DOCUMENT #2222768

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 | OE | ES

Received 2/7/2012
Rifle COGCC
Associated with
doc #2597035

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: 10335
2. Name of Operator: Axia Energy
3. Address: 1430 Larimer St - #400
City: Denver State: CO Zip: 80202
4. Contact Name: Jess Peonlo
Phone: (720) 746-5212
Fax: (720) 746-5201

Complete the Attachment Checklist

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

5. API Number 05- NA
OGCC Facility ID Number 421047
6. Well/Facility Name: Water Handling Facility
7. Well/Facility Number NA
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Section 23, T9S/R95W
9. County: Mesa
10. Field Name: Kimball Creek
11. Federal, Indian or State Lease Number: NA

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:

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: Wtr Transfer - Analysis
☐ 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: Jess Peonlo Date: 2-7-12 Email: Jpeonlo@axiaenergy.com
Print Name: Jess Peonlo Title: Regulatory Manager

COGCC Approved: Title: Date: 2/13/2012

CONDITIONS OF APPROVAL, IF ANY:

COA. Analyze produced/flowback water for GROSS ALPHA AND BETA RADIOACTIVITY EPA METHOD 900.1 analysis and submit to COGCC, referencing this Sundry #, within 45 days of the sundry approval date.

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

Received 2/7/2012
Rifle COGCC
Associated with
doc #2597035

1. OGCC Operator Number: 10335 API Number: NA
2. Name of Operator: Axia Energy OGCC Facility ID # 421047
3. Well/Facility Name: Water Handling Facility Well/Facility Number: NA
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSE Section 23, T9S/R95W

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**

Per the Conditions of Approval of previously approved Form 4 sundry, and Produced/Flowback Water Reuse and Waste Minimization Plan, please find the attached water analysis.

Table 2
Axia Water Handling Facility
Water Sample Summary

SAMPLE SUMMARY	
Location Description	Wtr Handling Facility
Sample Type	Water Grab
Sample Date	1/30/2012

LABORATORY DATA SUMMARY		
Sample ID	AXIA WP	
Analytical Parameters		**UNITS**
TPH		
TPH-GRO	21.0	mg/kg
TPH-DRO	46.4	mg/kg
Total TPH	67.4	mg/kg
BTEX		
Benzene	846	µg/L
Toluene	2760	µg/L
Ethylbenzene	218	µg/L
Total Xylene	3500	µg/L
VOC		
Acetone	5170	µg/L
Bromodichloromethane	<50	µg/L
Bromoform	<50	µg/L
Chlorobenzene	<50	µg/L
Chloroethane	<50	µg/L
Chloroform	<50	µg/L
2-Chloroethyl vinyl ether	<250	µg/L
Carbon disulfide	<50	µg/L
Carbon tetrachloride	<50	µg/L
1,1-Dichloroethane	<50	µg/L
1,1-Dichloroethylene	<50	µg/L
1,2-Dichloroethane	<50	µg/L
1,2-Dichloropropane	<50	µg/L
Dibromochloromethane	<50	µg/L
cis-1,2-Dichloroethylene	<25	µg/L
cis-1,3-Dichloropropene	<50	µg/L
m-Dichlorobenzene	<50	µg/L
o-Dichlorobenzene	<50	µg/L
p-Dichlorobenzene	<50	µg/L
trans-1,2-Dichloroethylene	<50	µg/L
trans-1,3-Dichloropropene	<50	µg/L
2-Hexanone	<50	µg/L
4-Methyl-2-pentanone	<250	µg/L
Methyl bromide	<130	µg/L
Methyl chloride	<50	µg/L
Methylene chloride	<130	µg/L
Methyl ethyl ketone	<250	µg/L
Styrene	<50	µg/L
1,1,1-Trichloroethane	<50	µg/L
1,1,2,2-Tetrachloroethane	<50	µg/L
1,1,2-Trichloroethane	<50	µg/L
Tetrachloroethylene	<50	µg/L
Trichloroethylene	<50	µg/L
Vinyl chloride	<50	µg/L
Vinyl acetate	<130	µg/L
SVOC		
Benzoic acid	<95	µg/L
2-Chlorophenol	<24	µg/L
4-Chloro-3-methyl phenol	<24	µg/L
2,4-Dichlorophenol	<24	µg/L

2,4-Dimethylphenol	67.9	µg/L
2,4-Dinitrophenol	<24	µg/L
4,6-Dinitro-o-cresol	<48	µg/L
2-Methylphenol	232	µg/L
4-Methylphenol	97.8	µg/L
2-Nitrophenol	<24	µg/L
4-Nitrophenol	<36	µg/L
Pentachlorophenol	<24	µg/L
Phenol	233	µg/L
2,4,5-Trichlorophenol	<24	µg/L
2,4,6-Trichlorophenol	<24	µg/L
Acenaphthene	<24	µg/L
Acenaphthylene	<24	µg/L
Anthracene	<24	µg/L
Benzo(a)anthracene	<24	µg/L
Benzo(a)pyrene	<24	µg/L
Benzo(b)fluoranthene	<24	µg/L
Benzo(g,h,i)perylene	<24	µg/L
Benzo(k)fluoranthene	<24	µg/L
4-Bromophenyl phenyl ether	<24	µg/L
Butyl benzyl phthalate	<24	µg/L
Benzyl alcohol	27.7	µg/L
2-Chloronaphthalene	<24	µg/L
4-Chloroaniline	<24	µg/L
Chrysene	<24	µg/L
bis(2-Chloroethoxy)methane	<24	µg/L
bis(2-Chloroethyl)ether	<24	µg/L
bis(2-Chloroisopropyl)ether	<24	µg/L
4-Chlorophenyl phenyl ether	<24	µg/L
1,2-Dichlorobenzene	<24	µg/L
1,3-Dichlorobenzene	<24	µg/L
1,4-Dichlorobenzene	<24	µg/L
2,4-Dinitrotoluene	<24	µg/L
2,6-Dinitrotoluene	<24	µg/L
3,3'-Dichlorobenzidine	<24	µg/L
Dibenzo(a,h)anthracene	<24	µg/L
Dibenzofuran	4.1	µg/L
Di-n-butyl phthalate	<24	µg/L
Di-n-octyl phthalate	<24	µg/L
Diethyl phthalate	<24	µg/L
Dimethyl phthalate	<24	µg/L
bis(2-Ethyhexyl)phthalate	<24	µg/L
Fluoranthene	<24	µg/L
Fluorene	13.9	µg/L
Hexachlorobenzene	<24	µg/L
Hexachlorobutadiene	<24	µg/L
Hexachlorocyclopentadiene	<48	µg/L
Hexachloroethane	<24	µg/L
Indeno(1,2,3-cd)pyrene	<24	µg/L
Isophorone	<24	µg/L
2-Methylnaphthalene	269	µg/L
2-Nitroaniline	<24	µg/L
3-Nitroaniline	<24	µg/L
4-Nitroaniline	<24	µg/L
Naphthalene	99.2	µg/L
Nitrobenzene	<24	µg/L
N-Nitroso-di-n-propylamine	<24	µg/L
N-Nitrosodiphenylamine	<24	µg/L
Phenanthrene	<24	µg/L

Table 2
Axia Water Handling Facility
Water Sample Summary

Pyrene	<24	µg/L
1,2,4-Trichlorobenzene	<24	µg/L
Dissolved Metals		
Arsenic	<0.025	mg/L
Calcium	157	mg/L
Iron	2.74	mg/L
Magnesium	29.3	mg/L
Manganese	0.474	mg/L
Potassium	57.6	mg/L
Selenium	<0.050	mg/L
Sodium	7030	mg/L
General Chemistry		
Alkalinity, Bicarbonate	1040	mg/L
Alkalinity, Carbonate	<5.0	mg/L
Total Alkalinity	1040	mg/L
Bromide	33.5	mg/L
Chloride	12200	mg/L
Nitrogen, Nitrate	<2.3	mg/L
Nitrogen, Nitrite	<15	mg/L
Phosphate, Ortho	<3.3	mg/L
Solids, Total Dissolved	21300	mg/L
Specific Conductivity	34900	µmhos/cm
Sulfate	56.6	mg/L
pH	7.54	su

mg/l - milligrams per liter
µg/l - micrograms per liter
umhos/cm - micromhos per centimeter
su - standard units

Mountain States ACCUTEST LABORATORIES

02/07/12

Technical Report for

Olsson Associates

AXIA Water Handling Facility

012-0250

Accutest Job Number: D31495

Sampling Date: 01/30/12

Report to:

Olsson Associates

shall@oaconsulting.com

ATTN: Stuart Hall

Total number of pages in report: **20**

ACCREDITED IN ACCORDANCE WITH nelac

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

Brad Madadian
Laboratory Director

Client Service contact: 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

Test results relate only to samples analyzed.

Sections: 1 2 3 4

Table of Contents

Sample Summary

Olsson Associates

Job No: D31495

AXIA Water Handling Facility
Project No: 012-0250

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D31495-1	01/30/12	18:45	SH	02/01/12	AQ	Water	AXIA WP
D31495-1F	01/30/12	18:45	SH	02/01/12	AQ	Water Filtered	AXIA WP

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Olsson Associates	**Job No**	D31495
Site:	AXIA Buzzard Creek Spill Response	**Report Date**	2/6/2012 3:27:48 PM

On 02/01/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.1 °C. The sample was intact and properly preserved, unless noted below. An AMS Job Number of D31495 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V6V606

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31305-1MS, D31305-1MSD were used as the QC samples indicated.
- The blank spike (BS) recovery(s) of 2-Hexanone, Methyl ethyl ketone are outside control limits.
- V6V606-BS for 2-Hexanone and Methyl ethyl ketone: Analyte is over range, but it is ND in associated samples.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP5279

- The sample was extracted and analyzed within the recommended method holding time.
- Sample(s) D31341-15MS, D31341-15MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The blank spike (BS) recovery(s) of Pyrene are outside control limits.
- OP5279-BS for Pyrene: Outside control limits. Compounds are ND for associated samples.

Volatiles by GC By Method SW846 8015B

Matrix AQ **Batch ID:** GGA846

- The sample was analyzed within the recommended method holding time.
- Sample(s) D31495-1MS, D31495-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846-8015B

Matrix AQ **Batch ID:** OP5278

- The sample was extracted and analyzed within the recommended method holding time.
- Sample(s) D31341-14MS, D31341-14MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix	AQ	Batch ID:	MP6759

- The sample was digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31447-1MS, D31447-1MSD were used as the QC samples for the metals analysis.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix	AQ	Batch ID:	GP6423

- The sample was prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31484-1MS, D31484-1MSD were used as the QC samples for the Bromide, Chloride, Nitrogen, Nitrate, Nitrogen, Nitrite, Phosphate, Ortho, Sulfate, Bromide analysis.
- D31495-1 for Nitrogen, Nitrite/Nitrate and Phosphate, Ortho: Elevated detection limit due to matrix interference.

Wet Chemistry By Method SM20 2320B

Matrix	AQ	Batch ID:	GN13515

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31358-1DUP, D31358-1MS, D31358-1MSD were used as the QC samples for the Alkalinity, Total as CaCO3 analysis.

Matrix	AQ	Batch ID:	GN13520

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix	AQ	Batch ID:	GN13521

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM20 2510B

Matrix	AQ	Batch ID:	GP6428

- The sample was prepared and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31495-1DUP were used as the QC samples for the Specific Conductivity analysis.

Wet Chemistry By Method SM20 2540C

Matrix	AQ	Batch ID:	GN13519

- The sample was analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D31485-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.

Wet Chemistry By Method SM20 4500H

Matrix	AQ	Batch ID:	GN13506

- The following sample was ran outside of holding time for method SM20 4500H: D31495-1

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AXIA Water Handling Facility		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6V11491.D	25	02/02/12	BR	n/a	n/a	V6V606
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA HSL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5170	250	130	ug/l	
71-43-2	Benzene	846	25	13	ug/l	
75-27-4	Bromodichloromethane	ND	50	13	ug/l	
75-25-2	Bromoform	ND	50	13	ug/l	
108-90-7	Chlorobenzene	ND	50	13	ug/l	
75-00-3	Chloroethane	ND	50	13	ug/l	
67-66-3	Chloroform	ND	50	13	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	250	130	ug/l	
75-15-0	Carbon disulfide	ND	50	35	ug/l	
56-23-5	Carbon tetrachloride	ND	50	13	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	19	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	13	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	13	ug/l	
124-48-1	Dibromochloromethane	ND	50	13	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	25	8.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	13	ug/l	
541-73-1	m-Dichlorobenzene	ND	50	13	ug/l	
95-50-1	o-Dichlorobenzene	ND	50	14	ug/l	
106-46-7	p-Dichlorobenzene	ND	50	13	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	23	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	13	ug/l	
100-41-4	Ethylbenzene	218	50	13	ug/l	
591-78-6	2-Hexanone	ND	50	13	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	250	63	ug/l	
74-83-9	Methyl bromide	ND	130	73	ug/l	
74-87-3	Methyl chloride	ND	50	15	ug/l	
75-09-2	Methylene chloride	ND	130	63	ug/l	
78-93-3	Methyl ethyl ketone	ND	250	63	ug/l	
100-42-5	Styrene	ND	50	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	13	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	13	ug/l	

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

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AXIA Water Handling Facility		

VOA HSL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-00-5	1,1,2-Trichloroethane	ND	50	13	ug/l	
127-18-4	Tetrachloroethylene	ND	50	13	ug/l	
108-88-3	Toluene	2760	50	25	ug/l	
79-01-6	Trichloroethylene	ND	50	13	ug/l	
75-01-4	Vinyl chloride	ND	50	19	ug/l	
108-05-4	Vinyl Acetate	ND	130	63	ug/l	
1330-20-7	Xylene (total)	3500	100	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	87%		67-131%
2037-26-5	Toluene-D8	96%		65-130%
460-00-4	4-Bromofluorobenzene	126%		65-130%

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

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	AXIA Water Handling Facility		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G106414.D	5	02/02/12	DC	02/01/12	OP5279	E1G602
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN HSL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	95	36	ug/l	
95-57-8	2-Chlorophenol	ND	24	2.8	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	24	2.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	24	2.5	ug/l	
105-67-9	2,4-Dimethylphenol	67.9	24	4.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	19	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	48	24	ug/l	
95-48-7	2-Methylphenol	232	24	2.6	ug/l	
106-44-5	4-Methylphenol	97.8	24	2.4	ug/l	
88-75-5	2-Nitrophenol	ND	24	2.7	ug/l	
100-02-7	4-Nitrophenol	ND	36	14	ug/l	
87-86-5	Pentachlorophenol	ND	24	3.3	ug/l	
108-95-2	Phenol	233	24	2.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	24	3.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	24	2.8	ug/l	
83-32-9	Acenaphthene	ND	24	3.0	ug/l	
208-96-8	Acenaphthylene	ND	24	3.0	ug/l	
120-12-7	Anthracene	ND	24	2.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	24	2.4	ug/l	
50-32-8	Benzo(a)pyrene	ND	24	2.4	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	24	2.4	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	24	2.7	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	24	2.4	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	24	2.4	ug/l	
85-68-7	Butyl benzyl phthalate	ND	24	2.4	ug/l	
100-51-6	Benzyl Alcohol	27.7	24	3.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	24	3.1	ug/l	
106-47-8	4-Chloroaniline	ND	24	2.4	ug/l	
218-01-9	Chrysene	ND	24	2.4	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	24	3.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	24	3.4	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	24	3.2	ug/l	

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

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	AXIA Water Handling Facility		

ABN HSL List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	ND	24	2.7	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	24	3.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	24	4.3	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	24	3.6	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	24	2.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	24	2.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	24	2.9	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	24	3.9	ug/l	
132-64-9	Dibenzofuran	4.1	24	2.8	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	24	2.5	ug/l	
117-84-0	Di-n-octyl phthalate	ND	24	2.5	ug/l	
84-66-2	Diethyl phthalate	ND	24	2.4	ug/l	
131-11-3	Dimethyl phthalate	ND	24	2.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	24	8.1	ug/l	
206-44-0	Fluoranthene	ND	24	3.6	ug/l	
86-73-7	Fluorene	13.9	24	2.8	ug/l	J
118-74-1	Hexachlorobenzene	ND	24	2.4	ug/l	
87-68-3	Hexachlorobutadiene	ND	24	3.8	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	48	24	ug/l	
67-72-1	Hexachloroethane	ND	24	4.8	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	24	7.8	ug/l	
78-59-1	Isophorone	ND	24	2.9	ug/l	
91-57-6	2-Methylnaphthalene	269	24	3.4	ug/l	
88-74-4	2-Nitroaniline	ND	24	2.4	ug/l	
99-09-2	3-Nitroaniline	ND	24	2.8	ug/l	
100-01-6	4-Nitroaniline	ND	24	2.7	ug/l	
91-20-3	Naphthalene	99.2	24	3.7	ug/l	
98-95-3	Nitrobenzene	ND	24	3.3	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	24	3.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	24	2.4	ug/l	
85-01-8	Phenanthrene	ND	24	2.4	ug/l	
129-00-0	Pyrene	ND	24	2.4	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	24	4.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	52%		10-130%
4165-62-2	Phenol-d5	39%		10-136%
118-79-6	2,4,6-Tribromophenol	80%		10-153%
4165-60-0	Nitrobenzene-d5	91%		10-130%

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

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	AXIA Water Handling Facility		

ABN HSL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
321-60-8	2-Fluorobiphenyl	80%		10-130%
1718-51-0	Terphenyl-d14	99%		13-130%

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

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

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
Method:	SW846 8015B	**Percent Solids:**	n/a
Project:	AXIA Water Handling Facility		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA15056.D	10	02/02/12	SK	n/a	n/a	GGA846
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	21.0	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	107%		60-140%

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

Report of Analysis

Client Sample ID: AXIA WP
Lab Sample ID: D31495-1
Matrix: AQ - Water
Method: SW846-8015B SW846 3510C
Project: AXIA Water Handling Facility

Date Sampled: 01/30/12
Date Received: 02/01/12
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH000983.D	1	02/03/12	TR	02/01/12	OP5278	GFH38
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	46.4	0.38	0.30	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		25-146%

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

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1	**Date Sampled:**	01/30/12
Matrix:	AQ - Water	**Date Received:**	02/01/12
		Percent Solids:	n/a
Project:	AXIA Water Handling Facility		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Bicarbonate as CaC	1040	5.0	mg/l	1	02/02/12	JK	SM20 2320B
Alkalinity, Carbonate	< 5.0	5.0	mg/l	1	02/02/12	JK	SM20 2320B
Alkalinity, Total as CaCO3	1040	5.0	mg/l	1	02/02/12	JK	SM20 2320B
Bromide	33.5	10	mg/l	50	02/01/12 13:45	GH	EPA 300/SW846 9056
Chloride	12200	250	mg/l	500	02/01/12 19:09	GH	EPA 300/SW846 9056
Fluoride	16.2	10	mg/l	50	02/01/12 13:45	GH	EPA 300/SW846 9056
Nitrogen, Nitrate [a]	< 2.3	2.3	mg/l	50	02/01/12 13:45	GH	EPA 300/SW846 9056
Nitrogen, Nitrite [a]	< 15	15	mg/l	250	02/01/12 18:58	GH	EPA 300/SW846 9056
Phosphate, Ortho [a]	< 3.3	3.3	mg/l	50	02/01/12 13:45	GH	EPA 300/SW846 9056
Solids, Total Dissolved	21300	10	mg/l	1	02/02/12	CJ	SM20 2540C
Specific Conductivity	34900	1.0	umhos/cm	1	02/02/12	JK	SM20 2510B
Sulfate	56.6	25	mg/l	50	02/01/12 13:45	GH	EPA 300/SW846 9056
pH	7.54		su	1	02/01/12 12:15	JK	SM20 4500H

(a) Elevated detection limit due to matrix interference.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AXIA WP		
Lab Sample ID:	D31495-1F	**Date Sampled:**	01/30/12
Matrix:	AQ - Water Filtered	**Date Received:**	02/01/12
		Percent Solids:	n/a
Project:	AXIA Water Handling Facility		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 25	25	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Calcium	157000	400	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Iron	2740	70	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Magnesium	29300	200	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Manganese	474	5.0	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Potassium	57600	1000	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Selenium	< 50	50	ug/l	1	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]
Sodium	7030000	4000	ug/l	10	02/01/12	02/02/12	JB	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA2158
(2) Prep QC Batch: MP6759

RL = Reporting Limit

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

1 of 1

ACCUTEST Laboratories
10165 Harwin Drive , Houston, TX 77036 ; Phone 713-271-4700 ; Fax 713-271-4770

FED-EX Tracking # | Bottle Order Control #
Accutest Quote | Accutest Job # D31495

Client / Reporting Information

Company Name: Olsson Associates
Project Contact: Stuart Hall | E-Mail: shall@oaconsulting.com
Address: 826 21 1/2 Road
City: Grand Junction | State: CO | Zip: 81505
Phone No.: 970-263-7800 | Fax No.:
Samplers's Name: Stuart Hall

Project Information

Project Name / No.: AXIA Buzzard Creek Spill Response
Bill to: Olsson Associates | Invoice Attn.: Stuart Hall
Address: 826 21 1/2 Road
City: Grand Junction | State: CO | Zip: 81505
Phone No.: 970-263-7800 | Fax No.:
Client Purchase Order #: 012-0250

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Wastewater; SO - Soil; SL - Sludge; OI - Oil; LIQ - Liquid; SOL - Other Solid

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	HNO3	H2SO4	ENCORE	NaHSO4	MEOH	NONE	VOC-8260	SVOC-8270C	TVPH, TEPH-8015M - Five Fractions	Anions*	Dissolved Metals**	Alkalinity-Carb/BiCarb	SPCon, pH, TDS	LAB USE ONLY
	AXIA WP	1/30/2012	1845	W	18								18	x	x	x	x	x	x	x	01

Turnaround Time (Business days)

- [ ] 10 Day *STANDARD*
- [ ] 7 Day (per contract)
- [ ] 4 Day *RUSH*
- [x] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

Approved By:/ Date: Renee Jackson 1/31/12

Real time analytical data available via Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [x] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks

AMS FEDEX Account Number - 467721860

*Anions-Cl,F,Br,NO2,NO3,o-phosphate,SO4
**Dissolved Metals (Please lab filter)-As,Ca,Fe,Mg,Mn,K,Na,Se,As

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		1/31/12 1600	1 2/1 9:00	2		2
3			3	4		4
5			5	Custody Seal # Fed Ex	☐	On Ice ☒ Cooler Temp. 3.1

D31495: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D31495 **Client:** OLSSON **Immediate Client Services Action Required:** No

Date / Time Received: 2/1/2012 9:00:00 AM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: AXIA **Airbill #'s:** FEDEX

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

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

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

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

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

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

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

D31495: Chain of Custody
Page 2 of 3

Job Change Order: D31495_2/7/2012

Requested	2/7/2012	**Received Date:**	2/1/2012
Account Name:	Olsson Associates	**Due Date:**	2/3/2012
Project	AXIA Buzzard Creek Spill Response	**Deliverable:**	COMMBN
CSR:	RR	**TAT (Days):**	0

Sample #:
D31495-ALL

Change: Please change the project name from AXIA Buzzard Creek Spill Response to AXIA Water Handling Facility per an email from Stuart Hall 2/7/12 and reissue report. Thank you.

Above Changes Per: Stuart Hall-Client **Date:** 2/7/2012

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

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4.1