WG563619
Bromoform	mg/l	0.0284	0.0263	114.	61-136	7.82	20	WG563619
Bromomethane	mg/l	0.0266	0.0229	106.	42-172	15.0	20	WG563619
Carbon tetrachloride	mg/l	0.0224	0.0185	90.0	63-129	19.5	20	WG563619
Chlorobenzene	mg/l	0.0258	0.0222	103.	78-123	15.0	20	WG563619
Chlorodibromomethane	mg/l	0.0258	0.0232	103.	73-128	10.6	20	WG563619
Chloroethane	mg/l	0.0195	0.0193	78.0	52-164	1.37	20	WG563619
Chloroform	mg/l	0.0225	0.0193	90.0	76-122	15.5	20	WG563619
Chloromethane	mg/l	0.0224	0.0189	90.0	50-141	17.2	20	WG563619
cis-1,2-Dichloroethene	mg/l	0.0227	0.0193	91.0	75-121	16.1	20	WG563619
cis-1,3-Dichloropropene	mg/l	0.0249	0.0212	100.	74-124	15.8	20	WG563619
Di-isopropyl ether	mg/l	0.0218	0.0188	87.0	66-129	14.7	20	WG563619
Dibromomethane	mg/l	0.0251	0.0223	100.	77-124	12.1	20	WG563619
Dichlorodifluoromethane	mg/l	0.0235	0.0185	94.0	33-173	23.8*	20	WG563619
Ethylbenzene	mg/l	0.0248	0.0210	99.0	77-124	16.7	20	WG563619
Hexachloro-1,3-butadiene	mg/l	0.0223	0.0177	89.0	71-134	23.4*	20	WG563619
Isopropylbenzene	mg/l	0.0273	0.0228	109.	74-126	18.2	20	WG563619
Methyl tert-butyl ether	mg/l	0.0237	0.0209	95.0	67-127	12.7	20	WG563619
Methylene Chloride	mg/l	0.0227	0.0188	91.0	67-122	18.7	20	WG563619
n-Butylbenzene	mg/l	0.0237	0.0198	95.0	74-130	17.9	20	WG563619
n-Propylbenzene	mg/l	0.0250	0.0203	100.	77-125	20.4*	20	WG563619
Naphthalene	mg/l	0.0245	0.0213	98.0	70-134	14.2	20	WG563619
p-Isopropyltoluene	mg/l	0.0258	0.0209	103.	77-132	21.1*	20	WG563619
sec-Butylbenzene	mg/l	0.0254	0.0205	102.	77-130	21.1*	20	WG563619
Styrene	mg/l	0.0172	0.0149	69.0	69-145	14.2	20	WG563619
tert-Butylbenzene	mg/l	0.0258	0.0211	103.	76-131	20.1*	20	WG563619
Tetrachloroethene	mg/l	0.0244	0.0205	98.0	75-121	17.5	20	WG563619
Toluene	mg/l	0.0249	0.0205	100.	75-114	19.4	20	WG563619
trans-1,2-Dichloroethene	mg/l	0.0220	0.0174	88.0	63-127	23.5*	20	WG563619

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
trans-1,3-Dichloropropene	mg/l	0.0225	0.0201	90.0	69-124	11.5	20	WG563619
Trichloroethene	mg/l	0.0249	0.0208	100.	69-131	18.0	20	WG563619
Trichlorofluoromethane	mg/l	0.0214	0.0170	85.0	53-161	22.6*	20	WG563619
Vinyl chloride	mg/l	0.0215	0.0173	86.0	55-142	21.9*	20	WG563619
Xylenes, Total	mg/l	0.0744	0.0627	99.0	77-123	17.0	20	WG563619
4-Bromofluorobenzene				101.7	82-120			WG563619
Dibromofluoromethane				95.05	82-126			WG563619
Toluene-d8				107.2	92-112			WG563619
Alkalinity	mg/l	96.0	98.0	96.0	85-115	2.06	20	WG563737
Bromide	mg/l	40.2	40.3	100.	90-110	0.248	20	WG564017
Chloride	mg/l	40.0	40.1	100.	90-110	0.250	20	WG564017
Sulfate	mg/l	40.0	40.2	100.	90-110	0.499	20	WG564017
Dissolved Solids	mg/l	8450	8520	96.0	85-115	0.754	20	WG563862
1,2,4-Trichlorobenzene	mg/l	0.00813	0.00755	81.0	34-97	7.50	21	WG564071
2,4,6-Trichlorophenol	mg/l	0.00932	0.00640	93.0	38-113	37.2*	29	WG564071
2,4-Dichlorophenol	mg/l	0.00890	0.00747	89.0	46-105	17.5	20	WG564071
2,4-Dimethylphenol	mg/l	0.00951	0.00841	95.0	47-108	12.3	20	WG564071
2,4-Dinitrophenol	mg/l	0.00671	0.00452	67.0	10-121	39.0	40	WG564071
2,4-Dinitrotoluene	mg/l	0.00915	0.00819	92.0	59-117	11.1	20	WG564071
2,6-Dinitrotoluene	mg/l	0.0102	0.00903	102.	57-110	12.0	20	WG564071
2-Chloronaphthalene	mg/l	0.00930	0.00853	93.0	47-106	8.54	20	WG564071
2-Chlorophenol	mg/l	0.00753	0.00624	75.0	37-90	18.9	21	WG564071
2-Nitrophenol	mg/l	0.00923	0.00757	92.0	40-112	19.8	22	WG564071
3,3-Dichlorobenzidine	mg/l	0.0105	0.00997	104.	58-116	4.74	20	WG564071
4,6-Dinitro-2-methylphenol	mg/l	0.00793	0.00517	79.0	21-119	42.1*	40	WG564071
4-Bromophenyl-phenylether	mg/l	0.0100	0.00906	100.	63-120	10.1	20	WG564071
4-Chloro-3-methylphenol	mg/l	0.00851	0.00740	85.0	50-105	13.9	20	WG564071
4-Chlorophenyl-phenylether	mg/l	0.00967	0.00900	97.0	58-115	7.17	20	WG564071
4-Nitrophenol	mg/l	0.00270	0.00190	27.0	10-53	34.8	40	WG564071
Acenaphthene	mg/l	0.00999	0.00888	100.	52-107	11.7	20	WG564071
Acenaphthylene	mg/l	0.0104	0.00921	104.	55-119	12.5	20	WG564071
Anthracene	mg/l	0.0101	0.00927	101.	65-114	8.79	20	WG564071
Benzidine	mg/l	0.00172	0.00289	17.0	10-55	50.9*	40	WG564071
Benzo(a)anthracene	mg/l	0.00965	0.00878	96.0	68-113	9.42	20	WG564071
Benzo(a)pyrene	mg/l	0.00939	0.00891	94.0	68-115	5.27	20	WG564071
Benzo(b)fluoranthene	mg/l	0.00949	0.00870	95.0	67-114	8.69	20	WG564071
Benzo(g,h,i)perylene	mg/l	0.00957	0.00881	96.0	52-132	8.27	20	WG564071
Benzo(k)fluoranthene	mg/l	0.00965	0.00882	96.0	62-116	8.96	20	WG564071
Benzylbutyl phthalate	mg/l	0.00924	0.00793	92.0	12-166	15.2	20	WG564071
Bis(2-chlorethoxy)methane	mg/l	0.00910	0.00869	91.0	56-116	4.57	20	WG564071
Bis(2-chloroethyl)ether	mg/l	0.00829	0.00833	83.0	39-109	0.474	23	WG564071
Bis(2-chloroisopropyl)ether	mg/l	0.00889	0.00812	89.0	43-108	9.05	20	WG564071
Bis(2-ethylhexyl)phthalate	mg/l	0.0103	0.00889	103.	61-147	14.7	20	WG564071
Chrysene	mg/l	0.00963	0.00861	96.0	65-114	11.1	20	WG564071
Di-n-butyl phthalate	mg/l	0.0100	0.00933	100.	56-133	7.29	20	WG564071
Di-n-octyl phthalate	mg/l	0.00982	0.00880	98.0	59-143	10.9	20	WG564071
Dibenz(a,h)anthracene	mg/l	0.0103	0.00960	103.	54-130	7.29	20	WG564071
Diethyl phthalate	mg/l	0.00924	0.00815	92.0	33-136	12.5	20	WG564071
Dimethyl phthalate	mg/l	0.00804	0.00718	80.0	10-152	11.3	22	WG564071
Fluoranthene	mg/l	0.00999	0.00899	100.	66-120	10.6	20	WG564071
Fluorene	mg/l	0.00991	0.00910	99.0	58-110	8.54	20	WG564071

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Quality Assurance Report
Level II

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November 09, 2011

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Hexachloro-1,3-butadiene	mg/l	0.00871	0.00810	87.0	34-115	7.29	22	WG564071
Hexachlorobenzene	mg/l	0.00905	0.00830	90.0	55-117	8.54	20	WG564071
Hexachlorocyclopentadiene	mg/l	0.00906	0.00816	91.0	20-121	10.4	27	WG564071
Hexachloroethane	mg/l	0.00771	0.00698	77.0	24-93	9.92	25	WG564071
Indeno(1,2,3-cd)pyrene	mg/l	0.00999	0.00930	100.	56-129	7.20	20	WG564071
Isophorone	mg/l	0.00764	0.00713	76.0	55-108	6.95	20	WG564071
n-Nitrosodi-n-propylamine	mg/l	0.00915	0.00818	91.0	50-115	11.1	20	WG564071
n-Nitrosodimethylamine	mg/l	0.00491	0.00453	49.0	12-68	8.00	31	WG564071
n-Nitrosodiphenylamine	mg/l	0.0100	0.00899	100*	55-98	10.8	20	WG564071
Naphthalene	mg/l	0.00916	0.00849	92.0	42-103	7.54	20	WG564071
Nitrobenzene	mg/l	0.00891	0.00828	89.0	39-102	7.38	20	WG564071
Pentachlorophenol	mg/l	0.00733	0.00465	73.0	10-101	44.8*	40	WG564071
Phenanthrene	mg/l	0.0100	0.00902	100.	61-110	10.4	20	WG564071
Phenol	mg/l	0.00276	0.00232	28.0	10-53	17.6	20	WG564071
Pyrene	mg/l	0.0101	0.00899	101.	65-116	11.6	20	WG564071
2,4,6-Tribromophenol				98.68	16-147			WG564071
2-Fluorobiphenyl				94.97	29-127			WG564071
2-Fluorophenol				41.86	10-75			WG564071
Nitrobenzene-d5				88.23	17-119			WG564071
Phenol-d5				30.90	10-63			WG564071
p-Terphenyl-d14				103.8	40-174			WG564071

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0240	0	.025	96.0	71-130	L544499-01	WG563619
1,1,1-Trichloroethane	mg/l	0.0214	0	.025	85.5	58-137	L544499-01	WG563619
1,1,2,2-Tetrachloroethane	mg/l	0.0230	0	.025	92.2	64-149	L544499-01	WG563619
1,1,2-Trichloroethane	mg/l	0.0231	0	.025	92.4	73-128	L544499-01	WG563619
1,1,2-Trichlorotrifluoroethane	mg/l	0.0210	0	.025	83.9	36-159	L544499-01	WG563619
1,1-Dichloroethane	mg/l	0.0212	0	.025	84.6	58-133	L544499-01	WG563619
1,1-Dichloroethene	mg/l	0.0212	0	.025	84.9	32-152	L544499-01	WG563619
1,1-Dichloropropene	mg/l	0.0214	0	.025	85.7	50-140	L544499-01	WG563619
1,2,3-Trichlorobenzene	mg/l	0.0226	0	.025	90.4	68-135	L544499-01	WG563619
1,2,3-Trichloropropane	mg/l	0.0232	0	.025	93.0	74-137	L544499-01	WG563619
1,2,3-Trimethylbenzene	mg/l	0.0202	0	.025	80.7	67-133	L544499-01	WG563619
1,2,4-Trichlorobenzene	mg/l	0.0230	0	.025	91.9	67-133	L544499-01	WG563619
1,2,4-Trimethylbenzene	mg/l	0.0227	0	.025	90.9	62-141	L544499-01	WG563619
1,2-Dibromo-3-Chloropropane	mg/l	0.0244	0	.025	97.4	55-148	L544499-01	WG563619
1,2-Dibromoethane	mg/l	0.0233	0	.025	93.3	71-129	L544499-01	WG563619
1,2-Dichlorobenzene	mg/l	0.0218	0	.025	87.2	75-125	L544499-01	WG563619
1,2-Dichloroethane	mg/l	0.0212	0	.025	84.7	59-135	L544499-01	WG563619
1,2-Dichloropropane	mg/l	0.0219	0	.025	87.5	68-126	L544499-01	WG563619
1,3,5-Trimethylbenzene	mg/l	0.0230	0	.025	92.0	67-136	L544499-01	WG563619
1,3-Dichlorobenzene	mg/l	0.0244	0	.025	97.7	69-131	L544499-01	WG563619
1,3-Dichloropropane	mg/l	0.0224	0	.025	89.7	70-122	L544499-01	WG563619
1,4-Dichlorobenzene	mg/l	0.0222	0	.025	88.7	70-123	L544499-01	WG563619
2,2-Dichloropropane	mg/l	0.0220	0	.025	88.2	51-141	L544499-01	WG563619
2-Butanone (MEK)	mg/l	0.0943	0	.125	75.4	51-149	L544499-01	WG563619
2-Chloroethyl vinyl ether	mg/l	0.0248	0	.125	19.8	10-161	L544499-01	WG563619
2-Chlorotoluene	mg/l	0.0229	0	.025	91.6	65-133	L544499-01	WG563619
4-Chlorotoluene	mg/l	0.0228	0	.025	91.2	67-129	L544499-01	WG563619
4-Methyl-2-pentanone (MIBK)	mg/l	0.116	0	.125	92.4	53-154	L544499-01	WG563619
Acetone	mg/l	0.0880	0	.125	70.4	34-146	L544499-01	WG563619
Acrolein	mg/l	0.102	0	.125	81.7	10-189	L544499-01	WG563619
Acrylonitrile	mg/l	0.0979	0	.125	78.3	49-162	L544499-01	WG563619
Benzene	mg/l	0.0206	0	.025	82.6	51-134	L544499-01	WG563619
Bromobenzene	mg/l	0.0222	0	.025	88.9	64-130	L544499-01	WG563619
Bromodichloromethane	mg/l	0.0212	0	.025	84.9	67-132	L544499-01	WG563619

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Quality Assurance Report
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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromoform	mg/l	0.0268	0	.025	107.	59-137	L544499-01	WG563619
Bromomethane	mg/l	0.0228	0	.025	91.1	23-177	L544499-01	WG563619
Carbon tetrachloride	mg/l	0.0220	0	.025	88.1	49-140	L544499-01	WG563619
Chlorobenzene	mg/l	0.0238	0	.025	95.4	69-126	L544499-01	WG563619
Chlorodibromomethane	mg/l	0.0238	0	.025	95.1	68-130	L544499-01	WG563619
Chloroethane	mg/l	0.0211	0	.025	84.2	32-177	L544499-01	WG563619
Chloroform	mg/l	0.0208	0	.025	83.0	64-130	L544499-01	WG563619
Chloromethane	mg/l	0.0205	0	.025	82.1	27-155	L544499-01	WG563619
cis-1,2-Dichloroethene	mg/l	0.0211	0	.025	84.4	54-137	L544499-01	WG563619
cis-1,3-Dichloropropene	mg/l	0.0220	0	.025	88.0	63-127	L544499-01	WG563619
Di-isopropyl ether	mg/l	0.0195	0	.025	78.0	58-133	L544499-01	WG563619
Dibromomethane	mg/l	0.0225	0	.025	90.0	68-131	L544499-01	WG563619
Dichlorodifluoromethane	mg/l	0.0242	0	.025	96.6	16-188	L544499-01	WG563619
Ethylbenzene	mg/l	0.0235	0	.025	94.1	64-135	L544499-01	WG563619
Hexachloro-1,3-butadiene	mg/l	0.0211	0	.025	84.6	64-140	L544499-01	WG563619
Isopropylbenzene	mg/l	0.0261	0	.025	104.	62-134	L544499-01	WG563619
Methyl tert-butyl ether	mg/l	0.0217	0	.025	86.7	55-136	L544499-01	WG563619
Methylene Chloride	mg/l	0.0208	0	.025	83.2	52-130	L544499-01	WG563619
n-Butylbenzene	mg/l	0.0222	0	.025	88.9	62-142	L544499-01	WG563619
n-Propylbenzene	mg/l	0.0236	0	.025	94.3	62-137	L544499-01	WG563619
Naphthalene	mg/l	0.0219	0	.025	87.5	65-140	L544499-01	WG563619
p-Isopropyltoluene	mg/l	0.0243	0	.025	97.0	64-142	L544499-01	WG563619
sec-Butylbenzene	mg/l	0.0241	0	.025	96.6	67-139	L544499-01	WG563619
Styrene	mg/l	0.0158	0	.025	63.1	58-152	L544499-01	WG563619
tert-Butylbenzene	mg/l	0.0243	0	.025	97.2	66-139	L544499-01	WG563619
Tetrachloroethene	mg/l	0.0248	0	.025	99.1	56-139	L544499-01	WG563619
Toluene	mg/l	0.0227	0	.025	90.7	61-126	L544499-01	WG563619
trans-1,2-Dichloroethene	mg/l	0.0212	0	.025	84.6	45-137	L544499-01	WG563619
trans-1,3-Dichloropropene	mg/l	0.0210	0	.025	83.8	59-130	L544499-01	WG563619
Trichloroethene	mg/l	0.0232	0	.025	92.6	40-155	L544499-01	WG563619
Trichlorofluoromethane	mg/l	0.0218	0	.025	87.0	35-177	L544499-01	WG563619
Vinyl chloride	mg/l	0.0208	0	.025	83.1	32-159	L544499-01	WG563619
Xylenes, Total	mg/l	0.0703	0	.075	93.8	64-133	L544499-01	WG563619
4-Bromofluorobenzene					103.3	82-120		WG563619
Dibromofluoromethane					95.29	82-126		WG563619
Toluene-d8					104.4	92-112		WG563619
Alkalinity	mg/l	130.	40.0	100	90.0	80-120	L544316-07	WG563737
Calcium,Dissolved	mg/l	228.	215.	11.3	115.	75-125	L544757-03	WG564232
Iron,Dissolved	mg/l	1.08	0.00300	1.13	95.3	75-125	L544757-03	WG564232
Magnesium,Dissolved	mg/l	87.9	77.8	11.3	89.4	75-125	L544757-03	WG564232
Manganese,Dissolved	mg/l	1.92	0.813	1.13	98.0	75-125	L544757-03	WG564232
Potassium,Dissolved	mg/l	22.7	11.0	11.3	104.	75-125	L544757-03	WG564232
Sodium,Dissolved	mg/l	156.	144.	11.3	106.	75-125	L544757-03	WG564232
Sulfate	mg/l	57.7	13.0	50	89.4	80-120	L542990-11	WG564017
1,2,4-Trichlorobenzene	mg/l	0.00753	0	.01	75.3	34-101	L544884-01	WG564071
2,4,6-Trichlorophenol	mg/l	0.00889	0	.01	88.8	14-145	L544884-01	WG564071
2,4-Dichlorophenol	mg/l	0.00827	0	.01	82.7	17-132	L544884-01	WG564071
2,4-Dimethylphenol	mg/l	0.00718	0	.01	71.8	10-154	L544884-01	WG564071
2,4-Dinitrophenol	mg/l	0.00668	0	.01	66.8	10-167	L544884-01	WG564071
2,4-Dinitrotoluene	mg/l	0.00933	0	.01	93.3	48-133	L544884-01	WG564071
2,6-Dinitrotoluene	mg/l	0.00971	0	.01	97.2	52-123	L544884-01	WG564071

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Quality Assurance Report
Level II

L544507

November 09, 2011

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
2-Chloronaphthalene	mg/l	0.00874	0	.01	87.4	47-111	L544884-01	WG564071
2-Chlorophenol	mg/l	0.00671	0	.01	67.1	18-103	L544884-01	WG564071
2-Nitrophenol	mg/l	0.00833	0	.01	83.3	25-130	L544884-01	WG564071
3,3-Dichlorobenzidine	mg/l	0.0130	0	.01	130.	10-149	L544884-01	WG564071
4,6-Dinitro-2-methylphenol	mg/l	0.00743	0	.01	74.3	10-149	L544884-01	WG564071
4-Bromophenyl-phenylether	mg/l	0.00953	0	.01	95.3	51-138	L544884-01	WG564071
4-Chloro-3-methylphenol	mg/l	0.00757	0	.01	75.7	19-138	L544884-01	WG564071
4-Chlorophenyl-phenylether	mg/l	0.00957	0	.01	95.7	47-132	L544884-01	WG564071
4-Nitrophenol	mg/l	0.00276	0	.01	27.6	10-86	L544884-01	WG564071
Acenaphthene	mg/l	0.00950	0	.01	95.0	45-121	L544884-01	WG564071
Acenaphthylene	mg/l	0.00938	0	.01	93.8	52-122	L544884-01	WG564071
Anthracene	mg/l	0.00987	0	.01	98.7	51-129	L544884-01	WG564071
Benzidine	mg/l	0.00189	0	.01	18.9	10-47	L544884-01	WG564071
Benzo(a)anthracene	mg/l	0.00906	0	.01	90.6	55-127	L544884-01	WG564071
Benzo(a)pyrene	mg/l	0.00861	0	.01	86.1	47-132	L544884-01	WG564071
Benzo(b)fluoranthene	mg/l	0.00852	0	.01	85.2	42-138	L544884-01	WG564071
Benzo(g,h,i)perylene	mg/l	0.00620	0	.01	62.0	10-152	L544884-01	WG564071
Benzo(k)fluoranthene	mg/l	0.00865	0	.01	86.5	40-136	L544884-01	WG564071
Benzylbutyl phthalate	mg/l	0.00860	0	.01	86.0	14-180	L544884-01	WG564071
Bis(2-chlorethoxy)methane	mg/l	0.00838	0	.01	83.8	39-139	L544884-01	WG564071
Bis(2-chloroethyl)ether	mg/l	0.00773	0	.01	77.3	31-122	L544884-01	WG564071
Bis(2-chloroisopropyl)ether	mg/l	0.00799	0	.01	79.8	35-121	L544884-01	WG564071
Bis(2-ethylhexyl)phthalate	mg/l	0.00554	0	.01	55.4	23-173	L544884-01	WG564071
Chrysene	mg/l	0.00882	0	.01	88.2	55-124	L544884-01	WG564071
Di-n-butyl phthalate	mg/l	0.00973	0	.01	97.2	43-154	L544884-01	WG564071
Di-n-octyl phthalate	mg/l	0.00531	0	.01	53.1	23-173	L544884-01	WG564071
Dibenz(a,h)anthracene	mg/l	0.00655	0	.01	65.5	16-149	L544884-01	WG564071
Diethyl phthalate	mg/l	0.00903	0	.01	90.3	28-150	L544884-01	WG564071
Dimethyl phthalate	mg/l	0.00781	0	.01	78.1	10-159	L544884-01	WG564071
Fluoranthene	mg/l	0.00963	0	.01	96.3	58-130	L544884-01	WG564071
Fluorene	mg/l	0.00977	0	.01	97.7	51-120	L544884-01	WG564071
Hexachloro-1,3-butadiene	mg/l	0.00823	0	.01	82.3	32-120	L544884-01	WG564071
Hexachlorobenzene	mg/l	0.00880	0	.01	88.0	48-126	L544884-01	WG564071
Hexachlorocyclopentadiene	mg/l	0.00758	0	.01	75.8	10-125	L544884-01	WG564071
Hexachloroethane	mg/l	0.00701	0	.01	70.1	10-121	L544884-01	WG564071
Indeno(1,2,3-cd)pyrene	mg/l	0.00664	0	.01	66.4	17-147	L544884-01	WG564071
Isophorone	mg/l	0.00694	0	.01	69.4	47-116	L544884-01	WG564071
n-Nitrosodi-n-propylamine	mg/l	0.00835	0	.01	83.5	36-139	L544884-01	WG564071
n-Nitrosodimethylamine	mg/l	0.00465	0	.01	46.5	10-83	L544884-01	WG564071
n-Nitrosodiphenylamine	mg/l	0.00986	0	.01	98.6	43-124	L544884-01	WG564071
Naphthalene	mg/l	0.00821	0	.01	82.1	32-116	L544884-01	WG564071
Nitrobenzene	mg/l	0.00792	0	.01	79.2	36-110	L544884-01	WG564071
Pentachlorophenol	mg/l	0.00767	0	.01	76.6	10-152	L544884-01	WG564071
Phenanthrene	mg/l	0.00931	0	.01	93.1	49-130	L544884-01	WG564071
Phenol	mg/l	0.00252	0	.01	25.2	10-69	L544884-01	WG564071
Pyrene	mg/l	0.00871	0	.01	87.1	47-135	L544884-01	WG564071
2,4,6-Tribromophenol					91.90	16-147		WG564071
2-Fluorobiphenyl					90.18	29-127		WG564071
2-Fluorophenol					29.20	10-75		WG564071
Nitrobenzene-d5					81.39	17-119		WG564071
Phenol-d5					29.19	10-63		WG564071
p-Terphenyl-d14					91.44	40-174		WG564071

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0244	0.0240	97.8	71-130	1.82	20	L544499-01	WG563619
1,1,1-Trichloroethane	mg/l	0.0203	0.0214	81.2	58-137	5.09	20	L544499-01	WG563619
1,1,2,2-Tetrachloroethane	mg/l	0.0247	0.0230	98.7	64-149	6.87	20	L544499-01	WG563619

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Quality Assurance Report
Level II

L544507

November 09, 2011

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0242	0.0231	96.8	73-128	4.71	20	L544499-01	WG563619
1,1,2-Trichlorotrifluoroethane	mg/l	0.0183	0.0210	73.3	36-159	13.5	21	L544499-01	WG563619
1,1-Dichloroethane	mg/l	0.0197	0.0212	79.0	58-133	6.93	20	L544499-01	WG563619
1,1-Dichloroethene	mg/l	0.0187	0.0212	74.9	32-152	12.5	20	L544499-01	WG563619
1,1-Dichloropropene	mg/l	0.0204	0.0214	81.7	50-140	4.82	20	L544499-01	WG563619
1,2,3-Trichlorobenzene	mg/l	0.0257	0.0226	103.	68-135	12.9	20	L544499-01	WG563619
1,2,3-Trichloropropane	mg/l	0.0245	0.0232	97.9	74-137	5.16	20	L544499-01	WG563619
1,2,3-Trimethylbenzene	mg/l	0.0214	0.0202	85.8	67-133	6.07	20	L544499-01	WG563619
1,2,4-Trichlorobenzene	mg/l	0.0263	0.0230	105.	67-133	13.5	20	L544499-01	WG563619
1,2,4-Trimethylbenzene	mg/l	0.0227	0.0227	90.6	62-141	0.310	20	L544499-01	WG563619
1,2-Dibromo-3-Chloropropane	mg/l	0.0257	0.0244	103.	55-148	5.42	22	L544499-01	WG563619
1,2-Dibromoethane	mg/l	0.0245	0.0233	98.1	71-129	5.05	20	L544499-01	WG563619
1,2-Dichlorobenzene	mg/l	0.0230	0.0218	92.0	75-125	5.38	20	L544499-01	WG563619
1,2-Dichloroethane	mg/l	0.0205	0.0212	82.2	59-135	3.10	20	L544499-01	WG563619
1,2-Dichloropropane	mg/l	0.0216	0.0219	86.2	68-126	1.50	20	L544499-01	WG563619
1,3,5-Trimethylbenzene	mg/l	0.0232	0.0230	92.7	67-136	0.690	20	L544499-01	WG563619
1,3-Dichlorobenzene	mg/l	0.0248	0.0244	99.1	69-131	1.43	20	L544499-01	WG563619
1,3-Dichloropropane	mg/l	0.0238	0.0224	95.0	70-122	5.79	20	L544499-01	WG563619
1,4-Dichlorobenzene	mg/l	0.0233	0.0222	93.4	70-123	5.14	20	L544499-01	WG563619
2,2-Dichloropropane	mg/l	0.0207	0.0220	82.7	51-141	6.39	20	L544499-01	WG563619
2-Butanone (MEK)	mg/l	0.0992	0.0943	79.4	51-149	5.16	22	L544499-01	WG563619
2-Chloroethyl vinyl ether	mg/l	0.00881	0.0248	7.05*	10-161	95.1*	40	L544499-01	WG563619
2-Chlorotoluene	mg/l	0.0234	0.0229	93.5	65-133	2.01	20	L544499-01	WG563619
4-Chlorotoluene	mg/l	0.0233	0.0228	93.1	67-129	2.00	20	L544499-01	WG563619
4-Methyl-2-pentanone (MIBK)	mg/l	0.119	0.116	95.3	53-154	3.09	21	L544499-01	WG563619
Acetone	mg/l	0.0878	0.0880	70.2	34-146	0.230	22	L544499-01	WG563619
Acrolein	mg/l	0.0924	0.102	74.0	10-189	9.94	30	L544499-01	WG563619
Acrylonitrile	mg/l	0.0981	0.0979	78.5	49-162	0.230	20	L544499-01	WG563619
Benzene	mg/l	0.0203	0.0206	81.0	51-134	1.88	20	L544499-01	WG563619
Bromobenzene	mg/l	0.0232	0.0222	92.8	64-130	4.30	20	L544499-01	WG563619
Bromodichloromethane	mg/l	0.0211	0.0212	84.3	67-132	0.750	20	L544499-01	WG563619
Bromoform	mg/l	0.0280	0.0268	112.	59-137	4.32	20	L544499-01	WG563619
Bromomethane	mg/l	0.0208	0.0228	83.1	23-177	9.25	21	L544499-01	WG563619
Carbon tetrachloride	mg/l	0.0211	0.0220	84.6	49-140	4.09	20	L544499-01	WG563619
Chlorobenzene	mg/l	0.0244	0.0238	97.6	69-126	2.36	20	L544499-01	WG563619
Chlorodibromomethane	mg/l	0.0247	0.0238	98.9	68-130	3.92	20	L544499-01	WG563619
Chloroethane	mg/l	0.0174	0.0211	69.5	32-177	19.2	21	L544499-01	WG563619
Chloroform	mg/l	0.0203	0.0208	81.2	64-130	2.29	20	L544499-01	WG563619
Chloromethane	mg/l	0.0189	0.0205	75.6	27-155	8.12	20	L544499-01	WG563619
cis-1,2-Dichloroethene	mg/l	0.0206	0.0211	82.5	54-137	2.26	20	L544499-01	WG563619
cis-1,3-Dichloropropene	mg/l	0.0220	0.0220	87.9	63-127	0.160	20	L544499-01	WG563619
Di-isopropyl ether	mg/l	0.0187	0.0195	75.0	58-133	3.98	20	L544499-01	WG563619
Dibromomethane	mg/l	0.0230	0.0225	92.0	68-131	2.25	20	L544499-01	WG563619
Dichlorodifluoromethane	mg/l	0.0215	0.0242	85.8	16-188	11.9	22	L544499-01	WG563619
Ethylbenzene	mg/l	0.0238	0.0235	95.2	64-135	1.19	20	L544499-01	WG563619
Hexachloro-1,3-butadiene	mg/l	0.0234	0.0211	93.4	64-140	10.0	20	L544499-01	WG563619
Isopropylbenzene	mg/l	0.0258	0.0261	103.	62-134	1.26	20	L544499-01	WG563619
Methyl tert-butyl ether	mg/l	0.0206	0.0217	82.4	55-136	5.14	20	L544499-01	WG563619
Methylene Chloride	mg/l	0.0191	0.0208	76.6	52-130	8.24	20	L544499-01	WG563619
n-Butylbenzene	mg/l	0.0228	0.0222	91.2	62-142	2.49	20	L544499-01	WG563619
n-Propylbenzene	mg/l	0.0236	0.0236	94.3	62-137	0.0200	20	L544499-01	WG563619
Naphthalene	mg/l	0.0256	0.0219	102.	65-140	15.6	20	L544499-01	WG563619
p-Isopropyltoluene	mg/l	0.0242	0.0243	96.9	64-142	0.170	20	L544499-01	WG563619
sec-Butylbenzene	mg/l	0.0241	0.0241	96.3	67-139	0.290	20	L544499-01	WG563619
Styrene	mg/l	0.0162	0.0158	64.7	58-152	2.44	20	L544499-01	WG563619
tert-Butylbenzene	mg/l	0.0243	0.0243	97.2	66-139	0.0300	20	L544499-01	WG563619
Tetrachloroethene	mg/l	0.0240	0.0248	96.2	56-139	3.00	20	L544499-01	WG563619
Toluene	mg/l	0.0223	0.0227	89.0	61-126	1.89	20	L544499-01	WG563619
trans-1,2-Dichloroethene	mg/l	0.0193	0.0212	77.0	45-137	9.41	20	L544499-01	WG563619

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Quality Assurance Report
Level II

L544507

November 09, 2011

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
trans-1,3-Dichloropropene	mg/l	0.0205	0.0210	82.1	59-130	2.08	20	L544499-01	WG563619
Trichloroethene	mg/l	0.0228	0.0232	91.2	40-155	1.56	20	L544499-01	WG563619
Trichlorofluoromethane	mg/l	0.0187	0.0218	75.0	35-177	14.9	23	L544499-01	WG563619
Vinyl chloride	mg/l	0.0187	0.0208	75.0	32-159	10.3	21	L544499-01	WG563619
Xylenes, Total	mg/l	0.0699	0.0703	93.2	64-133	0.630	20	L544499-01	WG563619
4-Bromofluorobenzene				103.2	82-120				WG563619
Dibromofluoromethane				93.68	82-126				WG563619
Toluene-d8				103.1	92-112				WG563619
Alkalinity	mg/l	130.	130.	90.0	80-120	0	20	L544316-07	WG563737
Calcium,Dissolved	mg/l	230.	228.	133.*	75-125	0.873	20	L544757-03	WG564232
Iron,Dissolved	mg/l	1.08	1.08	95.3	75-125	0	20	L544757-03	WG564232
Magnesium,Dissolved	mg/l	87.8	87.9	88.5	75-125	0.114	20	L544757-03	WG564232
Manganese,Dissolved	mg/l	1.92	1.92	98.0	75-125	0	20	L544757-03	WG564232
Potassium,Dissolved	mg/l	23.1	22.7	107.	75-125	1.75	20	L544757-03	WG564232
Sodium,Dissolved	mg/l	160.	156.	142.*	75-125	2.53	20	L544757-03	WG564232
Sulfate	mg/l	57.3	57.7	88.6	80-120	0.696	20	L542990-11	WG564017
1,2,4-Trichlorobenzene	mg/l	0.00720	0.00753	72.0	34-101	4.50	23	L544884-01	WG564071
2,4,6-Trichlorophenol	mg/l	0.00870	0.00889	87.0	14-145	2.12	39	L544884-01	WG564071
2,4-Dichlorophenol	mg/l	0.00831	0.00827	83.1	17-132	0.422	30	L544884-01	WG564071
2,4-Dimethylphenol	mg/l	0.00654	0.00718	65.4	10-154	9.35	40	L544884-01	WG564071
2,4-Dinitrophenol	mg/l	0.00607	0.00668	60.7	10-167	9.48	36	L544884-01	WG564071
2,4-Dinitrotoluene	mg/l	0.00909	0.00933	90.9	48-133	2.54	21	L544884-01	WG564071
2,6-Dinitrotoluene	mg/l	0.00926	0.00971	92.6	52-123	4.76	20	L544884-01	WG564071
2-Chloronaphthalene	mg/l	0.00851	0.00874	85.0	47-111	2.75	20	L544884-01	WG564071
2-Chlorophenol	mg/l	0.00654	0.00671	65.4	18-103	2.70	33	L544884-01	WG564071
2-Nitrophenol	mg/l	0.00861	0.00833	86.1	25-130	3.35	31	L544884-01	WG564071
3,3-Dichlorobenzidine	mg/l	0.0124	0.0130	124.	10-149	4.58	33	L544884-01	WG564071
4,6-Dinitro-2-methylphenol	mg/l	0.00697	0.00743	69.6	10-149	6.52	40	L544884-01	WG564071
4-Bromophenyl-phenylether	mg/l	0.00921	0.00953	92.1	51-138	3.37	20	L544884-01	WG564071
4-Chloro-3-methylphenol	mg/l	0.00772	0.00757	77.2	19-138	1.87	25	L544884-01	WG564071
4-Chlorophenyl-phenylether	mg/l	0.00911	0.00957	91.0	47-132	5.01	20	L544884-01	WG564071
4-Nitrophenol	mg/l	0.00267	0.00276	26.7	10-86	3.32	40	L544884-01	WG564071
Acenaphthene	mg/l	0.00899	0.00950	89.9	45-121	5.52	20	L544884-01	WG564071
Acenaphthylene	mg/l	0.00913	0.00938	91.3	52-122	2.62	20	L544884-01	WG564071
Anthracene	mg/l	0.00980	0.00987	98.0	51-129	0.752	20	L544884-01	WG564071
Benzidine	mg/l	0.00129	0.00189	12.9	10-47	37.4	40	L544884-01	WG564071
Benzo(a)anthracene	mg/l	0.00886	0.00906	88.6	55-127	2.29	20	L544884-01	WG564071
Benzo(a)pyrene	mg/l	0.00861	0.00861	86.1	47-132	0.0792	20	L544884-01	WG564071
Benzo(b)fluoranthene	mg/l	0.00843	0.00852	84.2	42-138	1.06	20	L544884-01	WG564071
Benzo(g,h,i)perylene	mg/l	0.00639	0.00620	63.9	10-152	3.03	22	L544884-01	WG564071
Benzo(k)fluoranthene	mg/l	0.00888	0.00865	88.8	40-136	2.64	21	L544884-01	WG564071
Benzylbutyl phthalate	mg/l	0.00885	0.00860	88.5	14-180	2.92	25	L544884-01	WG564071
Bis(2-chlorethoxy)methane	mg/l	0.00842	0.00838	84.2	39-139	0.471	22	L544884-01	WG564071
Bis(2-chloroethyl)ether	mg/l	0.00702	0.00773	70.2	31-122	9.60	29	L544884-01	WG564071
Bis(2-chloroisopropyl)ether	mg/l	0.00740	0.00799	74.0	35-121	7.66	25	L544884-01	WG564071
Bis(2-ethylhexyl)phthalate	mg/l	0.00597	0.00554	59.7	23-173	7.36	24	L544884-01	WG564071
Chrysene	mg/l	0.00873	0.00882	87.3	55-124	0.969	20	L544884-01	WG564071
Di-n-butyl phthalate	mg/l	0.0121	0.00973	121.	43-154	22.1*	20	L544884-01	WG564071
Di-n-octyl phthalate	mg/l	0.00531	0.00531	53.1	23-173	0.0324	25	L544884-01	WG564071
Dibenz(a,h)anthracene	mg/l	0.00655	0.00655	65.4	16-149	0.0513	22	L544884-01	WG564071
Diethyl phthalate	mg/l	0.00849	0.00903	84.9	28-150	6.24	21	L544884-01	WG564071

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Parachute, CO 81635

Quality Assurance Report
Level II

L544507

November 09, 2011

Analyte	Units	Matrix Spike MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Dimethyl phthalate	mg/l	0.00772	0.00781	77.2	10-159	1.06	30	L544884-01	WG564071
Fluoranthene	mg/l	0.00948	0.00963	94.8	58-130	1.61	20	L544884-01	WG564071
Fluorene	mg/l	0.00944	0.00977	94.4	51-120	3.51	20	L544884-01	WG564071
Hexachloro-1,3-butadiene	mg/l	0.00800	0.00823	80.0	32-120	2.90	24	L544884-01	WG564071
Hexachlorobenzene	mg/l	0.00862	0.00880	86.2	48-126	2.08	20	L544884-01	WG564071
Hexachlorocyclopentadiene	mg/l	0.00741	0.00758	74.1	10-125	2.20	35	L544884-01	WG564071
Hexachloroethane	mg/l	0.00650	0.00701	65.0	10-121	7.52	31	L544884-01	WG564071
Indeno(1,2,3-cd)pyrene	mg/l	0.00678	0.00664	67.8	17-147	2.10	21	L544884-01	WG564071
Isophorone	mg/l	0.00684	0.00694	68.4	47-116	1.40	20	L544884-01	WG564071
n-Nitrosodi-n-propylamine	mg/l	0.00789	0.00835	78.9	36-139	5.71	24	L544884-01	WG564071
n-Nitrosodimethylamine	mg/l	0.00430	0.00465	43.0	10-83	7.72	40	L544884-01	WG564071
n-Nitrosodiphenylamine	mg/l	0.00924	0.00986	92.4	43-124	6.49	20	L544884-01	WG564071
Naphthalene	mg/l	0.00790	0.00821	79.0	32-116	3.82	20	L544884-01	WG564071
Nitrobenzene	mg/l	0.00790	0.00792	79.0	36-110	0.228	24	L544884-01	WG564071
Pentachlorophenol	mg/l	0.00752	0.00767	75.2	10-152	1.90	40	L544884-01	WG564071
Phenanthrene	mg/l	0.00934	0.00931	93.4	49-130	0.359	20	L544884-01	WG564071
Phenol	mg/l	0.00254	0.00252	25.4	10-69	0.511	34	L544884-01	WG564071
Pyrene	mg/l	0.00880	0.00871	88.0	47-135	0.968	21	L544884-01	WG564071
2,4,6-Tribromophenol				90.08	16-147				WG564071
2-Fluorobiphenyl				82.72	29-127				WG564071
2-Fluorophenol				28.91	10-75				WG564071
Nitrobenzene-d5				79.87	17-119				WG564071
Phenol-d5				27.86	10-63				WG564071
p-Terphenyl-d14				90.90	40-174				WG564071

Batch number /Run number / Sample number cross reference

WG563598: R1920233: L544507-01
WG563471: R1920352: L544507-01
WG563619: R1920412: L544507-01
WG563737: R1920837: L544507-01
WG563943: R1920840: L544507-01
WG563944: R1920843: L544507-01
WG564232: R1922652: L544507-01
WG564017: R1922672: L544507-01
WG563862: R1922775: L544507-01
WG564071: R1924417: L544507-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L544507

November 09, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.