

NM1 - _10 - B_

**MONITORING
REPORT**

YEAR(S):

2015-2016



P.O. Box 2043
Farmington, NM 87499

**Industrial Ecosystems Inc.
Soil Reclamation Center**

Phone: (505) 632-1782
Fax: (505) 632-1876

#49 CR 3150
Aztec, NM 87410

RECEIVED OGD
DEC 28 P 3:20

December 23, 2015

Mr. Jim Griswold
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: JFJ Landfarm/Operated by Industrial Ecosystems, Inc. - Permit: NM01-0010B – Background Testing

Dear Mr. Griswold:

Following the request of the NMOCD, the attached report is being submitted to establish background soil concentrations for the JFJ Landfarm in accordance with NMAC 19.15.36.15.B-Background Testing. Pursuant to NMAC 19.15.36.15.B a total of twelve (12) composite background soil samples, each consisting of 16 discreet aliquots, were collected from a depth of at least six (6) inches below the original ground surface. The composite samples were collected from various "undisturbed" areas (areas which have never been impacted by previous operations nor have any treated soils been placed) outside and inside of the facility property.

The composite samples were delivered to the Green/Cardinal Laboratories drop off location with the applicable chain of custody form. Each composite sample was tested for analysis via the following methods:

- TPH 418.1
- BTEX-8021B/8260B
- Chlorides 300.0
- Subsections A & B of 20.6.2.3103 NMAC

The analytical report is attached as Appendix A. The coordinates of each sample spot were taken using a GPS unit and are listed in Appendix B. The GPS locations were uploaded into Google Earth and the corresponding maps are attached as Appendix C. Background Samples 9, 10, 11 & 12 were all taken from "undisturbed" areas outside of the facility fence line. Background Samples 1, 2, 3, 4, 5, 6, 7 & 8 were all taken from "undisturbed" areas within the facility fence line.

If there are any questions regarding this report, please feel free to contact me at the above listed telephone number.

Respectfully,

Regulatory/Compliance/HR Manager

Attachments:

- Appendix A: Cardinal Laboratories Analytical Report (84 pages)
- Appendix B: GPS Coordinates (3 pages)
- Appendix C: Google Maps (6 pages)

APPENDIX A



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

November 10, 2015

MARCELLA MARQUEZ
INDUSTRIAL ECOSYSTEMS
49 CR 3150
AZTEC, NM 87410

RE: WQCC A&B

Enclosed are the results of analyses for samples received by the laboratory on 10/14/15 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

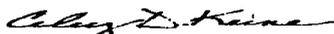
INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG 1	H502670-01	Soil	12-Oct-15 09:17	14-Oct-15 08:45
BG 2	H502670-02	Soil	12-Oct-15 09:11	14-Oct-15 08:45
BG 3	H502670-03	Soil	12-Oct-15 08:57	14-Oct-15 08:45
BG 4	H502670-04	Soil	12-Oct-15 08:19	14-Oct-15 08:45
BG 5	H502670-05	Soil	12-Oct-15 08:05	14-Oct-15 08:45
BG 6	H502670-06	Soil	12-Oct-15 10:20	14-Oct-15 08:45
BG 7	H502670-07	Soil	12-Oct-15 09:35	14-Oct-15 08:45
BG 8	H502670-08	Soil	12-Oct-15 08:43	14-Oct-15 08:45
BG 9	H502670-09	Soil	12-Oct-15 09:35	14-Oct-15 08:45
BG 10	H502670-10	Soil	12-Oct-15 08:16	14-Oct-15 08:45
BG 11	H502670-11	Soil	12-Oct-15 08:30	14-Oct-15 08:45
BG 12	H502670-12	Soil	12-Oct-15 08:50	14-Oct-15 08:45

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 1
H502670-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	8.22		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	ND		100	mg/kg	10		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	ND		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.49			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.94			pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.4			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			91.0 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			105 %			52.1-176	5101401	MS	15-Oct-15	8015B	

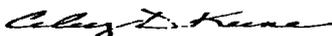
PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			129 %			35-140	5111002	CK	20-Oct-15	8082	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 1
H502670-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	118 %	35-140	5111002	CK	20-Oct-15	8082
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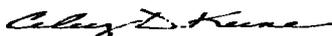
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
<i>Surrogate: Dibromofluoromethane</i>	105 %	80.8-114	5101611	MS	19-Oct-15	8260		
<i>Surrogate: Toluene-d8</i>	98.5 %	83.7-121	5101611	MS	19-Oct-15	8260		
<i>Surrogate: 4-Bromofluorobenzene</i>	94.1 %	57.9-154	5101611	MS	19-Oct-15	8260		

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Celey D. Keene, Lab Director/Quality Manager

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BG 1
H502670-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
<i>Surrogate: Nitrobenzene-d5</i>			77.4 %		20.4-109		5101308	MS	21-Oct-15	8270C	
<i>Surrogate: 2-Fluorobiphenyl</i>			73.2 %		23.4-133		5101308	MS	21-Oct-15	8270C	
<i>Surrogate: Terphenyl-d14</i>			77.0 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

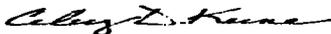
Cyanide, Total	ND		1.00	mg/kg dry	100		B51020	KLJ	23-Oct-15	EPA9012 B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 1
H502670-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	94.7			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	1.44		1.06	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	1.28		0.800	mg/kg dry	20		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.36		0.845	mg/kg dry	20		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.211	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	8340		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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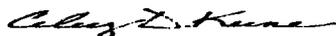
Total Metals by ICPMS

Arsenic	2.69		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	130		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.35		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	3.85		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.69		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	346		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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*=Accredited Analyte

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BG 1
H502670-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.360		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Zinc	17.9		10.0	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

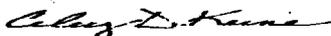
Total Mercury by CVAA

Mercury	0.118		0.106	mg/kg dry	500		B51017 1	JGS	22-Oct-15	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 2
H502670-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	5101501	AP	20-Oct-15	4500-Cl-B			
pH*	8.42	0.100	pH Units	1	5111008	AP	10-Nov-15	9045			
Phenols	ND	0.5	mg/kg dry wt.	1	5111005	CK	30-Oct-15	EPA9065			SUB-AL
Sulfate	ND	40.0	mg/kg	4	5102105	AP	22-Oct-15	375.4			

Organic Compounds

TPH 418.1	ND	20.0	mg/kg	2	5110208	CK	04-Nov-15	418.1			
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Radionuclides
SUB-RS

Radium-226	0.49		pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE		
Radium-228	0.73		pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE		
Total Radium	1.2		pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE		

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1	5101401	MS	15-Oct-15	8015B			
DRO >C10-C28	ND	10.0	mg/kg	1	5101401	MS	15-Oct-15	8015B			
Surrogate: 1-Chlorooctane		94.1 %			47.2-157	5101401	MS	15-Oct-15	8015B		
Surrogate: 1-Chlorooctadecane		104 %			52.1-176	5101401	MS	15-Oct-15	8015B		

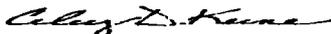
PCBs BY GC/ECD
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
PCB 1221	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
PCB 1232	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
PCB 1242	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
PCB 1248	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
PCB 1254	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
PCB 1260	ND	10.0	ug/kg	1	5111002	CK	20-Oct-15	8082			
Surrogate: Tetrachloro-meta-xylene		137 %			35-140	5111002	CK	20-Oct-15	8082		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 2
H502670-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	119 %	35-140	5111002	CK	20-Oct-15	8082
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Volatile Organic Compounds by EPA Method 8260B

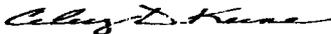
Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260

<i>Surrogate: Dibromofluoromethane</i>	109 %	80.8-114	5101611	MS	19-Oct-15	8260
<i>Surrogate: Toluene-d8</i>	95.5 %	83.7-121	5101611	MS	19-Oct-15	8260
<i>Surrogate: 4-Bromofluorobenzene</i>	101 %	57.9-154	5101611	MS	19-Oct-15	8260

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 2
H502670-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			80.5 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			76.1 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			80.8 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100		B51020	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 2
H502670-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	94.6			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	1.90		1.06	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F-C	
Nitrate as N	1.12		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.18		0.423	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.211	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	5840		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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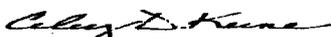
Total Metals by ICPMS

Arsenic	2.18		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	315		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.42		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	3.46		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.24		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	308		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 2
H502670-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.425		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	22.3		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

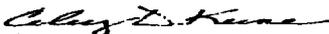
Total Mercury by CVAA

Mercury	ND		0.104	mg/kg dry	490		B51017	JGS	22-Oct-15	EPA7471	
							1				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 3
H502670-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	7.51		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	4080		1000	mg/kg	100		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	ND		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.51			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.90			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.4			pCi/gram	1	0.06	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			84.1 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			99.2 %			52.1-176	5101401	MS	15-Oct-15	8015B	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			156 %			35-140	5111002	CK	20-Oct-15	8082	S-12

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 3
H502670-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD **SUB-SS**

Surrogate: Decachlorobiphenyl	143 %	35-140	5111002	CK	20-Oct-15	8082	S-12
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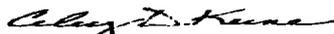
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Surrogate: Dibromofluoromethane	109 %	80.8-114	5101611	MS	19-Oct-15	8260		
Surrogate: Toluene-d8	95.1 %	83.7-121	5101611	MS	19-Oct-15	8260		
Surrogate: 4-Bromofluorobenzene	96.3 %	57.9-154	5101611	MS	19-Oct-15	8260		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 3
H502670-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			76.1 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			73.1 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			79.4 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

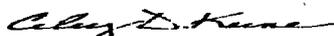
Cyanide, Total	ND		1.00	mg/kg dry	100		B51020	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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**BG 3
H502670-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories

General Chemistry

% Dry Solids	94.0			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	2.78	1.06	mg/kg dry		4		B51027 7	ABP	30-Oct-15	4500-F-C	
Nitrate as N	0.984	0.400	mg/kg dry		10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.05	0.425	mg/kg dry		10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND	0.213	mg/kg dry		10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	8020	5.00	mg/kg dry		100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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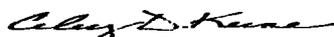
Total Metals by ICPMS

Arsenic	2.39	0.500	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	229	0.500	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND	0.500	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.71	1.00	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	4.50	0.500	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	6.70	0.500	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	294	2.00	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND	1.00	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND	0.100	mg/kg dry		1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 3
H502670-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.685		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	27.5		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

Total Mercury by CVAA

Mercury	ND		0.104	mg/kg dry	490		B51017	JGS	22-Oct-15	EPA7471	
							1				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 4
H502670-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	7.46		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	5730		1000	mg/kg	100		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	ND		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.69			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.79			pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.5			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			91.7 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			105 %			52.1-176	5101401	MS	15-Oct-15	8015B	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			160 %			35-140	5111002	CK	20-Oct-15	8082	S-12

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 4
H502670-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	144 %	35-140	5111002	CK	20-Oct-15	8082	S-12
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Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260

<i>Surrogate: Dibromofluoromethane</i>	105 %	80.8-114	5101611	MS	19-Oct-15	8260
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<i>Surrogate: Toluene-d8</i>	88.0 %	83.7-121	5101611	MS	19-Oct-15	8260
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<i>Surrogate: 4-Bromofluorobenzene</i>	99.6 %	57.9-154	5101611	MS	19-Oct-15	8260
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 4
H502670-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			72.2 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			70.0 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			75.8 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

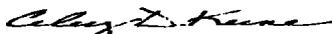
Cyanide, Total	ND		1.00	mg/kg dry	100		B51020	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 4
H502670-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	93.1			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	2.85		1.07	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	3.01		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	3.23		0.430	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.215	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	8000		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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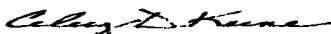
Total Metals by ICPMS

Arsenic	3.33		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	185		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	3.97		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	6.31		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	7.71		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	332		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 4
H502670-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.734		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	26.0		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

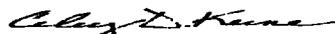
Total Mercury by CVAA

Mercury	ND		0.105	mg/kg dry	490		B51017	JGS	22-Oct-15	EPA7471	
							1				

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 5
H502670-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	48.0	16.0	mg/kg	4			5101501	AP	20-Oct-15	4500-Cl-B	
pH*	7.52	0.100	pH Units	1			5111008	AP	10-Nov-15	9045	
Phenols	ND	0.5	mg/kg dry wt.	1			5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	5330	1000	mg/kg	100			5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	ND	20.0	mg/kg	2			5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.70		pCi/gram	1	0.03		5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.77		pCi/gram	1	0.04		5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.5		pCi/gram	1	0.05		5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1			5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND	10.0	mg/kg	1			5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane		98.9 %			47.2-157		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane		113 %			52.1-176		5101401	MS	15-Oct-15	8015B	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
PCB 1221	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
PCB 1232	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
PCB 1242	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
PCB 1248	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
PCB 1254	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
PCB 1260	ND	10.0	ug/kg	1			5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene		137 %			35-140		5111002	CK	20-Oct-15	8082	

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Cleary D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 5
H502670-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

PCBs BY GC/ECD

SUB-SS

Surrogate: Decachlorobiphenyl	125 %		35-140	5111002	CK	20-Oct-15	8082				
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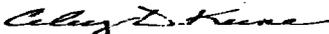
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260		
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260		
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260		
Surrogate: Dibromofluoromethane	114 %		80.8-114	5101611	MS	19-Oct-15	8260			
Surrogate: Toluene-d8	92.3 %		83.7-121	5101611	MS	19-Oct-15	8260			
Surrogate: 4-Bromofluorobenzene	98.1 %		57.9-154	5101611	MS	19-Oct-15	8260			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 5
H502670-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			74.2 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			70.6 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			76.2 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100		B51020	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 5
H502670-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	91.6			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	3.27		1.09	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	3.44		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	3.75		0.437	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.218	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	10900		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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Total Metals by ICPMS

Arsenic	3.26		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	337		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	5.51		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	8.28		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	8.28		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	273		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 5
H502670-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.821		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Zinc	31.1		10.0	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

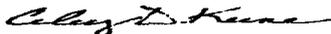
Total Mercury by CVAA

Mercury	ND		0.107	mg/kg dry	490		B51017 1	JGS	22-Oct-15	EPA7471	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 6
H502670-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	8.21		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	66.7		40.0	mg/kg	4		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	25.4		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.50			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.85			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.4			pCi/gram	1	0.06	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	10.1		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			100 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			113 %			52.1-176	5101401	MS	15-Oct-15	8015B	

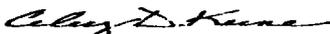
PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			147 %			35-140	5111002	CK	20-Oct-15	8082	S-12

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 6
H502670-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	136 %	35-140	5111002	CK	20-Oct-15	8082
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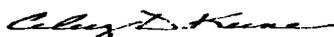
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
<i>Surrogate: Dibromofluoromethane</i>	103 %	80.8-114	5101611	MS	19-Oct-15	8260		
<i>Surrogate: Toluene-d8</i>	93.9 %	83.7-121	5101611	MS	19-Oct-15	8260		
<i>Surrogate: 4-Bromofluorobenzene</i>	98.9 %	57.9-154	5101611	MS	19-Oct-15	8260		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 6
H502670-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			73.6 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			67.6 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			71.0 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100		B51020	KLJ	23-Oct-15	EPA9012 B	
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7

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 6
H502670-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	94.0			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	1.94		1.06	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F-C	
Nitrate as N	1.79		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.90		0.425	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.213	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	6950		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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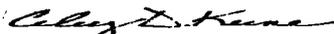
Total Metals by ICPMS

Arsenic	1.90		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	284		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.47		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	4.15		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.96		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	421		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 6
H502670-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.383		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	22.6		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

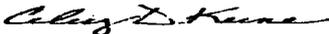
Total Mercury by CVAA

Mercury	0.135		0.105	mg/kg dry	495		B51017	JGS	22-Oct-15	EPA7471	
							1				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 7
H502670-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	8.47		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	ND		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.66			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	1.3			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	2.0			pCi/gram	1	0.06	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			101 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			116 %			52.1-176	5101401	MS	15-Oct-15	8015B	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			151 %			35-140	5111002	CK	20-Oct-15	8082	S-12

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 7
H502670-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-----	-------	---------	----------	--------	-------

Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

Surrogate: Decachlorobiphenyl	136 %	35-140	5111002	CK	20-Oct-15	8082
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Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Surrogate: Dibromofluoromethane	102 %	80.8-114	5101611	MS	19-Oct-15	8260		
Surrogate: Toluene-d8	96.0 %	83.7-121	5101611	MS	19-Oct-15	8260		
Surrogate: 4-Bromofluorobenzene	93.7 %	57.9-154	5101611	MS	19-Oct-15	8260		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 7
H502670-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			76.0 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			70.1 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			75.0 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

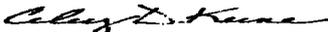
Cyanide, Total	ND		1.00	mg/kg dry	100		B51021	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 7
H502670-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	93.7			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	1.63		1.07	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F-C	
Nitrate as N	0.998		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.06		0.427	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.213	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	7640		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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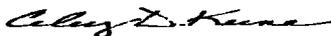
Total Metals by ICPMS

Arsenic	1.86		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	131		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.66		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	4.31		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.22		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	244		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 7
H502670-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.399		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	18.8		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

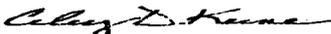
Total Mercury by CVAA

Mercury	ND		0.106	mg/kg dry	495		B51017	JGS	22-Oct-15	EPA7471	
							1				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 8
H502670-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	7.59		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	5930		1000	mg/kg	100		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	62.8		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
Radionuclides SUB-RS											
Radium-226	0.83			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.70			pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.5			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			100 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			113 %			52.1-176	5101401	MS	15-Oct-15	8015B	

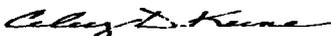
PCBs BY GC/ECD

PCBs BY GC/ECD SUB-SS											
PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			145 %			35-140	5111002	CK	20-Oct-15	8082	S-12

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 8
H502670-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

Surrogate: Decachlorobiphenyl	137 %	35-140	5111002	CK	20-Oct-15	8082
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Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Surrogate: Dibromofluoromethane	105 %	80.8-114	5101611	MS	19-Oct-15	8260		
Surrogate: Toluene-d8	97.5 %	83.7-121	5101611	MS	19-Oct-15	8260		
Surrogate: 4-Bromofluorobenzene	98.7 %	57.9-154	5101611	MS	19-Oct-15	8260		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 8
H502670-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			71.6 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			67.2 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			69.9 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100		B51021	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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**BG 8
H502670-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories

General Chemistry

% Dry Solids	92.5			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	3.83		1.08	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	1.47		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.59		0.432	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.216	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	11700		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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Total Metals by ICPMS

Arsenic	8.95		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	335		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	3.64		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	8.56		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	9.09		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	234		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 8
H502670-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	1.26		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Zinc	25.3		10.0	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

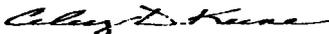
Total Mercury by CVAA

Mercury	0.176		0.106	mg/kg dry	490		B51017 1	JGS	22-Oct-15	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 9
H502670-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-CI-B	
pH*	8.24		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	84.0		40.0	mg/kg	4		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	ND		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.50			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	0.70			pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.2			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			98.1 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			110 %			52.1-176	5101401	MS	15-Oct-15	8015B	

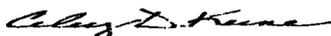
PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			137 %			35-140	5111002	CK	20-Oct-15	8082	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 9
H502670-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	124 %	35-140	5111002	CK	20-Oct-15	8082
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Volatile Organic Compounds by EPA Method 8260B

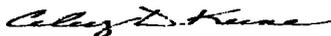
Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260

<i>Surrogate: Dibromofluoromethane</i>	110 %	80.8-114	5101611	MS	19-Oct-15	8260
<i>Surrogate: Toluene-d8</i>	96.7 %	83.7-121	5101611	MS	19-Oct-15	8260
<i>Surrogate: 4-Bromofluorobenzene</i>	97.2 %	57.9-154	5101611	MS	19-Oct-15	8260

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 9
H502670-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	21-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			73.9 %		20.4-109		5101308	MS	21-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			72.7 %		23.4-133		5101308	MS	21-Oct-15	8270C	
Surrogate: Terphenyl-d14			78.2 %		38.4-163		5101308	MS	21-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100		B51021	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 9
H502670-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	94.3			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	3.03		1.06	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	1.96		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	2.08		0.424	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.212	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	6490		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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Total Metals by ICPMS

Arsenic	1.73		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	207		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.31		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	4.20		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.39		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	244		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 9
H502670-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.451		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	20.4		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

Total Mercury by CVAA

Mercury	ND		0.106	mg/kg dry	500		B51017	JGS	22-Oct-15	EPA7471	
							1				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 10
H502670-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	7.76		0.100	pH Units	1		5111008	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	1000		200	mg/kg	20		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	71.8		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides
SUB-RS

Radium-226	0.61			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	1.1			pCi/gram	1	0.06	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.7			pCi/gram	1	0.07	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			103 %			47.2-157	5101401	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			117 %			52.1-176	5101401	MS	15-Oct-15	8015B	

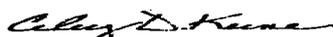
PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			138 %			35-140	5111002	CK	20-Oct-15	8082	

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INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 10
H502670-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-----	-------	---------	----------	--------	-------

Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

Surrogate: Decachlorobiphenyl 123 % 35-140 5111002 CK 20-Oct-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260

Surrogate: Dibromofluoromethane 108 % 80.8-114 5101611 MS 19-Oct-15 8260

Surrogate: Toluene-d8 97.9 % 83.7-121 5101611 MS 19-Oct-15 8260

Surrogate: 4-Bromofluorobenzene 94.8 % 57.9-154 5101611 MS 19-Oct-15 8260

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INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 10
H502670-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			70.3 %		20.4-109		5101308	MS	22-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			67.8 %		23.4-133		5101308	MS	22-Oct-15	8270C	
Surrogate: Terphenyl-d14			74.4 %		38.4-163		5101308	MS	22-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

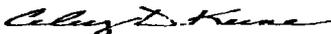
Cyanide, Total	ND		1.00	mg/kg dry	100		B51021	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 10
H502670-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	93.1			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	2.89		1.07	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	1.06		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.48		0.430	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	0.346		0.215	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	9040		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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Total Metals by ICPMS

Arsenic	1.83		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	777		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.99		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	5.36		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.39		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	254		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 10
H502670-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.427		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	25.8		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

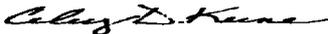
Total Mercury by CVAA

Mercury	ND		0.107	mg/kg dry	500		B51017	JGS	22-Oct-15	EPA7471	
							1				

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Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 11
H502670-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-CI-B	
pH*	7.89		0.100	pH Units	1		5111009	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	498		200	mg/kg	20		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	63.2		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides

SUB-RS

Radium-226	0.56			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	1.0			pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.6			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101504	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101504	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			93.1 %			47.2-157	5101504	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			101 %			52.1-176	5101504	MS	15-Oct-15	8015B	

PCBs BY GC/ECD

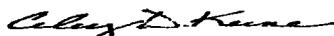
SUB-SS

PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			130 %			35-140	5111002	CK	20-Oct-15	8082	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 11
H502670-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-----	-------	---------	----------	--------	-------

Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	121 %	35-140	5111002	CK	20-Oct-15	8082
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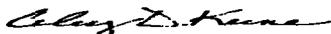
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
<i>Surrogate: Dibromofluoromethane</i>	107 %	80.8-114	5101611	MS	19-Oct-15	8260		
<i>Surrogate: Toluene-d8</i>	98.1 %	83.7-121	5101611	MS	19-Oct-15	8260		
<i>Surrogate: 4-Bromofluorobenzene</i>	95.6 %	57.9-154	5101611	MS	19-Oct-15	8260		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 11
H502670-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			89.3 %		20.4-109		5101308	MS	22-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			73.3 %		23.4-133		5101308	MS	22-Oct-15	8270C	
Surrogate: Terphenyl-d14			82.6 %		38.4-163		5101308	MS	22-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

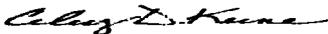
Cyanide, Total	ND		1.00	mg/kg dry	100		B51021	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 11
H502670-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	93.0			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	2.30		1.08	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F-C	
Nitrate as N	1.64		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	1.76		0.430	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.215	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	9020		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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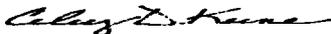
Total Metals by ICPMS

Arsenic	1.39		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	323		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	2.84		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	4.53		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	5.12		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	231		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 11
H502670-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.373		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Zinc	24.4		10.0	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

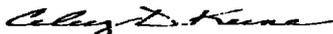
Total Mercury by CVAA

Mercury	ND		0.103	mg/kg dry	480		B51017 1	JGS	22-Oct-15	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

BG 12
H502670-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4		5101501	AP	20-Oct-15	4500-Cl-B	
pH*	8.21		0.100	pH Units	1		5111009	AP	10-Nov-15	9045	
Phenols	ND		0.5	mg/kg dry wt.	1		5111005	CK	30-Oct-15	EPA9065	SUB-AL
Sulfate	154		40.0	mg/kg	4		5102105	AP	22-Oct-15	375.4	

Organic Compounds

TPH 418.1	55.2		20.0	mg/kg	2		5110208	CK	04-Nov-15	418.1	
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Radionuclides

											SUB-RS
Radium-226	0.58			pCi/gram	1	0.03	5111004	CK	29-Oct-15	GammaRay HPGE	
Radium-228	1.0			pCi/gram	1	0.04	5111004	CK	29-Oct-15	GammaRay HPGE	
Total Radium	1.6			pCi/gram	1	0.05	5111004	CK	29-Oct-15	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1		5101504	MS	15-Oct-15	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1		5101504	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctane			91.7 %			47.2-157	5101504	MS	15-Oct-15	8015B	
Surrogate: 1-Chlorooctadecane			100 %			52.1-176	5101504	MS	15-Oct-15	8015B	

PCBs BY GC/ECD

											SUB-SS
PCB 1016	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1221	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1232	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1242	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1248	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1254	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
PCB 1260	ND		10.0	ug/kg	1		5111002	CK	20-Oct-15	8082	
Surrogate: Tetrachloro-meta-xylene			148 %			35-140	5111002	CK	20-Oct-15	8082	S-12

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 12
H502670-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
PCBs BY GC/ECD
SUB-SS

<i>Surrogate: Decachlorobiphenyl</i>	140 %	35-140	5111002	CK	20-Oct-15	8082
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Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Methylene chloride*	ND	0.200	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Chloroform*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Benzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Trichloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Toluene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
m-p Xylenes*	ND	0.100	mg/kg	50	5101611	MS	19-Oct-15	8260
o-Xylene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Total Xylenes*	ND	0.150	mg/kg	50	5101611	MS	19-Oct-15	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260
Naphthalene*	ND	0.0500	mg/kg	50	5101611	MS	19-Oct-15	8260

<i>Surrogate: Dibromofluoromethane</i>	110 %	80.8-114	5101611	MS	19-Oct-15	8260
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<i>Surrogate: Toluene-d8</i>	95.0 %	83.7-121	5101611	MS	19-Oct-15	8260
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<i>Surrogate: 4-Bromofluorobenzene</i>	92.6 %	57.9-154	5101611	MS	19-Oct-15	8260
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 12
H502670-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
1-Methylnaphthalene	ND		0.020	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Acenaphthylene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Acenaphthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Fluorene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Phenanthrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Carbazole	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Fluoranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Chrysene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[b]flouranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40		5101308	MS	22-Oct-15	8270C	
Surrogate: Nitrobenzene-d5			86.3 %		20.4-109		5101308	MS	22-Oct-15	8270C	
Surrogate: 2-Fluorobiphenyl			67.6 %		23.4-133		5101308	MS	22-Oct-15	8270C	
Surrogate: Terphenyl-d14			74.7 %		38.4-163		5101308	MS	22-Oct-15	8270C	

Green Analytical Laboratories
General Chemistry

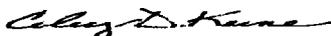
Cyanide, Total	ND		1.00	mg/kg dry	100		B51021	KLJ	23-Oct-15	EPA9012 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 12
H502670-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
General Chemistry

% Dry Solids	86.1			%	1		B51017 3	MAJ	20-Oct-15	EPA160.3/25 40C	H2
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Soluble (DI Water Extraction)

Fluoride	2.01		1.16	mg/kg dry	4		B51027 7	ABP	30-Oct-15	4500-F- C	
Nitrate as N	2.72		0.400	mg/kg dry	10		[CALC]	KLJ	16-Oct-15	EPA353.2	
Nitrate/Nitrite as N	3.16		0.465	mg/kg dry	10		B51013 3	KLJ	15-Oct-15	EPA353.2	
Nitrite as N	ND		0.232	mg/kg dry	10		B51013 5	KLJ	16-Oct-15	EPA353.2	

Total Metals by ICP

Iron	7850		5.00	mg/kg dry	100		B51017 2	JGS	22-Oct-15	EPA6010 B	
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Total Metals by ICPMS

Arsenic	1.79		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Barium	1260		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Cadmium	ND		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Chromium	3.08		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Copper	6.05		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Lead	7.37		0.500	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Manganese	249		2.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Selenium	ND		1.00	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	
Silver	ND		0.100	mg/kg dry	1000		B51027 0	JGS	30-Oct-15	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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BG 12
H502670-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	UNC	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICPMS

Uranium	0.437		0.100	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				
Zinc	31.5		10.0	mg/kg dry	1000		B51027	JGS	30-Oct-15	6020 A	
							0				

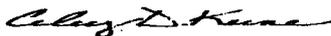
Total Mercury by CVAA

Mercury	0.127		0.114	mg/kg dry	490		B51017	JGS	22-Oct-15	EPA7471	
							1				

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INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101501 - General Prep - Wet Chem

Blank (5101501-BLK1)			Prepared & Analyzed: 15-Oct-15							
Chloride	ND	16.0	mg/kg							
LCS (5101501-BS1)			Prepared & Analyzed: 15-Oct-15							
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (5101501-BSD1)			Prepared & Analyzed: 15-Oct-15							
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	

Batch 5102105 - General Prep - Wet Chem

Blank (5102105-BLK1)			Prepared: 21-Oct-15 Analyzed: 22-Oct-15							
Sulfate	ND	10.0	mg/kg							
LCS (5102105-BS1)			Prepared: 21-Oct-15 Analyzed: 22-Oct-15							
Sulfate	21.6	10.0	mg/kg	20.0		108	80-120			
LCS Dup (5102105-BSD1)			Prepared: 21-Oct-15 Analyzed: 22-Oct-15							
Sulfate	22.7	10.0	mg/kg	20.0		113	80-120	5.02	20	

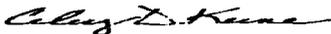
Batch 5111005 - General Prep

Blank (5111005-BLK1)			Prepared & Analyzed: 30-Oct-15							
Phenols	ND	0.5	mg/kg dry wt.							
LCS (5111005-BS1)			Prepared & Analyzed: 30-Oct-15							
Phenols	0.4		mg/kg	0.400		103	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5111005 - General Prep

Matrix Spike (5111005-MS1) Source: H502670-02 Prepared & Analyzed: 30-Oct-15

Phenols	3.3		mg/kg	4.22	0.0	78.7	70-130			
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Matrix Spike Dup (5111005-MSD1) Source: H502670-02 Prepared & Analyzed: 30-Oct-15

Phenols	3.7		mg/kg	4.22	0.0	87.2	70-130	10.3	20	
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Batch 5111008 - General Prep - Wet Chem

LCS (5111008-BS1) Prepared & Analyzed: 10-Nov-15

pH	7.14		pH Units	7.00		102	90-110			
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Duplicate (5111008-DUP1) Source: H502670-02 Prepared & Analyzed: 10-Nov-15

pH	8.31	0.100	pH Units		8.42			1.31	20	
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Batch 5111009 - General Prep - Wet Chem

LCS (5111009-BS1) Prepared & Analyzed: 10-Nov-15

pH	7.17		pH Units	7.00		102	90-110			
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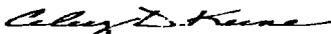
Duplicate (5111009-DUP1) Source: H502670-11 Prepared & Analyzed: 10-Nov-15

pH	7.94	0.100	pH Units		7.89			0.632	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5110208 - Solvent Extraction										
Blank (5110208-BLK1)										
Prepared & Analyzed: 04-Nov-15										
TPH 418.1	ND	20.0	mg/kg							
LCS (5110208-BS1)										
Prepared & Analyzed: 04-Nov-15										
TPH 418.1	4840	20.0	mg/kg	5000		96.7	70-130			
LCS Dup (5110208-BSD1)										
Prepared & Analyzed: 04-Nov-15										
TPH 418.1	5830	20.0	mg/kg	5000		117	70-130	18.6	20	

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INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101401 - General Prep - Organics

Blank (5101401-BLK1)		Prepared: 14-Oct-15 Analyzed: 15-Oct-15								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.8	47.2-157			
Surrogate: 1-Chlorooctadecane	52.7		mg/kg	50.0		105	52.1-176			

LCS (5101401-BS1)		Prepared: 14-Oct-15 Analyzed: 15-Oct-15								
GRO C6-C10	203	10.0	mg/kg	200		101	72.5-115			
DRO >C10-C28	211	10.0	mg/kg	200		105	81.3-118			
Total TPH C6-C28	414	10.0	mg/kg	400		103	80-113			
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	47.2-157			
Surrogate: 1-Chlorooctadecane	59.0		mg/kg	50.0		118	52.1-176			

LCS Dup (5101401-BSD1)		Prepared: 14-Oct-15 Analyzed: 15-Oct-15								
GRO C6-C10	198	10.0	mg/kg	200		98.9	72.5-115	2.54	10.1	
DRO >C10-C28	198	10.0	mg/kg	200		98.9	81.3-118	6.34	15.3	
Total TPH C6-C28	396	10.0	mg/kg	400		98.9	80-113	4.46	12.1	
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	47.2-157			
Surrogate: 1-Chlorooctadecane	56.3		mg/kg	50.0		113	52.1-176			

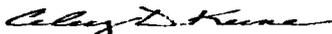
Batch 5101504 - General Prep - Organics

Blank (5101504-BLK1)		Prepared & Analyzed: 15-Oct-15								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	47.2-157			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	52.1-176			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101504 - General Prep - Organics
LCS (5101504-BS1)

Prepared & Analyzed: 15-Oct-15

GRO C6-C10	193	10.0	mg/kg	200	96.4	72.5-115				
DRO >C10-C28	205	10.0	mg/kg	200	102	81.3-118				
Total TPH C6-C28	398	10.0	mg/kg	400	99.4	80-113				
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0	90.9	47.2-157				
Surrogate: 1-Chlorooctadecane	50.1		mg/kg	50.0	100	52.1-176				

LCS Dup (5101504-BSD1)

Prepared & Analyzed: 15-Oct-15

GRO C6-C10	203	10.0	mg/kg	200	101	72.5-115	5.03	10.1		
DRO >C10-C28	215	10.0	mg/kg	200	108	81.3-118	4.87	15.3		
Total TPH C6-C28	418	10.0	mg/kg	400	104	80-113	4.95	12.1		
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0	96.2	47.2-157				
Surrogate: 1-Chlorooctadecane	52.7		mg/kg	50.0	105	52.1-176				

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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PCBs BY GC/ECD - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5111002 - 3550										
Blank (5111002-BLK1)										
Prepared: 16-Oct-15 Analyzed: 20-Oct-15										
PCB 1016	ND	10.0	ug/kg							
PCB 1221	ND	10.0	ug/kg							
PCB 1232	ND	10.0	ug/kg							
PCB 1242	ND	10.0	ug/kg							
PCB 1248	ND	10.0	ug/kg							
PCB 1254	ND	10.0	ug/kg							
PCB 1260	ND	10.0	ug/kg							
Surrogate: Tetrachloro-meta-xylene	13.2		ug/L	10.0		132	35-140			
Surrogate: Decachlorobiphenyl	11.6		ug/L	10.0		116	35-140			
LCS (5111002-BS1)										
Prepared: 16-Oct-15 Analyzed: 20-Oct-15										
PCB 1016	150		ug/L	100		150	40-130			QM-13
PCB 1260	156		ug/L	100		156	40-130			QM-13
Surrogate: Tetrachloro-meta-xylene	14.3		ug/L	10.0		143	35-140			S-12
Surrogate: Decachlorobiphenyl	13.5		ug/L	10.0		135	35-140			
Matrix Spike (5111002-MS1)										
Source: H502670-01										
Prepared: 16-Oct-15 Analyzed: 20-Oct-15										
PCB 1016	157		ug/L	100	ND	157	40-130			QM-13
PCB 1260	142		ug/L	100	ND	142	40-130			QM-13
Surrogate: Tetrachloro-meta-xylene	14.4		ug/L	10.0		144	35-140			S-12
Surrogate: Decachlorobiphenyl	12.9		ug/L	10.0		129	35-140			
Matrix Spike Dup (5111002-MSD1)										
Source: H502670-01										
Prepared: 16-Oct-15 Analyzed: 20-Oct-15										
PCB 1016	148		ug/L	100	ND	148	40-130	5.90	30	QM-13
PCB 1260	135		ug/L	100	ND	135	40-130	5.05	30	QM-13
Surrogate: Tetrachloro-meta-xylene	12.3		ug/L	10.0		123	35-140			
Surrogate: Decachlorobiphenyl	11.1		ug/L	10.0		111	35-140			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101611 - Volatiles
Blank (5101611-BLK1)

Prepared: 16-Oct-15 Analyzed: 19-Oct-15

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.550		mg/kg	0.500		110	80.8-114			
Surrogate: Toluene-d8	0.476		mg/kg	0.500		95.2	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.470		mg/kg	0.500		93.9	57.9-154			

LCS (5101611-BS1)

Prepared: 16-Oct-15 Analyzed: 19-Oct-15

Vinyl chloride	1.13	0.0500	mg/kg	1.00		113	27.3-182			
1,1-Dichloroethene	0.775	0.0500	mg/kg	1.00		77.5	49.8-244			
Methylene chloride	0.471	0.0500	mg/kg	1.00		47.1	39.3-197			
1,1-Dichloroethane	0.930	0.0500	mg/kg	1.00		93.0	54.8-185			
Chloroform	0.942	0.0500	mg/kg	1.00		94.2	58.3-148			
Carbon tetrachloride	0.882	0.0500	mg/kg	1.00		88.2	63.1-149			
1,1,1-Trichloroethane	0.903	0.0500	mg/kg	1.00		90.3	63.5-152			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101611 - Volatiles
LCS (5101611-BS1)

Prepared: 16-Oct-15 Analyzed: 19-Oct-15

Benzene	0.885	0.0500	mg/kg	1.00		88.5	78.3-139			
1,2-Dichloroethane	0.896	0.0500	mg/kg	1.00		89.6	41.8-156			
Trichloroethene	0.884	0.0500	mg/kg	1.00		88.4	60.7-142			
Toluene	0.836	0.0500	mg/kg	1.00		83.6	75.1-137			
Tetrachloroethene	0.844	0.0500	mg/kg	1.00		84.4	66-153			
1,1,2-Trichloroethane	0.830	0.0500	mg/kg	1.00		83.0	57.8-129			
1,2-Dibromoethane	0.892	0.0500	mg/kg	1.00		89.2	67.2-120			
Ethylbenzene	0.843	0.0500	mg/kg	1.00		84.3	71.7-131			
m-p Xylenes	1.70	0.100	mg/kg	2.00		85.1	70-130			
o-Xylene	0.823	0.0500	mg/kg	1.00		82.3	69.8-132			
Total Xylenes	2.52	0.150	mg/kg	3.00		84.1	70.9-136			
1,1,2,2-Tetrachloroethane	0.826	0.0500	mg/kg	1.00		82.6	42.4-125			
Naphthalene	0.993	0.0500	mg/kg	1.00		99.3	28.2-126			
Surrogate: Dibromofluoromethane	0.519		mg/kg	0.500		104	80.8-114			
Surrogate: Toluene-d8	0.495		mg/kg	0.500		98.9	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.515		mg/kg	0.500		103	57.9-154			

LCS Dup (5101611-BS1)

Prepared: 16-Oct-15 Analyzed: 19-Oct-15

Vinyl chloride	1.09	0.0500	mg/kg	1.00		109	27.3-182	3.74	27.6	
1,1-Dichloroethene	0.766	0.0500	mg/kg	1.00		76.6	49.8-244	1.14	29.8	
Methylene chloride	0.470	0.0500	mg/kg	1.00		47.0	39.3-197	0.176	37.6	
1,1-Dichloroethane	0.929	0.0500	mg/kg	1.00		92.9	54.8-185	0.0904	37.3	
Chloroform	0.947	0.0500	mg/kg	1.00		94.7	58.3-148	0.443	35	
Carbon tetrachloride	0.885	0.0500	mg/kg	1.00		88.5	63.1-149	0.256	33.1	
1,1,1-Trichloroethane	0.892	0.0500	mg/kg	1.00		89.2	63.5-152	1.18	33.8	
Benzene	0.863	0.0500	mg/kg	1.00		86.3	78.3-139	2.52	17.9	
1,2-Dichloroethane	0.889	0.0500	mg/kg	1.00		88.9	41.8-156	0.774	34.1	
Trichloroethene	0.844	0.0500	mg/kg	1.00		84.4	60.7-142	4.62	36.2	
Toluene	0.828	0.0500	mg/kg	1.00		82.8	75.1-137	0.996	20.7	
Tetrachloroethene	0.800	0.0500	mg/kg	1.00		80.0	66-153	5.38	58.9	
1,1,2-Trichloroethane	0.854	0.0500	mg/kg	1.00		85.4	57.8-129	2.91	38.9	
1,2-Dibromoethane	0.876	0.0500	mg/kg	1.00		87.6	67.2-120	1.84	34.4	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5101611 - Volatiles										
LCS Dup (5101611-BSD1)										
Prepared: 16-Oct-15 Analyzed: 19-Oct-15										
Ethylbenzene	0.832	0.0500	mg/kg	1.00		83.2	71.7-131	1.39	18.5	
m-p Xylenes	1.69	0.100	mg/kg	2.00		84.4	70-130	0.730	20	
o-Xylene	0.819	0.0500	mg/kg	1.00		81.9	69.8-132	0.507	18.8	
Total Xylenes	2.51	0.150	mg/kg	3.00		83.6	70.9-136	0.657	19.9	
1,1,2,2-Tetrachloroethane	0.895	0.0500	mg/kg	1.00		89.5	42.4-125	7.99	32.2	
Naphthalene	1.01	0.0500	mg/kg	1.00		101	28.2-126	1.58	35	
Surrogate: Dibromofluoromethane	0.554		mg/kg	0.500		111	80.8-114			
Surrogate: Toluene-d8	0.502		mg/kg	0.500		100	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.505		mg/kg	0.500		101	57.9-154			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101308 - SW-846 3550
Blank (5101308-BLK1)

Prepared: 13-Oct-15 Analyzed: 14-Oct-15

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.020	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.30		mg/kg	2.00		64.9	20.4-109			
Surrogate: 2-Fluorobiphenyl	1.35		mg/kg	2.00		67.5	23.4-133			
Surrogate: Terphenyl-d14	1.39		mg/kg	2.00		69.4	38.4-163			

LCS (5101308-BS1)

Prepared: 13-Oct-15 Analyzed: 14-Oct-15

Naphthalene	0.580	0.040	mg/kg	0.800		72.4	33.8-147			
2-Methylnaphthalene	0.594	0.040	mg/kg	0.800		74.3	41.4-151			
Acenaphthylene	0.599	0.040	mg/kg	0.800		74.9	39.2-150			
Acenaphthene	0.600	0.040	mg/kg	0.800		75.0	39.3-154			
Fluorene	0.597	0.040	mg/kg	0.800		74.6	40.4-158			
Phenanthrene	0.587	0.040	mg/kg	0.800		73.4	34.7-164			
Anthracene	0.598	0.040	mg/kg	0.800		74.8	33.5-162			
Carbazole	0.584	0.040	mg/kg	0.800		73.0	31.6-163			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101308 - SW-846 3550
LCS (5101308-BS1)

Prepared: 13-Oct-15 Analyzed: 14-Oct-15

Fluoranthene	0.597	0.040	mg/kg	0.800		74.6	38.5-165			
Pyrene	0.577	0.040	mg/kg	0.800		72.2	28-180			
Benzo[a]anthracene	0.585	0.040	mg/kg	0.800		73.1	28.6-167			
Chrysene	0.595	0.040	mg/kg	0.800		74.3	27.7-171			
Benzo[b]fluoranthene	0.657	0.040	mg/kg	0.800		82.2	24-168			
Benzo[k]fluoranthene	0.528	0.040	mg/kg	0.800		66.0	28.9-170			
Benzo[a]pyrene	0.596	0.040	mg/kg	0.800		74.5	27.2-163			
Indeno[1,2,3-cd]pyrene	0.618	0.040	mg/kg	0.800		77.2	21.9-162			
Dibenz[a,h]anthracene	0.622	0.040	mg/kg	0.800		77.8	19-164			
Benzo[g,h,i]perylene	0.603	0.040	mg/kg	0.800		75.3	14.1-172			
Surrogate: Nitrobenzene-d5	1.43		mg/kg	2.00		71.4	20.4-109			
Surrogate: 2-Fluorobiphenyl	1.48		mg/kg	2.00		74.0	23.4-133			
Surrogate: Terphenyl-d14	1.45		mg/kg	2.00		72.6	38.4-163			

LCS Dup (5101308-BSD1)

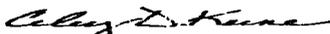
Prepared: 13-Oct-15 Analyzed: 14-Oct-15

Naphthalene	0.577	0.040	mg/kg	0.800		72.2	33.8-147	0.384	20	
2-Methylnaphthalene	0.598	0.040	mg/kg	0.800		74.8	41.4-151	0.676	20	
Acenaphthylene	0.604	0.040	mg/kg	0.800		75.5	39.2-150	0.825	20	
Acenaphthene	0.596	0.040	mg/kg	0.800		74.4	39.3-154	0.808	20	
Fluorene	0.603	0.040	mg/kg	0.800		75.4	40.4-158	0.965	20	
Phenanthrene	0.592	0.040	mg/kg	0.800		74.1	34.7-164	0.962	20	
Anthracene	0.599	0.040	mg/kg	0.800		74.9	33.5-162	0.120	20	
Carbazole	0.597	0.040	mg/kg	0.800		74.7	31.6-163	2.27	20	
Fluoranthene	0.592	0.040	mg/kg	0.800		74.0	38.5-165	0.806	20	
Pyrene	0.594	0.040	mg/kg	0.800		74.3	28-180	2.87	20	
Benzo[a]anthracene	0.609	0.040	mg/kg	0.800		76.1	28.6-167	4.08	20	
Chrysene	0.610	0.040	mg/kg	0.800		76.2	27.7-171	2.51	20	
Benzo[b]fluoranthene	0.603	0.040	mg/kg	0.800		75.4	24-168	8.61	21.5	
Benzo[k]fluoranthene	0.628	0.040	mg/kg	0.800		78.5	28.9-170	17.2	20.5	
Benzo[a]pyrene	0.614	0.040	mg/kg	0.800		76.7	27.2-163	2.91	20	
Indeno[1,2,3-cd]pyrene	0.637	0.040	mg/kg	0.800		79.7	21.9-162	3.15	32.1	
Dibenz[a,h]anthracene	0.637	0.040	mg/kg	0.800		79.7	19-164	2.40	30.5	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5101308 - SW-846 3550
LCS Dup (5101308-BSD1)

Prepared: 13-Oct-15 Analyzed: 14-Oct-15

Benzo[g,h,i]perylene	0.622	0.040	mg/kg	0.800		77.8	14.1-172	3.24	39.3	
Surrogate: Nitrobenzene-d5	1.43		mg/kg	2.00		71.7	20.4-109			
Surrogate: 2-Fluorobiphenyl	1.49		mg/kg	2.00		74.3	23.4-133			
Surrogate: Terphenyl-d14	1.44		mg/kg	2.00		72.0	38.4-163			

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Celey D. Keene, Lab Director/Quality Manager

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INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B510173 - General Prep - Wet Chem

Duplicate (B510173-DUP1)		Source: H502670-01		Prepared & Analyzed: 20-Oct-15						
% Dry Solids	95.0		%		94.7			0.327	20	
Duplicate (B510173-DUP2)		Source: H502670-10		Prepared & Analyzed: 20-Oct-15						
% Dry Solids	93.4		%		93.1			0.311	20	

Batch B510207 - General Prep - Wet Chem

Blank (B510207-BLK1)		Prepared: 22-Oct-15 Analyzed: 23-Oct-15								
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B510207-BS1)		Prepared: 22-Oct-15 Analyzed: 23-Oct-15								
Cyanide, Total	0.0916	0.0100	mg/kg wet	0.100		91.6	80-120			
LCS Dup (B510207-BSD1)		Prepared: 22-Oct-15 Analyzed: 23-Oct-15								
Cyanide, Total	0.0911	0.0100	mg/kg wet	0.100		91.1	80-120	0.547	20	

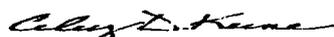
Batch B510214 - General Prep - Wet Chem

Blank (B510214-BLK1)		Prepared: 21-Oct-15 Analyzed: 23-Oct-15								
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B510214-BS1)		Prepared: 21-Oct-15 Analyzed: 23-Oct-15								
Cyanide, Total	0.0849	0.0100	mg/kg wet	0.100		84.9	80-120			
LCS Dup (B510214-BSD1)		Prepared: 21-Oct-15 Analyzed: 23-Oct-15								
Cyanide, Total	0.0919	0.0100	mg/kg wet	0.100		91.9	80-120	7.92	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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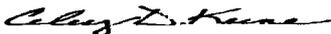
Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B510133 - General Prep - Wet Chem										
Blank (B510133-BLK1) Prepared & Analyzed: 15-Oct-15										
Nitrate/Nitrite as N	0.021	0.020	mg/kg wet							
LCS (B510133-BS1) Prepared & Analyzed: 15-Oct-15										
Nitrate/Nitrite as N	1.04	0.020	mg/kg wet	1.00		104	80-120			
LCS Dup (B510133-BSD1) Prepared & Analyzed: 15-Oct-15										
Nitrate/Nitrite as N	0.997	0.020	mg/kg wet	1.00		99.7	80-120	4.22	20	
Batch B510135 - General Prep - Wet Chem										
Blank (B510135-BLK1) Prepared & Analyzed: 16-Oct-15										
Nitrite as N	ND	0.200	mg/kg wet							
LCS (B510135-BS1) Prepared & Analyzed: 16-Oct-15										
Nitrite as N	0.111	0.020	mg/kg wet	0.100		111	80-120			
LCS Dup (B510135-BSD1) Prepared & Analyzed: 16-Oct-15										
Nitrite as N	0.111	0.020	mg/kg wet	0.100		111	80-120	0.00	20	
Batch B510277 - General Prep - Wet Chem										
Blank (B510277-BLK1) Prepared & Analyzed: 30-Oct-15										
Fluoride	ND	0.250	mg/kg wet							
LCS (B510277-BS1) Prepared & Analyzed: 30-Oct-15										
Fluoride	0.990	0.250	mg/kg wet	1.00		99.0	85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B510277 - General Prep - Wet Chem
LCS Dup (B510277-BSD1)

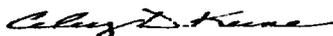
Prepared & Analyzed: 30-Oct-15

Fluoride	0.986	0.250	mg/kg wet	1.00		98.6	85-115	0.405	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B510172 - EPA 3050										
Blank (B510172-BLK1)										
Prepared: 21-Oct-15 Analyzed: 22-Oct-15										
Iron	ND	0.050	mg/kg dry							
LCS (B510172-BS1)										
Prepared: 21-Oct-15 Analyzed: 22-Oct-15										
Iron	3.87	0.050	mg/kg dry	4.00		96.8	85-115			
LCS Dup (B510172-BSD1)										
Prepared: 21-Oct-15 Analyzed: 22-Oct-15										
Iron	3.82	0.050	mg/kg dry	4.00		95.5	85-115	1.32	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 INDUSTRIAL ECOSYSTEMS
 49 CR 3150
 AZTEC NM, 87410

 Project: WQCC A&B
 Project Number: 3541
 Project Manager: MARCELLA MARQUEZ
 Fax To: (505) 632-1876

 Reported:
 10-Nov-15 16:36

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B510270 - EPA 3050M
Blank (B510270-BLK1)

Prepared & Analyzed: 30-Oct-15

Selenium	ND	0.0010	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Uranium	ND	0.0001	mg/kg dry							
Barium	ND	0.0005	mg/kg dry							
Zinc	ND	0.0100	mg/kg dry							
Cadmium	ND	0.0005	mg/kg dry							
Copper	ND	0.0005	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Manganese	ND	0.0020	mg/kg dry							

LCS (B510270-BS1)

Prepared & Analyzed: 30-Oct-15

Barium	0.0531	0.0005	mg/kg dry	0.0500		106	85-115			
Cadmium	0.0572	0.0005	mg/kg dry	0.0500		114	85-115			
Copper	0.0543	0.0005	mg/kg dry	0.0500		109	85-115			
Arsenic	0.0552	0.0005	mg/kg dry	0.0500		110	85-115			
Selenium	0.276	0.0010	mg/kg dry	0.250		110	85-115			
Uranium	0.0575	0.0001	mg/kg dry	0.0500		115	85-115			
Zinc	0.0560	0.0100	mg/kg dry	0.0500		112	80-120			
Silver	0.0559	0.0001	mg/kg dry	0.0500		112	85-115			
Chromium	0.0568	0.0010	mg/kg dry	0.0500		114	85-115			
Lead	0.0569	0.0005	mg/kg dry	0.0500		114	85-115			
Manganese	0.0548	0.0020	mg/kg dry	0.0500		110	85-115			

LCS Dup (B510270-BSD1)

Prepared & Analyzed: 30-Oct-15

Barium	0.0512	0.0005	mg/kg dry	0.0500		102	85-115	3.71	20	
Cadmium	0.0554	0.0005	mg/kg dry	0.0500		111	85-115	3.21	20	
Chromium	0.0576	0.0010	mg/kg dry	0.0500		115	85-115	1.46	20	
Zinc	0.0574	0.0100	mg/kg dry	0.0500		115	80-120	2.36	20	
Lead	0.0536	0.0005	mg/kg dry	0.0500		107	85-115	6.00	20	
Uranium	0.0534	0.0001	mg/kg dry	0.0500		107	85-115	7.28	20	
Silver	0.0561	0.0001	mg/kg dry	0.0500		112	85-115	0.342	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

INDUSTRIAL ECOSYSTEMS 49 CR 3150 AZTEC NM, 87410	Project: WQCC A&B Project Number: 3541 Project Manager: MARCELLA MARQUEZ Fax To: (505) 632-1876	Reported: 10-Nov-15 16:36
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Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B510270 - EPA 3050M
LCS Dup (B510270-BSD1)

Prepared & Analyzed: 30-Oct-15

Manganese	0.0573	0.0020	mg/kg dry	0.0500		115	85-115	4.58	20	
Copper	0.0554	0.0005	mg/kg dry	0.0500		111	85-115	2.10	20	
Arsenic	0.0538	0.0005	mg/kg dry	0.0500		108	85-115	2.46	20	
Selenium	0.274	0.0010	mg/kg dry	0.250		110	85-115	0.687	20	

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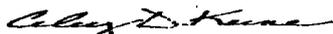
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B510171 - EPA 7471										
Blank (B510171-BLK1)										
Prepared: 21-Oct-15 Analyzed: 22-Oct-15										
Mercury	ND	0.0002	mg/kg wet							
LCS (B510171-BS1)										
Prepared: 21-Oct-15 Analyzed: 22-Oct-15										
Mercury	0.0021	0.0002	mg/kg wet	0.00200		107	85-115			
LCS Dup (B510171-BSD1)										
Prepared: 21-Oct-15 Analyzed: 22-Oct-15										
Mercury	0.0021	0.0002	mg/kg wet	0.00200		103	85-115	3.63	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- SUB-SS Analysis subcontracted to SunStar Laboratories, Inc.
- SUB-RS Analysis subcontracted to Radiation Safety Engineering, Inc.
- SUB-AL Analysis subcontracted to Anatek Labs, Inc.
- S-12 The surrogate recovery in the LCS/LCSD, MS and/or MSD was bias high. The surrogate recovery in associated samples was bias high and the samples were ND. No negative impact on the data is expected.
- QM-13 Spike recovery for this analyte was bias high in the LCS and/or MS/MSD. Instrument blank, method blank and all sample were ND. No negative impact on data is expected.
- H2 Sample analysis performed past hold time specified by the method.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500C-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(970) 247-4229 service@greenanalytical.com or dzufelt@greenanalytical.com
 Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

Company Name: Industrial Ecosystems, Inc.		Bill to (if different):	
Project Manager: Marcella Marquez		P.O. #: 3541	
Address: 49 Road 3150		Company:	
City: Aztec	State: NM	Zip: 87410	Attn:
Phone #: 505-632-1782	Email: marcella@industrialecosystems.com		
Additional Report To:		Address:	
Project Name: JFJ Background		City:	
Project Number:		State: Zip:	
Sampler Name (Print): Marcella Marquez, Richard Chavez		Phone #:	
		Fax or Email:	

Lab I.D.	Sample Name or Location	Collected		Matrix (check one)										ANALYSIS REQUEST							
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	OTHER :	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:	Other:	TPH (418.1)	BTEX (8021B)	CHLORIDE (300.0)	SUB A & B OF WQCC	
H502670																					
11	BG 11	10/12/15	8:30a					<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
12	BG 12	10/12/15	8:50a					<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by GAL, regardless of whether such claim is based upon any of the above stated causes of damages.

Relinquished By: <i>M. Marquez</i>	Date: 10/12/15 Time: 12:20p	Received By: <i>Christen Clark</i>	ADDITIONAL REMARKS: Report to State? (Circle) Yes No
Relinquished By: <i>Christen Clark</i>	Date: 10/13/15 Time: 1:00p	Received By: <i>Fed Ex</i>	
Relinquished By:	Date: 10/14/15 Time: 8:45	Received By: <i>Jodi Henson</i>	
Delivered By: (Circle One) Sampler - UPS - FedEx - Kangaroo - Other: 3.4c	Temperature at receipt: 10.5c	CHECKED BY: <i>JA</i>	

† GAL cannot always accept verbal changes. Please fax or email written change requests.
 * Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.
#54

APPENDIX B
JFJ Landfarm/
Industrial Ecosystems, Inc.
Background Samples
GPS Coordinates

Name	Latitude	Longitude	Name	Latitude	Longitude
BG 1-1	36.74779	-108.06127	BG 2-1	36.75086	-108.06350
BG 1-2	36.74781	-108.06128	BG 2-2	36.75081	-108.06346
BG 1-3	36.74778	-108.06132	BG 2-3	36.75085	-108.06338
BG 1-4	36.74778	-108.06134	BG 2-4	36.75089	-108.06338
BG 1-5	36.74781	-108.06135	BG 2-5	36.75083	-108.06333
BG 1-6	36.74784	-108.06129	BG 2-6	36.75076	-108.06338
BG 1-7	36.74782	-108.06137	BG 2-7	36.75076	-108.06331
BG 1-8	36.74784	-108.06135	BG 2-8	36.75080	-108.06321
BG 1-9	36.74781	-108.06143	BG 2-9	36.75087	-108.06327
BG 1-10	36.74777	-108.06142	BG 2-10	36.75091	-108.06333
BG 1-11	36.74778	-108.06139	BG 2-11	36.75097	-108.06340
BG 1-12	36.74778	-108.06142	BG 2-12	36.75102	-108.06330
BG 1-13	36.74791	-108.06145	BG 2-13	36.75093	-108.06318
BG 1-14	36.74788	-108.06131	BG 2-14	36.75081	-108.06309
BG 1-15	36.74773	-108.06135	BG 2-15	36.75102	-108.06320
BG 1-16	36.74773	-108.06146	BG 2-16	36.75088	-108.06321
BG 3-1	36.75260	-108.06383	BG 4-1	36.75276	-108.06418
BG 3-2	36.75262	-108.06390	BG 4-2	36.75277	-108.06413
BG 3-3	36.75273	-108.06386	BG 4-3	36.75275	-108.06411
BG 3-4	36.75270	-108.06380	BG 4-4	36.75275	-108.06406
BG 3-5	36.75270	-108.06373	BG 4-5	36.75274	-108.06402
BG 3-6	36.75266	-108.06369	BG 4-6	36.75275	-108.06395
BG 3-7	36.75263	-108.06363	BG 4-7	36.75273	-108.06384
BG 3-8	36.75259	-108.06365	BG 4-8	36.75275	-108.06384
BG 3-9	36.75248	-108.06371	BG 4-9	36.75276	-108.06378
BG 3-10	36.75251	-108.06377	BG 4-10	36.75274	-108.06374
BG 3-11	36.75252	-108.06384	BG 4-11	36.75274	-108.06369
BG 3-12	36.75259	-108.06389	BG 4-12	36.75274	-108.06367
BG 3-13	36.75263	-108.06399	BG 4-13	36.75277	-108.06369
BG 3-14	36.75274	-108.06359	BG 4-14	36.75278	-108.06373
BG 3-15	36.75268	-108.06357	BG 4-15	36.75283	-108.06375
BG 3-16	36.75258	-108.06350	BG 4-16	36.75285	-108.06377

APPENDIX B
JFJ Landfarm/
Industrial Ecosystems, Inc.
Background Samples
GPS Coordinates

Name	Latitude	Longitude	Name	Latitude	Longitude
BG 5-1	36.75293	-108.06380	BG 6-1	36.74900	-108.06189
BG 5-2	36.75292	-108.06382	BG 6-2	36.74913	-108.06196
BG 5-3	36.75294	-108.06385	BG 6-3	36.74918	-108.06196
BG 5-4	36.75300	-108.06390	BG 6-4	36.74922	-108.06195
BG 5-5	36.75303	-108.06393	BG 6-5	36.74924	-108.06198
BG 5-6	36.75308	-108.06396	BG 6-6	36.74930	-108.06203
BG 5-7	36.75311	-108.06397	BG 6-7	36.74929	-108.06207
BG 5-8	36.75310	-108.06400	BG 6-8	36.74925	-108.06207
BG 5-9	36.75308	-108.06406	BG 6-9	36.74922	-108.06204
BG 5-10	36.75308	-108.06409	BG 6-10	36.74919	-108.06209
BG 5-11	36.75302	-108.06407	BG 6-11	36.74924	-108.06216
BG 5-12	36.75305	-108.06402	BG 6-12	36.74917	-108.06220
BG 5-13	36.75297	-108.06395	BG 6-13	36.74927	-108.06226
BG 5-14	36.75294	-108.06396	BG 6-14	36.74900	-108.06181
BG 5-15	36.75289	-108.06390	BG 6-15	36.74907	-108.06183
BG 5-16	36.75282	-108.06396	BG 6-16	36.74919	-108.06189
BG 7-1	36.74770	-108.06223	BG 8-1	36.75252	-108.06471
BG 7-2	36.74770	-108.06215	BG 8-2	36.75256	-108.06474
BG 7-3	36.74770	-108.06210	BG 8-3	36.75262	-108.06476
BG 7-4	36.74770	-108.06200	BG 8-4	36.75271	-108.06476
BG 7-5	36.74775	-108.06203	BG 8-5	36.75274	-108.06466
BG 7-6	36.74776	-108.06210	BG 8-6	36.75272	-108.06459
BG 7-7	36.74775	-108.06216	BG 8-7	36.75267	-108.06461
BG 7-8	36.74774	-108.06224	BG 8-8	36.75266	-108.06454
BG 7-9	36.74776	-108.06230	BG 8-9	36.75270	-108.06450
BG 7-10	36.74781	-108.06224	BG 8-10	36.75273	-108.06446
BG 7-11	36.74783	-108.06218	BG 8-11	36.75274	-108.06439
BG 7-12	36.74788	-108.06210	BG 8-12	36.75271	-108.06433
BG 7-13	36.74788	-108.06206	BG 8-13	36.75275	-108.06425
BG 7-14	36.74790	-108.06200	BG 8-14	36.75274	-108.06416
BG 7-15	36.74785	-108.06196	BG 8-15	36.75269	-108.06415
BG 7-16	36.74782	-108.06194	BG 8-16	36.75267	-108.06405

APPENDIX B
JFJ Landfarm/
Industrial Ecosystems, Inc.
Background Samples
GPS Coordinates

Name	Latitude	Longitude	Name	Latitude	Longitude
BG 9-1	36.75343	-108.06807	BG 10-1	36.74886	-108.06836
BG 9-2	36.75339	-108.06807	BG 10-2	36.74874	-108.06835
BG 9-3	36.75331	-108.06805	BG 10-3	36.74862	-108.06834
BG 9-4	36.75325	-108.06807	BG 10-4	36.74849	-108.06835
BG 9-5	36.75317	-108.06807	BG 10-5	36.74840	-108.06835
BG 9-6	36.75308	-108.06807	BG 10-6	36.74833	-108.06837
BG 9-7	36.75298	-108.06808	BG 10-7	36.74824	-108.06836
BG 9-8	36.75291	-108.06806	BG 10-8	36.74814	-108.06838
BG 9-9	36.75281	-108.06808	BG 10-9	36.74805	-108.06839
BG 9-10	36.75282	-108.06814	BG 10-10	36.74799	-108.06838
BG 9-11	36.75268	-108.06817	BG 10-11	36.74792	-108.06842
BG 9-12	36.75261	-108.06819	BG 10-12	36.74785	-108.06840
BG 9-13	36.75257	-108.06818	BG 10-13	36.74781	-108.06842
BG 9-14	36.75249	-108.06817	BG 10-14	36.74778	-108.06843
BG 9-15	36.75241	-108.06816	BG 10-15	36.74775	-108.06845
BG 9-16	36.75229	-108.06816	BG 10-16	36.74770	-108.06838
BG 11-1	36.74771	-108.06833	BG 12-1	36.74769	-108.06657
BG 11-2	36.74770	-108.06828	BG 12-2	36.74769	-108.06647
BG 11-3	36.74770	-108.06819	BG 12-3	36.74770	-108.06637
BG 11-4	36.74771	-108.06809	BG 12-4	36.74769	-108.06624
BG 11-5	36.74770	-108.06800	BG 12-5	36.74771	-108.06618
BG 11-6	36.74771	-108.06792	BG 12-6	36.74770	-108.06607
BG 11-7	36.74771	-108.06783	BG 12-7	36.74769	-108.06598
BG 11-8	36.74770	-108.06773	BG 12-8	36.74771	-108.06585
BG 11-9	36.74769	-108.06762	BG 12-9	36.74770	-108.06574
BG 11-10	36.74768	-108.06752	BG 12-10	36.74771	-108.06564
BG 11-11	36.74770	-108.06740	BG 12-11	36.74770	-108.06553
BG 11-12	36.74771	-108.06730	BG 12-12	36.74769	-108.06541
BG 11-13	36.74771	-108.06720	BG 12-13	36.74768	-108.06527
BG 11-14	36.74768	-108.06711	BG 12-14	36.74769	-108.06520
BG 11-15	36.74769	-108.06699	BG 12-15	36.74767	-108.06506
BG 11-16	36.74769	-108.06689	BG 12-16	36.74765	-108.06498

Background Sampling Locations Overview

115

BG 9-3
BG 9-8
BG 9-14
BG 9-16

BG 5-10
BG 8-6
BG 4-16
BG 3-9

BG 2-12
BG 2-6
BG 2-7

BG 6-7
BG 6-13
BG 6-14

BG 10-1
BG 10-5
BG 10-10
BG 11-9
BG 11-10
BG 12-9

BG 1-14
BG 7-9
BG 7-8

Background Samples 1, 6 & 7-Taken from inside of the East and Southeast facility fence lines

BG 6-13
BG 6-8
BG 6-10
BG 6-5
BG 6-3
BG 6-2
BG 6-15
BG 6-1
BG 6-14

BG 7-12
BG 7-14
BG 7-10
BG 7-15
BG 7-16
BG 7-8
BG 7-7
BG 7-1
BG 7-2
BG 7-4
BG 1-13
BG 1-8
BG 1-12
BG 1-3
BG 1-16
BG 1-15

Background Sample 2-Taken from inside the East facility fence line

Page 3 of 6

- BG 2-1
- BG 2-2
- BG 2-3
- BG 2-4
- BG 2-5
- BG 2-6
- BG 2-7
- BG 2-8
- BG 2-9
- BG 2-10
- BG 2-11
- BG 2-12
- BG 2-13
- BG 2-14
- BG 2-16

Google earth

1997

Imagery Date: 3/15/2015 36°45'03.67" N 108°03'47.82" W elev 5876 ft eye alt 6261 ft

Background Samples 3 & 8 - Taken from inside of the Northeast facility fence line
&
Background Samples 4 & 5 - Taken from outside of the Northeast facility fence line

- BG 5-10
- BG 5-6
- BG 5-11
- BG 5-5
- BG 5-13
- BG 5-4
- BG 5-14
- BG 5-3
- BG 5-15
- BG 5-2
- BG 5-16
- BG 4-15
- BG 8-4
- BG 8-6
- BG 8-10
- BG 8-12
- BG 8-14
- BG 4-5
- BG 4-9
- BG 4-13
- BG 8-9
- BG 8-12
- BG 4-7
- BG 4-10
- BG 3-14
- BG 8-7
- BG 8-8
- BG 8-15
- BG 8-16
- BG 3-4
- BG 3-5
- BG 3-15
- BG 8-3
- BG 3-13
- BG 3-2
- BG 3-7
- BG 8-2
- BG 3-12
- BG 3-1
- BG 3-8
- BG 3-16
- 115
- BG 3-10
- BG 3-9

Page 4 of 6

Google earth

Background Sample 9 - Taken from outside of the Northwest facility fence line

BG 9-2

BG 9-4

BG 9-5

BG 9-6

BG 9-7

BG 9-8

BG 9-9

BG 9-11

BG 9-13

BG 9-14

BG 9-15

BG 9-16

Page 5 of 6

© 2015 Google

Google earth

1997

Imagery Date: 3/15/2015 36°45'10.31" N 108°04'07.50" W elev 5877 ft eye alt 6672 ft

Background Samples 10, 11 & 12 - Taken from outside of the Southwest & South facility fence lines

BG 10-1

BG 10-2

BG 10-3

BG 10-4

BG 10-5

BG 10-6

BG 10-7

BG 10-8

BG 10-9

BG 10-10

BG 10-11

BG 10-13

BG 10-15

BG 11-2

BG 11-4

BG 11-7

BG 11-9

BG 11-11

BG 11-14

BG 11-16

BG 12-2

BG 12-4

BG 12-7

BG 12-9

BG 12-12

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OOD

2015 DEC 28 P 3:18

December 21, 2015

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

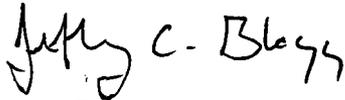
Re: JFJ Waste Management Facility: Permit NM-01-0010B
2015 3rd Quarterly Report on Treatment Zone Monitoring

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for the quarterly sample event conducted on September 30, 2015.

The facility permit describes annual cell sampling to be within the treatment zone, defined in the permit as: "A treatment zone not to exceed three (3) feet beneath the landfarm and compost pile native ground surface". This is the interval that was sampled during the sample event. Samples were submitted to Hall Environmental Laboratories in Albuquerque, New Mexico for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015D (GRO, DRO and MRO), volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, and chlorides by Method 300.0 For this event samples were collected from active cell units 2f, 3h, 4f, 7b, 8b, 9c, 11d, 12g and 13g (see attached figure). No constituents were found to be in excess of landfarm permit standards.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

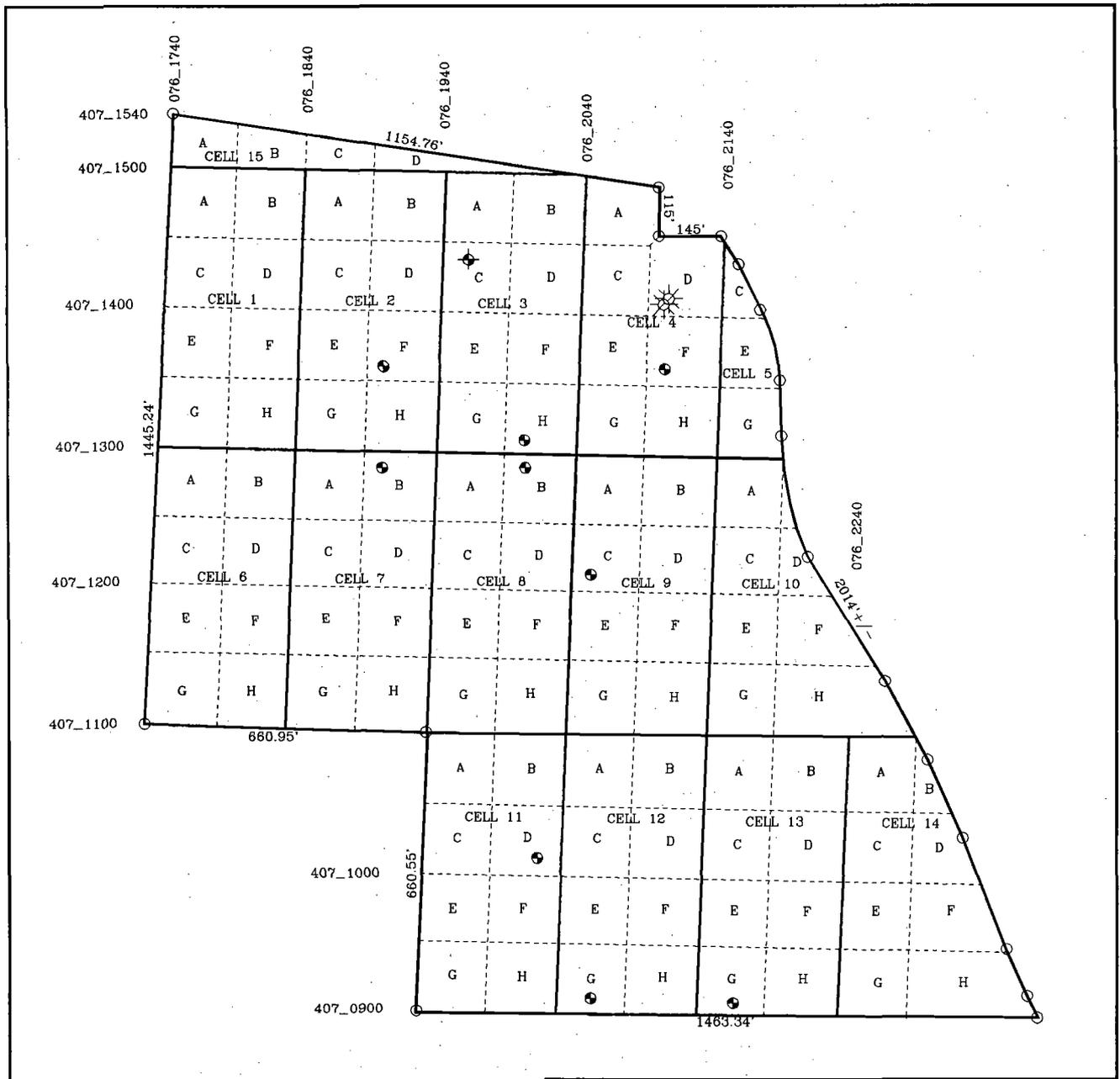
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Figure
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

-  Active Gas Well
-  PxA Gas Well
-  Sample Point



N



0 500 1000 Feet

JFJ LANDFARM FACILITY		BLAGG ENGINEERING, INC.	
DATE: SEP 2015	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 13, 2015

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: JFJ Landfarm

OrderNo.: 1510086

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/2/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1510086

Date Reported: 10/13/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 3H

Project: JFJ Landfarm

Collection Date: 9/30/2015 9:05:00 AM

Lab ID: 1510086-002

Matrix: SOIL

Received Date: 10/2/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/7/2015 2:27:51 PM	21726
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2015 12:51:37 AM	21629
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2015 12:51:37 AM	21629
Surr: DNOP	99.5	57.9-140		%REC	1	10/9/2015 12:51:37 AM	21629
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/7/2015 2:09:25 AM	21665
Surr: BFB	88.0	75.4-113		%REC	1	10/7/2015 2:09:25 AM	21665
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	10/7/2015 2:09:25 AM	21665
Toluene	ND	0.046		mg/Kg	1	10/7/2015 2:09:25 AM	21665
Ethylbenzene	ND	0.046		mg/Kg	1	10/7/2015 2:09:25 AM	21665
Xylenes, Total	ND	0.093		mg/Kg	1	10/7/2015 2:09:25 AM	21665
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	10/7/2015 2:09:25 AM	21665

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
 Project: JFJ Landfarm
 Lab ID: 1510086-006

Client Sample ID: Cell 9C
 Collection Date: 9/30/2015 1:10:00 PM
 Received Date: 10/2/2015 8:00:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/7/2015 3:17:29 PM	21726
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2015 2:39:54 AM	21629
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2015 2:39:54 AM	21629
Surr: DNOP	101	57.9-140		%REC	1	10/9/2015 2:39:54 AM	21629
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/7/2015 3:42:23 AM	21665
Surr: BFB	88.1	75.4-113		%REC	1	10/7/2015 3:42:23 AM	21665
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	10/7/2015 3:42:23 AM	21665
Toluene	ND	0.049		mg/Kg	1	10/7/2015 3:42:23 AM	21665
Ethylbenzene	ND	0.049		mg/Kg	1	10/7/2015 3:42:23 AM	21665
Xylenes, Total	ND	0.098		mg/Kg	1	10/7/2015 3:42:23 AM	21665
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	10/7/2015 3:42:23 AM	21665

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 11D

Project: JFJ Landfarm

Collection Date: 9/30/2015 1:25:00 PM

Lab ID: 1510086-007

Matrix: SOIL

Received Date: 10/2/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/7/2015 3:29:54 PM	21726
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2015 3:06:54 AM	21629
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2015 3:06:54 AM	21629
Surr: DNOP	103	57.9-140		%REC	1	10/9/2015 3:06:54 AM	21629
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/7/2015 4:05:32 AM	21665
Surr: BFB	87.6	75.4-113		%REC	1	10/7/2015 4:05:32 AM	21665
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	10/7/2015 4:05:32 AM	21665
Toluene	ND	0.046		mg/Kg	1	10/7/2015 4:05:32 AM	21665
Ethylbenzene	ND	0.046		mg/Kg	1	10/7/2015 4:05:32 AM	21665
Xylenes, Total	ND	0.092		mg/Kg	1	10/7/2015 4:05:32 AM	21665
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	10/7/2015 4:05:32 AM	21665

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
 Project: JFJ Landfarm
 Lab ID: 1510086-008

Matrix: SOIL

Client Sample ID: Cell 12G
 Collection Date: 9/30/2015 1:35:00 PM
 Received Date: 10/2/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	10/7/2015 3:42:19 PM	21726
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2015 3:34:13 AM	21629
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2015 3:34:13 AM	21629
Surr: DNOP	101	57.9-140		%REC	1	10/9/2015 3:34:13 AM	21629
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/7/2015 4:28:49 AM	21665
Surr: BFB	89.5	75.4-113		%REC	1	10/7/2015 4:28:49 AM	21665
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/7/2015 4:28:49 AM	21665
Toluene	ND	0.047		mg/Kg	1	10/7/2015 4:28:49 AM	21665
Ethylbenzene	ND	0.047		mg/Kg	1	10/7/2015 4:28:49 AM	21665
Xylenes, Total	ND	0.095		mg/Kg	1	10/7/2015 4:28:49 AM	21665
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/7/2015 4:28:49 AM	21665

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510086
 13-Oct-15

Client: Blagg Engineering
Project: JFJ Landfarm

Sample ID	MB-21726	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	21726	RunNo:	29393					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894029	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21726	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	21726	RunNo:	29393					
Prep Date:	10/7/2015	Analysis Date:	10/7/2015	SeqNo:	894030	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510086

13-Oct-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-21652	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890900	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.7	57.9	140			

Sample ID	LCS-21652	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21652	RunNo:	29273					
Prep Date:	10/5/2015	Analysis Date:	10/5/2015	SeqNo:	890901	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.7	57.9	140			

Sample ID	MB-21629	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21629	RunNo:	29273					
Prep Date:	10/2/2015	Analysis Date:	10/6/2015	SeqNo:	892312	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	57.9	140			

Sample ID	LCS-21629	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21629	RunNo:	29273					
Prep Date:	10/2/2015	Analysis Date:	10/6/2015	SeqNo:	892314	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	57.4	139			
Surr: DNOP	5.3		5.000		107	57.9	140			

Sample ID	MB-21679	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	21679	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/8/2015	SeqNo:	894236	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		105	57.9	140			

Sample ID	LCS-21679	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	21679	RunNo:	29273					
Prep Date:	10/6/2015	Analysis Date:	10/8/2015	SeqNo:	894238	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		112	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510086

13-Oct-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-21665	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	21665	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892336	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.5	75.4	113			

Sample ID	LCS-21665	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	21665	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892337	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	79.6	122			
Surr: BFB	950		1000		95.5	75.4	113			

Sample ID	MB-21694	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	21694	RunNo:	29364					
Prep Date:	10/6/2015	Analysis Date:	10/7/2015	SeqNo:	893258	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.0	75.4	113			

Sample ID	LCS-21694	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	21694	RunNo:	29364					
Prep Date:	10/6/2015	Analysis Date:	10/7/2015	SeqNo:	893259	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.7	75.4	113			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1510086
 13-Oct-15

Client: Blagg Engineering
Project: JFJ Landfarm

Sample ID	MB-21665	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21665	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892380	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	LCS-21665	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21665	RunNo:	29332					
Prep Date:	10/5/2015	Analysis Date:	10/6/2015	SeqNo:	892381	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID	MB-21694	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	21694	RunNo:	29364					
Prep Date:	10/6/2015	Analysis Date:	10/7/2015	SeqNo:	893314	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	LCS-21694	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	21694	RunNo:	29364					
Prep Date:	10/6/2015	Analysis Date:	10/7/2015	SeqNo:	893315	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1510086**

RcptNo: **1**

Received by/date: SA 10/02/15
 Logged By: **Lindsay Mangin** **10/2/2015 8:00:00 AM**
 Completed By: **Lindsay Mangin** **10/2/2015 1:26:51 PM**
 Reviewed By: JA 10/05/15

[Signature]
[Signature]

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: Blagg Engineering, Inc.

JFJ Landfarm

Mailing Address: P.O. Box 87
Bloomfield, NM 87413

Phone #: (505)320-1183

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name: JFJ Landfarm

Project #:

Project Manager:
Jeff Blagg

Sampler: Jeff Blagg

On Ice: Yes No

Sample Temperature: 1.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH 8015B (GRO / DRO / MRO)	Chloride	Air Bubbles (Y or N)
09/30/2015	9:50 AM	Soil	Cell 2F	1x4oz	Cool	1510086 -001	x	x	x	
09/30/2015	9:05 AM	Soil	Cell 3H	1x4oz	Cool	-002	x	x	x	
09/30/2015	8:20 AM	Soil	Cell 4F	1x4oz	Cool	-003	x	x	x	
09/30/2015	9:27 AM	Soil	Cell 7B	1x4oz	Cool	-004	x	x	x	
09/30/2015	8:42 AM	Soil	Cell 8B	1x4oz	Cool	-005	x	x	x	
09/30/2015	13:10:00 PM	Soil	Cell 9C	1x4oz	Cool	-006	x	x	x	
09/30/2015	13:25:00 PM	Soil	Cell 11D	1x4oz	Cool	-007	x	x	x	
09/30/2015	13:35:00 PM	Soil	Cell 12G	1x4oz	Cool	-008	x	x	x	
09/30/2015	13:58:00 PM	Soil	Cell 13G	1x4oz	Cool	-009	x	x	x	

Date: <u>10/1/2015</u>	Time: <u>1322</u>	Relinquished by: <u>Jeff Blagg</u>	Received by: <u>Christi Watter</u>	Date: <u>10/1/2015</u>	Time: <u>1322</u>
Date: <u>10/1/15</u>	Time: <u>1934</u>	Relinquished by: <u>Christi Watter</u>	Received by: <u>Jan. [unclear]</u>	Date: <u>10/02/15</u>	Time: <u>0800</u>

Remarks: Bill JFJ Directly
JFJ Contact: Marcella Marquez

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OGD

2015 OCT 19 P 3: 09

October 15, 2015

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
2015 2nd Quarterly Report on Treatment Zone Monitoring

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for the quarterly sample event conducted on June 29, 2015.

The facility permit describes annual cell sampling to be within the treatment zone, defined in the permit as: "A treatment zone not to exceed three (3) feet beneath the landfarm and compost pile native ground surface". This is the interval that was sampled during the sample event. Samples were submitted to Hall Environmental Laboratories in Albuquerque, New Mexico for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015D (GRO, DRO and MRO), volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, and chlorides by Method 300.0 For this event samples were collected from active cell units 2h, 3e, 4h, 7h, 8f, 9d, 11c, 12g and 13g (see attached figure). No constituents were found to be in excess of landfarm permit standards.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

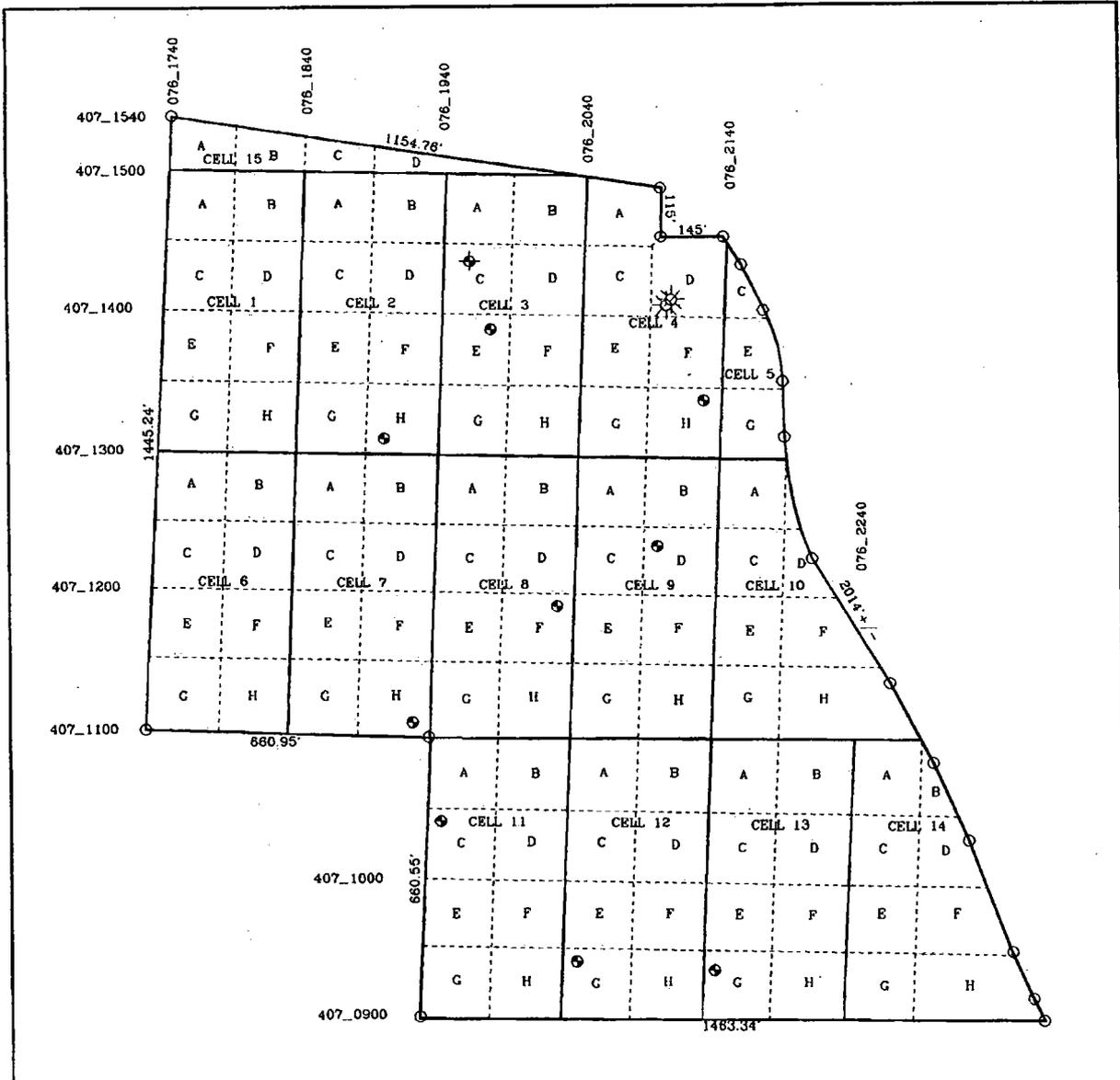
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Figure
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- ☼ Active Gas Well
- ◆ PxA Gas Well
- Sample Point

N

0 500 1000 Feet

JFJ LANDFARM FACILITY			BLAGG ENGINEERING, INC.		
DATE: JUN 2015	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 15, 2015

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: JFJ Landfarm

OrderNo.: 1507020

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/1/2015 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 15, 2015.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1507020

Date Reported: 10/15/2015

CLIENT: Blagg Engineering

Client Sample ID: Cell 3E

Project: JFJ Landfarm

Collection Date: 6/29/2015 8:50:00 AM

Lab ID: 1507020-002

Matrix: SOIL

Received Date: 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/8/2015 10:12:48 PM	20161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/6/2015 1:18:26 PM	20084
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/6/2015 1:18:26 PM	20084
Surr: DNOP	97.0	57.9-140		%REC	1	7/6/2015 1:18:26 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2015 5:08:47 PM	20074
Surr: BFB	85.5	75.4-113		%REC	1	7/6/2015 5:08:47 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	7/6/2015 5:08:47 PM	20074
Toluene	ND	0.048		mg/Kg	1	7/6/2015 5:08:47 PM	20074
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2015 5:08:47 PM	20074
Xylenes, Total	ND	0.095		mg/Kg	1	7/6/2015 5:08:47 PM	20074
Surr: 4-Bromofluorobenzene	89.7	80-120		%REC	1	7/6/2015 5:08:47 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:		
*	Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1507020
 Date Reported: 10/15/2015

CLIENT: Blagg Engineering **Client Sample ID:** Cell 4H
Project: JFJ Landfarm **Collection Date:** 6/29/2015 9:14:00 AM
Lab ID: 1507020-003 **Matrix:** SOIL **Received Date:** 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/8/2015 11:14:50 PM	20161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/6/2015 1:45:13 PM	20084
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/6/2015 1:45:13 PM	20084
Surr: DNOP	94.7	57.9-140		%REC	1	7/6/2015 1:45:13 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2015 5:37:31 PM	20074
Surr: BFB	84.6	75.4-113		%REC	1	7/6/2015 5:37:31 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/6/2015 5:37:31 PM	20074
Toluene	ND	0.049		mg/Kg	1	7/6/2015 5:37:31 PM	20074
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2015 5:37:31 PM	20074
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2015 5:37:31 PM	20074
Surr: 4-Bromofluorobenzene	86.6	80-120		%REC	1	7/6/2015 5:37:31 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1507020
 Date Reported: 10/15/2015

CLIENT: Blagg Engineering
Project: JFJ Landfarm
Lab ID: 1507020-004

Client Sample ID: Cell 7H
Collection Date: 6/29/2015 8:04:00 AM
Matrix: SOIL
Received Date: 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/8/2015 11:27:14 PM	20161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	13	9.8		mg/Kg	1	7/6/2015 2:12:36 PM	20084
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/6/2015 2:12:36 PM	20084
Surr: DNOP	94.6	57.9-140		%REC	1	7/6/2015 2:12:36 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2015 6:06:16 PM	20074
Surr: BFB	84.3	75.4-113		%REC	1	7/6/2015 6:06:16 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/6/2015 6:06:16 PM	20074
Toluene	ND	0.050		mg/Kg	1	7/6/2015 6:06:16 PM	20074
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2015 6:06:16 PM	20074
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2015 6:06:16 PM	20074
Surr: 4-Bromofluorobenzene	86.5	80-120		%REC	1	7/6/2015 6:06:16 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1507020

Date Reported: 10/15/2015

CLIENT: Blagg Engineering

Client Sample ID: Cell 8F

Project: JFJ Landfarm

Collection Date: 6/29/2015 7:42:00 AM

Lab ID: 1507020-005

Matrix: SOIL

Received Date: 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/8/2015 11:39:39 PM	20161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/6/2015 2:39:49 PM	20084
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/6/2015 2:39:49 PM	20084
Surr: DNOP	96.9	57.9-140		%REC	1	7/6/2015 2:39:49 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2015 9:27:16 PM	20074
Surr: BFB	84.4	75.4-113		%REC	1	7/6/2015 9:27:16 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	7/6/2015 9:27:16 PM	20074
Toluene	ND	0.048		mg/Kg	1	7/6/2015 9:27:16 PM	20074
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2015 9:27:16 PM	20074
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2015 9:27:16 PM	20074
Surr: 4-Bromofluorobenzene	86.1	80-120		%REC	1	7/6/2015 9:27:16 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1507020

Date Reported: 10/15/2015

CLIENT: Blagg Engineering

Client Sample ID: Cell 9D

Project: JFJ Landfarm

Collection Date: 6/29/2015 7:20:00 AM

Lab ID: 1507020-006

Matrix: SOIL

Received Date: 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/8/2015 11:52:04 PM	20161
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/6/2015 3:07:10 PM	20084
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/6/2015 3:07:10 PM	20084
Surr: DNOP	104	57.9-140		%REC	1	7/6/2015 3:07:10 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2015 9:55:58 PM	20074
Surr: BFB	84.9	75.4-113		%REC	1	7/6/2015 9:55:58 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/6/2015 9:55:58 PM	20074
Toluene	ND	0.049		mg/Kg	1	7/6/2015 9:55:58 PM	20074
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2015 9:55:58 PM	20074
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2015 9:55:58 PM	20074
Surr: 4-Bromofluorobenzene	86.8	80-120		%REC	1	7/6/2015 9:55:58 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1507020

Date Reported: 10/15/2015

CLIENT: Blagg Engineering

Client Sample ID: Cell 11C

Project: JFJ Landfarm

Collection Date: 6/29/2015 9:25:00 AM

Lab ID: 1507020-007

Matrix: SOIL

Received Date: 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/9/2015 12:37:51 PM	20182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	42	10		mg/Kg	1	7/6/2015 3:34:08 PM	20084
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/6/2015 3:34:08 PM	20084
Surr: DNOP	98.9	57.9-140		%REC	1	7/6/2015 3:34:08 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2015 10:24:42 PM	20074
Surr: BFB	86.2	75.4-113		%REC	1	7/6/2015 10:24:42 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/6/2015 10:24:42 PM	20074
Toluene	ND	0.049		mg/Kg	1	7/6/2015 10:24:42 PM	20074
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2015 10:24:42 PM	20074
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2015 10:24:42 PM	20074
Surr: 4-Bromofluorobenzene	89.0	80-120		%REC	1	7/6/2015 10:24:42 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1507020
 Date Reported: 10/15/2015

CLIENT: Blagg Engineering

Client Sample ID: Cell 12G

Project: JFJ Landfarm

Collection Date: 6/29/2015 9:35:00 AM

Lab ID: 1507020-008

Matrix: SOIL

Received Date: 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/9/2015 1:15:04 PM	20182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/6/2015 4:01:34 PM	20084
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/6/2015 4:01:34 PM	20084
Surr: DNOP	94.5	57.9-140		%REC	1	7/6/2015 4:01:34 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2015 10:53:21 PM	20074
Surr: BFB	84.7	75.4-113		%REC	1	7/6/2015 10:53:21 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	7/6/2015 10:53:21 PM	20074
Toluene	ND	0.048		mg/Kg	1	7/6/2015 10:53:21 PM	20074
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2015 10:53:21 PM	20074
Xylenes, Total	ND	0.095		mg/Kg	1	7/6/2015 10:53:21 PM	20074
Surr: 4-Bromofluorobenzene	86.1	80-120		%REC	1	7/6/2015 10:53:21 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1507020
 Date Reported: 10/15/2015

CLIENT: Blagg Engineering **Client Sample ID:** Cell 13G
Project: JFJ Landfarm **Collection Date:** 6/29/2015 9:50:00 AM
Lab ID: 1507020-009 **Matrix:** SOIL **Received Date:** 7/1/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	7/9/2015 1:27:28 PM	20182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	7/6/2015 4:28:48 PM	20084
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/6/2015 4:28:48 PM	20084
Surr: DNOP	100	57.9-140		%REC	1	7/6/2015 4:28:48 PM	20084
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2015 11:22:03 PM	20074
Surr: BFB	85.1	75.4-113		%REC	1	7/6/2015 11:22:03 PM	20074
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	7/6/2015 11:22:03 PM	20074
Toluene	ND	0.049		mg/Kg	1	7/6/2015 11:22:03 PM	20074
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2015 11:22:03 PM	20074
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2015 11:22:03 PM	20074
Surr: 4-Bromofluorobenzene	87.5	80-120		%REC	1	7/6/2015 11:22:03 PM	20074

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507020

15-Oct-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-20161	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	20161	RunNo:	27374					
Prep Date:	7/8/2015	Analysis Date:	7/8/2015	SeqNo:	821079	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-20161	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	20161	RunNo:	27374					
Prep Date:	7/8/2015	Analysis Date:	7/8/2015	SeqNo:	821080	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Sample ID	MB-20182	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	20182	RunNo:	27409					
Prep Date:	7/9/2015	Analysis Date:	7/9/2015	SeqNo:	822344	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-20182	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	20182	RunNo:	27409					
Prep Date:	7/9/2015	Analysis Date:	7/9/2015	SeqNo:	822345	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507020

15-Oct-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-20084	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	20084	RunNo:	27290					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	817786	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.0	57.9	140			

Sample ID	LCS-20084	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	20084	RunNo:	27290					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	817787	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	103	57.4	139			
Surr: DNOP	5.5		5.000		110	57.9	140			

Sample ID	1507020-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Cell 2H	Batch ID:	20084	RunNo:	27290					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818071	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.66	6.411	84.9	42.3	146			
Surr: DNOP	4.9		4.766		102	57.9	140			

Sample ID	1507020-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Cell 2H	Batch ID:	20084	RunNo:	27290					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818072	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	49.21	6.411	85.9	42.3	146	3.79	28.9	
Surr: DNOP	5.1		4.921		103	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507020

15-Oct-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-20074	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	20074	RunNo:	27293					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818229	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.3	75.4	113			

Sample ID	LCS-20074	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	20074	RunNo:	27293					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818230	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.9	64	130			
Surr: BFB	920		1000		91.9	75.4	113			

Sample ID	1507020-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Cell 2H	Batch ID:	20074	RunNo:	27293					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818235	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.37	0	93.9	47.9	144			
Surr: BFB	910		974.7		93.0	75.4	113			

Sample ID	1507020-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Cell 2H	Batch ID:	20074	RunNo:	27293					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818236	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.32	0	93.8	47.9	144	0.280	29.9	
Surr: BFB	900		972.8		92.9	75.4	113	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1507020

15-Oct-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-20074	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	20074	RunNo:	27293					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818262	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	80	120			

Sample ID	LCS-20074	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	20074	RunNo:	27293					
Prep Date:	7/2/2015	Analysis Date:	7/6/2015	SeqNo:	818263	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.6	128			
Toluene	0.97	0.050	1.000	0	97.0	75	124			
Ethylbenzene	1.0	0.050	1.000	0	101	79.5	126			
Xylenes, Total	3.1	0.10	3.000	0	102	78.8	124			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkbas NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1507020**

RcptNo: 1

Received by/date: AG 07/01/15

Logged By: **Lindsay Mangin** 7/1/2015 7:15:00 AM *[Signature]*

Completed By: **Lindsay Mahgin** 7/1/2015 12:33:53 PM *[Signature]*

Reviewed By: *[Signature]* AG 07/02/15

Chain of Custody

- Custody seals intact on sample bottles? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C? Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

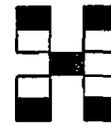
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:
 Standard Rush
 Project Name:
 JFJ LANDFARM
 Project #:

Client: JFJ LANDFARM
 Blagg Engineering
 Mailing Address:
 Phone #: 505-320-1193
 Email or Fax#:
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation:
 NELAP Other _____
 EDD (Type) _____

Project Manager:
 J. Blago
 Sampler: J. Blagg
 On Ice: Yes No
 Sample Temperature: 1.3



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + THMS (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
6/30/2015	0830	SOIL	CELL 2H	4oz x 1	COOL	1507020-001	X		X									X	
"	0850	"	CELL 3E	"	"	-002	X		X									X	
"	0914	"	CELL 4H	"	"	-003	X		X									X	
"	0904	"	CELL 7H	"	"	-004	X		X									X	
"	0742	"	CELL 8F	"	"	-005	X		X									X	
"	0720	"	CELL 9D	"	"	-006	X		X									X	
"	0925	"	CELL 11C	"	"	-007	X		X									X	
"	0935	"	CELL 12G	"	"	-008	X		X									X	
"	0950	"	CELL 13G	"	"	-009	X		X									X	

Date: 6/30/2015 Time: 1136 Relinquished by: JH Blagg
 Received by: Christina Walker Date: 6/30/2015 Time: 1136
 Date: 6/30/15 Time: 1837 Relinquished by: Christina Walker
 Received by: Amalugo Date: 07/01/15 Time: 0715

Remarks: Bill JFJ
 Contact: Marcello Marquez

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OOD

2015 JUL -6 P 3: 54

June 29, 2015

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

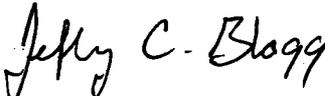
Re: JFJ Waste Management Facility: Permit NM-01-0010B
2015 1st Quarterly Report on Treatment Zone Monitoring

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for the quarterly sample event conducted on March 31, 2015.

The facility permit describes annual cell sampling to be within the treatment zone, defined in the permit as: "A treatment zone not to exceed three (3) feet beneath the landfarm and compost pile native ground surface". This is the interval that was sampled during the sample event. Samples were submitted to Hall Environmental Laboratories in Albuquerque, New Mexico for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015D (GRO, DRO and MRO), volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, and chlorides by Method 300.0 For this event samples were collected from active cell units 2g, 3b, 4e, 7e, 8c, 9h, 11e, 12f and 13e (see attached figure). No constituents were found to be in excess of landfarm permit standards.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

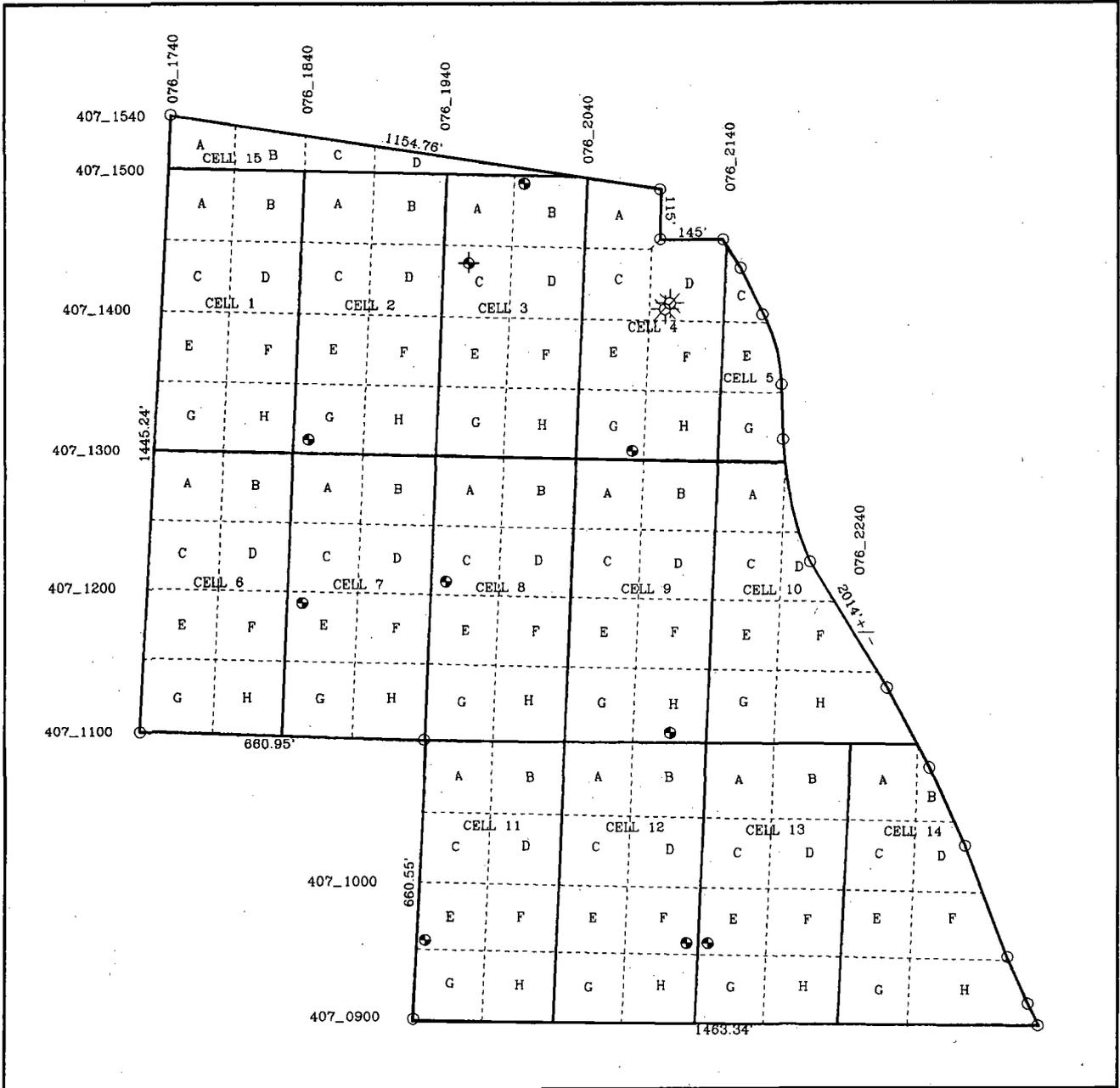
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Figure
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Active Gas Well
- PxA Gas Well
- Sample Point

N

0 500 1000 Feet

JFJ LANDFARM FACILITY		BLAGG ENGINEERING, INC.	
DATE: MAR 2015	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 07, 2015

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: JFJ Landfarm

OrderNo.: 1504089

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/2/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1504089

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 3B

Project: JFJ Landfarm

Collection Date: 3/31/2015 2:55:00 PM

Lab ID: 1504089-002

Matrix: SOIL

Received Date: 4/2/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/3/2015 10:49:06 PM	18483
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/3/2015 10:49:06 PM	18483
Surr: DNOP	96.0	63.5-128		%REC	1	4/3/2015 10:49:06 PM	18483
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2015 2:26:33 PM	18492
Surr: BFB	84.9	80-120		%REC	1	4/6/2015 2:26:33 PM	18492
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	4/6/2015 2:26:33 PM	18492
Toluene	ND	0.049		mg/Kg	1	4/6/2015 2:26:33 PM	18492
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2015 2:26:33 PM	18492
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2015 2:26:33 PM	18492
Surr: 4-Bromofluorobenzene	97.0	80-120		%REC	1	4/6/2015 2:26:33 PM	18492
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/6/2015 3:25:44 PM	18531

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order 1504089

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 4E

Project: JFJ Landfarm

Collection Date: 3/31/2015 2:30:00 PM

Lab ID: 1504089-003

Matrix: SOIL

Received Date: 4/2/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	12	10		mg/Kg	1	4/3/2015 11:16:08 PM	18483
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/3/2015 11:16:08 PM	18483
Surr: DNOP	95.2	63.5-128		%REC	1	4/3/2015 11:16:08 PM	18483
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2015 3:52:53 PM	18492
Surr: BFB	83.1	80-120		%REC	1	4/6/2015 3:52:53 PM	18492
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	4/6/2015 3:52:53 PM	18492
Toluene	ND	0.048		mg/Kg	1	4/6/2015 3:52:53 PM	18492
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2015 3:52:53 PM	18492
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2015 3:52:53 PM	18492
Surr: 4-Bromofluorobenzene	94.5	80-120		%REC	1	4/6/2015 3:52:53 PM	18492
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/6/2015 4:15:21 PM	18531

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - O RSD is greater than RSDlimit
 - R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 7E

Project: JFJ Landfarm

Collection Date: 3/31/2015 2:00:00 PM

Lab ID: 1504089-004

Matrix: SOIL

Received Date: 4/2/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/3/2015 11:42:45 PM	18483
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/3/2015 11:42:45 PM	18483
Surr: DNOP	84.9	63.5-128		%REC	1	4/3/2015 11:42:45 PM	18483
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2015 4:21:32 PM	18492
Surr: BFB	82.8	80-120		%REC	1	4/6/2015 4:21:32 PM	18492
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	4/6/2015 4:21:32 PM	18492
Toluene	ND	0.049		mg/Kg	1	4/6/2015 4:21:32 PM	18492
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2015 4:21:32 PM	18492
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2015 4:21:32 PM	18492
Surr: 4-Bromofluorobenzene	92.8	80-120		%REC	1	4/6/2015 4:21:32 PM	18492
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/6/2015 4:27:47 PM	18531

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

Analytical Report

Lab Order 1504089

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 8C

Project: JFJ Landfarm

Collection Date: 3/31/2015 1:35:00 PM

Lab ID: 1504089-005

Matrix: SOIL

Received Date: 4/2/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/4/2015 12:09:18 AM	18483
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/4/2015 12:09:18 AM	18483
Surr: DNOP	90.0	63.5-128		%REC	1	4/4/2015 12:09:18 AM	18483
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2015 4:50:16 PM	18492
Surr: BFB	81.2	80-120		%REC	1	4/6/2015 4:50:16 PM	18492
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	4/6/2015 4:50:16 PM	18492
Toluene	ND	0.048		mg/Kg	1	4/6/2015 4:50:16 PM	18492
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2015 4:50:16 PM	18492
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2015 4:50:16 PM	18492
Surr: 4-Bromofluorobenzene	90.8	80-120		%REC	1	4/6/2015 4:50:16 PM	18492
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/6/2015 4:40:11 PM	18531

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - O RSD is greater than RSDlimit
 - R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

Lab Order 1504089

Date Reported: 4/7/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Cell 12F

Project: JFJ Landfarm

Collection Date: 3/31/2015 12:20:00 PM

Lab ID: 1504089-008

Matrix: SOIL

Received Date: 4/2/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/4/2015 1:29:22 AM	18483
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2015 1:29:22 AM	18483
Surr: DNOP	88.9	63.5-128		%REC	1	4/4/2015 1:29:22 AM	18483
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2015 6:16:21 PM	18492
Surr: BFB	83.6	80-120		%REC	1	4/6/2015 6:16:21 PM	18492
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	4/6/2015 6:16:21 PM	18492
Toluene	ND	0.047		mg/Kg	1	4/6/2015 6:16:21 PM	18492
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2015 6:16:21 PM	18492
Xylenes, Total	ND	0.094		mg/Kg	1	4/6/2015 6:16:21 PM	18492
Surr: 4-Bromofluorobenzene	93.2	80-120		%REC	1	4/6/2015 6:16:21 PM	18492
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/6/2015 5:17:25 PM	18531

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers:**
- * Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - O RSD is greater than RSDlimit
 - R RPD outside accepted recovery limits
 - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** Cell 13E
Project: JFJ Landfarm **Collection Date:** 3/31/2015 12:40:00 PM
Lab ID: 1504089-009 **Matrix:** SOIL **Received Date:** 4/2/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	18	9.9		mg/Kg	1	4/4/2015 1:55:34 AM	18483
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/4/2015 1:55:34 AM	18483
Surr: DNOP	85.5	63.5-128		%REC	1	4/4/2015 1:55:34 AM	18483
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2015 6:45:06 PM	18492
Surr: BFB	83.8	80-120		%REC	1	4/6/2015 6:45:06 PM	18492
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	4/6/2015 6:45:06 PM	18492
Toluene	ND	0.049		mg/Kg	1	4/6/2015 6:45:06 PM	18492
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2015 6:45:06 PM	18492
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2015 6:45:06 PM	18492
Surr: 4-Bromofluorobenzene	93.0	80-120		%REC	1	4/6/2015 6:45:06 PM	18492
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/6/2015 5:29:49 PM	18531

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	ND Not Detected at the Reporting Limit
	O RSD is greater than RSDlimit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504089

07-Apr-15

Client: Blagg Engineering
Project: JFJ Landfarm

Sample ID	MB-18531	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	18531	RunNo	25320					
Prep Date	4/6/2015	Analysis Date	4/6/2015	SeqNo	749564	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-18531	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	18531	RunNo	25320					
Prep Date	4/6/2015	Analysis Date	4/6/2015	SeqNo	749565	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Qualifiers:

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504089
07-Apr-15

Client: Blagg Engineering
Project: JFJ Landfarm

Sample ID	LCS-18483	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	18483	RunNo:	25271					
Prep Date:	4/2/2015	Analysis Date:	4/3/2015	SeqNo:	748608	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.7	67.8	130			
Surr: DNOP	5.1		5.000		102	63.5	128			

Sample ID	MB-18483	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	18483	RunNo:	25271					
Prep Date:	4/2/2015	Analysis Date:	4/3/2015	SeqNo:	748610	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	63.5	128			

Qualifiers:

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- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504089
07-Apr-15

Client: Blagg Engineering
Project: JFJ Landfarm

Sample ID	1504089-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	Cell 2G	Batch ID: 18492	RunNo: 25325							
Prep Date:	4/2/2015	Analysis Date: 4/6/2015	SeqNo: 749198	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.9	24.70	0	71.9	47.9	144			
Surr: BFB	880		988.1		88.6	80	120			

Sample ID	1504089-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	Cell 2G	Batch ID: 18492	RunNo: 25325							
Prep Date:	4/2/2015	Analysis Date: 4/6/2015	SeqNo: 749199	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.75	0	95.7	47.9	144	28.6	29.9	
Surr: BFB	900		990.1		90.6	80	120	0	0	

Sample ID	LCS-18492	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	LCSS	Batch ID: 18492	RunNo: 25325							
Prep Date:	4/2/2015	Analysis Date: 4/6/2015	SeqNo: 749208	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	64	130			
Surr: BFB	900		1000		89.5	80	120			

Sample ID	MB-18492	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch ID: 18492	RunNo: 25325							
Prep Date:	4/2/2015	Analysis Date: 4/6/2015	SeqNo: 749209	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	820		1000		82.1	80	120			

Qualifiers:

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- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504089

07-Apr-15

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	1504089-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Cell 3B	Batch ID:	18492	RunNo:	25325					
Prep Date:	4/2/2015	Analysis Date:	4/6/2015	SeqNo:	749257	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9756	0	110	69.2	126			
Toluene	1.1	0.049	0.9756	0.01683	107	65.6	128			
Ethylbenzene	1.1	0.049	0.9756	0.01062	112	65.5	138			
Xylenes, Total	3.3	0.098	2.927	0.02851	111	63	139			
Surr: 4-Bromofluorobenzene	0.97		0.9756		99.7	80	120			

Sample ID	1504089-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	Cell 3B	Batch ID:	18492	RunNo:	25325					
Prep Date:	4/2/2015	Analysis Date:	4/6/2015	SeqNo:	749258	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9766	0	110	69.2	126	0.170	18.5	
Toluene	1.0	0.049	0.9766	0.01683	106	65.6	128	0.969	20.6	
Ethylbenzene	1.1	0.049	0.9766	0.01062	111	65.5	138	1.44	20.1	
Xylenes, Total	3.2	0.098	2.930	0.02851	110	63	139	1.15	21.1	
Surr: 4-Bromofluorobenzene	0.97		0.9766		99.4	80	120	0	0	

Sample ID	LCS-18492	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	18492	RunNo:	25325					
Prep Date:	4/2/2015	Analysis Date:	4/6/2015	SeqNo:	749267	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	118	76.6	128			
Toluene	1.1	0.050	1.000	0	115	75	124			
Ethylbenzene	1.2	0.050	1.000	0	117	79.5	126			
Xylenes, Total	3.5	0.10	3.000	0	116	78.8	124			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120			

Sample ID	MB-18492	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	18492	RunNo:	25325					
Prep Date:	4/2/2015	Analysis Date:	4/6/2015	SeqNo:	749268	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	80	120			

Qualifiers:

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Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: 1504089

RcptNo: 1

Received by/date: AT 02/02/15

Logged By: **Lindsay Mangin** 4/2/2015 7:00:00 AM *Judy Allago*

Completed By: **Lindsay Mangin** 4/2/2015 9:36:29 AM *Judy Allago*

Reviewed By: CS 04/02/15

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: JFJ LANDFARM

Mailing Address: Blagg Engineering
P.O. Box 27
Brownfield NM 87413

Phone #: 505-320-1193

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name:
JFJ LANDFARM

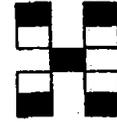
Project #:

Project Manager:
J. Blagg

Sampler: J. Blagg

On Ice: Yes No

Sample Temperature: 1.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (Gas only)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
<u>3/20/15</u>	<u>1525</u>	<u>SOIL</u>	<u>CELL 2G</u>	<u>4oz x 1</u>	<u>COOL</u>	<u>1504089</u> <u>-001</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1455</u>	"	<u>CELL 3B</u>	"	"	<u>-002</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1430</u>	"	<u>CELL 4E</u>	"	"	<u>-003</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1400</u>	"	<u>CELL 7E</u>	"	"	<u>-004</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1335</u>	"	<u>CELL 8C</u>	"	"	<u>-005</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1310</u>	"	<u>CELL 9H</u>	"	"	<u>-006</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1205</u>	"	<u>CELL 11E</u>	"	"	<u>-007</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1220</u>	"	<u>CELL 12F</u>	"	"	<u>-008</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	
"	<u>1240</u>	"	<u>CELL 13E</u>	"	"	<u>-009</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>									<input checked="" type="checkbox"/>	

Date: 4/1/15 Time: 1436 Relinquished by: Jeff Blagg

Date: 4/1/15 Time: 1825 Relinquished by: Christa Walker

Received by: Christa Walker Date: 4/1/15 Time: 1436

Received by: Chris Date: 04/02/15 Time: 0700

Remarks: Bill JFJ

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.