

State of Colorado
Oil and Gas Conservation Commission

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



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.)

RECEIVED
4/16/2012

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: WPX Energy Rocky Mountain LLC	Phone: 970 683 2295	
3. Address: 1058 County Road 215	Fax: 970 285 9573	
City: Parachute State: CO Zip: 81635		
5. API Number 05-045-20746	OGCC Facility ID Number 335530	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number RWF 32-36	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): SWNE-536-65-94W 06 PM		Surface Equipmt Diagram
9. County: Garfield	10. Field Name: Rulison	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/SL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
Unit configuration	
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From:	NUMBER
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for Inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> 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
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

Technical Engineering/Environmental Notice

<input checked="" type="checkbox"/> Notice of Intent		<input type="checkbox"/> Report of Work Done
Approximate Start Date: 4/23/2012		Date Work Completed:
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input checked="" type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input checked="" type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	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: 4/16/2012 Email: Karolina.Blaney@WPXEnergy.com
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved:

Title:

Date:

CONDITIONS OF APPROVAL, IF ANY:

FOR
Chris Caulfield
EPS NW Region

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: _____ API Number: _____

2. Name of Operator: _____ OGCC Facility ID # _____

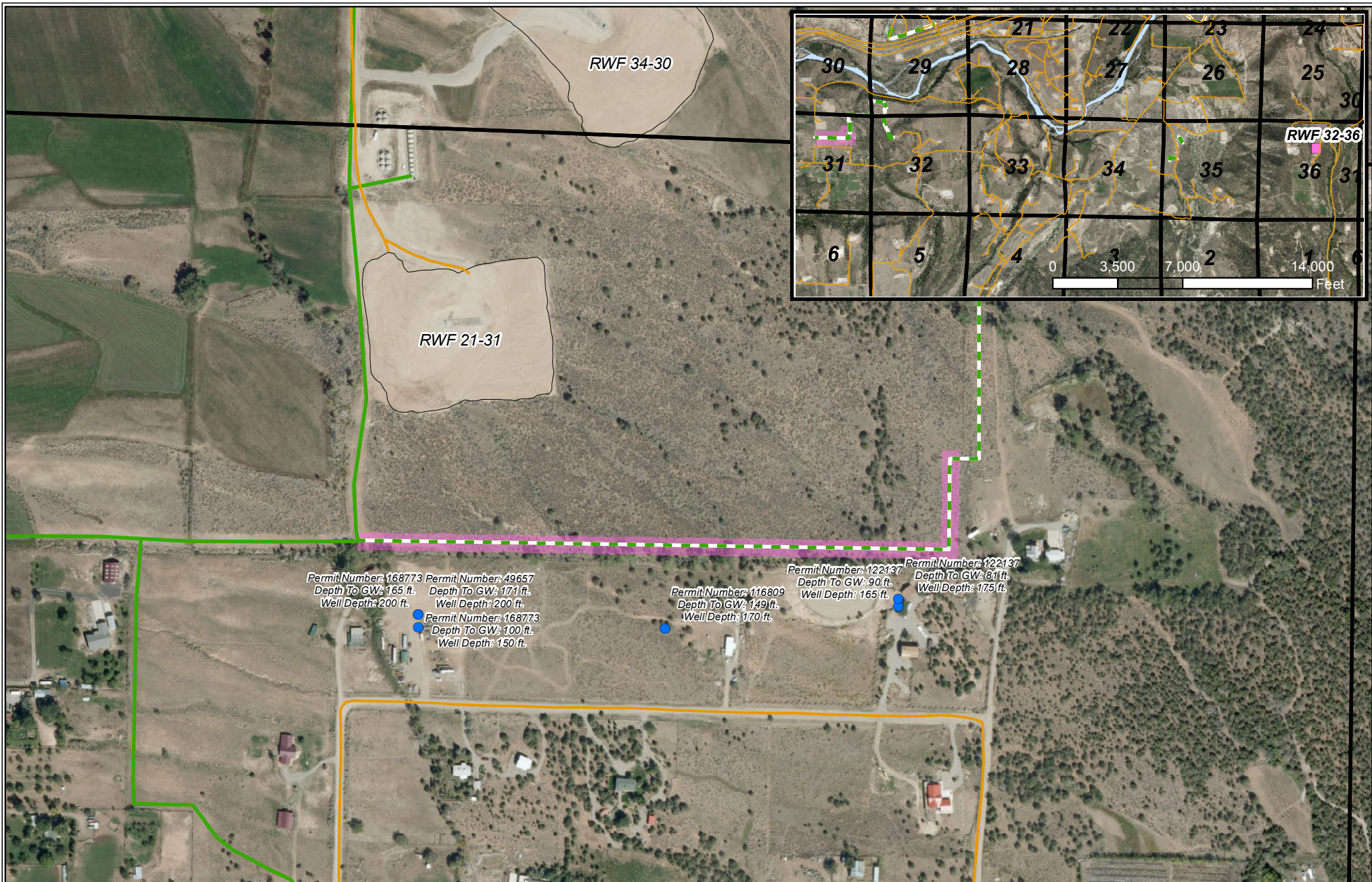
3. Well/Facility Name: _____ Well/Facility Number: _____

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____

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.

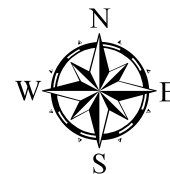
5.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS



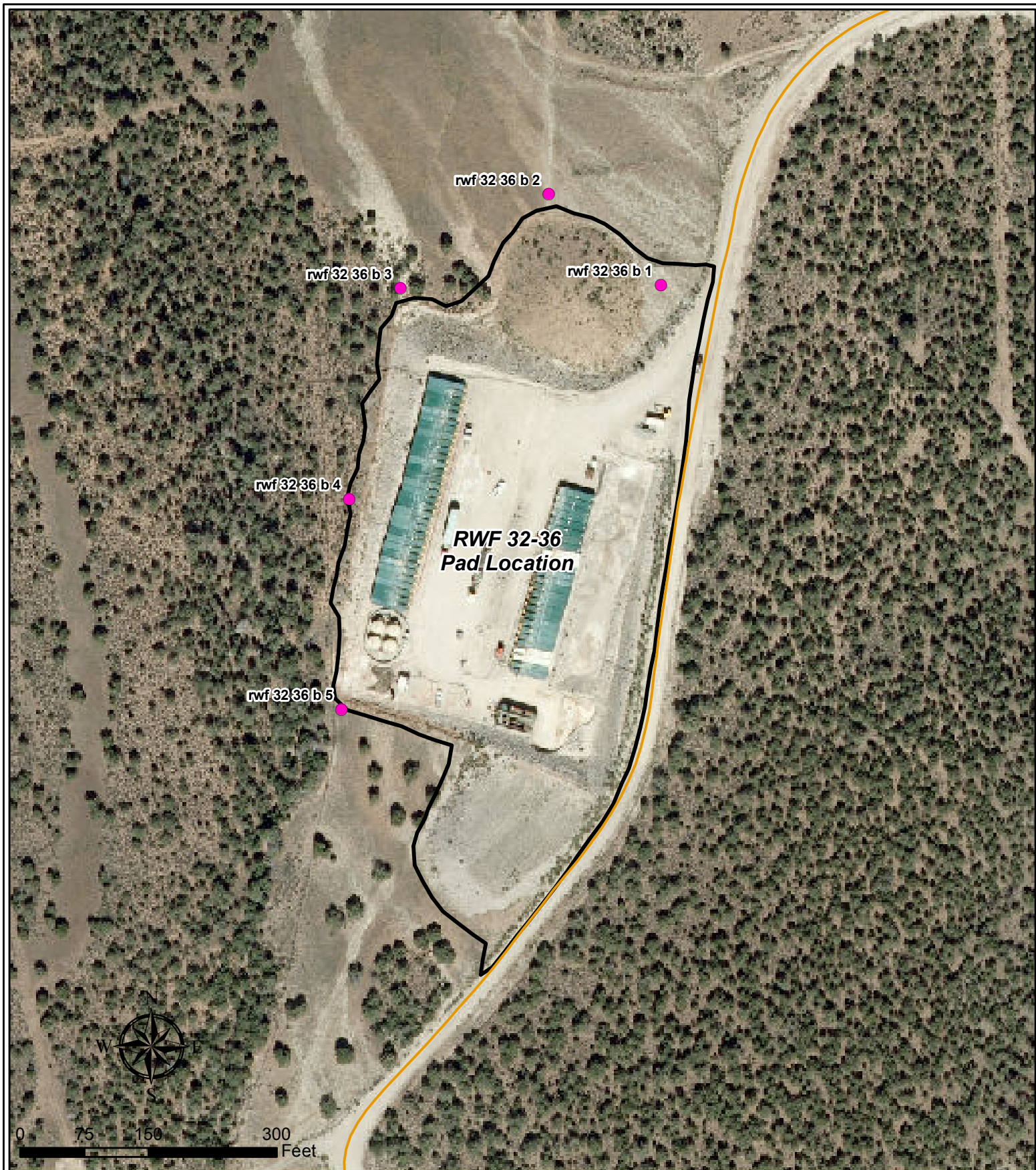
Legend

- Well selection
- Existing Gas Pipeline
- Cuttings
- Existing Road
- - - Proposed Gas Pipeline
- Disturb



0 200 400 800 Feet





Legend

- Sample Location
- Existing Road
- Existing Pad
- Limit of Disturbance

RWF 32-36
Arsenic Background Sample Location Map
T6S R94W, Section 36

April 11, 2012





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
WPX Energy
1058 County Road 215
Parachute, CO 81635

Report Summary

Thursday April 12, 2012

Report Number: L568383

Samples Received: 04/04/12

Client Project:

Description: RWF 32-36 Cuttings

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 - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, 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.

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REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings

Sample ID : RWF 32-36

Collected By :
Collection Date : 04/02/12 14:30

ESC Sample # : L568383-01

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	0.018	0.0025	mg/kg	8021/8015	04/06/12	5
Toluene	BDL	0.025	mg/kg	8021/8015	04/06/12	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	04/06/12	5
Total Xylene	0.010	0.0075	mg/kg	8021/8015	04/06/12	5
TPH (GC/FID) Low Fraction	1.0	0.50	mg/kg	GRO	04/06/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	98.5		% Rec.	8021/8015	04/06/12	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	04/06/12	5
TPH (GC/FID) High Fraction	4.8	4.0	mg/kg	3546/DRO	04/10/12	1
Surrogate recovery(%)						
o-Terphenyl	66.7		% Rec.	3546/DRO	04/10/12	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Naphthalene	0.0098	0.0060	mg/kg	8270C-SIM	04/06/12	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	04/06/12	1
Surrogate Recovery						
Nitrobenzene-d5	65.2		% Rec.	8270C-SIM	04/06/12	1
2-Fluorobiphenyl	79.3		% Rec.	8270C-SIM	04/06/12	1
p-Terphenyl-d14	86.8		% Rec.	8270C-SIM	04/06/12	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: 04/11/12 11:29 Revised: 04/12/12 15:31

REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings

Sample ID : RWF 32-36

Collected By :
Collection Date : 04/02/12 14:30

ESC Sample # : L568383-02

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	04/06/12	1
Chromium, Trivalent	5.0	0.50	mg/kg	Calc.	04/07/12	1
pH	10.		su	9045D	04/07/12	1
Sodium Adsorption Ratio	20.			Calc.	04/10/12	1
Specific Conductance	1300		umhos/cm	9050AMod	04/07/12	1
Mercury	BDL	0.020	mg/kg	7471	04/06/12	1
Arsenic	BDL	1.0	mg/kg	6010B	04/07/12	1
Barium	3600	0.25	mg/kg	6010B	04/07/12	1
Cadmium	BDL	0.25	mg/kg	6010B	04/07/12	1
Chromium	5.0	0.50	mg/kg	6010B	04/07/12	1
Copper	8.5	1.0	mg/kg	6010B	04/07/12	1
Lead	8.8	0.25	mg/kg	6010B	04/07/12	1
Nickel	1.3	1.0	mg/kg	6010B	04/07/12	1
Selenium	BDL	1.0	mg/kg	6010B	04/07/12	1
Silver	BDL	0.50	mg/kg	6010B	04/07/12	1
Zinc	42.	1.5	mg/kg	6010B	04/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L568383-02 (PH) - 10@19.5c



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REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings
Sample ID : RWF 32-36-B-1
Collected By :
Collection Date : 04/02/12 13:50

ESC Sample # : L568383-03

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	2.3	1.0	mg/kg	6010B	04/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings
Sample ID : RWF 32-36-B-2
Collected By :
Collection Date : 04/02/12 13:55

ESC Sample # : L568383-04

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	2.5	1.0	mg/kg	6010B	04/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings
Sample ID : RWF 32-36-B-3
Collected By :
Collection Date : 04/02/12 14:00

ESC Sample # : L568383-05

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	BDL	1.0	mg/kg	6010B	04/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 04/11/12 11:29 Revised: 04/12/12 15:31



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REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings
Sample ID : RWF 32-36-B-4
Collected By :
Collection Date : 04/02/12 14:07

ESC Sample # : L568383-06

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	BDL	1.0	mg/kg	6010B	04/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Karolina Blaney
WPX Energy
1058 County Road 215
Parachute, CO 81635

April 12, 2012

Date Received : April 04, 2012
Description : RWF 32-36 Cuttings
Sample ID : RWF 32-36-B-5
Collected By :
Collection Date : 04/02/12 14:12

ESC Sample # : L568383-07

Site ID : RWF 32-36

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	BDL	1.0	mg/kg	6010B	04/07/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 04/11/12 11:29 Revised: 04/12/12 15:31



WPX Energy
Karolina Blaney
1058 County Road 215
Parachute, CO 81635

Quality Assurance Report
Level II

L568383

12065 Lebanon Rd.
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(615) 758-5858
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April 12, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Mercury	< .02	mg/kg			WG586397	04/06/12 10:18
Specific Conductance	3.45	umhos/cm			WG586654	04/07/12 14:15
pH	3.10	su			WG586669	04/07/12 10:43
Arsenic	< 1	mg/kg			WG586657	04/07/12 13:46
Arsenic	< 1	mg/kg			WG586653	04/07/12 19:20
Barium	< .25	mg/kg			WG586653	04/07/12 19:20
Cadmium	< .25	mg/kg			WG586653	04/07/12 19:20
Chromium	< .5	mg/kg			WG586653	04/07/12 19:20
Copper	< 1	mg/kg			WG586653	04/07/12 19:20
Lead	< .25	mg/kg			WG586653	04/07/12 19:20
Nickel	< 1	mg/kg			WG586653	04/07/12 19:20
Selenium	< 1	mg/kg			WG586653	04/07/12 19:20
Silver	< .5	mg/kg			WG586653	04/07/12 19:20
Zinc	< 1.5	mg/kg			WG586653	04/07/12 19:20
TPH (GC/FID) High Fraction	< 4	ppm			WG586951	04/10/12 14:14
o-Terphenyl		% Rec.	73.29	50-150	WG586951	04/10/12 14:14
Benzene	< .0005	mg/kg			WG586293	04/05/12 15:11
Ethylbenzene	< .0005	mg/kg			WG586293	04/05/12 15:11
Toluene	< .005	mg/kg			WG586293	04/05/12 15:11
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG586293	04/05/12 15:11
Total Xylene	< .0015	mg/kg			WG586293	04/05/12 15:11
a,a,a-Trifluorotoluene(FID)		% Rec.	98.77	59-128	WG586293	04/05/12 15:11
a,a,a-Trifluorotoluene(PID)		% Rec.	105.0	54-144	WG586293	04/05/12 15:11
Acenaphthene	< .006	mg/kg			WG586321	04/06/12 00:27
Anthracene	< .006	mg/kg			WG586321	04/06/12 00:27
Benzo(a)anthracene	< .006	mg/kg			WG586321	04/06/12 00:27
Benzo(a)pyrene	< .006	mg/kg			WG586321	04/06/12 00:27
Benzo(b)fluoranthene	< .006	mg/kg			WG586321	04/06/12 00:27
Benzo(k)fluoranthene	< .006	mg/kg			WG586321	04/06/12 00:27
Chrysene	< .006	mg/kg			WG586321	04/06/12 00:27
Dibenz(a,h)anthracene	< .006	mg/kg			WG586321	04/06/12 00:27
Fluoranthene	< .006	mg/kg			WG586321	04/06/12 00:27
Fluorene	< .006	mg/kg			WG586321	04/06/12 00:27
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG586321	04/06/12 00:27
Naphthalene	< .006	mg/kg			WG586321	04/06/12 00:27
Pyrene	< .006	mg/kg			WG586321	04/06/12 00:27
2-Fluorobiphenyl		% Rec.	78.43	34-129	WG586321	04/06/12 00:27
Nitrobenzene-d5		% Rec.	59.69	14-141	WG586321	04/06/12 00:27
p-Terphenyl-d14		% Rec.	87.23	25-139	WG586321	04/06/12 00:27
Chromium,Hexavalent	< 2	mg/kg			WG586054	04/06/12 14:40

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



WPX Energy
Karolina Blaney
1058 County Road 215

Parachute, CO 81635

Quality Assurance Report
Level II

L568383

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April 12, 2012

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Chromium,Hexavalent	mg/kg	0	0	0	20		L568383-02	WG586054
Chromium,Hexavalent	mg/kg	0	0	0	20		L567923-02	WG586054
Mercury	mg/kg	0.0900	0.0910	0.551	20		L566954-01	WG586397
Specific Conductance	umhos/cm	1900	1900	0	20		L568808-02	WG586654
pH	su	3.50	3.60	1.96*	1		L568178-01	WG586669
pH	su	8.40	8.40	0.593	1		L568808-02	WG586669
Arsenic	mg/kg	7.90	8.80	10.8	20		L568501-02	WG586653
Barium	mg/kg	57.0	82.0	36.7*	20		L568501-02	WG586653
Cadmium	mg/kg	0.310	0	NA	20		L568501-02	WG586653
Chromium	mg/kg	7.40	7.70	3.97	20		L568501-02	WG586653
Copper	mg/kg	20.0	20.1	2.01	20		L568501-02	WG586653
Lead	mg/kg	16.0	29.0	57.8*	20		L568501-02	WG586653
Silver	mg/kg	0	0	0	20		L568501-02	WG586653
Arsenic	mg/kg	1.90	1.35	32.3*	20		L568666-03	WG586657
Nickel	mg/kg	20.0	18.7	4.70	20		L568501-02	WG586653
Selenium	mg/kg	0	0	0	20		L568501-02	WG586653
Zinc	mg/kg	78.0	74.9	3.54	20		L568501-02	WG586653

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Chromium,Hexavalent	mg/kg	150	151.	101.	50-150	WG586054
Mercury	mg/kg	3.77	3.16	83.8	71.6-128	WG586397
Specific Conductance	umhos/cm	459	445.	97.0	85-115	WG586654
pH	su	6.04	6.00	99.3	98-101	WG586669
Arsenic	mg/kg	92.6	86.9	93.8	82.9-117	WG586653
Barium	mg/kg	169	168.	99.4	82.8-117	WG586653
Cadmium	mg/kg	61.8	59.4	96.1	83.3-117	WG586653
Chromium	mg/kg	71.3	67.6	94.8	81.8-118	WG586653
Copper	mg/kg	81.2	81.2	100.	83.9-116	WG586653
Lead	mg/kg	92.4	92.5	100.	83.3-117	WG586653
Nickel	mg/kg	59.1	54.4	92.0	83.8-116	WG586653
Selenium	mg/kg	89.5	84.7	94.6	79-121	WG586653
Silver	mg/kg	34.4	33.2	96.5	66.3-134	WG586653
Zinc	mg/kg	141	138.	97.9	80.9-119	WG586653
Arsenic	mg/kg	92.6	80.7	87.1	82.9-117	WG586657

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WPX Energy
Karolina Blaney
1058 County Road 215
Parachute, CO 81635

Quality Assurance Report
Level II

L568383

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

Tax I.D. 62-0814289

Est. 1970

April 12, 2012

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction	ppm	60	42.9	71.6	50-150	WG586951
o-Terphenyl				79.61	50-150	WG586951
Benzene	mg/kg	.05	0.0483	96.7	76-113	WG586293
Ethylbenzene	mg/kg	.05	0.0523	105.	78-115	WG586293
Toluene	mg/kg	.05	0.0519	104.	76-114	WG586293
Total Xylene	mg/kg	.15	0.162	108.	81-118	WG586293
a,a,a-Trifluorotoluene(PID)				104.2	54-144	WG586293
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.96	126.	67-135	WG586293
a,a,a-Trifluorotoluene(FID)				104.7	59-128	WG586293
Acenaphthene	mg/kg	.033	0.0252	76.4	52-108	WG586321
Anthracene	mg/kg	.033	0.0235	71.1	58-120	WG586321
Benzo(a)anthracene	mg/kg	.033	0.0238	72.2	54-110	WG586321
Benzo(a)pyrene	mg/kg	.033	0.0230	69.6	56-118	WG586321
Benzo(b)fluoranthene	mg/kg	.033	0.0235	71.1	55-114	WG586321
Benzo(k)fluoranthene	mg/kg	.033	0.0236	71.6	55-122	WG586321
Chrysene	mg/kg	.033	0.0235	71.1	57-118	WG586321
Dibenz(a,h)anthracene	mg/kg	.033	0.0241	72.9	53-122	WG586321
Fluoranthene	mg/kg	.033	0.0241	73.1	58-118	WG586321
Fluorene	mg/kg	.033	0.0242	73.4	54-109	WG586321
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0248	75.0	51-125	WG586321
Naphthalene	mg/kg	.033	0.0210	63.7	45-105	WG586321
Pyrene	mg/kg	.033	0.0225	68.1	53-121	WG586321
2-Fluorobiphenyl				72.37	34-129	WG586321
Nitrobenzene-d5				51.95	14-141	WG586321
p-Terphenyl-d14				87.82	25-139	WG586321

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chromium, Hexavalent	mg/kg	129.	151.	86.0	50-150	15.7	20	WG586054
Specific Conductance	umhos/	444.	445.	97.0	85-115	0.225	20	WG586654
pH	su	6.00	6.00	99.0	98-101	0	20	WG586669
TPH (GC/FID) High Fraction	ppm	38.6	42.9	64.0	50-150	10.6	25	WG586951
o-Terphenyl				71.23	50-150			WG586951
Benzene	mg/kg	0.0482	0.0483	96.0	76-113	0.190	20	WG586293
Ethylbenzene	mg/kg	0.0507	0.0523	101.	78-115	3.05	20	WG586293
Toluene	mg/kg	0.0501	0.0519	100.	76-114	3.65	20	WG586293
Total Xylene	mg/kg	0.157	0.162	105.	81-118	3.20	20	WG586293
a,a,a-Trifluorotoluene(PID)				103.9	54-144			WG586293
TPH (GC/FID) Low Fraction	mg/kg	6.93	6.96	126.	67-135	0.400	20	WG586293
a,a,a-Trifluorotoluene(FID)				104.6	59-128			WG586293
Acenaphthene	mg/kg	0.0277	0.0252	84.0	52-108	9.24	22	WG586321
Anthracene	mg/kg	0.0259	0.0235	78.0	58-120	9.72	20	WG586321
Benzo(a)anthracene	mg/kg	0.0264	0.0238	80.0	54-110	10.3	22	WG586321
Benzo(a)pyrene	mg/kg	0.0244	0.0230	74.0	56-118	6.12	21	WG586321

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Analyte	Units	Laboratory Control		Sample Duplicate		Limit	RPD	Limit	Batch
		Result	Ref	%Rec					
Benzo(b)fluoranthene	mg/kg	0.0250	0.0235	76.0		55-114	6.28	20	WG586321
Benzo(k)fluoranthene	mg/kg	0.0248	0.0236	75.0		55-122	4.96	25	WG586321
Chrysene	mg/kg	0.0251	0.0235	76.0		57-118	6.53	20	WG586321
Dibenz(a,h)anthracene	mg/kg	0.0255	0.0241	77.0		53-122	5.68	20	WG586321
Fluoranthene	mg/kg	0.0263	0.0241	80.0		58-118	8.49	20	WG586321
Fluorene	mg/kg	0.0264	0.0242	80.0		54-109	8.82	20	WG586321
Indeno(1,2,3-cd)pyrene	mg/kg	0.0260	0.0248	79.0		51-125	4.91	21	WG586321
Naphthalene	mg/kg	0.0229	0.0210	69.0		45-105	8.64	24	WG586321
Pyrene	mg/kg	0.0238	0.0225	72.0		53-121	5.94	20	WG586321
2-Fluorobiphenyl				82.55		34-129			WG586321
Nitrobenzene-d5				62.33		14-141			WG586321
p-Terphenyl-d14				93.67		25-139			WG586321

Analyte	Units	Matrix Spike		TV	% Rec	Limit	Ref Samp	Batch
		MS Res	Ref Res					
Chromium, Hexavalent	mg/kg	16.5	0	20	82.5	50-150	L568035-02	WG586054
Mercury	mg/kg	0.350	0.0910	.25	104.	70-130	L566954-01	WG586397
Arsenic	mg/kg	55.0	8.80	50	92.4	75-125	L568501-02	WG586653
Barium	mg/kg	106.	82.0	50	48.0*	75-125	L568501-02	WG586653
Cadmium	mg/kg	43.7	0	50	87.4	75-125	L568501-02	WG586653
Chromium	mg/kg	52.0	7.70	50	88.6	75-125	L568501-02	WG586653
Copper	mg/kg	67.9	20.1	50	95.6	75-125	L568501-02	WG586653
Lead	mg/kg	65.1	29.0	50	72.2*	75-125	L568501-02	WG586653
Silver	mg/kg	47.1	0	50	94.2	75-125	L568501-02	WG586653
Arsenic	mg/kg	50.6	1.35	50	98.5	75-125	L568666-03	WG586657
Nickel	mg/kg	62.6	18.7	50	43.9*	75-125	L568501-02	WG586653
Selenium	mg/kg	39.5	0	50	39.5*	75-125	L568501-02	WG586653
Zinc	mg/kg	144.	74.9	50	69.1*	75-125	L568501-02	WG586653
TPH (GC/FID) High Fraction	ppm	35.8	0	60	59.7	50-150	L568299-01	WG586951
o-Terphenyl					67.06	50-150		WG586951
Benzene	mg/kg	0.212	0	.05	84.9	32-137	L568267-01	WG586293
Ethylbenzene	mg/kg	0.209	0	.05	83.7	10-150	L568267-01	WG586293
Toluene	mg/kg	0.220	0	.05	87.9	20-142	L568267-01	WG586293
Total Xylene	mg/kg	0.648	0	.15	86.4	16-141	L568267-01	WG586293
a,a,a-Trifluorotoluene(PID)					103.8	54-144		WG586293
TPH (GC/FID) Low Fraction	mg/kg	26.9	0	5.5	97.8	55-109	L568267-01	WG586293
a,a,a-Trifluorotoluene(FID)					102.7	59-128		WG586293
Acenaphthene	mg/kg	0.0273	0	.033	82.8	43-133	L568343-03	WG586321
Anthracene	mg/kg	0.0290	0	.033	87.9	38-153	L568343-03	WG586321
Benzo(a)anthracene	mg/kg	0.0282	0	.033	85.4	31-142	L568343-03	WG586321
Benzo(a)pyrene	mg/kg	0.0282	0	.033	85.4	26-152	L568343-03	WG586321
Benzo(b)fluoranthene	mg/kg	0.0280	0	.033	84.7	10-188	L568343-03	WG586321
Benzo(k)fluoranthene	mg/kg	0.0275	0	.033	83.3	22-163	L568343-03	WG586321
Chrysene	mg/kg	0.0280	0	.033	84.7	26-146	L568343-03	WG586321

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Dibenz(a,h)anthracene	mg/kg	0.0276	0	.033	83.7	10-160	L568343-03	WG586321
Fluoranthene	mg/kg	0.0298	0	.033	90.4	23-160	L568343-03	WG586321
Fluorene	mg/kg	0.0305	0	.033	92.3	44-143	L568343-03	WG586321
Indeno(1,2,3-cd)pyrene	mg/kg	0.0283	0	.033	85.8	10-157	L568343-03	WG586321
Naphthalene	mg/kg	0.0226	0	.033	68.6	22-156	L568343-03	WG586321
Pyrene	mg/kg	0.0312	0	.033	94.5	12-170	L568343-03	WG586321
2-Fluorobiphenyl					76.11	34-129		WG586321
Nitrobenzene-d5					59.29	14-141		WG586321
p-Terphenyl-d14					96.16	25-139		WG586321

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Chromium, Hexavalent	mg/kg	17.9	16.5	89.5	50-150	8.14	20	L568035-02	WG586054
Mercury	mg/kg	0.342	0.350	100.	70-130	2.31	20	L566954-01	WG586397
Arsenic	mg/kg	54.8	55.0	92.0	75-125	0.364	20	L568501-02	WG586653
Barium	mg/kg	103.	106.	42.0*	75-125	2.87	20	L568501-02	WG586653
Cadmium	mg/kg	41.8	43.7	83.6	75-125	4.44	20	L568501-02	WG586653
Chromium	mg/kg	50.2	52.0	85.0	75-125	3.52	20	L568501-02	WG586653
Copper	mg/kg	68.2	67.9	96.2	75-125	0.441	20	L568501-02	WG586653
Lead	mg/kg	57.2	65.1	56.4*	75-125	12.9	20	L568501-02	WG586653
Silver	mg/kg	45.8	47.1	91.6	75-125	2.80	20	L568501-02	WG586653
Arsenic	mg/kg	50.1	50.6	97.5	75-125	0.993	20	L568666-03	WG586657
Nickel	mg/kg	67.0	62.6	48.3*	75-125	6.79	20	L568501-02	WG586653
Selenium	mg/kg	47.0	39.5	47.0*	75-125	17.3	20	L568501-02	WG586653
Zinc	mg/kg	161.	144.	86.1	75-125	11.1	20	L568501-02	WG586653
TPH (GC/FID) High Fraction	ppm	35.3	35.8	58.8	50-150	1.53	25	L568299-01	WG586951
o-Terphenyl				68.62	50-150				WG586951
Benzene	mg/kg	0.226	0.212	90.2	32-137	6.07	39	L568267-01	WG586293
Ethylbenzene	mg/kg	0.224	0.209	89.8	10-150	7.01	44	L568267-01	WG586293
Toluene	mg/kg	0.230	0.220	92.1	20-142	4.63	42	L568267-01	WG586293
Total Xylene	mg/kg	0.690	0.648	92.0	16-141	6.33	46	L568267-01	WG586293
a,a,a-Trifluorotoluene(PID)				103.2	54-144				WG586293
TPH (GC/FID) Low Fraction	mg/kg	24.8	26.9	90.1	55-109	8.26	20	L568267-01	WG586293
a,a,a-Trifluorotoluene(FID)				102.3	59-128				WG586293
Acenaphthene	mg/kg	0.0300	0.0273	90.8	43-133	9.16	26	L568343-03	WG586321
Anthracene	mg/kg	0.0300	0.0290	91.0	38-153	3.46	27	L568343-03	WG586321
Benzo(a)anthracene	mg/kg	0.0311	0.0282	94.4	31-142	9.96	31	L568343-03	WG586321
Benzo(a)pyrene	mg/kg	0.0306	0.0282	92.8	26-152	8.30	32	L568343-03	WG586321
Benzo(b)fluoranthene	mg/kg	0.0312	0.0280	94.5	10-188	10.9	33	L568343-03	WG586321
Benzo(k)fluoranthene	mg/kg	0.0295	0.0275	89.4	22-163	6.99	29	L568343-03	WG586321
Chrysene	mg/kg	0.0292	0.0280	88.6	26-146	4.51	30	L568343-03	WG586321
Dibenz(a,h)anthracene	mg/kg	0.0270	0.0276	81.8	10-160	2.31	39	L568343-03	WG586321
Fluoranthene	mg/kg	0.0308	0.0298	93.4	23-160	3.30	22	L568343-03	WG586321
Fluorene	mg/kg	0.0314	0.0305	95.0	44-143	2.88	23	L568343-03	WG586321

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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Indeno(1,2,3-cd)pyrene	mg/kg	0.0263	0.0283	79.8	10-157	7.20	40	L568343-03		WG586321
Naphthalene	mg/kg	0.0259	0.0226	78.4	22-156	13.4	27	L568343-03		WG586321
Pyrene	mg/kg	0.0301	0.0312	91.4	12-170	3.42	24	L568343-03		WG586321
2-Fluorobiphenyl				84.22	34-129					WG586321
Nitrobenzene-d5				70.13	14-141					WG586321
p-Terphenyl-d14				95.40	25-139					WG586321

Batch number /Run number / Sample number cross reference

WG586293: R2107453: L568383-01
WG586321: R2107853: L568383-01
WG586054: R2108653: L568383-02
WG586397: R2108753: L568383-02
WG586654: R2110233: L568383-02
WG586669: R2110473: L568383-02
WG586653: R2110573: L568383-02
WG586657: R2110574: L568383-03 04 05 06 07
WG586814: R2113253: L568383-02
WG586951: R2113973: L568383-01

* * Calculations are performed prior to rounding of reported values.

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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.