

NM1 - _____ 30 _____

**GENERAL
CORRESPONDENCE**

YEAR(S):

2013 – 2015



2015 DEC 3 10:36 AM
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RECEIVED OCD

2015 DEC -3 P 4: 36

November 23, 2015

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

**Re: Request to Retract Analytical data Tables, R360 Artesia, LLC Landfarm (NM1-30-0),
Lea County, New Mexico, August 10, 2015**

Dear Mr. Jones:

This letter is a request to retract the soil sample analytical data tables for the R360 Artesia, LLC landfarm that were submitted to the New Mexico Oil Conservation Division (OCD) on September 23, 2015. The analytical tables will be revised per the conference call on October 21, 2015. Please contact me at (956) 458-0515 if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza".

Stephanie Garza
StephanieG@R360es.com



Environmental Science Resources, LLC
10000 Santa Fe Blvd., Suite 100
Santa Fe, NM 87505
2015 R360 (TR600) Notice
www.r360.com

RECEIVED OGD

2015 NOV 18 P 1:24

November 16, 2015

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

**Re: Request to Retract Plan 1 Report, R360 Artesia, LLC Landfarm (NM1-30-0), Lea
County, New Mexico, August 10, 2015**

Dear Brad:

This letter is a request to retract the above referenced report that was submitted to the OCD on August 10, 2015. As discussed, R360 will complete additional sampling and analysis in accordance with the approved Plan. Please contact me at (956)-458-0515 if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stephanie Garza', written over a horizontal line.

Stephanie Garza
Environmental Specialist
StephanieG@R360es.com

Jones, Brad A., EMNRD

From: Stephanie Garza <StephanieG@R360es.com>
Sent: Monday, November 23, 2015 2:11 PM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley; 'Mark Larson'
Subject: Retraction Letter - Analytical data tables dated :September 23.2015
Attachments: 2015-11-23Retractionletter-4.pdf

Mr. Jones,

Please see attached retraction letter for analytical data sent on September 23, 2015. A hard copy will also be sent to Santa Fe.

Let us know if you have any questions.

Thanks,

Stephanie Garza
Environmental Specialist
stephanieg@r360es.com
956-458-0515



3 Waterway Square Place, Suite 110
The Woodlands, TX 77380
281.872.R360 (7360) Office
www.r360environmentalsolutions.com

November 23, 2015

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

**Re: Request to Retract Analytical data Tables, R360 Artesia, LLC Landfarm (NM1-30-0),
Lea County, New Mexico, August 10, 2015**

Dear Mr. Jones:

This letter is a request to retract the soil sample analytical data tables for the R360 Artesia, LLC landfarm that were submitted to the New Mexico Oil Conservation Division (OCD) on September 23, 2015. The analytical tables will be revised per the conference call on October 21, 2015. Please contact me at (956) 458-0515 if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza", written in a cursive style.

Stephanie Garza
StephanieG@R360es.com



Greenspoint Plaza 4
18945 Northbase Drive, Suite 2200
Houston, Texas 77060
281.872.R360 (7360) Office
www.r360environmentalsolutions.com

RECEIVED OCD

2015 SEP 25 A 11: 11

September 23, 2015

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: 2015 Analytical Results, R360 Artesia, LLC Landfarm (NM1-30-0), Unit B
(NW/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New
Mexico

Mr. Jones:

The enclosed data tables present laboratory results of treatment and vadose soil samples collected at the R360 Artesia, LLC (formerly Artesia Aeration) Landfarm during the first, second and third quarters of 2015. Notification will be submitted to you prior to collecting fourth quarter samples. Please note Mr. Wayne Crawley retired therefore future correspondence for the landfarm (NM1-30-0) should be sent to my attention. You may contact me at (956) 458-0515 or by email at StephanieG@r360es.com.

Sincerely,

R360 Environmental Solutions, LLC

A handwritten signature in black ink, appearing to read "Stephanie Garza", written over a white background.

Stephanie Garza

Attachments

Table 1
Treatment Zone Soil Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

Cell	Date	Depth (feet)	Benzene (mg/Kg)	BTEX (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)	ORO (mg/Kg)	TPH (mg/Kg)	TRPH (mg/Kg)	Chloride (mg/Kg)
Permitted Level:			0.2	50				500	2,500	1,000
1	02/24/2015	0 - 1	*	*	*	*	*	*	*	*
	04/14/2015	0 - 1	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	--	198
2	02/24/2015	0 - 1	*	*	*	*	*	*	*	*
	04/14/2015	0 - 1	*	*	*	*	*	*	*	*
3	02/24/2015	0 - 1	*	*	*	*	*	*	*	*
	04/14/2015	0 - 1	<0.00114	<0.00227	<28.4	<28.4	<28.4	<28.4	--	230
4	02/24/2015	0 - 1	*	*	*	*	*	*	*	*
	04/14/2015	0 - 1	<0.00115	<0.00230	<28.7	<28.7	<28.7	<28.7	--	133
5	02/24/2015	0 - 1	<0.00558	<0.0167	388	<0.203	--	388	370	144
	04/14/2015	0 - 1	<0.00116	<0.00233	<29.1	<29.1	<29.1	<29.1	--	1,070
6	02/24/2015	0 - 1	<0.00491	<0.0146	120	<0.200	--	120	57.7	282
	04/14/2015	0 - 1	**	**	**	**	**	**	**	**

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Permian Basin Environmental Lab, Midland, Texas by EPA SW-846 methods 8021B (BTEX), 8015M (GRO and DRO), 418.1 (TRPH) and 300.0 (chloride)

Results are reported in milligram per Kilograms (mg/Kg) equivalent to parts per million (ppm)

RL: Reporting limit (equivalent to practical quantification limit (PQL))

*Cell approved for additional lift but no soil added to cell at the time of sample collection

**Soil removed from cell and placed as additional layer on Cells 1, 3 and 4

1. <: Less than method detection limit
2. Depth in feet below treated soil layer
3. --: No data available

Table 2
Vadose Zone Soil BTEX and TPH Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

Cell	Date	Depth (feet)	RL	Benzene (mg/Kg)	RL	Ethylbenzene (mg/Kg)	RL	Toluene (mg/Kg)	RL	Xylenes (mg/Kg)	RL	GRO (mg/Kg)	RL	DRO (mg/Kg)	RL	ORO (mg/Kg)	RL	TPH (mg/Kg)	RL	TRPH (mg/Kg)	RL	Chloride (mg/Kg)		
Background:																								
1	02/24/2015	2-3	0.00538	<0.00538	0.0161	<0.0161	0.0161	<0.0161	0.0161	<0.0161	0.0161	<0.0161	0.202	<0.202	10.3	<10.3	--	--	10.3	<10.3	10.6	<10.6	5.15	7.90
	04/14/2015	2-3	0.00109	<0.00109	0.00109	<0.00109	0.00217	<0.00217	0.00326	<0.00326	27.2	<27.2	27.2	<27.2	27.2	<27.2	27.2	<27.2	100	<100	1.09	5.78		
	08/04/2015	2-3	0.0200	<0.0200	0.0200	<0.0200	0.0200	<0.0200	0.0200	<0.0200	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0			4.00	<20.0		
2	02/24/015	2-3	0.00624	<0.00624	0.0187	<0.0187	0.0187	<0.0187	0.0187	<0.0187	0.246	<0.246	12.7	<12.7	--	--	12.7	<12.7	12.9	20.9	6.40	35.2		
	06/16/2015	2-3	0.0200	<0.0200	0.0200	<0.0200	0.0200	<0.0200	0.0200	0.0200	4.0	<4.00	50.0	<50.0	--	--	50.0	<50.0	10.0	<20.0	25.0	256		
	08/04/2015	2-3	0.0200	<0.0200	0.0200	<0.0200	0.0200	<0.0200	0.0200	<0.0200	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0			4.00	<20.0		
3	02/24/015	2-3	0.00543	<0.00543	0.0163	<0.0163	0.0163	<0.0163	0.0163	<0.0163	0.216	<0.216	11.8	<11.8	--	--	11.8	<11.8	12.0	<12.0	52.7	98.8		
	04/14/2015	2-3	0.00110	<0.00110	0.00110	<0.00110	0.00220	<0.00220	0.00330	<0.00330	27.5	<27.5	27.5	<27.5	27.5	<27.5	27.5	<27.5	100	<100	1.10	33.7		
	08/04/2015	2-3	0.0200	<0.0400	0.0200	<0.0400	0.0200	<0.0400	0.0200	<0.0400	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0			4.00	<20.0		
4	02/24/015	2-3	0.00506	<0.00506	0.0152	<0.0152	0.0152	<0.0152	0.0152	<0.0152	0.196	<0.193	9.7	<9.73	--	--	9.7	<9.73	9.92	<9.92	4.67	32.3		
	04/14/2015	2-3	0.00110	<0.00110	0.00110	<0.00110	0.0	<0.00220	0.00330	<0.00330	27.5	<27.5	27.5	<27.5	27.5	<27.5	27.5	<27.5	100	158	1.10	70.0		
	08/04/2015	2-3	0.0200	<0.0400	0.0200	<0.0400	0.0200	<0.0400	0.0200	<0.0400	50.0	<50.0	50.0	<50.0	50.0	<50.0	50.0	<50.0			4.00	<20.0		
5	02/24/015	2-3	0.00546	<0.00546	0.0164	<0.0164	0.0164	<0.0164	0.0164	<0.0164	0.206	<0.206	10.9	186	--	--	10.9	186	10.8	333	54.4	536		
	04/14/2015	2-3	0.0016	<0.00116	0.0016	<0.00116	0.00233	<0.00233	0.00339	<0.00339	29.1	<29.1	29.1	<29.1	29.1	<29.1	29.1	<29.1	100	<100	1.16	100		
	08/04/2015	2-3	0.0200	<0.0400	0.0200	<0.0400	0.0200	0.0802	0.0200	0.207	50.0	<250	50.0	1,200	1,200	50.0	1,200	50.0	1,200			4.00	379	
6	02/24/015	2-3	0.00482	<0.00482	0.0145	<0.0145	0.0145	<0.0145	0.0145	<0.0145	0.193	<0.193	10.1	<10.1	--	--	10.1	<10.1	10.2	<10.2	48.6	69.8		
	04/14/2015	2-3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	08/04/2015	2-3																						

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX, Permian Basin Environmental Lab, Midland, TX and Trace Analysis, Inc., Lubbock, TX

BTEX by EPA SW-846 method 8021B (BTEX)

TPH by EPA SW-846 method 8015M (GRO and DRO)

TRPH by EPA SW-846 method 418.1

Results are reported in milligram per Kilograms (mg/Kg).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

1. <: Less than method reporting limit

2. Depth in feet below native ground surface

Table 3
Vadose Soil Metals Analytical Data Summary
R360 Artesia LLC Landfarm (NM1-30-0)
Lea County, New Mexico

Cell	Date	Depth (feet)	RL	Arsenic (mg/Kg)	RL	Barium (mg/Kg)	RL	Cadmium (mg/Kg)	RL	Chromium (mg/Kg)	RL	Lead (mg/Kg)	RL	Mercury (mg/Kg)	RL	Selenium (mg/Kg)	RL	Silver (mg/Kg)
Background:																		
1	11/30/2012	2 - 3	1.05	2.31	105	174	0.315	<0.105	2.10	5.53	0.315	2.82	0.0354	<0.0142	0.525	0.398	0.210	<0.105
	03/26/2013	2 - 3	1.08	5.16	2.16	70.0	0.324	0.290	2.16	13.7	0.324	7.65	0.0406	<0.0162	0.541	2.49	0.216	<0.108
	03/12/2014	2 - 3	0.645	3.77	1.29	59.7	0.193	0.131	1.29	12.9	0.193	5.60	0.0220	<0.00879	0.322	0.785	0.129	<0.0645
	04/04/2015	2 - 3	0.008	1.60	0.001	19.0	0.001	<0.001	0.091	3.50	0.011	2.50	0.00025	<0.00025	0.004	<0.004	0.005	<0.005
2	11/30/2012	2 - 3	1.03	3.67	103	137	0.310	<0.103	2.07	8.23	0.310	3.83	0.0371	<0.0149	0.517	0.455	0.207	<0.103
	03/26/2013	2 - 3	1.01	4.46	101	1,160	0.303	0.246	2.02	7.73	0.303	3.76	0.0386	<0.0154	0.504	1.32	0.202	<0.101
	03/12/2014	2 - 3	1.10	4.65	2.21	198	0.331	0.133	2.21	6.37	0.331	3.05	0.0434	<0.0174	0.552	0.581	0.221	<0.110
	06/16/2015	2 - 3	2	<2.00	1	55.5	0.5	<0.500	0.5	4.14	1	<1.0	0.025	<0.0250	2	<2.00	0.5	<0.500
3	11/30/2012	2 - 3	0.896	1.65	1.79	40.7	0.269	<0.0896	1.79	5.88	0.269	2.88	0.0362	<0.0145	0.488	0.370	0.179	<0.0896
	03/26/2013	2 - 3	0.989	2.95	1.98	49.3	0.297	0.198	1.98	8.91	0.297	5.29	0.0367	<0.0147	0.494	1.39	0.198	<0.0989
	03/12/2014	2 - 3	0.662	4.40	132	1,120	0.199	0.136	1.32	4.87	0.199	2.21	0.0241	<0.00964	0.331	0.571	0.132	<0.662
	04/04/2015	2 - 3	0.008	2.50	0.001	33.0	0.001	<0.001	0.091	6.20	0.011	4.00	0.00025	<0.00025	0.004	<0.004	0.005	<0.005
4	11/30/2012	2 - 3	0.909	1.02	1.82	16.4	0.273	<0.0909	1.82	4.21	0.273	2.08	0.0369	<0.0148	0.454	0.245	0.182	<0.0909
	03/26/2013	2 - 3	0.975	1.30	1.95	25.0	0.292	0.127	1.95	4.56	0.292	4.36	0.0403	<0.0161	0.487	0.765	0.195	<0.0975
	03/12/2014	2 - 3	0.668	1.87	1.34	35.7	0.200	0.0927	1.34	7.36	0.200	4.47	0.0240	<0.00959	0.334	0.553	0.134	<0.0668
	04/04/2015	2 - 3	0.008	2.70	0.001	82.0	0.001	<0.001	0.091	5.70	0.011	3.60	0.00025	<0.00025	0.004	<0.004	0.005	<0.005
5	11/30/2012	2 - 3	1.05	1.94	105	605	0.314	0.181	2.09	7.19	0.314	4.12	0.0383	<0.0153	0.523	0.453	0.209	<0.105
	03/22/2013	2 - 3	0.927	1.20	1.85	20.9	0.278	0.102	1.85	3.71	0.278	2.23	0.0394	<0.0158	0.463	0.756	0.185	<0.0927
	03/12/2014	2 - 3	1.19	3.98	2.38	198	0.357	0.195	2.38	11.4	0.357	6.65	0.0472	0.0204	0.595	1.05	0.238	<0.119
	04/04/2015	2 - 3	0.008	2.00	0.001	250	0.001	<0.001	0.091	4.20	0.011	2.60	0.00025	<0.00025	0.004	<0.004	0.005	<0.005
6	11/30/2012	2 - 3	0.873	1.21	1.75	19.4	0.262	<0.0873	1.75	4.02	0.262	2.15	0.0341	<0.0136	0.437	0.276	0.175	<0.0873
	03/23/2013	2 - 2.7	0.940	1.32	1.88	26.7	0.282	<0.0940	1.88	4.03	0.282	2.17	0.0380	<0.0152	0.470	0.610	0.188	<0.094
	03/12/2014	2 - 3	1.18	3.18	2.35	300	0.353	0.120	2.35	6.61	0.353	3.24	0.0228	<0.00913	0.588	0.626	0.235	<0.118
	04/04/2015	2 - 3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, TX and Permian Basin Environmental Lab, Midland, TX by EPA SW-846 60108 and 7471

Results are reported in milligram per kilogram (mg/Kg) equivalent to parts per million (ppm).

RL: Reporting limit (equivalent to practical quantification limit (PQL))

<: Not detected at method detection limit

-- No data available

* Treated soil removed from cell therefore no vadose sample was collected

Table 4
Vadose Soil Anion and Cation Analytical Data Summary
R360 Artesia LLC Landfarm (NM1-030)
Lea County, New Mexico

Cell	Sample Date	Depth (Feet)	RL	Calcium (mg/Kg)	RL	Magnesium (mg/Kg)	RL	Potassium (mg/Kg)	RL	Sodium (mg/Kg)	RL	Alkalinity (mg/Kg)	RL	Chloride (mg/Kg)	RL	Sulfate (mg/Kg)
Background:																
1	11/19/2012	2 - 3	656	149,000	656	2,730	656	1,590	13.1	75.5	52.7	809	5.30	7.51	10.6	19.6
	06/13/2013	2 - 3	1,270	257,000	12.7	807	12.7	206	12.7	58.8	54.6	116	54.6	361	10.9	162
	03/12/2014	2 - 3	80.6	14,300	8.06	2,570	8.06	3,570	8.06	105	61.9	186	6.11	57.9	12.2	140
	04/14/2015	2 - 3	0.081	1,960	0.036	620	0.060	815	0.043	130	2.00	4,500	1.09	5.78	0.5	48.3
2	11/19/2012	2 - 3	647	127,000	647	3,920	647	2,430	647	906	54.7	1,130	5.46	59.9	10.9	320
	06/13/2013	2 - 3	1,340	163,000	13.4	696	13.4	319	13.4	103	56.7	5,080	5.60	100	11.2	424
	03/12/2014	2 - 3	690	208,000	13.8	4,300	13.8	1,540	13.8	525	56.1	1,310	5.20	124	10.4	392
	06/16/2015	2 - 3	10	20,000	10	1,060	10	890	10	122	20	530	25.00	256	25	165
3	11/19/2012	2 - 3	560	7,710	560	1,360	560	1,590	560	964	50.7	1,470	5.11	181	10.2	345
	06/13/2013	2 - 3	1,270	229,000	63.7	9,720	63.7	999	63.7	193	55.0	1,440	8.59	8.59	4.78	478
	03/12/2014	2 - 3	827	223,000	827	4,800	8.27	911	8.27	436	63.5	1,250	5.36	118	10.7	578
	04/14/2015	2 - 3	0.081	1,090	0.036	1,430	0.060	1,650	0.043	505	2.00	4,000	1.10	33.7	0.5	148
4	11/19/2012	2 - 3	11.4	525	11.4	814	11.4	1,020	11.4	75.0	50.3	71.0	5.09	72.1	10.2	77.6
	06/13/2013	2 - 3	12.5	889	12.5	921	12.5	1,250	12.5	22.3	50.7	53.2	5.06	103	10.1	29.9
	03/12/2014	2 - 3	83.5	12,400	83.5	1,980	83.5	1,400	8.35	210	64.7	116	5.53	87.7	111	1,340
	04/14/2015	2 - 3	0.081	35,200	0.036	6,920	0.060	1,650	0.043	198	2.00	4,000	1.10	70.0	0.5	158
5	11/19/2012	2 - 3	654	32,100	654	2,970	654	1,600	654	2,160	55.4	562	55.0	2,020	110	1,770
	06/13/2013	2 - 3	7.50	451	7.50	591	7.50	85	7.50	248	59.3	103	5.99	18.3	12.0	13.5
	03/12/2014	2 - 3	744	86,100	14.9	2,410	14.9	2,290	14.9	609	62.8	260	59.4	624	11.9	332
	04/14/2015	2 - 3	0.081	23,300	0.036	1,860	0.060	1,020	0.043	2,910	2.00	4,500	1.16	100	0.5	62.8
6	11/19/2012	2 - 3	546	668	546	663	546	884	546	23.6	50.4	84.7	5.09	58.9	10.2	22.5
	06/13/2013	2 - 3	12.2	889	12.2	579	12.2	822	12.2	37.1	51.4	189	5.11	13.8	10.2	<10.2
	03/12/2014	2 - 3	735	102,000	14.7	2,270	14.7	1,510	14.7	420	62.2	275	5.49	256	11.0	166
	04/14/2015	2 - 3	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Notes: Analysis performed by DHL Analytical, Round Rock, Texas and Trace Analysis, Inc., Lubbock, Texas by EPA SW-846 methods 6010B, 300.0 and 310.0.
Results are reported in milligram per kilogram (mg/Kg) equivalent to parts per million (ppm)
RL: Reporting limit (equivalent to practical quantification limit (PQL))
<: Not detected at method RL
-- No data available

Jones, Brad A., EMNRD

From: Stephanie Garza <StephanieG@R360es.com>
Sent: Monday, November 16, 2015 3:52 PM
To: Jones, Brad A., EMNRD
Subject: RE: Request to retract plan 1 Report, R360 Artesia, LLC Landfarm (NM1-30-0), Lea County, New Mexico, August 10, 2015
Attachments: 11-16-15 R360 Artesia Landfarm-Plan 1 Retraction.pdf

Mr. Jones,

I apologies for the previous email in regards to it reading "via mail". We will send the attached as a hard copy to the Santa Fe office.

Thanks,

Stephanie Garza
Environmental Specialist
stephanieg@r360es.com
956-458-0515

From: Stephanie Garza
Sent: Monday, November 16, 2015 1:37 PM
To: 'brad.a.jones@state.nm.us'
Cc: Wayne Crawley; Mark Larson
Subject: Request to retract plan 1 Report, R360 Artesia, LLC Landfarm (NM1-30-0), Lea County, New Mexico, August 10, 2015

Mr. Jones,

Please see attached plan 1 retraction letter for R360 Artesia, LLC Landfarm. This letter will also be sent Via mail.

If you have any questions please let us know.

Thanks,

Stephanie Garza
Environmental Specialist
stephanieg@r360es.com
956-458-0515



3 Waterway Square Place, Suite 110
The Woodlands, TX 77380
281.872.R360 (7360) Office
www.r360environmentalsolutions.com

November 16, 2015

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

**Re: Request to Retract Plan 1 Report, R360 Artesia, LLC Landfarm (NM1-30-0), Lea
County, New Mexico, August 10, 2015**

Dear Brad:

This letter is a request to retract the above referenced report that was submitted to the OCD on August 10, 2015. As discussed, R360 will complete additional sampling and analysis in accordance with the approved Plan. Please contact me at (956)-458-0515 if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza", written over a faint, larger version of the signature.

Stephanie Garza
Environmental Specialist
StephanieG@R360es.com

Jones, Brad A., EMNRD

From: Stephanie Garza <StephanieG@R360es.com>
Sent: Monday, November 16, 2015 12:37 PM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley; Mark Larson
Subject: Request to retract plan 1 Report, R360 Artesia, LLC Landfarm (NM1-30-0),Lea County, New Mexico, August 10, 2015
Attachments: 11-16-15 R360 Artesia Landfarm-Plan 1 Retraction.pdf

Mr. Jones,

Please see attached plan 1 retraction letter for R360 Artesia, LLC Landfarm. This letter will also be sent Via mail.

If you have any questions please let us know.

Thanks,

Stephanie Garza
Environmental Specialist
stephanieg@r360es.com
956-458-0515



3 Waterway Square Place, Suite 110
The Woodlands, TX 77380
281.872.R360 (7360) Office
www.r360environmentalsolutions.com

November 16, 2015

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

Re: Request to Retract Plan 1 Report, R360 Artesia, LLC Landfarm (NM1-30-0), Lea County, New Mexico, August 10, 2015

Dear Brad:

This letter is a request to retract the above referenced report that was submitted to the OCD on August 10, 2015. As discussed, R360 will complete additional sampling and analysis in accordance with the approved Plan. Please contact me at (956)-458-0515 if you have questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephanie Garza", written over a faint, larger version of the signature.

Stephanie Garza
Environmental Specialist
StephanieG@R360es.com



11/2/2015 10:50

11/2/2015 10:57

November 2, 2015

Mr. Brad Jones
Environmental Bureau
Oil Conservation Division
NM Energy, Mining and Natural Resources Dept.
1220 S. St. Francis Drive
Santa Fe, NM 87505

**Re: Retraction of Plan 1 Report Submitted August 15, 2015
Former Artesia Aeration Facility
Lea County, New Mexico
Permit NM1-030: Commercial Surface Waste Management Facility
R360 Artesia, LLC**

Mr. Jones:

This letter is being sent to you pursuant to our telephone conversation on October 21, 2015. Based on our discussion during that call, R360 Artesia, LLC (R360) would like to retract the Larson & Associates, Inc. (LAI) report entitled "*Plan 1 Report, R360 Artesia, LLC Landfarm, NM-01-0030, Lea County, New Mexico*" which is dated August 10, 2015. The report will be modified in accordance with our telephone discussion and will be resubmitted at a later date for your review. R360 will finalize the execution of Plan 1 prior to resubmitting the report, as discussed during our telephone conference.

If you have any questions or comments regarding this letter, please feel free to contact me at my office at 281-873-3239 or by cell phone at 281-734-1572.

Sincerely,
R360 Environmental Solutions, LLC

A handwritten signature in black ink, appearing to be "B. Moore", written over a horizontal line.

Brian K. Moore
Director, Regulatory Affairs

R360 Environmental Solutions
3 Waterway Square Place
Suite 110
The Woodlands, Texas 77380
281-873-7360



August 15, 2015

Mr. Brad Jones
Oil Conservation Division
NM Energy, Minerals and Natural Resources Dept.
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Artesia Aeration
R360 Artesia, LLC
Permit NM-01-0030
Lea County

Dear Mr. Jones:

R360 Environmental Solutions (R360) is submitting the attached report to document the activities that have been conducted at the Artesia Aeration facility located near Maljamar, NM. These activities were conducted in accordance with the discussions between yourself and Mr. Wayne Crawley of R360.

If you have questions or comments regarding the enclosed report, please do not hesitate to contact me at 281-734-1572.

Sincerely,
R360 Environmental Solutions

A handwritten signature in black ink, appearing to be "Brian Moore", is written over the typed name.

Brian Moore
Director, Regulatory Affairs

R360 Environmental Solutions
3 Waterway Square Place
Suite 110
The Woodlands, Texas 77380
281-873-7360

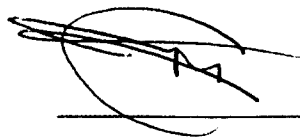
PLAN 1 REPORT
R360 Artesia, LLC Landfarm
NM-01-0030
Lea County, New Mexico

LAI Project Number 15-0121-03

August 10, 2015

Prepared for: R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701



Mark J. Larson, C.P.G. 10490
President/Sr. project Manager

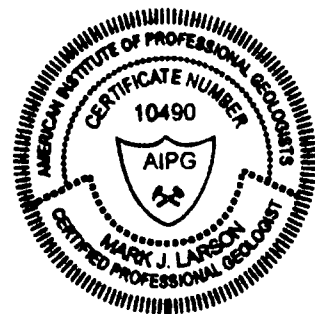


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1.0 EXECUTIVE SUMMARY

R360 Artesia, LLC (R360) submits this Plan 1 report to the New Mexico Oil Conservation Division (OCD) for its commercial surface waste management facility (NM1-030-0). The report was prepared by Larson & Associates, Inc.

The following activities are documented in the report:

- The perimeter berm was reconstructed to the permit specifications of 5 feet high and 30 feet at the base;
- The buffer zone was constructed on the north side of Cells 1 through 4 between the cells and perimeter berm;
- Temporary cell berms were established on the north sides of Cells 1 through 4 according to the permit requirements of 5 feet high and 30 feet at the base;
- Approval was granted from OCD to add an additional 6 inch lift of soil to Cells 1 through 4 with soil acquired from the area of shallow groundwater in Cell 5 and from Cell 6;
- Composite vadose samples consisting of 4 discrete samples from 2 to 3 feet below ground surface were collected from the buffer zones of Cells 1 through 4 following removal of treated soil and were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), total petroleum hydrocarbons and chloride, by OCD approved methods.

The following conclusions are documented in the report:

1. Ethylbenzene (0.00317 mg/Kg) was reported above the RL (0.00106 mg/Kg) in the buffer zone composite sample from Cell 4;
2. Total xylenes was reported in the buffer zone composite sample from Cell 3 (0.0173 mg/Kg) and Cell 4 (0.00331 mg/Kg) and above the RL of 0.00326 mg/Kg (Cell 3) and 0.00319 mg/Kg (Cell 4);
3. TRPH was less than RL in buffer zone composite samples from Cells 1 through 4;
4. Chloride was reported between 8.51 and 161 mg/Kg in buffer zone composite samples from Cell 1 through 4.

R360 respectfully requests approval for the following recommendations:

1. Natural attenuation for ethylbenzene and total xylenes concentrations reported in the buffer zone vadose samples from Cells 3 and 4.
This request is supported by groundwater exceeding at least 50 to 100 feet below ground surface; and
2. No further action for the chloride concentrations in the buffer zone vadose samples.
This request is supported by chloride concentration below the New Mexico Water Quality Control Commission (WQCC) domestic water quality standard of 250 milligrams per liter (mg/L).

2.0 INTRODUCTION

This report is prepared on behalf of R360 Artesia, LLC (R360) to present the results of Plan 1 (Berm and Buffer Plan) for the Artesia Aeration Landfarm (Site). The Site is a New Mexico Oil Conservation Division (OCD) permitted (NM-1-30-0) commercial surface waste management facility located in Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East in Lea County, New Mexico. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

2.1 Background

On November 29, 2014, Larson & Associates, Inc. (LAI), on behalf of R360, submitted Plan 1 to the OCD to address the following:

- 1) Perimeter berm
- 2) Cell lift approval
- 3) Removal of the contaminated soils within the 100 foot buffer zone and temporary cell berm area
- 4) Construction of temporary cell berms
- 5) Verification samples within the 100 foot buffer zone
- 6) Construction of Permanent Cell Berms

Plan1 was approved on November 24, 2015, with the following conditions:

1. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 submittal;
2. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
3. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 plan.

Appendix A presents the OCD approval.

3.0 FIELD ACTIVITIES

3.1 Perimeter Berm

The perimeter berm was repaired and rebuilt to meet permit condition 5 of the permit including height of 5 feet above grade and width of 30 feet at the base. R360 contracted Lighthouse Environmental Services, Inc. (Lighthouse) to perform this task. Lighthouse used a bulldozer to repair the perimeter berm where water and wind had deteriorated or breached the berm. The perimeter berm width and height was corrected to the permit requirements. Figure 3 presents a Site drawing showing the perimeter berm location, width and height. Appendix B presents photographs.

3.2 Additional Cell Lifts

R360 requested approval to add an additional soil lift to Cells 1 through 4. The requests were approved by OCD on September 2, 2014 (Cell 4), October 21, 2014 (Cell 1), January 14, 2015 (Cell 3) and March 23, 2015 (Cell 2). The soil volumes for Cells 1 through 4, based on the cell area and lift thickness (6 inches), were 1,708 (Cell 1), 1,818 (Cell 2), 3,078 (Cell 3) and 7,208 (Cell 4) cubic yards. Appendix A presents the OCD approvals for additional lift requests.

During March and April 2015, Lighthouse removed soil from the area overlying shallow groundwater in Cell 5 (southeast corner) and Cell 6 and spread the soil in an additional 6 inch lift in Cells 1, 3 and 4. No soil was added to Cell 2 except for the buffer zone. Figure 3 presents the area of Cells 5 and 6 where soil was removed. Appendix B presents photographs.

3.3 Buffer Zone Soil Removal and Temporary Cell Berms

Following perimeter berm construction Lighthouse removed soils from the buffer zone north of Cells 1 through 4. The width of the buffer zone was marked with grade stakes. Lighthouse used a bulldozer to push up soil from the buffer zone and a loader to evenly spread the soil across the respective cells. A temporary cell berm was erected adjacent to the north edge of Cells 1 through 4. The temporary cell berms were constructed with soil acquired from an area at the facility that has not been used for placement of contaminated soil. The temporary cell berms were constructed to the permit requirement of 5 feet high and 30 feet wide at the base. Figure 3 presents the berm and buffer zone drawing. Appendix B presents photographs.

3.4 Verification Samples within Buffer Zone

Verification samples were collected from the buffer zone following removal of treated soil. The purpose of the verification samples is to confirm that the soils in the vadose zone have not been affected by the treatment zone soils. Four (4) discrete soil samples were collected from the 70 foot buffer zone north of Cells 1 through 4 between 2 and 3 feet below ground surface (bgs). The discrete samples for each cell buffer zone were composited into a single sample for a total of 4 composite samples (one for each cell buffer zone). The samples were under preservation and chain of custody to Permian Basin Environmental Lab (PBELAB), a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory, located in Midland, Texas. The laboratory analyzed the composite samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA SW-846 method 8021B, total petroleum hydrocarbons (TRPH) by EPA SW-846 method 418.1 and chloride by EPA method E300. Table 1 presents the

analytical data summary. Figure 3 presents the discrete soil sample locations for Cells 1 through 4. Appendix C presents the laboratory reports.

The composite sample analysis were compared to the higher of the background concentration or practical quantitation limit (PQL) which is equivalent to the reporting limit (RL) to determine if a release to the vadose zone has occurred. On November 5, 2014, R360 submitted a plan (Plan 4) to the OCD and proposed to use analytical data from two (2) background samples (8 and 10) for the comparison. Table 2 presents the background organic analytical data summary. Table 3 presents the background inorganic and TRPH analytical data summary.

Referring to Table 1, ethylbenzene was reported at 0.00317 milligrams per kilogram (mg/Kg) and above the RL (0.00106 mg/Kg) in the buffer zone sample from Cell 3. Total xylenes was reported at 0.0173 mg/Kg (Cell 3) and 0.00331 mg/Kg (Cell 4) and above the RL of 0.00326 mg/Kg (Cell 3) and 0.00319 mg/Kg (Cell 4). TRPH was less than RL in buffer zone composite samples from Cells 1 through 4. Chloride ranged from 8.51 mg/Kg (Cell 4) to 161 mg/Kg (Cell 2) and exceeded the RL and background concentration (<5.04 mg/Kg).

4.0 CONCLUSIONS

1. The perimeter berm was repaired and rebuilt to the permit requirements of 30 feet wide at the base and 5 feet high;
2. Treated soil was removed from the 70 foot buffer zone at Cells 1 through 4 and spread evenly across the respective cells;
3. Treated soil was removed from the area of shallow groundwater in the southeast corner of Cell 5 and from Cell 6 and spread in a 6 inch lift on Cells 1, 3 and 4 following approval from OCD to add another lift of soil to the cells;
4. No soil was added to Cell 2 except for the buffer zone;
5. Temporary cell berms were constructed adjacent to the north sides of Cells 1 through 4 to the permit requirements of 30 feet wide at the base and 5 feet high;
6. Ethylbenzene (0.00317 mg/Kg) was reported above the RL (0.00106 mg/Kg) in the buffer zone composite sample from Cell 4;
7. Total xylenes was reported in the buffer zone composite sample from Cell 3 (0.0173 mg/Kg) and Cell 4 (0.00331 mg/Kg) and above the RL of 0.00326 mg/Kg (Cell 3) and 0.00319 mg/Kg (Cell 4);
8. Chloride was reported between 8.51 and 161 mg/Kg in buffer zone composite samples from Cell 1 through 4.

5.0 RECOMMENDATIONS

R360 requests OCD approval for natural attenuation of the ethylbenzene and total xylenes concentrations reported in the buffer zone vadose samples from Cells 3 and 4. This request is supported by groundwater exceeding at least 50 to 100 feet below ground surface. Chloride concentrations in the buffer zone vadose samples are below the New Mexico Water Quality Control Commission (WQCC) domestic water quality standard of 250 milligrams per liter (mg/L) therefore R360 requests no further action for the chloride.

Tables

Table 1
Buffer Zone Vadose Soil Analytical Data Summary
R360 Artesia LLC Landfarm (NM-1-030)
Lea County, New Mexico

Cell	Date	Depth	Reporting Limit	Benzene (mg/Kg)	Reporting Limit	Ethylbenzene (mg/Kg)	Reporting Limit	Toluene (mg/Kg)	Reporting Limit	Xylenes (mg/Kg)	Reporting Limit	BTEX (mg/Kg)
1	03/12/2015	2 - 3	0.00111	<0.00111	0.00111	<0.00111	0.00222	<0.00222	0.00222	<0.00222	0.00111	<0.00111
2	04/10/2015	2 - 3	0.00105	<0.00105	0.00105	<0.00105	0.00211	<0.00211	0.00316	<0.00316	0.00105	<0.00105
3	03/12/2015	2 - 3	0.00109	<0.00109	0.00109	<0.00109	0.00217	<0.00217	0.00326	0.0173	0.00109	0.0173
4	03/12/2015	2 - 3	0.00106	<0.00106	0.00106	0.00317	0.00213	<0.00213	0.00319	0.00331	0.00106	0.00648

Cell	Date	Depth	Reporting Limit	TRPH (mg/Kg)	Reporting Limit	Chloride (mg/Kg)
1	03/12/2015	2 - 3	100	<100	1.11	78.3
2	04/10/2015	2 - 3	100	<100	1.05	161
3	03/12/2015	2 - 3	100	<100	1.09	18.3
4	03/12/2015	2 - 3	100	<100	1.06	8.51

Notes: Analysis performed by Permian Basin Environmental Lab, Midland, Texas and Cardinal Laboratories, Hobbs, New Mexico

Results are reported in milligram per Kilograms (mg/Kg).

BTEX analysis was performed by SW846 method 8021B

TRPH analysis was performed by SW846 method 418.1

Chloride analysis was performed by 300.0

1. <: Less than reporting limit (RL)

2. Depth in feet below native ground surface

Bold indicates analyte detected above the reporting limit

Table 2
Background Organic and PCB Analytical Data Summary
R360 Artesia LLC Landfarm
Lea County, New Mexico

Sample	Date	Depth feet	Benzene	Toluene	Carbon tetra chloride	1,2-Dichloro ethane	1,1-Dichloro ethylene	Tetrachloro ethylene	Trichloro ethylene	Ethyl benzene	Total Xylenes	Methylene chloride
Mean Background Concentration:			<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.004785
PQL			0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507
Section 8	07/15/13	1 - 2	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.00450
Section 10	07/16/13	1 - 2	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00507

Sample	Date	Depth feet	Chloroform	1,1-Dichloro ethane	Ethylene bromide	1,1,1-Trichloro ethane	1,1,2-Trichloro ethane	1,1,2,2-Tetrachloroethane	Vinyl chloride
Mean Background Concentration:			<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095
PQL			0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507	0.00450 - 0.00507
Section 8	07/15/13	1 - 2	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899
Section 10	07/16/13	1 - 2	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101

Sample	Date	Depth feet	1-Methylnaphthalene	2-Methyl naphthalene	Naphthalene	Benzo[a] pyrene	2,3,4,6-Tetrachloro phenol	2,4,5-Trichloro phenol	2,4,6-Trichloro phenol	2,4-Dichloro phenol	2,4-Dimethyl phenol	2,4-Dinitro phenol	2,6-Dichloro phenol
Mean Background Concentration:			<0.01005	<0.01005	<0.01005	<0.01005	<0.01005	<0.01005	<0.01005	<0.01005	<0.01005	<0.0502	<0.01005
PQL			0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.132 - 0.133	0.0266 - 0.0268
Section 8	07/15/13	1 - 2	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.00999	<0.0500	<0.00999
Section 10	07/16/13	1 - 2	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0504	<0.0101

Sample	Date	Depth feet	2-Chloro phenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-2-methyl phenol	4-Chloro-3-methyl phenol	4-Methyl phenol	4-Nitro phenol	Pentachloro phenol	Phenol	Total Phenol
Mean Background Concentration:			<0.01005	<0.01005	<0.01005	<0.0302	<0.01005	<0.0201	<0.0502	<0.01005	<0.01005	<0.01005
PQL			0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268	0.0659 - 0.0666	0.0266 - 0.0268	0.0266 - 0.0268	0.132 - 0.133	0.0266 - 0.0268	0.0266 - 0.0268	0.0266 - 0.0268
Section 8	07/15/13	1 - 2	<0.00999	<0.00999	<0.00999	<0.0300	<0.00999	<0.0200	<0.0500	<0.00999	<0.00999	<0.00999
Section 10	07/16/13	1 - 2	<0.0101	<0.0101	<0.0101	<0.0303	<0.0101	<0.0202	<0.0504	<0.0101	<0.0101	<0.0101

Sample	Date	Depth feet	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Mean Background Concentration:			<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168
PQL			0.0333 - 0.0336	0.0333 - 0.0336	0.0333 - 0.0336	0.0333 - 0.0336	0.0333 - 0.0336	0.0333 - 0.0336	0.0333 - 0.0336
Section 8	07/15/13	1 - 2	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167
Section 10	07/16/13	1 - 2	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. <: Not detected at method detection limit
2. BDL: Below method detection limit

Table 3
Background Inorganic and TRPH Analytical Data Summary
R360 Artesia LLC landfarm
Lea County, New Mexico

Sample	Date	Depth (Feet)	TRPH	Cyanide	Chloride	Fluoride	Nitrate-N	Sulfate	pH
Mean Background Concentration:			<4.90	<0.176	<5.04	<1.08	<5.04	<11	7.60
PQL			9.55 - 10.0	0.428 - 0.450	5.02 - 5.06	1.00 - 1.01	5.02 - 5.06	10.0 - 10.1	
Section 8	07/15/13	1 - 2	<4.78	<0.180	<5.06	1.16	<5.06	12	7.52
Section 10	07/16/13	1 - 2	<5.02	<0.171	<5.02	<1.00	<5.02	<10.0	7.68

Sample	Date	Depth (Feet)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese
Mean Background Concentration:			1.63	21.0	<0.117	4.81	1.45	5,380	2.87	48.0
PQL			0.983 - 0.995	1.97 - 1.99	0.298 - 0.295	1.97 - 1.99	1.97 - 1.99	61.4 - 62.2	0.295 - 0.298	1.97 - 1.99
Section 8	07/15/13	1 - 2	1.54	19.6	<0.0983	4.57	1.37	5,200	2.82	45.6
Section 10	07/16/13	1 - 2	1.71	22.4	0.136	5.05	1.53	5,560	2.92	50.4

Sample	Date	Depth (Feet)	Mercury	Selenium	Silver	Zinc
Mean Background Concentration:			<0.016	0.579	<0.099	10.35
PQL			0.0373 - 0.0406	0.491 - 0.497	0.197 - 0.199	2.46 - 2.49
Section 8	07/15/13	1 - 2	<0.0149	0.503	<0.0983	10.1
Section 10	07/16/13	1 - 2	<0.0162	0.654	<0.0995	10.6

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. <: Not detected at method detection limit

2. TRPH - Total Recoverable Hydrocarbons, Method 418.1

3. For < (less than) values, 1/2 of the detection value was used for background average calculations

Figures

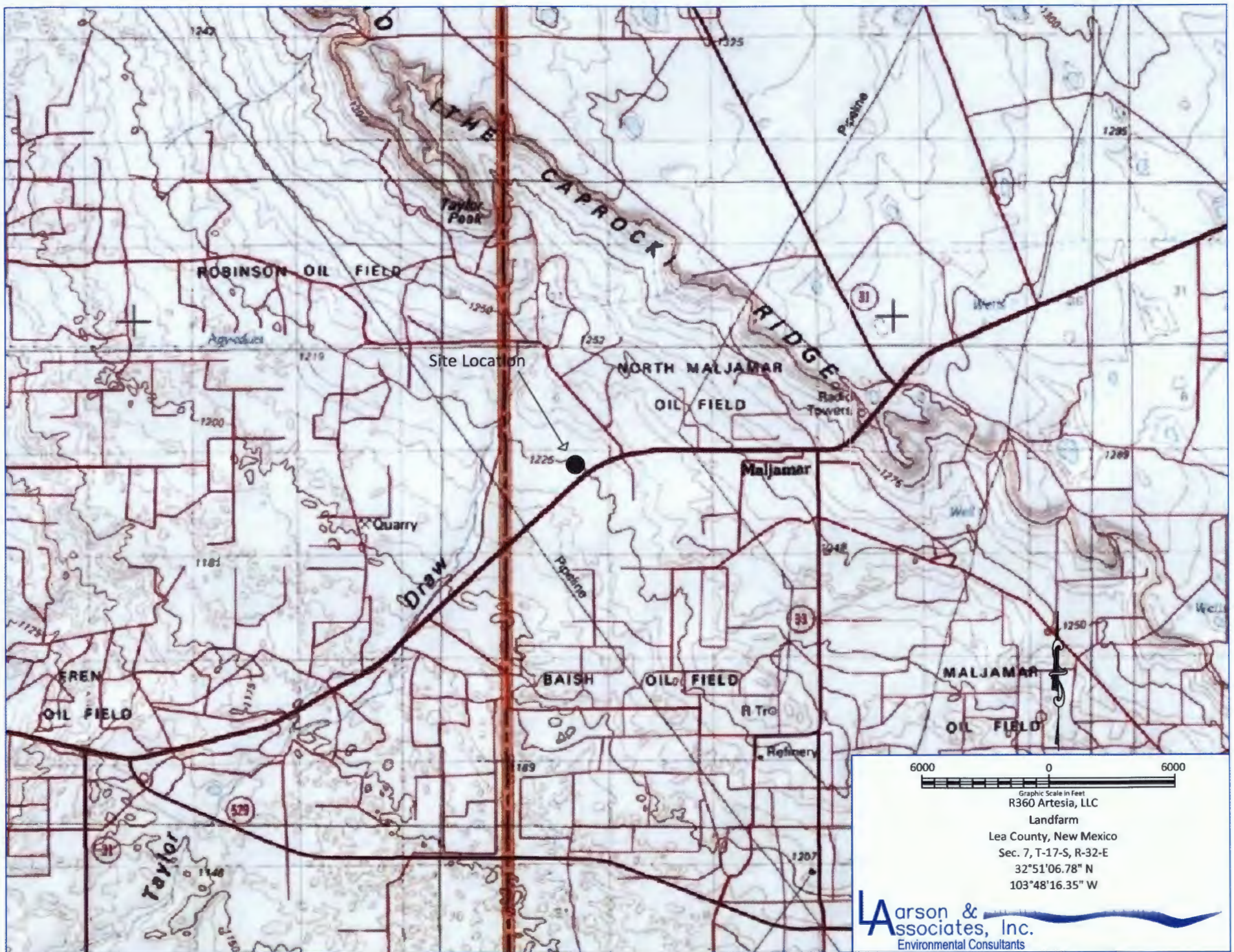


Figure 1 - Topographic Map



Figure 2 - Aerial Map



Figure 3 - Remediation Area Map

Appendix A

OCD Correspondence

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



November 24, 2014

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

RE: Request for Approval of Plan 1 – Berm and Buffer Plan
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has completed the review of Larson & Associates, Inc.'s email request Plan 1, dated November 19, 2014 and submitted on the behalf of R360 Artesia, LLC, which proposes to relocate contaminated soils out of the 100 ft. buffer area, install temporary cells berms, assess the vadose zone within the exposed buffer area, and the installation of permanent cells berms.

Based on the information provided in the request, Plan 1 is hereby approved with the following understandings and conditions:

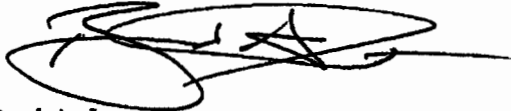
1. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 submittal;
2. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
3. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 plan.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

R360 Artesia, LLC
Permit NM1-030
November 24, 2014
Page 2 of 2

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a long horizontal line extending to the right.

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



October 21, 2014

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

**RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico**

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated October 20, 2014 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): Cell 1.

Based upon the analytical results provided, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts R360 Artesia, LLC must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to be "Brad A. Jones", written over a large, stylized scribble.

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX 79701

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David Catanach, Division Director
Oil Conservation Division



March 23, 2015

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

**RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico**

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated March 20, 2015 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 2.**

Based on the information and data provided in the request, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s) with the following understandings and conditions:

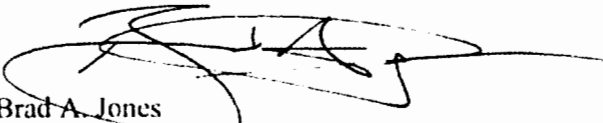
1. R360 Artesia, LLC must initiate tilling, treatment zone monitoring, and resume vadose zone monitoring with the addition of successive lifts. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.
2. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 Plan 1 submittal;
3. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
4. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 Plan 1 submittal.

R360 Artesia, LLC
Permit NM1-030
March 23, 2015
Page 2 of 2

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Maricfeld, Suite 200, Midland, TX
79701

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David Catanach, Division Director
Oil Conservation Division



January 14, 2015

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

**RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico**

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated January 10, 2015 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 3.**

Based on the information and data provided in the request, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s) with the following understandings and conditions:

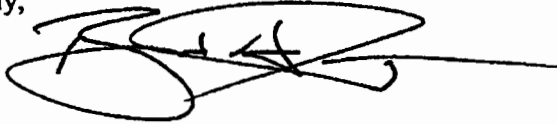
1. R360 Artesia, LLC must initiate tilling, treatment zone monitoring, and resume vadose zone monitoring with the addition of successive lifts. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.
2. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 Plan 1 submittal;
3. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
4. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 Plan 1 submittal.

R360 Artesia, LLC
Permit NM1-030
January 14, 2015
Page 2 of 2

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a long horizontal line extending to the right.

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



September 2, 2014

Mark J. Larson
Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

**RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico**

Dear Mr. Larson

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated August 29, 2014 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): Cell 4.

Based upon the analytical results provided, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s). Also, please note that with the addition of successive lifts R360 Artesia, LLC must initiate tilling and treatment zone monitoring and resume vadose zone monitoring. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

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

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Wayne Crawley, R360 Environmental Solutions, LLC, The Woodlands, TX 77380

APPENDIX B

Laboratory Reports

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**



Analytical Report

Prepared for:

Mark Larson
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Location: New Mexico
Lab Order Number: 5D13003



NELAP/TCEQ # T104704156-13-3

Report Date: 04/24/15

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Acreation Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cell 2	5D13003-01	Soil	04/10/15 10:30	04-10-2015 16:00

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Cell 2
5D13003-01 (Soil)

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P5D1502	04/13/15	04/14/15	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P5D1502	04/13/15	04/14/15	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P5D1502	04/13/15	04/14/15	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P5D1502	04/13/15	04/14/15	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P5D1502	04/13/15	04/14/15	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.9 %</i>	<i>75-125</i>		<i>P5D1502</i>	<i>04/13/15</i>	<i>04/14/15</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>93.9 %</i>	<i>75-125</i>		<i>P5D1502</i>	<i>04/13/15</i>	<i>04/14/15</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	161	1.05	mg/kg dry	1	P5D1511	04/15/15	04/15/15	EPA 300.0	
% Moisture	5.0	0.1	%	1	P5D1401	04/14/15	04/14/15	% calculation	
TPH 418.1	ND	100	mg/kg dry	10	P5D2407	04/21/15	04/21/15	EPA 418.1	SUB-3

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5D1502 - General Preparation (GC)										
Blank (P5D1502-BLK1)										
Prepared: 04/13/15 Analyzed: 04/14/15										
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0465		"	0.0600		77.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.0672		"	0.0600		112	75-125			
LCS (P5D1502-BS1)										
Prepared: 04/13/15 Analyzed: 04/14/15										
Benzene	0.0908	0.00100	mg/kg wet	0.100		90.8	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 1,4-Difluorobenzene	0.0545		"	0.0600		90.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.0676		"	0.0600		113	75-125			
LCS Dup (P5D1502-BSD1)										
Prepared: 04/13/15 Analyzed: 04/14/15										
Benzene	0.0951	0.00100	mg/kg wet	0.100		95.1	70-130	4.54	20	
Toluene	0.108	0.00200	"	0.100		108	70-130	6.50	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130	4.66	20	
Xylene (p/m)	0.223	0.00200	"	0.200		111	70-130	3.32	20	
Xylene (o)	0.112	0.00100	"	0.100		112	70-130	2.22	20	
Surrogate: 4-Bromofluorobenzene	0.0710		"	0.0600		118	75-125			
Surrogate: 1,4-Difluorobenzene	0.0589		"	0.0600		98.2	75-125			
Matrix Spike (P5D1502-MS1)										
Source: 5D13006-03 Prepared: 04/13/15 Analyzed: 04/15/15										
Benzene	0.0352	0.00108	mg/kg dry	0.108	ND	32.7	80-120			QM-05
Toluene	0.0720	0.00215	"	0.108	ND	67.0	80-120			QM-05
Ethylbenzene	0.0189	0.00108	"	0.108	ND	17.6	80-120			QM-05
Xylene (p/m)	0.0411	0.00215	"	0.215	ND	19.1	80-120			QM-05
Xylene (o)	0.0199	0.00108	"	0.108	ND	18.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.105		"	0.0645		163	75-125			S-GC
Surrogate: 1,4-Difluorobenzene	0.0623		"	0.0645		96.5	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Acretion Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch PSD1502 - General Preparation (GC)

Matrix Spike Dup (PSD1502-MSD1)	Source: 5D13006-03		Prepared: 04/13/15 Analyzed: 04/15/15							
Benzene	0.0234	0.00108	mg/kg dry	0.108	ND	21.7	80-120	40.3	20	QM-05
Toluene	0.0106	0.00215	"	0.108	ND	9.85	80-120	149	20	QM-05
Ethylbenzene	0.0127	0.00108	"	0.108	ND	11.8	80-120	39.7	20	QM-05
Xylene (p/m)	0.0389	0.00215	"	0.215	ND	18.1	80-120	5.49	20	QM-05
Xylene (o)	0.0434	0.00108	"	0.108	ND	40.4	80-120	74.1	20	QM-05
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0837</i>		<i>"</i>	<i>0.0645</i>		<i>130</i>	<i>75-125</i>			<i>S-GC</i>
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.0648</i>		<i>"</i>	<i>0.0645</i>		<i>100</i>	<i>75-125</i>			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Acretion Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5D1401 - * DEFAULT PREP *****

Blank (P5D1401-BLK1)				Prepared & Analyzed: 04/14/15						
% Moisture	ND	0.1	%							
Duplicate (P5D1401-DUP1)				Source: 5D13005-01		Prepared & Analyzed: 04/14/15				
% Moisture	14.0	0.1	%		13.0			7.41	20	
Duplicate (P5D1401-DUP2)				Source: 5D13005-14		Prepared & Analyzed: 04/14/15				
% Moisture	3.0	0.1	%		3.0			0.00	20	

Batch P5D1511 - * DEFAULT PREP *****

Blank (P5D1511-BLK1)				Prepared & Analyzed: 04/15/15						
Chloride	ND	1.00	mg/kg wet							
LCS (P5D1511-BS1)				Prepared & Analyzed: 04/15/15						
Chloride	99.3	1.00	mg/kg wet	100		99.3	80-120			
LCS Dup (P5D1511-BSD1)				Prepared & Analyzed: 04/15/15						
Chloride	97.6	1.00	mg/kg wet	100		97.6	80-120	1.71	20	
Matrix Spike (P5D1511-MS1)				Source: 5D10001-01		Prepared & Analyzed: 04/15/15				
Chloride	2250	10.8	mg/kg dry	538	1610	120	80-120			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Acretion Landfarm
Project Number: 15-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

SUB-3 Subcontract of analyte/analysis to Cardinal Laboratories.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____



Date: 4/24/2015

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



April 21, 2015

Brent Barron

Permian Basin Environmental Lab, LP

10014 SCR 1213

Midland, TX 79706

RE: SOIL SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 04/15/15 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,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 21-Apr-15 16:15
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5D13003-01	H500979-01	Soil	10-Apr-15 00:00	15-Apr-15 08:45

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal'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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 21-Apr-15 16:15
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5D13003-01
H500979-01 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
TPH 418.1	ND		100	mg/kg	10	5042108	CK	21-Apr-15	418.1	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal'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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Permian Basin Environmental Lab, LP
 10014 SCR 1213
 Midland TX, 79706

 Project: SOIL SAMPLES
 Project Number: NONE GIVEN
 Project Manager: Brent Barron
 Fax To: Not Given

 Reported:
 21-Apr-15 16:15

Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5042108 - Solvent Extraction										
Blank (5042108-BLK1)										
Prepared & Analyzed: 21-Apr-15										
TPH 418.1	ND	100	mg/kg							
LCS (5042108-BS1)										
Prepared & Analyzed: 21-Apr-15										
TPH 418.1	5500	100	mg/kg	5000		110	70-130			
LCS Dup (5042108-BSD1)										
Prepared & Analyzed: 21-Apr-15										
TPH 418.1	5280	100	mg/kg	5000		106	70-130	4.01	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- 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 SM4500Cl-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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal'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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
10014 S. County Road 1213
Midland, Texas 79706

Phone: 432-661-4184

Project Manager: Brent Barron
Company Name: PBEL
Company Address: 10014 SCR 1213
City/State/Zip: Midland Texas
Telephone No: 432-661-4184
Sampler Signature: N/A

Project Name: SUBCONTRACT
Project #: _____
Project Loc: _____
PO #: _____
Report Format: Standard TRRP NPDES

Fax No: _____
e-mail: brentbarron@pbelab.com

Page 6 of 6

(lab use only)
ORDER #: 1500978

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix		TPH 418.1	4 DAY tat		
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	NaOH/ZnAc	DW - Drinking Water	SW - Sludge			GW - Groundwater	S - Soil/Solid
	5D13003-01			04/10/15			1	X												X	

Special Instructions:

Relinquished by	Date	Time	Received by	Date	Time
Brent Barron	03/25/15	1400	<i>Justin Kenison</i>	4/15/15	8:45
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on container(s) Y N

Custody seals on container(s) Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered by Sampler/Client Rep? Y N

by Courier UPS DHL FedEx Lone Star

Temperature Upon Receipt: Received: 2.4 °C

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
10014 SCR 1213
Midland, TX 79706**

PBELAB

Analytical Report

Prepared for:

Coty Woolf
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Artesia Aeration Landfarm

Project Number: 15-0121-01

Location: New Mexico

Lab Order Number: 5C13017



NELAP/TCEQ # T104704156-13-3

Report Date: 03/24/15

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Acration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Cell 1 Comp	5C13017-01	Soil	03/12/15 14:10	03-13-2015 12:50
Cell 3 Comp	5C13017-02	Soil	03/12/15 13:00	03-13-2015 12:50
Cell 4 Comp	5C13017-03	Soil	03/12/15 14:35	03-13-2015 12:50

TPH 418.1 analysis was subcontracted to Cardinal Laboratories in Hobbs, NM.

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

Cell 1 Comp
5C13017-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00111	mg/kg dry	1	P5C2001	03/18/15	03/19/15	EPA 8021B	
Toluene	ND	0.00222	mg/kg dry	1	P5C2001	03/18/15	03/19/15	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P5C2001	03/18/15	03/19/15	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P5C2001	03/18/15	03/19/15	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P5C2001	03/18/15	03/19/15	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>104 %</i>	<i>75-125</i>		<i>P5C2001</i>	<i>03/18/15</i>	<i>03/19/15</i>	<i>EPA 8021B</i>	
<i>Surrogate: 1,4-Difluorobenzene</i>		<i>80.0 %</i>	<i>75-125</i>		<i>P5C2001</i>	<i>03/18/15</i>	<i>03/19/15</i>	<i>EPA 8021B</i>	

General Chemistry Parameters by EPA / Standard Methods

Chloride	78.3	1.11	mg/kg dry	1	P5C1703	03/15/15	03/17/15	EPA 300.0	
% Moisture	10.0	0.1	%	1	P5C1609	03/15/15	03/16/15	% calculation	
TPH 418.1	ND	100	mg/kg dry	1	P5C2401	03/23/15	03/23/15	EPA 418.1	SUB-3

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

Cell 3 Comp
5C13017-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Xylene (p/m)	0.0173	0.00217	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P5C1803	03/16/15	03/16/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		86.9 %	75-125		P5C1803	03/16/15	03/16/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.3	1.09	mg/kg dry	1	P5C1703	03/15/15	03/17/15	EPA 300.0	
% Moisture	8.0	0.1	%	1	P5C1609	03/15/15	03/16/15	% calculation	
TPH 418.1	ND	100	mg/kg dry	1	P5C2401	03/23/15	03/23/15	EPA 418.1	SUB-3

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

Cell 4 Comp
5C13017-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Toluene	ND	0.00213	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Ethylbenzene	0.00317	0.00106	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Xylene (p/m)	0.00331	0.00213	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P5C1803	03/16/15	03/16/15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		81.4 %	75-125		P5C1803	03/16/15	03/16/15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	75-125		P5C1803	03/16/15	03/16/15	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.51	1.06	mg/kg dry	1	P5C1703	03/15/15	03/17/15	EPA 300.0	
% Moisture	6.0	0.1	%	1	P5C1609	03/15/15	03/16/15	% calculation	
TPH 418.1	ND	100	mg/kg dry	1	P5C2401	03/23/15	03/23/15	EPA 418.1	SUB-3

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5C1803 - General Preparation (GC)

Blank (P5C1803-BLK1)		Prepared & Analyzed: 03/16/15								
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
<i>Surrogate: 1,4-Difluorobenzene</i>	0.0485		"	0.0500		97.1	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0476		"	0.0500		95.3	75-125			

LCS (P5C1803-BS1)		Prepared & Analyzed: 03/16/15								
Benzene	0.0950	0.00100	mg/kg wet	0.100		95.0	70-130			
Toluene	0.0888	0.00200	"	0.100		88.8	70-130			
Ethylbenzene	0.0879	0.00100	"	0.100		87.9	70-130			
Xylene (p/m)	0.151	0.00200	"	0.200		75.7	70-130			
Xylene (o)	0.0753	0.00100	"	0.100		75.3	70-130			
<i>Surrogate: 1,4-Difluorobenzene</i>	0.0520		"	0.0500		104	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0521		"	0.0500		104	75-125			

LCS Dup (P5C1803-BSD1)		Prepared & Analyzed: 03/16/15								
Benzene	0.0945	0.00100	mg/kg wet	0.100		94.5	70-130	0.538	20	
Toluene	0.0870	0.00200	"	0.100		87.0	70-130	2.00	20	
Ethylbenzene	0.0862	0.00100	"	0.100		86.2	70-130	1.92	20	
Xylene (p/m)	0.148	0.00200	"	0.200		73.8	70-130	2.55	20	
Xylene (o)	0.0740	0.00100	"	0.100		74.0	70-130	1.84	20	
<i>Surrogate: 1,4-Difluorobenzene</i>	0.0523		"	0.0500		105	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0514		"	0.0500		103	75-125			

Matrix Spike (P5C1803-MS1)		Source: 5C13001-05		Prepared & Analyzed: 03/16/15						
Benzene	0.0795	0.00106	mg/kg dry	0.106	0.00878	66.5	80-120			QM-05
Toluene	0.0722	0.00213	"	0.106	0.0786	NR	80-120			QM-05
Ethylbenzene	0.0672	0.00106	"	0.106	0.0771	NR	80-120			QM-05
Xylene (p/m)	0.115	0.00213	"	0.213	0.141	NR	80-120			QM-05
Xylene (o)	0.0556	0.00106	"	0.106	0.0453	9.65	80-120			QM-05
<i>Surrogate: 1,4-Difluorobenzene</i>	0.0558		"	0.0532		105	75-125			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0485		"	0.0532		91.2	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Acretion Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5C1803 - General Preparation (GC)

Matrix Spike Dup (P5C1803-MSD1)

Source: 5C13001-05

Prepared & Analyzed: 03/16/15

Benzene	0.0810	0.00106	mg/kg dry	0.106	0.00878	67.9	80-120	2.04	20	QM-05
Toluene	0.0747	0.00213	"	0.106	0.0786	NR	80-120	NR	20	QM-05
Ethylbenzene	0.0766	0.00106	"	0.106	0.0771	NR	80-120	NR	20	QM-05
Xylene (p/m)	0.129	0.00213	"	0.213	0.141	NR	80-120	NR	20	QM-05
Xylene (o)	0.0614	0.00106	"	0.106	0.0453	15.2	80-120	44.5	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0636		"	0.0532		120	75-125			
Surrogate: 1,4-Difluorobenzene	0.0504		"	0.0532		94.8	75-125			

Batch P5C2001 - General Preparation (GC)

Blank (P5C2001-BLK1)

Prepared: 03/18/15 Analyzed: 03/19/15

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	42.2		ug/kg	50.0		84.4	75-125			
Surrogate: 4-Bromofluorobenzene	50.2		"	50.0		100	75-125			

LCS (P5C2001-BS1)

Prepared: 03/18/15 Analyzed: 03/19/15

Benzene	0.0908	0.00100	mg/kg wet	0.100		90.8	70-130			
Toluene	0.0806	0.00200	"	0.100		80.6	70-130			
Ethylbenzene	0.0856	0.00100	"	0.100		85.6	70-130			
Xylene (p/m)	0.161	0.00200	"	0.200		80.5	70-130			
Xylene (o)	0.0844	0.00100	"	0.100		84.4	70-130			
Surrogate: 4-Bromofluorobenzene	53.3		ug/kg	50.0		107	75-125			
Surrogate: 1,4-Difluorobenzene	44.5		"	50.0		88.9	75-125			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5C1609 - * DEFAULT PREP *****

Blank (P5C1609-BLK1)				Prepared: 03/14/15 Analyzed: 03/16/15						
% Moisture	ND	0.1	%							
Duplicate (P5C1609-DUP1)				Source: 5C13001-01 Prepared: 03/14/15 Analyzed: 03/16/15						
% Moisture	13.0	0.1	%		12.0			8.00	20	
Duplicate (P5C1609-DUP2)				Source: 5C13011-02 Prepared: 03/14/15 Analyzed: 03/16/15						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P5C1609-DUP3)				Source: 5C14006-02 Prepared: 03/14/15 Analyzed: 03/16/15						
% Moisture	7.0	0.1	%		9.0			25.0	20	R3

Batch P5C1703 - * DEFAULT PREP *****

Blank (P5C1703-BLK1)				Prepared: 03/15/15 Analyzed: 03/23/15						
Chloride	ND	1.00	mg/kg wet							
LCS (P5C1703-BS1)				Prepared: 03/15/15 Analyzed: 03/23/15						
Chloride	110	1.00	mg/kg wet	125		88.4	80-120			
LCS Dup (P5C1703-BSD1)				Prepared: 03/15/15 Analyzed: 03/23/15						
Chloride	108	1.00	mg/kg wet	125		86.8	80-120	1.84	20	
Duplicate (P5C1703-DUP1)				Source: 5C13017-01 Prepared: 03/15/15 Analyzed: 03/23/15						
Chloride	80.2	1.11	mg/kg dry		78.3			2.45	20	
Matrix Spike (P5C1703-MS1)				Source: 5C13017-01 Prepared: 03/15/15 Analyzed: 03/23/15						
Chloride	355	1.11	mg/kg dry	278	78.3	99.6	80-120			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Artesia Aeration Landfarm
Project Number: 15-0121-01
Project Manager: Coty Woolf

Fax: (432) 687-0456

Notes and Definitions

SUB-3 Subcontract of analyte/analysis to Cardinal Laboratories.

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date: 3/30/2015

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



March 23, 2015

Brent Barron

Permian Basin Environmental Lab, LP

10014 SCR 1213

Midland, TX 79706

RE: SOIL SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 03/20/15 9:07.

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,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 23-Mar-15 16:44
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5C13017-01	H500753-01	Soil	12-Mar-15 00:00	20-Mar-15 09:07
5C13017-02	H500753-02	Soil	12-Mar-15 00:00	20-Mar-15 09:07
5C13017-03	H500753-03	Soil	12-Mar-15 00:00	20-Mar-15 09:07

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 23-Mar-15 16:44
--	---	------------------------------

5C13017-01
H500753-01 (Soil)

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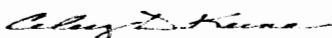
Cardinal Laboratories
Organic Compounds

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
TPH 418.1	ND		100	mg/kg	10	5032303	CK	23-Mar-15	418.1	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 23-Mar-15 16:44
--	---	------------------------------

5C13017-02
H500753-02 (Soil)

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


Cardinal Laboratories
Organic Compounds

TPH 418.1	ND		100	mg/kg	10	5032303	CK	23-Mar-15	418.1	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 23-Mar-15 16:44
--	---	------------------------------

5C13017-03
H500753-03 (Soil)

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

Cardinal Laboratories
Organic Compounds

TPH 418.1	ND		100	mg/kg	10	5032303	CK	23-Mar-15	418.1	
-----------	----	--	-----	-------	----	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Permian Basin Environmental Lab, LP 10014 SCR 1213 Midland TX, 79706	Project: SOIL SAMPLES Project Number: NONE GIVEN Project Manager: Brent Barron Fax To: Not Given	Reported: 23-Mar-15 16:44
--	---	------------------------------

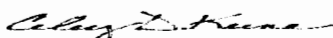
Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5032303 - Solvent Extraction										
Blank (5032303-BLK1)				Prepared & Analyzed: 23-Mar-15						
TPH 418.1	ND	100	mg/kg							
LCS (5032303-BS1)				Prepared & Analyzed: 23-Mar-15						
TPH 418.1	4870	100	mg/kg	5000		97.5	70-130			
LCS Dup (5032303-BSD1)				Prepared & Analyzed: 23-Mar-15						
TPH 418.1	5150	100	mg/kg	5000		103	70-130	5.47	20	
Matrix Spike (5032303-MS1)				Source: H500752-01		Prepared & Analyzed: 23-Mar-15				
TPH 418.1	29700	1000	mg/kg	5000	21400	167	70-130			QM-07
Matrix Spike Dup (5032303-MSD1)				Source: H500752-01		Prepared & Analyzed: 23-Mar-15				
TPH 418.1	28100	1000	mg/kg	5000	21400	134	70-130	5.81	20	QM-07

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

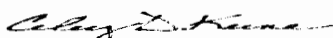
Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 SM4500Cl-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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

APPENDIX C

Photographs



Cell Berm (Cell 1) Viewing East



Buffer Zone (Cell 1) Viewing East



Perimeter Berm (Cell 1) Viewing East



Cell Berm (Cell 2) Viewing West



Buffer Zone (Cell 2) Viewing West



Perimeter Berm (Cell 2) Viewing West



Cell Berm (Cell 3) Viewing East



Buffer Zone (Cell 3) Viewing East



Perimeter Berm (Cell 3) Viewing East



Cell Berm (Cell 4) Viewing West



Buffer Zone (Cell 4) Viewing West



Perimeter Berm (Cell 4) Viewing West



Perimeter Berm and Fence (Cell 1) Viewing West



Cell 5 (Southeast Corner) Excavation Viewing Northwest



Cell 6 (after soil removal) Viewing North



Cell 6 (after soil removal) Viewing Northeast



Cell 6 (after soil removal) Viewing East

APPENDIX D

Lighthouse Environmental Summary



Lighthouse Environmental Services, Inc.
4904 Fuqua Street
Houston, TX 77048

Attn: Jeff Burrier
Brian Moore

Under the Direction of R360 Environmental Solutions, I.I.C., located at 3 Waterway Square Place Suite 110, Woodlands, TX 77380, Lighthouse has completed the work at the Artesia Landfarm, permit # NMI - 030. The work completed included the following:

1. Repaired the perimeter berm to a height of 5 feet with a base width of 30 feet.
2. Removed non-native soil from the 100 foot buffer zone for Treatment Cells 1, 2, 3 and 4.
3. Constructed a cell berm, 5 foot in height and 30 feet at the base, for Cells 1, 2, 3 and 4.
4. Placed a six inch lift on Cells 1, 3 and 4. Soil was moved from Cells 5 and 6 for placement in Cells 1, 3 and 4. The soils above the designated groundwater area were removed, as well as the remaining soils in Cell 6S.

Note: As directed by R360 the application to Cell 2 was not initiated. However, R360 has indicated that this cell is ready for application.

Sincerely,

LIGHTHOUSE ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink, appearing to read "C. Smith", is written over the printed name.

Charles F. Smith
Project Manager
Houston Office

Jones, Brad A., EMNRD

From: Mark Larson <Mark@laenvironmental.com>
Sent: Tuesday, June 23, 2015 8:03 AM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley
Subject: Re: Retraction of Plan 1 Report, R360 Artesia LLC Landfarm, June 12, 2015

Brad,

Per our conversation on Monday, June 22, 2015, please accept this email as a retraction for the above referenced report that was submitted to the New Mexico Oil Conservation Division (OCD on June 15, 2015. Please contact me if you have questions.

Mark Larson

From: Mark Larson
Sent: Monday, June 15, 2015 2:09 PM
To: 'Jones, Brad A., EMNRD'
Cc: 'Wayne Crawley'
Subject: Re: Plan 1 Report, R360 Artesia LLC Landfarm, June 12, 2015

Brad,

Please find the attached report for Plan 1 (Berm and Buffer Plan) for the R360 Artesia LLC Landfarm. The report presents the work performed at the landfarm for repairing the perimeter berm (cells 1 through 6), removing soil from the buffer zone and installing cell berms at cells 1 through 4. The buffer zone vadose sample analytical results will be submitted in a separate report. Please contact Wayne Crawley or me if you have questions.

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 200
Midland, Texas 79701
(432) 687-0901 (O)
(432) 556-8656 (C)



Jones, Brad A., EMNRD

From: Mark Larson <Mark@laenvironmental.com>
Sent: Monday, June 15, 2015 1:09 PM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley
Subject: Re: Plan 1 Report, R360 Artesia LLC Landfarm, June 12, 2015
Attachments: Plan 1 Report, R360 Artesia Landfarm, June 12, 2015.pdf

Brad,

Please find the attached report for Plan 1 (Berm and Buffer Plan) for the R360 Artesia LLC Landfarm. The report presents the work performed at the landfarm for repairing the perimeter berm (cells 1 through 6), removing soil from the buffer zone and installing cell berms at cells 1 through 4. The buffer zone vadose sample analytical results will be submitted in a separate report. Please contact Wayne Crawley or me if you have questions.

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 200
Midland, Texas 79701
(432) 687-0901 (O)
(432) 556-8656 (C)





June 12, 2015

Mr. Brad Jones
Oil Conservation Division
NM Energy, Minerals and Natural Resources Dept.
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Artesia Aeration
R360 Artesia, LLC
Permit NM-01-0030
Lea County, New Mexico

Mr. Jones:

This letter is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of R360 Artesia, LLC (R360) as a follow up to the work completed at the Artesia Aeration Landfarm. The approved plan, Plan 1 – Berm and Buffer Plan, was submitted on November 19, 2014 and approved by the OCD on November 24, 2014.

R360 hired Lighthouse Environmental to complete the field work with Larson & Associates, Inc., assisting with project oversight and sampling. The work began on March 1 and ended on April 3, 2015. The approved Plan had 6 tasks, as listed below. The following provides a summary of the work done to address these tasks.

1. Perimeter Berm. The perimeter berms for Cell 1 thru 4 were re-built to meet the 5 foot height and the 30 foot width requirements. The perimeter berm for Cells 5 and 6 were repaired to prevent run on and runoff.
2. Cell lift approvals. Letters were submitted to the OCD to place an additional 6 inch lift for Cells 1 thru 4. These plans for additional lifts were approved by the OCD between September 2014 and March 2015.
3. Removal of the contaminated soils within the 100 foot buffer zone and temporary cell berm area. The soils within the buffer zone for Cells 1 thru 4 were removed and spread across the respective cell area.
4. Construction of temporary cell berms. Temporary cell berms were constructed for Cells 1 thru 4. These berms are 5 feet high and 30 feet wide at the base.
5. Verification samples within the 100 foot buffer zone. Verification samples were collected in the buffer zone for all four Cells. This data will be submitted under a separate letter.

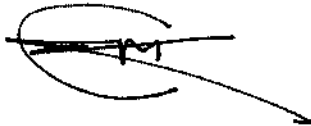
Mr. Brad Jones
June 12, 2015
Page 2 of 2

6. Construction of Perimeter Cell Berms. These berms will be constructed once the buffer zone verification process is completed.

A six inch lift was placed in Cells 1, 3 and 4. Cell 2 did not receive a lift, but this lift will be placed at a later date. The source area for the 6 inch lifts was Cells 5 and 6. All soils above the shallow groundwater zone identified in the Groundwater Delineation Report by LAI were removed. In addition, all soils in Cell 6 South were removed. Soils on the north side of the Cell 6 divider berm, referred to as Cell 6 North, remain in place. These will be the source soils for the lift in Cell 2.

Attached is a letter from Lighthouse which provides a statement on the work tasks completed. Should you have any questions or comments regarding this matter, please contact Wayne Crawley at (281) 873- 3205 (office), (979) 777-0670 (cell) or me at (432) 687-0901.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark J. Larson', with a long horizontal stroke extending to the right and a curved line underneath.

Mark J. Larson, P.G.
Sr. Project Manager/President

cc: Midland Office
Wayne Crawley

Attachment: Lighthouse Letter



Lighthouse Environmental Services, Inc.
4904 Fuqua Street
Houston, TX 77048

Attn: Jeff Burrier
Brian Moore

Under the Direction of R360 Environmental Solutions, LLC., located at 3 Waterway Square Place Suite 110, Woodlands, TX 77380, Lighthouse has completed the work at the Artesia Landfarm, permit # NM1 - 030. The work completed included the following:

1. Repaired the perimeter berm to a height of 5 feet with a base width of 30 feet,
2. Removed non-native soil from the 100 foot buffer zone for Treatment Cells 1, 2, 3 and 4,
3. Constructed a cell berm, 5 foot in height and 30 feet at the base, for Cells 1, 2, 3 and 4,
4. Placed a six inch lift on Cells 1, 3 and 4. Soil was moved from Cells 5 and 6 for placement in Cells 1, 3 and 4. The soils above the designated groundwater area were removed, as well as the remaining soils in Cell 6S.

Note: As directed by R360 the application to Cell 2 was not initiated. However, R360 has indicated that this cell is ready for application.

Sincerely,

LIGHTHOUSE ENVIRONMENTAL SERVICES, INC.

Charles F. Smith
Project Manager
Houston Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David Catanach, Division Director
Oil Conservation Division



January 14, 2015

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

**RE: Request for Approval to Apply a Successive Lift
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico**

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has received and reviewed Larson & Associates, Inc.'s email request, dated January 10, 2015 and submitted on the behalf of R360 Artesia, LLC to grant approval to apply an additional six-inch lift to the following cell(s): **Cell 3**.

Based on the information and data provided in the request, OCD hereby grants R360 Artesia, LLC approval to apply an additional six-inch lift of contaminated soils to the above referenced landfarm cell(s) with the following understandings and conditions:

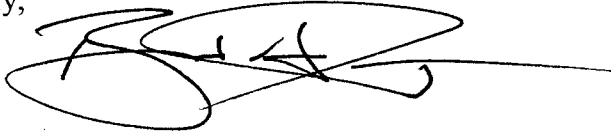
1. R360 Artesia, LLC must initiate tilling, treatment zone monitoring, and resume vadose zone monitoring with the addition of successive lifts. The vadose zone monitoring depth must be adjusted to reach the 2-3 foot zone below the original native ground surface.
2. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 Plan 1 submittal;
3. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
4. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 Plan 1 submittal.

R360 Artesia, LLC
Permit NM1-030
January 14, 2015
Page 2 of 2

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a long horizontal line extending to the right.

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

Jones, Brad A., EMNRD

From: Mark Larson <Mark@laenvironmental.com>
Sent: Saturday, January 10, 2015 3:59 PM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley
Subject: Re: R360 EArtesia LLC Landfarm ; NM1-30-0, Cell 3 Additiona Lift Request
Attachments: Additional Lift Request Cell 3, January 9, 2015.pdf

Brad,

The attached letter is a request to add another lift of contaminated soil to Cell 3 at the R360 Artesia LLC Landfarm. The most recent laboratory analysis of a treated soil (November 11, 2014) demonstrates that Cell 3 has met the treatment criteria outlined in Permit condition "Landfarm Operation No. 6". Please contact Wayne Crawley with R360 at (281) 873-3205 or me at (432) 687-0901, if you have questions.

Sincerely,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 200
Midland, Texas 79701
(432) 687-0901 (O)
(432) 556-8656 (C)





January 9, 2015

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: R360 Artesia, LLC (NM1-30-0)
Cell 3 Lift Request

Mr. Jones:

This is a request to add another lift of contaminated soil to Cell 3. The most recent laboratory analysis of treated soil demonstrates that Cell 3 has met the treatment criteria outlined in Permit condition "Landfarm Operation No. 6". Specifically, this condition states:

"Successive lifts of contaminated soils may not be spread until a laboratory measurement of Total Petroleum Hydrocarbons (TPH) in the previous lift is less than 100 parts per million (ppm), the sum of all aromatic hydrocarbons (BTEX) is less than 50 ppm, and benzene is less than 10 ppm. Comprehensive records of the laboratory analyses and the sampling locations must be maintained at the facility. Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of remediated soils."

A summary of the sample analyses for the 0 to 1 foot surface layer in Cell 3 is provided in Table 1. The laboratory report for the fourth quarter (November 11, 2014) is provided in Appendix A. Figure 1 provides a site map of the R360 Artesia LLC facility. Figure 2 provides the sample locations for Cell 3 on November 11, 2014.

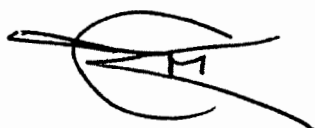
Based on the laboratory analysis of samples collected on November 11, 2014, R360 requests permission to apply an additional lift to Cell 3. The volume of Cell 3 was revised as part of the Plan 1 (Berm and Buffer Pan) effort and is approximately 3.81 acres. The permit allows for a six inch lift, thus based on the revised Cell 3 area, one lift will contain approximately 3,078 cubic yards of contaminated soil. The source of the contaminated soils will be the soil removed from the buffer zone and permanent cell berm located north of Cell 3 and soil delineated in Plan 3.

Should you have any questions or comments regarding this matter, please contact Wayne Crawley (281.873.3205) or me (432.687.0901).

January 9, 20145

R360 Artesia, LLC
Cell 3 Lift Request
Page 2

Sincerely,
Larson & Associates, Inc.

A handwritten signature in black ink, appearing to be 'Mark Larson', written over a circular scribble.

Mark Larson
mark@laenvironmental.com

cc: Wayne Crawley
Midland Office

TABLES

Table 1
 Treatment Soil Analytical Data Summary
 R360 Artesia LLC Landfarm (NM-1-030)
 Lea County, New Mexico

Cell	Sample ID	Date	Depth	RL	Benzene	RL	Ethylbenzene	RL	Toluene	RL	Xylenes	BTEX	RL	DRO	RL	GNO	TPH	RL	TRPH	RL	Chloride
3	COMP-3	11/11/2014	0 - 1	0.00522	<0.00522	0.0157	<0.0157	0.0157	<0.0157	0.0157	<0.0157	<0.00522	10.3	87.8	0.198	<0.0198	87.8	10.2	49.6	49.0	<49.0
Permitted Level:				30								50					100				1,000

Notes: Analysis performed by DHL Analytical, Inc., Round Rock, Texas
 Background analysis was performed by SW-846 method 82608
 RL: Reporting limit (equivalent to practical quantification limit (PQL))
 BTEX analysis performed by SW-846 method 80218
 TPH analysis performed by SW-846 method 8015M
 TRPH analysis performed by SW-846 method 418.1
 1. <: Less than reporting limit
 2. Depth in feet below top of treated soil layer
 3. -: No data available

FIGURES

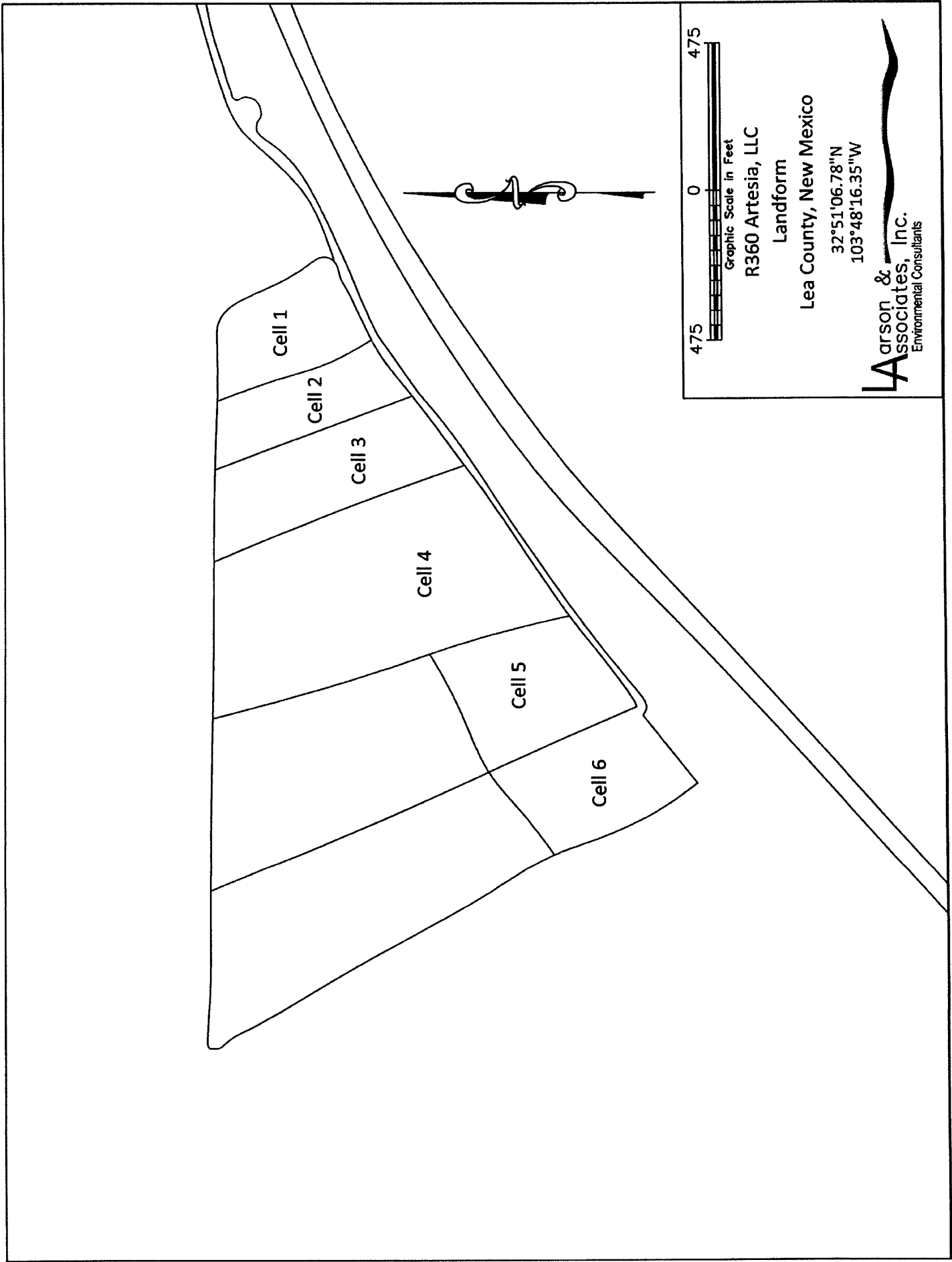
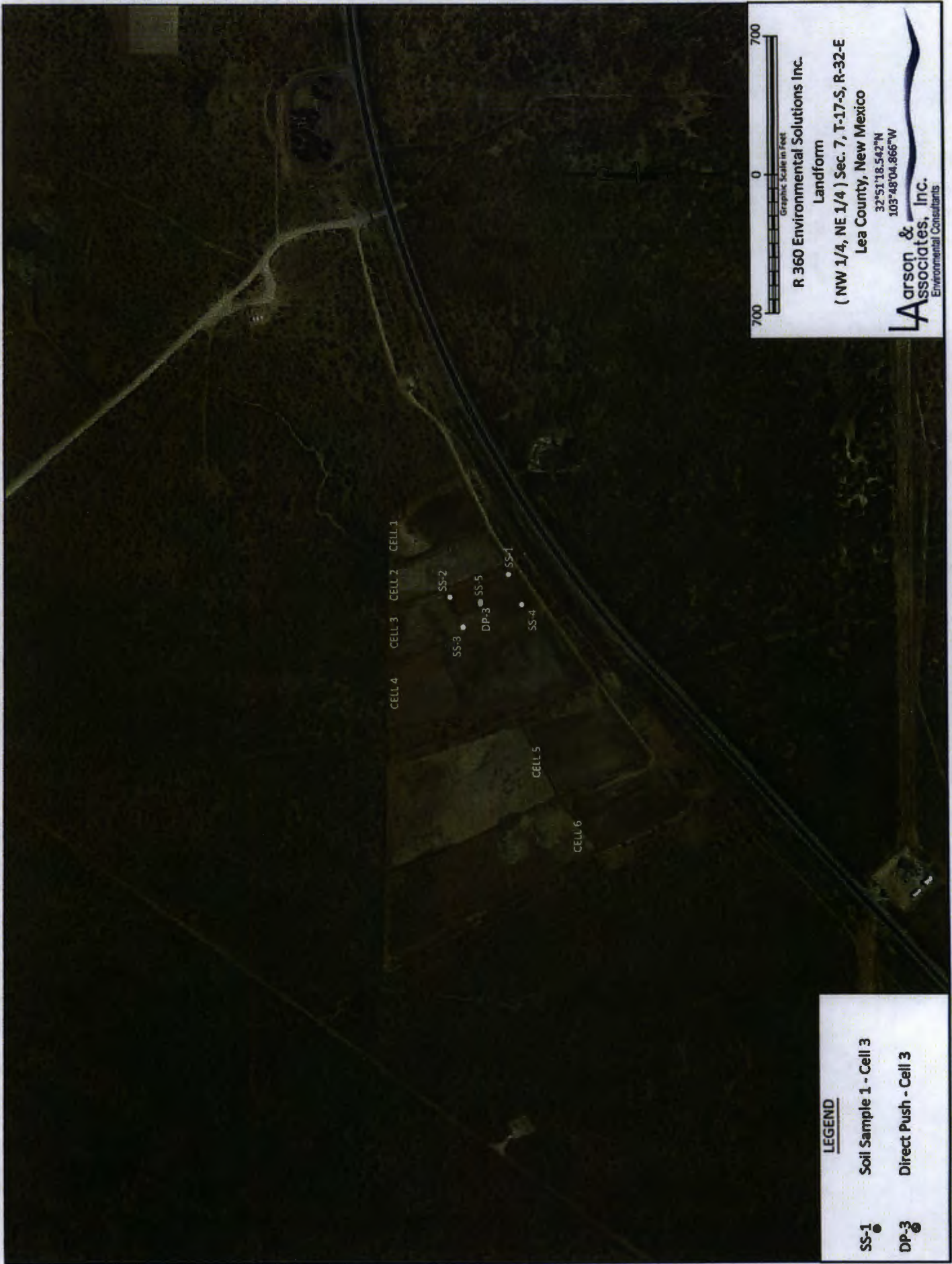


Figure 1 - Site Drawing



LEGEND

- SS-1 • Soil Sample 1 - Cell 3
- DP-3 • Direct Push - Cell 3



R 360 Environmental Solutions Inc.

Landform

(NW 1/4, NE 1/4) Sec. 7, T-17-S, R-32-E

Lea County, New Mexico

32°51'18.542"N
103°45'04.866"W

Larson & **A**ssociates, Inc.
Environmental Consultants

Figure 2 - Aerial Map

APPENDIX A

**Laboratory Report
(November 11, 2014)**



November 21, 2014

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Landfarm

Order No.: 1411102

Dear Mark Larson:

DHL Analytical, Inc. received 10 sample(s) on 11/13/2014 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-14-13



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CHAIN-OF-CUSTODY

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

Arson & Associates, Inc.
Environmental Consultants

Data Reported to:

DATE: 11/12/14 PAGE 1 OF 1
 PO #: 1411882102 LAB WORK ORDER #: 1411882102
 PROJECT LOCATION OR NAME: R360 Landfills
 LAI PROJECT #: 11-109-06 COLLECTOR: Jeff SS

TRRP report? <input type="checkbox"/> Yes <input type="checkbox"/> No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	# of Containers	PRESERVATION		Matrix	Date	Time	Lab #	Field Sample I.D.	FIELD NOTES
				HCl	HNO ₃						
			2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S	11/11/14	125	01	Cell 1 (Q-3)	
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		408	02	Cell 2 Comp (Q-3)	
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		150	03		
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		345	04	Cell 3 Comp (Q-3)	
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		270	05		
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		230	06	Cell 4 (Q-3)	
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		125	07	Cell 5 Comp (Q-3)	
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		115	08		
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		320	09	Cell 6 Comp (Q-3)	
			1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	S		245	10		
TOTAL											

LABORATORY USE ONLY:
 RECEIVING TEMP: 3.6 THERM #: 57
 CUSTODY SEALS - BROKEN INTACT NOT USED
 CARRIER BILL # LSO HAND DELIVERED

TURN AROUND TIME
 NORMAL
 1 DAY
 2 DAY
 OTHER

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 11/12/14 6:30 pm RECEIVED BY: (Signature) [Signature]
 RELINQUISHED BY: (Signature) [Signature] DATE/TIME 11/13/14 0700 RECEIVED BY: (Signature) [Signature]
 RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____



WWW.LSO.COM
 Questions? Call 800-800-8984
 Airbill No. 48947405



48947405

1997-2-12 LSO Star Overnight

1. To: <small>Print Name (Person)</small> <u>T. Baker</u> <small>Phone (Important)</small> <u>512 388 8222</u>		2. From: <small>Print Name (Person)</small> <u>C. Wolf</u> <small>Phone (Important)</small> <u>432-687-0901</u>	
<small>Company Name</small> <u>DHL</u>		<small>Company Name</small> <u>LARSON & ASSOCIATES</u>	
<small>Street Address (No P.O. Box or P.O. Box Zip Code/Deliveries)</small> <u>700 Double Creek Dr</u>		<small>Street Address</small> <u>507 N. MARIENFELD ST.</u>	
<small>State / Floor</small> <u>TX</u>		<small>State / Floor</small> <u>#200</u>	
<small>City</small> <u>Round Rock</u>	<small>State</small> <u>TX</u>	<small>City</small> <u>MIDLAND</u>	<small>State</small> <u>TX</u>
<small>Zip</small> <u>78664</u>	<small>Zip</small> <u>79701</u>	3. Service: <small>Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.</small>	
<input checked="" type="checkbox"/> LSO Priority Overnight* <small>By 10:30 a.m. to most cities</small>		<input type="checkbox"/> LSO Ground	
<input type="checkbox"/> LSO Early Overnight* <small>By 8:30 a.m. select cities</small>		<input type="checkbox"/> LSO Saturday*	
<input type="checkbox"/> LSO Economy Next Day* <small>By 3 p.m. to most cities</small>		<input type="checkbox"/> Other _____	
<input type="checkbox"/> LSO 2nd Day*		<small>*Check commitment times and availability at www.lso.com</small> Assumed LSO Priority Overnight service unless otherwise noted.	
<input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)			
<small>Release Signature</small> <u>[Signature]</u>			
<small>W</small> _____ <small>H</small> _____		4. Package: <small>Weight</small> <u>50</u>	
5. Payment:		FOR DRIVER USE ONLY	
<small>Your Company's Billing Reference Information</small> <u>11-0109-06</u>		<small>Driver Number</small> <u>10162</u>	
<small>Ship Date: (mm/dd/yy)</small> <u>11/12/14</u>		<input type="checkbox"/> <small>Check here if LSO Supplies are used with LSO Ground Service.</small>	
		<small>Pick-up Location</small> <u>1011 D</u>	
		<small>Date:</small> <u>11-12-14</u>	
		<small>Time:</small> <u>18:33</u>	
		<small>City Code:</small>	
		<u>AUS</u>	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR LSO EARLY OVERNIGHT SERVICE. PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON LSO GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 11/13/2014

Work Order Number 1411102

Received by MB

Checklist completed by: [Signature] 11/13/2014
Signature Date

Reviewed by: [Initials] 11/13/2014
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 3.6 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT #
Adjusted? _____ Checked by _____
- Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? Yes No NA LOT #
Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1411102

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

- Method M8015D - DRO Analysis
- Method M8015V - GRO Analysis
- Method SW8021B - Volatile Organics by GC Analysis
- Method E300 - Anions Analysis
- Method E418.1 - Total Petroleum Hydrocarbons Analysis (Parameter not NELAC Certified)
- Method D2216 - Percent Moisture Analysis

LOG IN

The samples were received and log-in performed on 11/13/2014. A total of 10 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

ANIONS ANALYSIS

For Anions Analysis, the recovery of Chloride for the Matrix Spike and Matrix Spike Duplicate (1411102-01 MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. No further corrective actions were taken.

DRO ANALYSIS

For DRO Analysis, the recovery of surrogate Octacosane for four samples was above the method control limits. These are flagged accordingly in the Analytical Data Report. The remaining surrogate for these samples was within method control limits. No further corrective actions were taken.

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1411102

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1411102-01	Cell 1 (2-3)		11/11/14 01:25 PM	11/13/2014
1411102-02	Cell 2 Comp		11/11/14 04:00 PM	11/13/2014
1411102-03	Cell 2 (2-3)		11/11/14 01:50 PM	11/13/2014
1411102-04	Cell 3 Comp		11/11/14 03:45 PM	11/13/2014
1411102-05	Cell 3 (2-3)		11/11/14 02:20 PM	11/13/2014
1411102-06	Cell 4 (2-3)		11/11/14 02:35 PM	11/13/2014
1411102-07	Cell 5 Comp		11/11/14 01:25 PM	11/13/2014
1411102-08	Cell 5 (2-3)		11/11/14 01:15 PM	11/13/2014
1411102-09	Cell 6 Comp		11/11/14 03:20 PM	11/13/2014
1411102-10	Cell 6 (2-3)		11/11/14 02:45 PM	11/13/2014

DHL Analytical, Inc.

21-Nov-14

Lab Order: 1411102
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1411102-01A	Cell 1 (2-3)	11/11/14 01:25 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 1 (2-3)	11/11/14 01:25 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 1 (2-3)	11/11/14 01:25 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 1 (2-3)	11/11/14 01:25 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-01B	Cell 1 (2-3)	11/11/14 01:25 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 1 (2-3)	11/11/14 01:25 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-02A	Cell 2 Comp	11/11/14 04:00 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 2 Comp	11/11/14 04:00 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 2 Comp	11/11/14 04:00 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 2 Comp	11/11/14 04:00 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-02B	Cell 2 Comp	11/11/14 04:00 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 2 Comp	11/11/14 04:00 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-03A	Cell 2 (2-3)	11/11/14 01:50 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 2 (2-3)	11/11/14 01:50 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 2 (2-3)	11/11/14 01:50 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 2 (2-3)	11/11/14 01:50 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-03B	Cell 2 (2-3)	11/11/14 01:50 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 2 (2-3)	11/11/14 01:50 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-04A	Cell 3 Comp	11/11/14 03:45 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 3 Comp	11/11/14 03:45 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 3 Comp	11/11/14 03:45 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 3 Comp	11/11/14 03:45 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-04B	Cell 3 Comp	11/11/14 03:45 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 3 Comp	11/11/14 03:45 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-05A	Cell 3 (2-3)	11/11/14 02:20 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 3 (2-3)	11/11/14 02:20 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 3 (2-3)	11/11/14 02:20 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 3 (2-3)	11/11/14 02:20 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605

DHL Analytical, Inc.

21-Nov-14

Lab Order: 1411102
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1411102-05B	Cell 3 (2-3)	11/11/14 02:20 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 3 (2-3)	11/11/14 02:20 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-06A	Cell 4 (2-3)	11/11/14 02:35 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 4 (2-3)	11/11/14 02:35 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 4 (2-3)	11/11/14 02:35 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 4 (2-3)	11/11/14 02:35 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-06B	Cell 4 (2-3)	11/11/14 02:35 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 4 (2-3)	11/11/14 02:35 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-07A	Cell 5 Comp	11/11/14 01:25 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 5 Comp	11/11/14 01:25 PM	Soil	D2216	Moisture Preparation	11/19/14 11:46 AM	66614
	Cell 5 Comp	11/11/14 01:25 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 5 Comp	11/11/14 01:25 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-07B	Cell 5 Comp	11/11/14 01:25 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 5 Comp	11/11/14 01:25 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 5 Comp	11/11/14 01:25 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-08A	Cell 5 (2-3)	11/11/14 01:15 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 5 (2-3)	11/11/14 01:15 PM	Soil	D2216	Moisture Preparation	11/19/14 11:43 AM	66613
	Cell 5 (2-3)	11/11/14 01:15 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 5 (2-3)	11/11/14 01:15 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-08B	Cell 5 (2-3)	11/11/14 01:15 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 5 (2-3)	11/11/14 01:15 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587
1411102-09A	Cell 6 Comp	11/11/14 03:20 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 6 Comp	11/11/14 03:20 PM	Soil	D2216	Moisture Preparation	11/19/14 11:43 AM	66613
	Cell 6 Comp	11/11/14 03:20 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 6 Comp	11/11/14 03:20 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
1411102-09B	Cell 6 Comp	11/11/14 03:20 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 6 Comp	11/11/14 03:20 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 6 Comp	11/11/14 03:20 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587

DHL Analytical, Inc.

21-Nov-14

Lab Order: 1411102
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
141102-10A	Cell 6 (2-3)	11/11/14 02:45 PM	Soil	E300	Anion Prep	11/20/14 09:27 AM	66634
	Cell 6 (2-3)	11/11/14 02:45 PM	Soil	D2216	Moisture Preparation	11/19/14 11:43 AM	66613
	Cell 6 (2-3)	11/11/14 02:45 PM	Soil	SW5030A	Purge and Trap Soils GC	11/17/14 10:10 AM	66568
	Cell 6 (2-3)	11/11/14 02:45 PM	Soil	SW5030A	Purge and Trap Soils GC- Gas	11/19/14 09:19 AM	66605
141102-10B	Cell 6 (2-3)	11/11/14 02:45 PM	Soil	SW3550C	Soil Prep Sonication: DRO	11/18/14 08:44 AM	66584
	Cell 6 (2-3)	11/11/14 02:45 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	11/18/14 09:27 AM	66587

DHL Analytical, Inc.

21-Nov-14

Lab Order: 1411102
Client: Larson & Associates
Project: R360 Landfarm

ANALYTICAL DATA REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1411102-01A	Cell 1 (2-3)	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 11:17 AM	IC2_141120A
	Cell 1 (2-3)	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 1 (2-3)	Soil	M8015V	TPH Purgable by GC - Soil	66605	1	11/19/14 12:06 PM	GC4_141119A
	Cell 1 (2-3)	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 05:29 PM	GC4_141117A
1411102-01B	Cell 1 (2-3)	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 11:34 AM	GC15_141119A
	Cell 1 (2-3)	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-02A	Cell 2 Comp	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 12:00 PM	IC2_141120A
	Cell 2 Comp	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 2 Comp	Soil	M8015V	TPH Purgable by GC - Soil	66605	1	11/19/14 12:31 PM	GC4_141119A
	Cell 2 Comp	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 05:54 PM	GC4_141117A
1411102-02B	Cell 2 Comp	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 01:04 PM	GC15_141119A
	Cell 2 Comp	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-03A	Cell 2 (2-3)	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 12:15 PM	IC2_141120A
	Cell 2 (2-3)	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 2 (2-3)	Soil	M8015V	TPH Purgable by GC - Soil	66605	1	11/19/14 12:54 PM	GC4_141119A
	Cell 2 (2-3)	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 06:20 PM	GC4_141117A
1411102-03B	Cell 2 (2-3)	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 11:43 AM	GC15_141119A
	Cell 2 (2-3)	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-04A	Cell 3 Comp	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 12:29 PM	IC2_141120A
	Cell 3 Comp	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 3 Comp	Soil	M8015V	TPH Purgable by GC - Soil	66605	1	11/19/14 01:18 PM	GC4_141119A
	Cell 3 Comp	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 06:44 PM	GC4_141117A
1411102-04B	Cell 3 Comp	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 01:13 PM	GC15_141119A
	Cell 3 Comp	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-05A	Cell 3 (2-3)	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 12:44 PM	IC2_141120A
	Cell 3 (2-3)	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 3 (2-3)	Soil	M8015V	TPH Purgable by GC - Soil	66605	1	11/19/14 01:43 PM	GC4_141119A
	Cell 3 (2-3)	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 07:08 PM	GC4_141117A

DHL Analytical, Inc.

21-Nov-14

Lab Order: 1411102
Client: Larson & Associates
Project: R360 Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1411102-05B	Cell 3 (2-3)	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 11:52 AM	GC15_141119A
	Cell 3 (2-3)	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-06A	Cell 4 (2-3)	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 12:59 PM	IC2_141120A
	Cell 4 (2-3)	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 4 (2-3)	Soil	M8015V	TPH Purgeable by GC - Soil	66605	1	11/19/14 02:07 PM	GC4_141119A
	Cell 4 (2-3)	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 07:33 PM	GC4_141117A
1411102-06B	Cell 4 (2-3)	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 12:01 PM	GC15_141119A
	Cell 4 (2-3)	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-07A	Cell 5 Comp	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 01:13 PM	IC2_141120A
	Cell 5 Comp	Soil	D2216	Percent Moisture	66614	1	11/20/14 10:59 AM	PMOIST_141119B
	Cell 5 Comp	Soil	M8015V	TPH Purgeable by GC - Soil	66605	1	11/19/14 02:31 PM	GC4_141119A
	Cell 5 Comp	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 07:57 PM	GC4_141117A
1411102-07B	Cell 5 Comp	Soil	M8015D	TPH Extractable by GC - Soil	66584	5	11/19/14 03:41 PM	GC15_141119A
	Cell 5 Comp	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 03:07 PM	GC15_141119A
	Cell 5 Comp	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
	Cell 5 Comp	Soil	E418.1	TRPH	66587	5	11/18/14 11:18 AM	IR207_141118A
1411102-08A	Cell 5 (2-3)	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 01:28 PM	IC2_141120A
	Cell 5 (2-3)	Soil	D2216	Percent Moisture	66613	1	11/20/14 10:52 AM	PMOIST_141119A
	Cell 5 (2-3)	Soil	M8015V	TPH Purgeable by GC - Soil	66605	1	11/19/14 02:55 PM	GC4_141119A
	Cell 5 (2-3)	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 08:22 PM	GC4_141117A
1411102-08B	Cell 5 (2-3)	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 12:10 PM	GC15_141119A
	Cell 5 (2-3)	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-09A	Cell 6 Comp	Soil	E300	Anions by IC method - Soil	66634	10	11/20/14 01:42 PM	IC2_141120A
	Cell 6 Comp	Soil	D2216	Percent Moisture	66613	1	11/20/14 10:52 AM	PMOIST_141119A
	Cell 6 Comp	Soil	M8015V	TPH Purgeable by GC - Soil	66605	1	11/19/14 03:19 PM	GC4_141119A
	Cell 6 Comp	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 08:46 PM	GC4_141117A
1411102-09B	Cell 6 Comp	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 02:49 PM	GC15_141119A
	Cell 6 Comp	Soil	M8015D	TPH Extractable by GC - Soil	66584	5	11/19/14 03:32 PM	GC15_141119A

DHL Analytical, Inc.

21-Nov-14

Lab Order: 1411102
Client: Larson & Associates
Project: R360 Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1411102-09B	Cell 6 Comp	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A
1411102-10A	Cell 6 (2-3)	Soil	E300	Anions by IC method - Soil	66654	10	11/20/14 01:57 PM	IC2_141120A
	Cell 6 (2-3)	Soil	D2216	Percent Moisture	66613	1	11/20/14 10:52 AM	PMOIST_141119A
	Cell 6 (2-3)	Soil	M8015V	TPH Purgable by GC - Soil	66605	1	11/19/14 03:44 PM	GC4_141119A
	Cell 6 (2-3)	Soil	SW8021B	Volatile Organics by GC	66568	1	11/17/14 09:09 PM	GC4_141117A
1411102-10B	Cell 6 (2-3)	Soil	M8015D	TPH Extractable by GC - Soil	66584	1	11/19/14 12:19 PM	GC15_141119A
	Cell 6 (2-3)	Soil	E418.1	TRPH	66587	1	11/18/14 11:18 AM	IR207_141118A

DHL Analytical, Inc.

Date: 21-Nov-14

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-06
Lab Order: 1411102

Client Sample ID: Cell 3 Comp
Lab ID: 1411102-04
Collection Date: 11/11/14 03:45 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		M8015D			Analyst: AS		
TPH-DRO C10-C28	87.8	3.08	10.3		mg/Kg-dry	1	11/19/14 01:13 PM
Surr: Isopropylbenzene	82.9	0	47-142		%REC	1	11/19/14 01:13 PM
Surr: Octacosane	178	0	25-162	S	%REC	1	11/19/14 01:13 PM
TPH PURGEABLE BY GC - SOIL		M8015V			Analyst: DEW		
Gasoline Range Organics	ND	0.0992	0.198		mg/Kg-dry	1	11/19/14 01:18 PM
Surr: Tetrachlorethene	104	0	70-134		%REC	1	11/19/14 01:18 PM
VOLATILE ORGANICS BY GC		SW8021B			Analyst: AV		
Benzene	ND	0.00313	0.00522		mg/Kg-dry	1	11/17/14 06:44 PM
Ethylbenzene	ND	0.00522	0.0157		mg/Kg-dry	1	11/17/14 06:44 PM
Toluene	ND	0.00522	0.0157		mg/Kg-dry	1	11/17/14 06:44 PM
Xylenes, Total	ND	0.00522	0.0157		mg/Kg-dry	1	11/17/14 06:44 PM
Surr: Tetrachloroethene	97.1	0	79-135		%REC	1	11/17/14 06:44 PM
TRPH		E418.1			Analyst: AS		
Petroleum Hydrocarbons, TR	49.6	5.09	10.2	N	mg/Kg-dry	1	11/18/14 11:18 AM
ANIONS BY IC METHOD - SOIL		E300			Analyst: AV		
Chloride	ND	49.0	49.0		mg/Kg-dry	10	11/20/14 12:29 PM
PERCENT MOISTURE		D2216			Analyst: JL		
Percent Moisture	9.68	0	0		WT%	1	11/20/14 10:59 AM

Qualifiers:

- * Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAC certified
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_141119A

The QC data in batch 66584 applies to the following samples: 1411102-01B, 1411102-02B, 1411102-03B, 1411102-04B, 1411102-05B, 1411102-06B, 1411102-07B, 1411102-08B, 1411102-09B, 1411102-10B

Sample ID	MB-66584	Batch ID:	66584	TestNo:	M8015D	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GC15_141119A	Analysis Date:	11/19/2014 10:22:32 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10.0								
Surr: Isopropylbenzene	6.21		7.500		82.8	47	142			
Surr: Octacosane	5.43		7.500		72.4	25	162			

Sample ID	LCS1-66584	Batch ID:	66584	TestNo:	M8015D	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC15_141119A	Analysis Date:	11/19/2014 10:40:30 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	94.8	10.0	125.0	0	75.8	50	114			
Surr: Isopropylbenzene	3.78		7.500		50.5	47	142			
Surr: Octacosane	5.72		7.500		76.3	25	162			

Sample ID	LCS2-66584	Batch ID:	66584	TestNo:	M8015D	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC15_141119A	Analysis Date:	11/19/2014 10:49:29 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	89.9	10.0	125.0	0	71.9	50	114			
Surr: Isopropylbenzene	4.25		7.500		56.7	47	142			
Surr: Octacosane	5.53		7.500		73.8	25	162			

Sample ID	1411102-10BMS	Batch ID:	66584	TestNo:	M8015D	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	GC15_141119A	Analysis Date:	11/19/2014 12:28:08 P	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	89.1	9.85	123.2	0	72.3	50	114			
Surr: Isopropylbenzene	5.64		7.391		76.3	47	142			
Surr: Octacosane	5.37		7.391		72.6	25	162			

Sample ID	1411102-10BMSD	Batch ID:	66584	TestNo:	M8015D	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	GC15_141119A	Analysis Date:	11/19/2014 12:37:07 P	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	89.6	9.67	120.9	0	74.1	50	114	0.585	30	
Surr: Isopropylbenzene	5.90		7.254		81.3	47	142	0	0	
Surr: Octacosane	5.37		7.254		74.0	25	162	0	0	

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL
 DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_141119A

Sample ID: ICV-141119	Batch ID: R76408	TestNo: M8015D	Units: mg/Kg
SampType: ICV	Run ID: GC15_141119A	Analysis Date: 11/19/2014 10:04:34 A	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	485	10.0	500.0	0	97.0	80	120			
Surr: Isopropylbenzene	26.8		25.00		107	80	120			
Surr: Octacosane	22.8		25.00		91.0	80	120			

Sample ID: CCV1-141119	Batch ID: R76408	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_141119A	Analysis Date: 11/19/2014 1:31:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	233	10.0	250.0	0	93.4	80	120			
Surr: Isopropylbenzene	15.0		12.50		120	80	120			
Surr: Octacosane	12.5		12.50		100	80	120			

Sample ID: CCV2-141119	Batch ID: R76408	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_141119A	Analysis Date: 11/19/2014 3:59:53 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	229	10.0	250.0	0	91.5	80	120			
Surr: Isopropylbenzene	14.7		12.50		117	80	120			
Surr: Octacosane	12.5		12.50		100	80	120			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDI and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_141117A

The QC data in batch 66568 applies to the following samples: 1411102-01A, 1411102-02A, 1411102-03A, 1411102-04A, 1411102-05A, 1411102-06A, 1411102-07A, 1411102-08A, 1411102-09A, 1411102-10A

Sample ID	LCS-66568	Batch ID:	66568	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 10:44:10 A	Prep Date:	11/17/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.105	0.00500	0.1000	0	105	65	113			
Toluene	0.104	0.0150	0.1000	0	104	73	115			
Ethylbenzene	0.102	0.0150	0.1000	0	102	74	118			
Xylenes, Total	0.311	0.0150	0.3000	0	104	73	119			
Surr: Tetrachloroethene	0.199		0.2000		99.6	79	135			

Sample ID	MB-66568	Batch ID:	66568	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 11:34:12 A	Prep Date:	11/17/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00500								
Toluene	ND	0.0150								
Ethylbenzene	ND	0.0150								
Xylenes, Total	ND	0.0150								
Surr: Tetrachloroethene	0.204		0.2000		102	79	135			

Sample ID	LCS-66568MEOH	Batch ID:	66568	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 2:15:30 PM	Prep Date:	11/17/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.04	0.0500	1.000	0	104	65	113			
Toluene	1.03	0.150	1.000	0	103	73	115			
Ethylbenzene	1.03	0.150	1.000	0	103	74	118			
Xylenes, Total	3.16	0.150	3.000	0	105	73	119			
Surr: Tetrachloroethene	2.07		2.000		104	79	135			

Sample ID	MB-66568MEOH	Batch ID:	66568	TestNo:	SW8021B	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 3:03:48 PM	Prep Date:	11/17/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.0500								
Toluene	ND	0.150								
Ethylbenzene	ND	0.150								
Xylenes, Total	ND	0.150								
Surr: Tetrachloroethene	2.05		2.000		102	79	135			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1411102
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_141117A

Sample ID: 1411102-10AMS	Batch ID: 66568	TestNo: SW8021B	Units: mg/Kg-dry
SampType: MS	Run ID: GC4_141117A	Analysis Date: 11/17/2014 9:34:19 PM	Prep Date: 11/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.104	0.00514	0.1028	0	101	65	113			
Toluene	0.102	0.0154	0.1028	0	98.8	73	115			
Ethylbenzene	0.0992	0.0154	0.1028	0	96.5	74	118			
Xylenes, Total	0.295	0.0154	0.3084	0	95.7	73	119			
Surr: Tetrachloroethene	0.204		0.2056		99.3	79	135			

Sample ID: 1411102-10AMSD	Batch ID: 66568	TestNo: SW8021B	Units: mg/Kg-dry
SampType: MSD	Run ID: GC4_141117A	Analysis Date: 11/17/2014 9:59:03 PM	Prep Date: 11/17/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.102	0.00504	0.1008	0	101	65	113	1.69	30	
Toluene	0.100	0.0151	0.1008	0	99.4	73	115	1.36	30	
Ethylbenzene	0.0965	0.0151	0.1008	0	95.7	74	118	2.76	30	
Xylenes, Total	0.290	0.0151	0.3025	0	95.8	73	119	1.81	30	
Surr: Tetrachloroethene	0.198		0.2017		98.3	79	135	0		

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_141117A

Sample ID	ICV-141117	Batch ID:	R76440	TestNo:	SW8021B	Units:	mg/Kg
SampType:	ICV	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 10:03:46 A	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.194	0.00500	0.2000	0	97.2	80	120			
Toluene	0.190	0.0150	0.2000	0	95.1	80	120			
Ethylbenzene	0.195	0.0150	0.2000	0	97.3	80	120			
Xylenes, Total	0.609	0.0150	0.6000	0	101	80	120			
Surr: Tetrachloroethene	0.188		0.2000		94.1	79	135			

Sample ID	CCV1-141117	Batch ID:	R76440	TestNo:	SW8021B	Units:	mg/Kg
SampType:	CCV	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 1:34:39 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.102	0.00500	0.1000	0	102	80	120			
Toluene	0.102	0.0150	0.1000	0	102	80	120			
Ethylbenzene	0.100	0.0150	0.1000	0	100	80	120			
Xylenes, Total	0.309	0.0150	0.3000	0	103	80	120			
Surr: Tetrachloroethene	0.195		0.2000		97.6	79	135			

Sample ID	CCV2-141117	Batch ID:	R76440	TestNo:	SW8021B	Units:	mg/Kg
SampType:	CCV	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 4:06:32 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.102	0.00500	0.1000	0	102	80	120			
Toluene	0.102	0.0150	0.1000	0	102	80	120			
Ethylbenzene	0.100	0.0150	0.1000	0	100	80	120			
Xylenes, Total	0.307	0.0150	0.3000	0	102	80	120			
Surr: Tetrachloroethene	0.188		0.2000		93.8	79	135			

Sample ID	CCV3-141117	Batch ID:	R76440	TestNo:	SW8021B	Units:	mg/Kg
SampType:	CCV	Run ID:	GC4_141117A	Analysis Date:	11/17/2014 11:13:13 P	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.102	0.00500	0.1000	0	102	80	120			
Toluene	0.101	0.0150	0.1000	0	101	80	120			
Ethylbenzene	0.0989	0.0150	0.1000	0	98.9	80	120			
Xylenes, Total	0.296	0.0150	0.3000	0	98.8	80	120			
Surr: Tetrachloroethene	0.208		0.2000		104	79	135			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_141119A

The QC data in batch 66605 applies to the following samples: 1411102-01A, 1411102-02A, 1411102-03A, 1411102-04A, 1411102-05A, 1411102-06A, 1411102-07A, 1411102-08A, 1411102-09A, 1411102-10A

Sample ID	LCS-66605	Batch ID:	66605	TestNo:	M8015V	Units:	mg/Kg			
SampType:	LCS	Run ID:	GC4_141119A	Analysis Date:	11/19/2014 10:54:12 A	Prep Date:	11/19/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.93	0.200	5.000	0	98.6	68	126			
Surr: Tetrachlorethene	0.383		0.4000		95.7	70	134			

Sample ID	MB-66605	Batch ID:	66605	TestNo:	M8015V	Units:	mg/Kg			
SampType:	MBLK	Run ID:	GC4_141119A	Analysis Date:	11/19/2014 11:42:27 A	Prep Date:	11/19/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	0.200								
Surr: Tetrachlorethene	0.417		0.4000		104	70	134			

Sample ID	1411102-10AMS	Batch ID:	66605	TestNo:	M8015V	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	GC4_141119A	Analysis Date:	11/19/2014 4:08:35 PM	Prep Date:	11/19/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.36	0.197	4.918	0	109	68	126			
Surr: Tetrachlorethene	0.425		0.3934		108	70	134			

Sample ID	1411102-10AMSD	Batch ID:	66605	TestNo:	M8015V	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	GC4_141119A	Analysis Date:	11/19/2014 4:32:26 PM	Prep Date:	11/19/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.38	0.192	4.809	0	112	68	126	0.420	30	
Surr: Tetrachlorethene	0.428		0.3847		111	70	134	0	0	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
Work Order: 1411102
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_141119A

Sample ID: ICV-141119	Batch ID: R76423	TestNo: M8015V	Units: mg/Kg							
SampType: ICV	Run ID: GC4_141119A	Analysis Date: 11/19/2014 10:23:02 A	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	10.3	0.200	10.00	0	103	80	120			
Surr: Tetrachlorethene	0.364		0.4000		90.9	70	134			

Sample ID: CCV1-141119	Batch ID: R76423	TestNo: M8015V	Units: mg/Kg							
SampType: CCV	Run ID: GC4_141119A	Analysis Date: 11/19/2014 4:56:34 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.65	0.200	5.000	0	113	80	120			
Surr: Tetrachlorethene	0.430		0.4000		108	70	134			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_141120A

The QC data in batch 66634 applies to the following samples: 1411102-01A, 1411102-02A, 1411102-03A, 1411102-04A, 1411102-05A, 1411102-06A, 1411102-07A, 1411102-08A, 1411102-09A, 1411102-10A

Sample ID MB-66634	Batch ID: 66634	TestNo: E300	Units: mg/Kg
SampType: MBLK	Run ID: IC2_141120A	Analysis Date: 11/20/2014 10:31:24 A	Prep Date: 11/20/2014
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	5.00	

Sample ID LCS-66634	Batch ID: 66634	TestNo: E300	Units: mg/Kg
SampType: LCS	Run ID: IC2_141120A	Analysis Date: 11/20/2014 10:45:58 A	Prep Date: 11/20/2014
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	48.9	5.00	50.00 0 97.9 80 120

Sample ID LCSD-66634	Batch ID: 66634	TestNo: E300	Units: mg/Kg
SampType: LCSD	Run ID: IC2_141120A	Analysis Date: 11/20/2014 11:00:33 A	Prep Date: 11/20/2014
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	49.4	5.00	50.00 0 98.9 80 120 1.01 20

Sample ID 1411102-01AMS	Batch ID: 66634	TestNo: E300	Units: mg/Kg-dry
SampType: MS	Run ID: IC2_141120A	Analysis Date: 11/20/2014 11:31:40 A	Prep Date: 11/20/2014
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	160	55.4	110.8 0 145 80 120 S

Sample ID 1411102-01AMSD	Batch ID: 66634	TestNo: E300	Units: mg/Kg-dry
SampType: MSD	Run ID: IC2_141120A	Analysis Date: 11/20/2014 11:46:15 A	Prep Date: 11/20/2014
Analyte	Result	RL	SPK value Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	163	55.6	111.3 0 146 80 120 1.32 20 S

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1411102
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_141120A

Sample ID	ICV-141120	Batch ID:	R76449	TestNo:	E300	Units:	mg/Kg
SampType:	ICV	Run ID:	IC2_141120A	Analysis Date:	11/20/2014 10:08:25 A	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chloride	24.8	5.00	25.00	0	99.0	90	110			
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Sample ID	CCV1-141120	Batch ID:	R76449	TestNo:	E300	Units:	mg/Kg
SampType:	CCV	Run ID:	IC2_141120A	Analysis Date:	11/20/2014 2:25:32 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chloride	10.2	5.00	10.00	0	102	90	110			
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Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Larson & Associates
 Work Order: 1411102
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_141118A

The QC data in batch 66587 applies to the following samples: 1411102-01B, 1411102-02B, 1411102-03B, 1411102-04B, 1411102-05B, 1411102-06B, 1411102-07B, 1411102-08B, 1411102-09B, 1411102-10B

Sample ID	ICV-141118	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg			
SampType:	ICV	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	248	10.0	250.0	0	99.0	90	110			N

Sample ID	MB-66587	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg			
SampType:	MBLK	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	10.0								N

Sample ID	LCS-66587	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg			
SampType:	LCS	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	91.2	10.0	100.0	0	91.2	80	120			N

Sample ID	CCV1-141118	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg			
SampType:	CCV	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	245	10.0	250.0	0	98.0	85	115			N

Sample ID	1411102-10BMS	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	91.0	9.84	98.36	0	92.5	80	120			N

Sample ID	1411102-10BMSD	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:	11/18/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	92.2	9.97	99.67	0	92.5	80	120	1.33	20	N

Sample ID	CCV2-141118	Batch ID:	66587	TestNo:	E418.1	Units:	mg/Kg			
SampType:	CCV	Run ID:	IR207_141118A	Analysis Date:	11/18/2014 11:18:00 A	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	246	10.0	250.0	0	98.5	85	115			N

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
Work Order: 1411102
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_141119A

The QC data in batch 66613 applies to the following samples: 1411102-08A, 1411102-09A, 1411102-10A

Sample ID 1411160-01A-DUP	Batch ID: 66613	TestNo: D2216	Units: WT%
SampType: DUP	Run ID: PMOIST_141119A	Analysis Date: 11/20/2014 10:52:00 A	Prep Date: 11/19/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	9.86	0	0	11.03				11.2	30	

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified	
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CLIENT: Larson & Associates
Work Order: 1411102
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_141119B

The QC data in batch 66614 applies to the following samples: 1411102-01A, 1411102-02A, 1411102-03A, 1411102-04A, 1411102-05A, 1411102-06A, 1411102-07A

Sample ID: 1411161-10A-DUP	Batch ID: 66614	TestNo: D2216	Units: WT%
SampType: DUP	Run ID: PMOIST_141119B	Analysis Date: 11/20/2014 10:59:00 A	Prep Date: 11/19/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	8.05	0	0	8.326				3.42	30	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDI and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Monday, November 24, 2014 1:41 PM
To: 'Mark Larson'
Cc: Wayne Crawley
Subject: RE: R360 Artesia, LLC Landfarm, Revised Plan 1 (Berm and Buffer Zone), November 19, 2014
Attachments: 2014 1124 Plan 1 Berm and Buffer Plan approval.pdf

Wayne and Mark,

Please see the attached approval letter. A hardcopy has been placed in the mail. If you have any questions regarding this matter, please do not hesitate to contact me.

Brad

Brad A. Jones
Environmental Engineer
EMNRD Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: Mark Larson [<mailto:Mark@laenvironmental.com>]
Sent: Wednesday, November 19, 2014 3:45 PM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley
Subject: Re: R360 Artesia, LLC Landfarm, Revised Plan 1 (Berm and Buffer Zone), November 19, 2014

Hello Brad,

Please find Plan 1 (Berm and Buffer Plan) which was revised after the telephone call with Wayne Crawley. Please contact Wayne Crawley at (281) 873-3255 or me at (432) 687-0901, if you have questions.

Sincerely,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 200
Midland, Texas 79701
(432) 687-0901 (O)
(432) 556-8656 (C)



State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



November 24, 2014

Wayne Crawley
R360 Environmental Solutions, LLC
3 Waterway Square Place, Suite 110
The Woodlands, Texas 77380

RE: Request for Approval of Plan 1 – Berm and Buffer Plan
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico

Dear Mr. Crawley:

The Oil Conservation Division (OCD) has completed the review of Larson & Associates, Inc.'s email request Plan 1, dated November 19, 2014 and submitted on the behalf of R360 Artesia, LLC, which proposes to relocate contaminated soils out of the 100 ft. buffer area, install temporary cells berms, assess the vadose zone within the exposed buffer area, and the installation of permanent cells berms.

Based on the information provided in the request, Plan 1 is hereby approved with the following understandings and conditions:

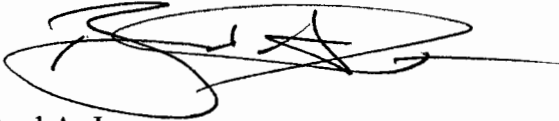
1. R360 Artesia, LLC shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), all conditions specified in this approval, and shall operate in accordance with the November 19, 2014 submittal;
2. R360 Artesia, LLC shall compare vadose zone monitoring results to the background results or PQL (whichever is higher) in order to determine if a release had occurred and if additional follow-up actions of 19.15.36.15.E.(5) NMAC are required to be completed; and
3. R360 Artesia, LLC shall obtain written approval from OCD prior to implementing any changes to the November 19, 2014 plan.

Please be advised that approval of this request does not relieve R360 Artesia, LLC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve R360 Artesia, LLC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

R360 Artesia, LLC
Permit NM1-030
November 24, 2014
Page 2 of 2

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', enclosed within a large, loopy oval scribble.

Brad A. Jones
Environmental Engineer

BAJ/baj

Cc: OCD District I Office, Hobbs
Mark Larson, Larson & Associates, Inc., 507 North Marienfeld, Suite 200, Midland, TX
79701

Jones, Brad A., EMNRD

From: Mark Larson <Mark@laenvironmental.com>
Sent: Wednesday, November 19, 2014 3:45 PM
To: Jones, Brad A., EMNRD
Cc: Wayne Crawley
Subject: Re: R360 Artesia, LLC Landfarm, Revised Plan 1 (Berm and Buffer Zone), November 19, 2014
Attachments: R360 Artesia, LLC Landfarm (NM1030-0) Revised Plan 1, November 19, 2014.pdf

Hello Brad,
Please find Plan 1 (Berm and Buffer Plan) which was revised after the telephone call with Wayne Crawley. Please contact Wayne Crawley at (281) 873-3255 or me at (432) 687-0901, if you have questions.
Sincerely,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 200
Midland, Texas 79701
(432) 687-0901 (O)
(432) 556-8656 (C)





November 19, 2014

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: R360 Artesia LLC (NM1-30-0)
Plan 1 – Berm and Buffer Plan

Mr. Jones,

This letter transmits the revised Plan 1 for establishing the required 100 foot buffer between the facility north fence and contaminated soils in cells 1 through 4 as required by condition 3 of the permit (Landfarm Construction). The permit requires both a perimeter berm and a cell berm. A perimeter berm was constructed by the original owners, but it was used for both the perimeter and cell berm and thus contaminated soils were placed within the 100 foot buffer zone. The current perimeter berm with a base width of about 25 feet (cell 1) to 35 feet (cell 4) separates contaminated soils in cells 1 through 4 from the north Facility boundary. This plan will address:

- 1) Perimeter berm
- 2) Cell lift approval
- 3) Removal of the contaminated soils within the 100 foot buffer zone and temporary cell berm area
- 4) Construction of temporary cell berms
- 5) Verification samples within the 100 foot buffer zone
- 6) Construction of Permanent Cell Berms

There is 100 feet of separation between the contaminated soils and facility boundaries on the west, east and south sides. Therefore, the north side is the only side that requires the buffer zone to be addressed.

The following tasks will be performed to increase separation to at least 100 feet between the contaminated soil in cells 1 through 4 and the north facility boundary. This plan seeks approval for (1) establishment of the north side buffer zone and verification sampling procedures and (2) construction of both the temporary and permanent cell berm for each cell, with the understanding that the actual work will occur as cell lifts pass.

Task 1 Perimeter Berms

Figure 1 presents the current berm configuration and property boundary. The perimeter berm will remain in place. R360 will review the berm and re-build any areas that have deteriorated over time and

will ensure that the perimeter berm meets permit condition 5, which states that the perimeter berm must be 5 feet above grade and 30 feet wide at the base. If additional soil is needed to maintain the perimeter berm, it will be acquired from an area at the facility that has not been used for placement of contaminated soil. R360 owns 167 acres at this location, and there is plenty of uncontaminated soil outside the landfarm area that will be suitable for this purpose.

Task 2 Cell Lift Approval

R360 will continue treatment activities in each of the four cells with routine disking. When the surface application layer (6 inches or less) meets the successive/additional lift limits in permit condition 6 (Landfarm Operation) R360 will submit a letter request to the OCD for approval to place another lift on that cell. Individual letters will be submitted for each lift and for each landfarm cell. The laboratory analytical reports will be included with the letter.

Task 3 Removal of the Contaminated Soils within the 100 Foot Buffer Zone and Temporary Cell Berm

The buffer zone area north of cells 1 through 4 has been used and is currently a part of the landfarm cell. The contaminated soil that was placed in the 100 foot buffer zone on the north side of cells 1 through 4 will be removed to provide the minimum 100 foot separation (buffer) between the contaminated soil and the north facility boundary. In addition, 30 feet of soil will also be removed for placement of the temporary cell berm (See Task 4). The following procedures will be followed:

- Once the first lift in each cell is approved, R360 will survey and mark the buffer zone. Once the buffer zone is marked, the contaminated soils will be removed from the buffer zone. The perimeter levee is 30 feet wide, the buffer zone is 40 feet wide and permanent cell berm is 30 feet wide for a total of 100 feet. The temporary cell berm will be 30 feet wide, therefore soils will be removed from a 100 wide strip (40 ft for buffer zone, 30 ft for permanent cell levee and 30 ft for the temporary cell berm).
- The soils that are currently lying within the buffer zone for Cells 1 and 4 have met the treatment zone additional lift criteria. Therefore, they will be removed and spread in a thin, even layer across the respective cell. These soils will not count as part of the next lift. The same procedure will be followed for cells 2 and 3 once OCD approves these cells for another lift of contaminated soil.

Task 4 Construction of Temporary Cell Berms

R360 will construct a new, temporary landfarm cell berm along the north side of cells 1 through 4, as shown on Figure 2. The berms will be constructed with clean soil acquired from an area at the facility that has not been used for placement of contaminated soil. The cell berms will be constructed that will be 30 feet wide and 5 feet above natural grade. This will comply with permit condition 5. This will allow for two (2) feet of contaminated soil to be placed in each cell while allowing for 3 feet of freeboard.

A temporary berm will be necessary to prevent runoff and run-on while R360 investigates the vadose zone beneath the buffer and permanent cell berm area. The temporary berm will be installed in the land farm cell while the vadose zone in the buffer and permanent cell berm area is investigated and remediated, if necessary. The temporary berm will be moved and become the permanent cell berm once the vadose investigation and remediation is completed. This will allow the full land farm cell acreage to be used for the treatment of soils from Cells 5 and 6. The vadose zone beneath the temporary berm will be addressed during routine operations (quarterly vadose monitoring) after completion of Task 5. Table 1 provides the acreage and the cubic yard capacities for the four cells while they exist in this modified status.

Table 1. Cell Areas and Lift Volumes for Land Farm Cells in Modified Status

Cell #	Original Acres	Acres after Removal of Buffer Zone and Cell Berm	Modified Area Square Feet	Modified Area CY in 6 Inch Lift
1	2.74	1.94	84,684	1,568
2	2.85	2.25	98,169	1,818
3	4.44	3.61	157,444	2,916
4	9.95	8.69	378,747	7,014

Task 5 Verification Samples within the 100 Foot Buffer Zone

Verification samples will be collected once the soils approved for an additional lift are removed from the 70 foot buffer zone where contaminated soils have been treated. The objective of these samples is to confirm that the soils in the vadose zone have not been affected by the treatment of these soils. Four (4) discrete soil samples will be collected from the 70 foot buffer zone north of each cell (1 through 4) between 2 and 3 feet below ground surface (bgs). The discrete samples for each cell buffer zone will be composited into a single sample. A total of 4 composite samples (one for each cell buffer zone) will be submitted to the laboratory and analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), total petroleum hydrocarbons (TRPH), and chloride, using methods SW-8021B, 418.1, and E300, respectively. This data will be compared to background data and PQLs (discussed in Plan 4) to determine if a release to the vadose zone has occurred. Should these results exceed the background or PQLs for any given cell, then R360 will notify OCD, perform additional sampling, and possibly submittal of a response plan, if applicable. Figure 2 presents the approximate discrete sample locations.

The perimeter berm discussed in Task 1 will protect the buffer zone during the sampling and analysis period by preventing stormwater run-on from off the facility. In addition, the temporary cell berm will prevent stormwater runoff from the land farm cells from accessing the buffer zone.

Task 6 Construction of Permanent Cell Berms

Once the vadose zone soils have been addressed through the verification sampling program outlined in Task 5, R360 will construct a permanent cell berm in the buffer zone using soil from the temporary berm. Once this is completed, the 30 foot area where the temporary cell berm was constructed will be placed back into use within the land farm cell. The permanent cell berms will be constructed that will be 30 feet wide and 5 feet above natural grade. This will comply with permit condition 5. Figure 2 presents the permanent berm location.

Table 2 provides the acreage and cubic yard capacities for the four cells after construction of the permanent cell berm. These areas and lift yardages represent the final landfarm area for cells 1 through 4. Once the buffer zone and permanent cell berms are established the size of cells 1 through 4 will reduce to approximately 2.26, 2.52, 3.98 and 9.23 acres, respectively.

Table 2. Cell Areas and Lift Volumes for Land Farm Cells in Final Area Status

Cell #	Original Acres	Acres – Amended for Buffer Zone Removal	Final LT Area Square Feet	Final LT Area CY in 6 Inch Lift
1	2.74	2.12	92,209	1,708
2	2.85	2.41	104,819	1,941
3	4.44	3.81	166,194	3,078
4	9.95	8.93	389,247	7,208

Please contact Wayne Crawley with R360 at (979) 777-0670 or me if you have questions.

Sincerely,

LARSON & ASSOCIATES, INC.



Mark J. Larson, P.G.
Sr. Project Manager/President
mark@laenvironmental.com

cc: Wayne Crawley – R360
Midland Office

FIGURES

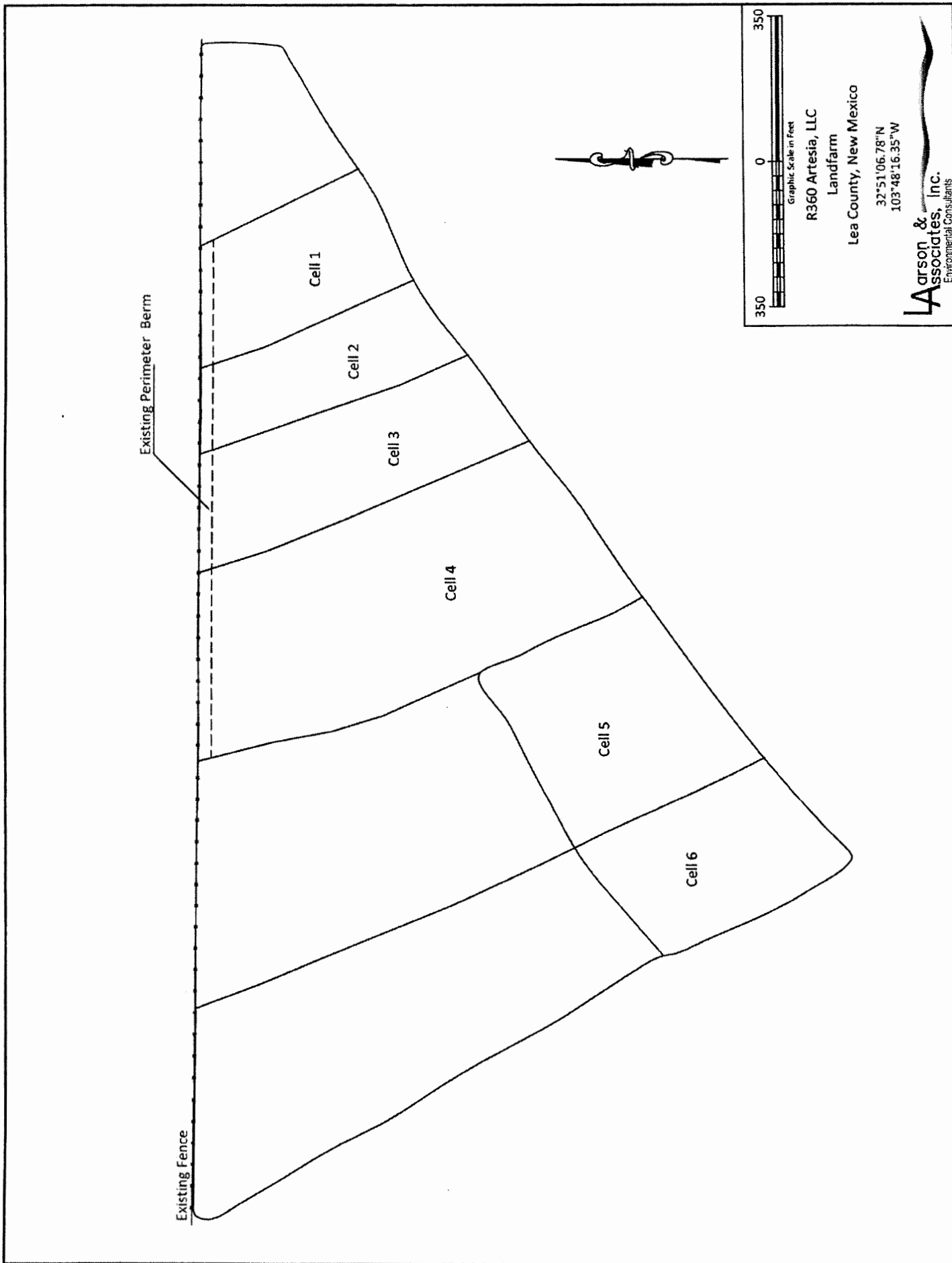


Figure 1 - Perimeter Berm Location Map

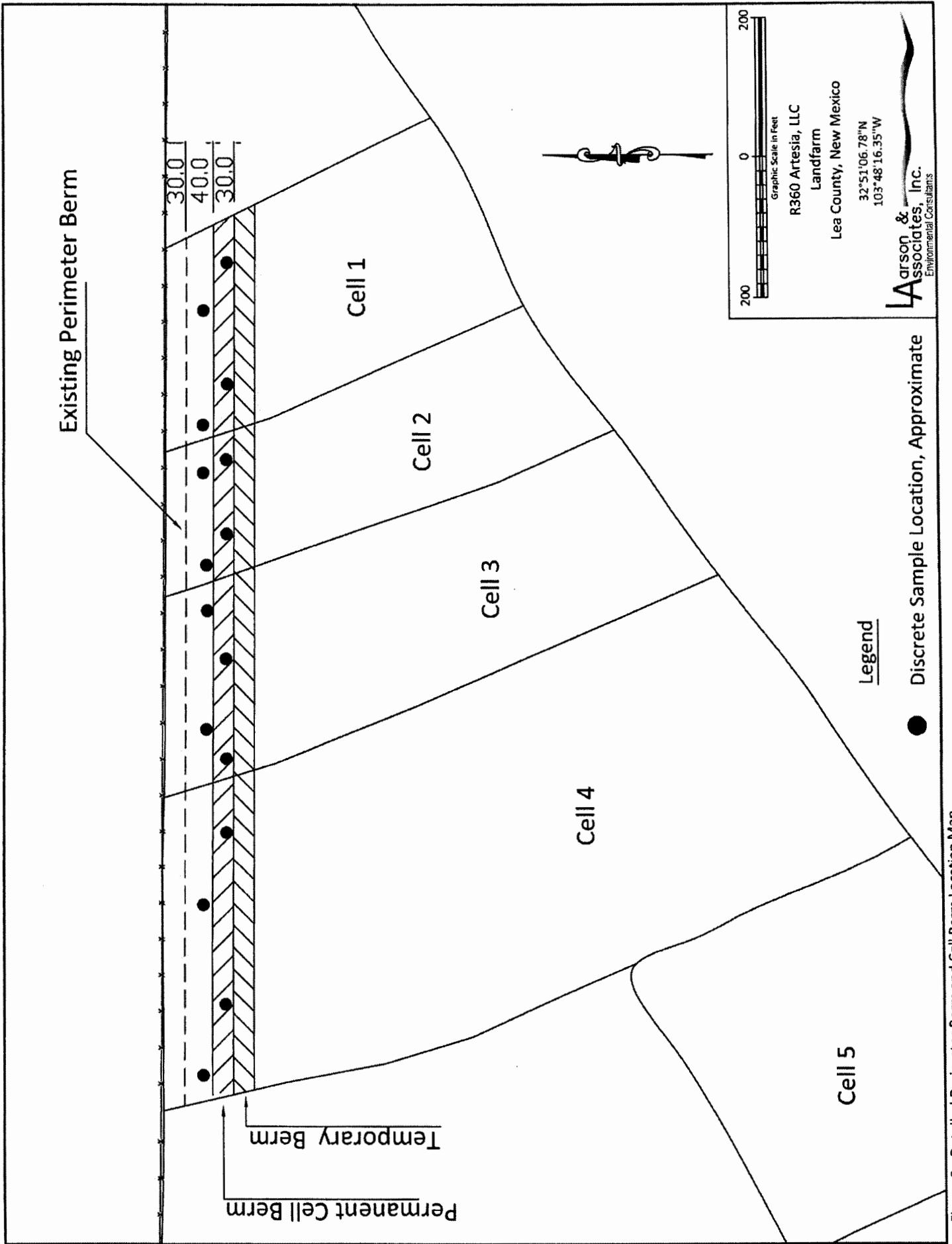


Figure 2 - Detailed Perimeter Berm and Cell Berm Location Map



RECEIVED OCD

2014 MAR 24 P 10: 51

March 20, 2014

VIA EMAIL: brad.a.jones@state.nm.us

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

**Re: R360 Artesia LLC Landfarm – Groundwater Delineation Report, November 5, 2013
Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Brad:

Please find the enclosed report that was submitted to the New Mexico Oil Conservation Division (OCD), on behalf of R360 Environmental Solutions, Inc. (R360), on November 19, 2013. An electronic copy was also sent to your email address on March 20, 2014. Please contact Mr. Wayne Crawley with R360 by phone at 281-873-3205 or by email at WayneC@R360es.com. I may be reached at (432) 6876-0901.

Sincerely,

Larson & Associates, Inc.

A handwritten signature in black ink, appearing to read 'Mark J. Larson', is written over a horizontal line.

Mark J. Larson, P.G.
mark@laenvironmental.com

cc: Wayne Crawley, R360

Encl.



November 19, 2013

VIA EMAIL: brad.a.jones @state.nm.us

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

**Re: R360 Artesia LLC Landfarm – Groundwater Delineation Report, November 5, 2013
Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, Lea County, New Mexico**

Dear Brad:

The enclosed report is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of R360 Environmental Solutions, Inc. (R360), a wholly owned subsidiary of Waste Connections, Inc., to present the results of groundwater delineation at the R360 Artesia, LLC Landfarm (Facility). The Facility is located in Unit A (NE/4, NE/4), Section 7, Township 17 South, Range 32 East, in Lea County, New Mexico. The groundwater delineation was performed according to a work plan approved by the OCD on January 29, 2013. A copy of the OCD approval is presented in Appendix A. R360 would like to schedule a meeting to discuss the investigation results and path forward upon your review of the report. Please contact Mr. Wayne Crawley with R360 by phone at 281-873-3205 or by email at WayneC@R360es.com. I may be reached at (432) 6876-0901.

Sincerely,

Larson & Associates, Inc.

A handwritten signature in black ink, appearing to read 'Mark J. Larson', written over a horizontal line.

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cc: Geoffrey Leking, OCD District 1
Wayne Crawley, R360
Zack Davis, R360

Encl.

GROUNDWATER DELINEATION REPORT

R360 Artesia, LLC Landfarm
Unit A, Section 7, Township 17 South, Range 32 East
Lea County, New Mexico

Project No. 11-0109-09

November 5, 2013

Prepared for:

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1.0 INTRODUCTION

This report presents the results of an investigation to delineate the extent of shallow groundwater discovered in a monitoring well (MW-2) at the R360, Inc. (R360), a wholly owned subsidiary of Waste Connections, Inc. for the R360 Artesia, LLC Landfarm (Site) located in Unit A (NE/4, NE/4), Section 7, Township 17 South and Range 32 East in Lea County, New Mexico. The investigation was performed according to a work plan (*Groundwater Delineation Work Plan, January 29, 2013*) approved by the New Mexico Oil Conservation Division (NMOCD) on January 29, 2013. The Site is a commercial landfarm which operates under permit NM1-30-0 for treating soil and drill cuttings contaminated predominantly by petroleum hydrocarbons. The geodetic position is 32° 51' 171" north and 103° 47' 56.9" west. Figure 1 presents a location and topographic map. Figure 2 presents an aerial drawing. Figure 3 presents a Site drawing. Appendix A presents the NMOCD investigation plan approval.

1.1 Objective

The objective was to define the extent of the shallow groundwater in Cells 5 and 6 to determine where waste can be placed within the landfarm cells. Another objective was to determine the vertical extent of documented vadose zone contamination, pursuant to 19.15.36.15.E NMAC, in landfarm Cells 5 and 6. The investigation involved drilling 7 borings to delineate the extent of shallow groundwater beneath landfarm Cell 5 (SB-4, SB-6 and SB-10) and Cell 6 (SB-7, SB-8, SB-9 and SB-12). Three borings, SB-7, SB-8 and SB-9, were completed as monitoring wells MW-4, MW-5 and MW-6, respectively, to delineate and monitor groundwater quality. Soil samples were collected from 8 borings (SB-1 through SB-6, SB-9 and SB-10) for laboratory analysis to determine the vertical extent of documented vadose zone contamination in Cell 5 and Cell 6. Figure 4 presents a detailed Site drawing showing the boring and monitoring well locations.

2.0 SETTING

2.1 Topography

The Site is located southwest of the Mescalero Ridge a prominent northwest to southeast trending ridge that forms the limits of the "caprock". The surface elevation near the northeast corner of the Site is about 4,030 feet above mean sea level (MSL) and approximately 3,983 feet above MSL near the northeast corner of the Site. The topography slopes to the southwest at approximately 0.01 feet per mile. Taylor Draw is the closest surface water feature and is located about 1 mile west of the Site. Taylor Draw is an ephemeral stream and flows the southwest.

2.2 Soil

The Pyote soils and Dune land, 0 to 3% slopes (PY) is present over the Site and surrounding area. The unit consists of about 45% Pyote soils and 45% Dune land. Due to low fertility the soil is mostly used for range, wildlife and recreation purposes.

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2.3 Geology

The cap rock underlies the High Plains and provides a resistant layer over the Tertiary-age Ogallala formation commonly referred to as the Ogallala or High Plains Aquifer. South of the Mescalero Ridge the Ogallala formation is present where caliche has preserved the formation and has been removed by erosion where caliche is not present.

The surface geology is comprised of Holocene to mid-Pleistocene age wind-blown sand, silt, silty sand, gravel and some caliche. The material was derived principally from reworking the Ogallala formation and is about 12 feet THICK. The Holocene to mid-Pleistocene material is laterally continuous across the Site and unconformably overlies the Chinle formation of the Dockum group (Triassic). The Chinle formation is composed of red to green claystone or shale that includes minor fine grained sandstone and siltstone. The upper contact of the Dockum Group occurs at about 1,387 feet above mean sea level (MSL) and is laterally continuous across the Site. Figure 5 presents a west to east geological cross section (A – A') through landfarm Cells 5 and 6. Figure 4 presents the cross section location.

2.4 Groundwater

Groundwater occurs in the Holocene to mid-Pleistocene age deposits and upper part of the Chinle formation near the southwest corner of the Site. The shallow groundwater occurs between approximately 22.30 and 27.58 feet below ground surface (bgs). The shallow groundwater elevation ranges between approximately 3,990.14 feet above MSL (MW-4) to 3,985.82 feet above MSL at MW-5. The groundwater flow direction is to the southwest at a gradient of approximately 0.183 feet per foot. Figure 6 presents a depth to groundwater map. Figure 7 presents a groundwater potentiometric map.

2.5 Wells

No wells have been identified visually or from records at the Office of the State Engineers (OSE) within 1 mile of the Facility.

3.0 SOIL AND GROUNDWATER INVESTIGATION

3.1 Soil Borings and Monitoring Wells

Between March 19 and 27, 2013, LAI personnel supervised Precision Sampling, of Albuquerque,, New Mexico, to drill 7 borings (S-4, S-6, S-7, S-8, S-9, S-10 and S-12) for delineating shallow groundwater beneath landfarm Cells 5 and 6. The borings were drilled to an elevation of at least 3960 feet above MSL or 50 about feet using a CME Model 85 truck-mounted hollowstem auger rig equipped with 5 foot long core barrel for collecting continuous core samples. The core samples were examined for moisture that would indicate the presence of groundwater. Groundwater was observed in 3 borings, SB-7, SB-8 and SB-9, which were completed as monitoring wells MW-4, MW-5 and MW-6, respectively.

On May 28, 2013, West Companies, located in Midland, Texas, surveyed the borings and monitoring wells for location and elevation. Lithology was described according to the unified soil classification system (ASTM D2487). Contaminated soil was removed from each location to a depth of about 1 foot to expose native soil beneath the landfarm cell. The contaminated soil was placed in a designated stockpile area, along with drill cuttings from the borings, located near the northeast corner of Cell 6.

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The soil borings, monitoring wells and soil stockpile area are shown on Figure 4.

3.1.1 Boring SB-4

Soil boring SB-4 was drilled on March 22, 2013, near the southeast corner of Cell 5. Gravelly clay was observed from about 1 to 3 feet. The gravelly clay is underlain by sand to about 22 feet which is underlain by shale to a depth greater than 50 feet. Moisture was not observed in the core samples which were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage.

Boring SB-4 was completed as a temporary monitoring well due to weak soil structure which caused the borehole to collapse upon removing the augers. Ten (10) feet of 2 inch schedule 40 PVC screen was placed in the boring between approximately 35.68 and 45.60 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 24.5 feet.

The boring was gauged daily between March 24 and March 27, 2013 and groundwater was not observed. On March 28, 2013, the PVC screen and casing was removed and the boring was plugged to surface with cement and bentonite grout. Table 1 presents a soil boring drilling and monitoring well completion summary. Appendix B presents the geologic log for SB-4.

3.1.2 Boring SB-6

Boring SB-6 was drilled on March 22, 2013, near the south center of Cell 5. Gravelly clay was observed from about 1 to 3.5 feet. The gravelly clay is underlain by sand to about 23.5 feet. The sand is interbedded with a layer of clayey sand between about 13.5 and 17 feet. Shale was encountered at about 23.5 feet and was present to a depth greater than 50 feet. Moisture was not observed in the core samples which were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage.

Boring SB-6 was completed as a temporary monitoring well due to the weak soil structure which caused the borehole to collapse upon removing the augers. Ten (10) feet of 2 inch schedule 40 PVC screen was placed in the boring between approximately 35.28 and 44.80 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 24.3 feet.

The boring was gauged daily between March 24 and 27, 2013 and groundwater was not observed. On March 28, 2013, the PVC screen and casing was removed and the boring was plugged to surface with cement and bentonite grout. Table 1 presents a soil boring drilling and monitoring well completion summary. Appendix B presents the geologic log for SB-6.

3.1.3 Boring SB-7 (MW-4)

Boring SB-7 was drilled on March 20 and March 21, 2013, near the south end between Cell 5 and Cell 6. Sand interbedded with caliche and clayey sand was observed between about 1 and 15 feet. The sand is underlain by clayey sand and sandy clay to about 25 feet which is underlain by clay or shale to a depth greater than 50 feet. The clay or shale is interbedded with thin beds of well cemented sandstone. Moisture was observed in core samples from 15 and 20 feet. The core samples were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage.

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Groundwater was observed in borehole SB-7 on the following dates:

Date	Depth (Feet)
March 23, 2013	35.60
March 24, 2013	32.00
March 25, 2013	27.75
March 26, 2013	24.42
March 27, 2013	25.02

On March 27, 2013, boring SB-7 was completed as monitoring well MW-4 with 10 feet of 2 inch schedule 40 PVC screen placed in the borehole between approximately 21.19 and 31.20 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 19.0 feet. A layer of bentonite chips was placed over the sand from about 16.00 to 19.00 feet and hydrated with potable water. The borehole annulus from about 1 to 16 feet was filled with cement and bentonite grout. The annulus above the cement and bentonite grout was filled with aggregate concrete which forms a pad about 3 X 3 feet. The well is secured with a locking steel above-grade protector anchored in the concrete pad. Table 1 presents a borehole drilling and monitoring well completion summary. Appendix B presents the geologic log and well completion record for MW-4.

3.1.4 Boring SB-8 (MW-5)

Boring SB-8 was drilled between March 19 and March 21, 2013, near the center and west side of Cell 6. Clayey sand interbedded with caliche was encountered between about 1 and 12 feet. The clayey sand is underlain by sand, gravelly sand and sandy clay to about 36 feet which is underlain by clay or shale to a depth greater than 50 feet. Metal fatigue caused the cutter head to separate from the lead auger at about 35 feet, therefore, the original boring (SB-8A) was plugged to surface with cement and bentonite grout and a second boring (SB-8) was drilled about 15 feet south of the original location. The core samples were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage.

Moisture was observed in core samples at about 4, 6 and from about 21 to 36 feet. Groundwater was observed in borehole SB-8 on the following dates:

Date	Depth (Feet)
March 22, 2013	36.00
March 23, 2013	35.50
March 24, 2013	34.50
March 25, 2013	33.50
March 26, 2013	32.10
March 27, 2013	30.85

On March 27, 2013, boring SB-8 was completed as monitoring well MW-5 with 10 feet of 2 inch schedule 40 PVC screen placed in the borehole between approximately 29.45 and 39.95 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 26.00 feet. A layer of bentonite chips was placed over the sand from 23.00 and 26.00 feet and hydrated with potable water. The borehole annulus from about 1 to 23.00 feet was filled with cement and bentonite grout. The

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annulus above the cement and bentonite grout was filled with aggregate concrete which forms a pad about 3 X 3 feet. The well is secured with a locking steel above-grade protector anchored in the concrete pad. Table 1 presents a drilling and completion summary. Appendix B presents the geologic log and well completion record for MW-5.

3.1.5 Boring SB-9 (MW-6)

Boring SB-9 was drilled on March 23, 2013, near the center and east side of Cell 6. Gravelly clay was encountered between about 1 and 2.5 feet. Sand was observed below the gravelly clay to a depth of about 25 feet. A layer of sandstone was encountered below the sand from about 25 to 32 feet and is underlain by shale to a depth greater than 50 feet. No moisture was observed in the core samples which were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage. Boring SB-9 was completed as a temporary monitoring well.

Groundwater was observed in borehole SB-9 on the following dates:

Date	Depth (Feet)
March 25, 2013	32.25
March 26, 2013	35.40
March 27, 2013	34.95

On March 27, 2013, boring SB-9 was completed as monitoring well MW-6 with 10 feet of 2 inch schedule 40 PVC screen installed between approximately 30.71 and 40.08 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 28.00 feet. A layer of bentonite chips was placed over the sand from about 25.00 to 28.00 feet and hydrated with potable water. The borehole annulus from about 1 to 25.00 feet was filled with cement and bentonite grout. The annulus above the cement and bentonite grout was filled with aggregate concrete which forms a pad about 3 X 3 feet. The well is secured with a locking steel above-grade protector anchored in the concrete pad. Table 1 presents a drilling and completion summary. Appendix B presents the geologic log and well completion record for MW-6.

3.1.6 Boring SB-10

Boring SB-10 was drilled on March 22, 2013, near the center and west side of Cell 5. Gravelly clay was observed from about 1 to 3.5 feet. The gravelly clay is underlain by sand between about 3.5 and 21 feet. A layer of clayey sand was observed between about 21 and 26 feet and underlain by a layer of sandy and clayey gravel from about 26 to 27.50 feet. Shale was encountered below the sandy and clayey gravel to a depth greater than 50 feet. Moisture was not observed in the core samples which were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage.

Boring SB-10 was completed as a temporary monitoring well due to weak soil structure which caused the borehole to collapse upon removing the augers. Ten (10) feet of 2 inch schedule 40 PVC screen was installed in the boring between approximately 35.81 and 45.73 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 25.2 feet.

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The boring was gauged daily between March 24 and 27, 2013 and groundwater was not observed. On March 28, 2013, the PVC screen and casing was removed and the boring was plugged to surface with cement and bentonite grout. Table 1 presents a drilling and completion summary. Appendix B presents the geologic log for SB-10.

3.1.7 Boring SB-12

On March 23, 2013, boring SB-12 was drilled near the center and north end of Cell 6. Silty clay was observed from about 1 to 1.5 feet. The silty clay is underlain by sand from about 1.5 and 23 feet. A layer of clayey gravel was observed between about 17 and 18 feet. The sand is underlain by silty and clayey sand from about 23 to 32.50 feet. Shale was encountered below the silty and clayey sand at about 32.5 feet. Moisture was observed in the core sample at about 29 feet therefore drilling was suspended overnight to allow groundwater to accumulate in the boring. The augers were retracted about 5 feet to allow groundwater to enter the boring. On March 24, 2013, groundwater was not observed and boring SB-12 was deepened to 50 feet. The core samples were wrapped in plastic wrap and aluminum foil and placed in cardboard boxes for preservation and storage.

On March 24, 2013, boring SB-12 was completed as a temporary monitoring well due to the weak structure of the shale which caused the borehole to collapse upon removing the augers. Ten (10) feet of 2 inch schedule 40 PVC screen was temporarily installed in the boring between approximately 38.44 5.81 and 47.96 feet. The screen was surrounded with silica sand from the bottom of the screen to approximately 31.0 feet.

The boring was gauged daily between March 25 and 27, 2013 and groundwater was not observed. On March 28, 2013, the PVC screen and casing was removed and the boring was plugged to surface with cement and bentonite grout. Table 1 presents a drilling and completion summary. Appendix B presents the geologic log for SB-12.

3.2 Background Soil Samples

Between July 15 and 17, 2013, LAI personnel collected background composite samples from 12 grids in the area located north of Cells 5 and 6. The samples were collected according to a plan that was approved by the OCD on July 1, 2013. Each composite sample consisted of sixteen (16) discrete samples that were collected with a stainless steel hand auger. The hand auger was cleaned between samples with a solution of distilled water and laboratory-grade detergent (Alkonox®) and rinsed with distilled water. Each discrete sample was collected in a 4-ounce glass jar and chilled in an ice chest. Upon collection 16 discrete samples the samples were composited into a single sample by mixing in a stainless steel bowl and transferring to laboratory containers using a stainless steel trowel. The stainless steel bowl and trowel were decontaminated between composite samples as previously stated. The laboratory containers were labeled, chilled to at least 4°C and delivered under chain of custody to DHL Analytical located in Round Rock, Texas. The laboratory analyzed the samples for total recoverable petroleum hydrocarbons (TRPH) by method 418.1, BTEX by method SW-846-8021B, chloride by method E300 and the constituents listed in Subsection A and B of 20.6.2.3103 NMAC. Table 3a through 3e presents the background soil analytical data summaries. Figure 8 presents the background sample locations. Appendix A presents the OCD approval.

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No concentrations of volatile (Table 3a), semi-volatile (Table 3b) or polychlorinated biphenyl (Table 3c) were reported by the laboratory above the method detection limits (MDL). Metal (Table 3d) constituents reported at concentrations above the MDL included arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, mercury, selenium, and zinc. Silver was not reported above the MDL in the background samples. The following is a summary of the average and 2 standard deviations of the detected metal constituents reported in the background samples:

Metal	Mean (mg/Kg)	2 Standard Deviations (mg/Kg)
Arsenic	2.38	3.61
Barium	68.96	168.37
Cadmium	0.21	0.35
Chromium	7.13	11.04
Copper	3.12	6.44
Iron	6,731	9,634.36
Lead	5.71	16.10
Manganese	78.34	152.70
Mercury	<0.0164	0.0624
Selenium	0.90	1.50
Silver	<0.106629	1.41
Zinc	17.52	34.84

Cyanide and nitrate (Table 3e) were not reported above the MDL in the background samples. The following is a summary of the average and 2 standard deviations of TRPH, chloride, fluoride and sulfate concentrations reported in the background samples:

Constituent	Mean (mg/Kg)	2 Standard Deviations (mg/Kg)
TRPH	229	533.24
Chloride	31.0	747.0
Fluoride	2.53	6.18
Sulfate	808	6,239

3.3 Soil Samples (Release Determination)

Soil samples were collected from 8 borings (SB-1 through SB-6, SB-9 and SB-10) that were installed in landfarm Cells 5 (SB-3, SB-4, SB-6 and SB-10) and 6 (SB-1, SB-2, SB-5 and SB-9) to confirm possible vadose contamination. The samples were collected using the continuous sampler at approximately 2 to 3, 5 to 7, 7 to 9 and 10 to 12 feet bgs, depending on sample recovery. The samples were submitted under preservation and chain of custody to DHL Analytical, located in Round Rock, Texas, and were analyzed the samples for benzene, toluene, ethylbenzene, xylenes (BTEX) by method SW-8021B, total recoverable petroleum hydrocarbons (TRPH) by method 418.1, chloride by method E300 and constituents listed in Subsections A and B of 20.6.2.3013 NMAC, excluding uranium and radioactivity (radium-226 and radium-228). The borings were plugged to surface with cement and bentonite grout after collecting the soil samples. Tables 3a through 3e present the soil analytical data summaries.

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Figure 4 presents the boring locations. Appendix C presents the laboratory reports on CD.

Referring to Table 3a (*Soil Volatile Organic Analytical Data Summary*) no volatile organic compounds (VOC) were detected in the soil samples.

Referring to Table 3b (*Soil Semi-volatile Organic Analytical Data Summary*) no semi-volatile organic compounds (SVOC) were detected in the soil samples.

Referring to Table 3c (*Soil PCB Analytical Data Summary*) no PCB was detected in the soil samples.

Referring to Table 3d (*Soil Metals Analytical Data Summary*) concentrations of metals exceeding two (2) standard deviations of the mean background concentration were arsenic, barium, chromium, iron, and selenium. The following metals exceeded two (2) standard deviations of the mean background concentration of metals in Cell 5:

Parameter	Two (2) Standard Deviation Background (mg/Kg)	Concentration (mg/Kg)
Arsenic	3.61	3.92 – 4.06
Barium	168.37	184 -411
Chromium	11.04	11.9 – 12.0
Iron	9,634.36	9,690 – 13,900

The following metals exceeded two (2) standard deviations of the mean background concentration of metals in Cell 6:

Parameter	Two (2) Standard Deviation Background (mg/Kg)	Concentration (mg/Kg)
Arsenic	3.61	3,71 – 3.87
Barium	168.37	210 – 356
Chromium	11.04	11.5 – 12.5
Iron	9,634.36	10,900 – 14,300

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Selenium	1.50	1.65 – 3.26
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The area of elevated metals in Cell 6 is situated where shallow groundwater is present (SB-1, SB-2 and SB-5).

Referring to Table 3e (*Soil TPH and Anion Analytical Data Summary*) concentrations exceeding two (2) standard deviations of the mean background concentration were TRPH, chloride, fluoride, nitrate (N) and pH. The following is a summary of TRPH and anions exceeding two (2) standard deviations of the background concentration in Cell 5:

Parameter	Two (2) Standard Deviation Background (mg/Kg)	Concentration (mg/Kg)
TRPH	533.24	7,740
Chloride	747.0	802 – 2,310
Fluoride	6.18	7.73 – 11.0
Nitrate–N	6.34	7.23 – 8.45
pH	7.94	8.22 – 8.61

The concentration of TRPH and chloride in sample from SB-6, 2 to 3 feet (7,740 mg/Kg) suggests possible vertical migration into the vadose zone or a thickened layer of treated soil at this location.

The elevated chloride in samples from boring SB-6, 5 to 7 and 10 to 12 feet, suggest possible vertical migration into the vadose zone at this location.

The following is a summary of anions exceeding two (2) standard deviations of the background concentration in Cell 6:

Parameter	Two (2) Standard Deviation Background (mg/Kg)	Concentration (mg/Kg)
Fluoride	6.18	6.24 – 7.84
Nitrate–N	6.34	8.87

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pH	7.94	7.94 – 8.65
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Contaminated soil was removed from the locations prior to drilling (SP-1) and drill cuttings (SP-2) were piled separately in an area near the northeast corner of landfarm Cell 6, as shown on Figure 3. On March 27, 2013, LAI personnel collected a 5-spot composite sample from each pile for laboratory analysis, including BTEX by method SW-8021B, TRPH by method 418.1, chloride by method E300 and constituents listed in Subsections A and B of 20.6.2.3013 NMAC, excluding uranium and radioactivity (radium-226 and radium-228). Tables 3a through 3e present the soil pile analytical data summaries. Appendix C presents the laboratory reports on CD.

Referring to Table 3a (*Soil Volatile Organic Analytical Data Summary*) no volatile organic compounds (VOC) were detected in the soil pile samples.

Referring to Table 3b (*Soil Semi-volatile Organic Analytical Data Summary*) no semi-volatile organic compounds (SVOC) were detected in the soil pile samples.

Referring to Table 3c (*Soil PCB Analytical Data Summary*) no PCB was detected in the soil pile samples.

Referring to Table 3d (*Soil Metals Analytical Data Summary*) concentrations of metals in the contaminated soil pile (SP-1) and drill cuttings soil pile (SP-2) is summarized below:

Parameter	Two (2) Standard Deviation Background (mg/Kg)	Contaminated Soil (SP-1) (mg/Kg)	Drill Cuttings (SP-2) (mg/Kg)
Barium	168.37	--	206
Chromium	11.04	--	15.0
Copper	6.44	--	6.66
Iron	9,634.36	--	9,890
Selenium	1.50	1.80	1.65

Referring to Table 3e (*Soil TPH and Anion Analytical Data Summary*) concentrations of TRPH, chloride, and sulfate in the contaminated soil pile (SP-1) and drill cuttings soil pile (SP-2) is summarized below:

Parameter	Two (2) Standard Deviation Background (mg/Kg)	Contaminated Soil (SP-1) (mg/Kg)	Drill Cuttings (SP-2) (mg/Kg)
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	(mg/Kg)		
TRPH	533.24	1,450	--

3.4 Groundwater Samples

The new wells (MW-4, MW-5 and MW-6) were developed to remove fine grained material disturbed during drilling and well installation. Development was performed by hand bailing due to limited groundwater volumes using dedicated disposable polyethylene bailers until the purged water was visible clear of sediment. Existing monitoring wells MW-2, MW-W40, MW-S40 and MW-E40 were also purged using dedicated polyethylene bailers. The wells were purged dry 3 times prior to collecting the groundwater samples. Groundwater samples were collected using the dedicated disposable polyethylene bailers due to the limited volume of groundwater which prohibited using low flow sampling procedures. The samples were carefully poured from the bailers into laboratory provided containers that were labeled and chilled in an ice chest following collection.

Groundwater samples were collected from the existing (MW-2, MW-W40, MW-S40 and MW-E40) and new monitoring wells (MW-4, MW-5 and MW-6) on May 6 and 7, 2013. Containers for VOC's were only collected from wells MW-S40 and MW-W40 due to lack of water to fill the remaining containers. The samples were delivered under preservation and chain of custody to DHL located in Round Rock, Texas. The laboratory analyzed the samples for cations (sodium, calcium, magnesium and potassium), anions (nitrate-N, chloride, sulfate and alkalinity), total dissolved solids (TDS) and constituents listed in Subsections A and B of 20.6.2.3013 NMAC, excluding uranium and radioactivity (radium-226 and radium-228). Tables 7 through 11 present the analytical data summaries. Appendix C presents the laboratory reports on CD.

Referring to Table 7 (*Groundwater Volatile Organic Analytical Data Summary*), no VOC's were detected in the groundwater samples at the method detection limit (MDL).

Referring to Table 8 (*Groundwater Semi-volatile Organic Analytical Data Summary*), no SVOC's were detected in the groundwater samples at the MDL.

Referring to Table 9 (*Groundwater PCB Analytical Data Summary*), no PCBs were detected in the groundwater samples at the MDL.

Referring to Table 10 (*Groundwater Metals Analytical Data Summary*), concentrations of arsenic, barium, cadmium, chromium, copper, iron, lead, mercury, selenium, silver and zinc were below the method detection limit or the New Mexico Water Quality Control Commission (WQCC) human health standards in the groundwater samples. Manganese exceeded the WQCC domestic water quality standard of 0.2 milligrams per liter (mg/L) in the groundwater sample from MW-E40 located south of Cell 6.

Referring to Table 11 (*Groundwater Cation and Anion Analytical Data Summary*), cyanide was below the MDL. Nitrate was below the WQCC human health standard of 10 mg/L. Fluoride was slightly above the WQCC human health standard of 1.6 mg/L in samples from MW-2 (1.77 mg/L), MW-4 (1.67 mg/L) and MW-6 (1.68 mg/L). Chloride ranged from 436 mg/L (MW-E40) to 901 mg/L (MW-5) and exceeded

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the WQCC domestic water quality standard of 250 mg/L. Figure 9 presents a chloride concentration map.

Sulfate ranged from 561 mg/L (MW-E40) to 1,650 mg/L and exceeded the WQCC domestic water quality standard (600 mg/L) in all wells except MW-E40. TDS ranged from 2,090 mg/L (MW-E40) to 4,240 mg/L and exceeded the WQCC domestic water quality standard of 1,000 mg/L. Figure 10 presents a TDS concentration map.

Groundwater pH ranged from 7.03 to 7.40 standard units (s.u.) and is within the WQCC domestic water quality standard from 6.0 to 9.0.

4.0 GROUNDWATER DELINEATION

The extent of shallow unconfined groundwater was defined and extends about 350 feet north into Cell 6 and into the southwest corner of Cell 5. Figure 11 presents the extent of shallow ground beneath landfarm Cells 5 and 6.

5.0 CONCLUSIONS

- No VOC, SVOC, polycyclic aromatic hydrocarbons (PAH) and PCB were detected in soil samples at the method detection limits;
- Concentrations of arsenic, barium, chromium and iron in vadose soil from Cell 5 exceeded two (2) times the standard deviation of the mean background concentrations;
- Concentrations of arsenic, barium, chromium, iron and selenium in vadose soil from Cell 6 two (2) times the standard deviation of the mean background concentrations;
- The area of elevated metals in landfarm Cell 6 is situated where shallow groundwater is present (SB-1, SB-2, SB-5 and SB-7);
- TRPH was less than two (2) times the standard deviation of the mean background concentration (533.24 mg/kg) except Cell 5 (SB-6, 2 to 3 feet) where TRPH was 7,740 mg/Kg and suggests possible vertical migration into the vadose zone or a thickened layer of treated soil at this location;
- The elevated chlorides in samples from boring SB-6 suggest possible vertical migration into the vadose zone at this location.
- The analysis of groundwater samples from monitoring wells did not report concentrations of volatile organic, semi-volatile organic, including polycyclic aromatic hydrocarbons (PAH) and PCB above method detection limits;
- Concentrations of arsenic, barium, cadmium, chromium, copper, iron, lead, mercury, selenium, silver and zinc in groundwater were below the method detection limit or the New Mexico Water Quality Control Commission (WQCC) human health standards;

November 19, 2013

- The WQCC domestic water quality standard for manganese (0.2 mg/L) was exceeded in the groundwater sample from MW-E40 located south of Cell 6.
- Cyanide was below the method detection limit in the groundwater samples;
- Nitrate was below the WQCC human health standard (10 mg/L) in the groundwater samples;
- Concentrations of fluoride were slightly above the WQCC human health standard (1.6 mg/L) in samples from MW-2 (1.77 mg/L), MW-4 (1.67 mg/L) and MW-6 (1.68 mg/L);
- Chloride in samples from all wells ranged from 436 mg/L (MW-E40) to 901 mg/L (MW-5) and exceeded the WQCC domestic water quality standard of 250 mg/L;
- Sulfate in samples from all wells ranged from 561 mg/L (MW-E40) to 1,650 mg/L and exceeded the WQCC domestic water quality standard (600 mg/L) except MW-E40;
- TDS in samples from all wells ranged from 2,090 mg/L (MW-E40) to 4,240 mg/L and exceeded the WQCC domestic water quality standard of 1,000 mg/L;
- Groundwater pH ranged from 7.03 to 7.40 standard units (s.u.) and is within the WQCC acceptable range of 6.0 to 9.0 s.u.;
- The delineation of groundwater determined that groundwater is present at depths between approximately 23 and 28 feet below the southwest corner of Cell 5 and the southern two-thirds of Cell 6.

6.0 REFERENCES

- Alexander Nicholson, Jr. and Alfred Clebsch, Jr., 1961. *Geology and Ground-Water Resources of Lea County, New Mexico: New Mexico Institute of Mining & Technology Ground-Water Report 6*, 123 p.
- Turner, M.T., Cox, D.C., Mickelson, B.C., Roath, A.J. and Wilson, C.D., 1974. *Soil Survey of Lea County, New Mexico: U.S. Department of Agriculture Soil Conservation Service 89* p.

TABLES

Table 1
Soil Boring Drilling and Monitoring Well Completion Summary
R360 Artesia LLC Landfarm
Lea County, New Mexico

Well Information										Groundwater Data			
Location	Well	Cell	Date Installed	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Water	Groundwater Elevation
--	MW-2	--	05/27/2005	40	28.27	2	4,012.5	15 - 25	3.40	4,015.90	05/28/2013	27.31	3,988.00
--	MW-E40	--	12/02/2008	--	27.14	1	4,011.4	18 - 28	-0.03	4,011.43	05/28/2013	23.66	3,987.77
--	MW-S40	--	12/02/2008	--	26.16	1	4,011.9	16 - 26	-0.07	4,011.83	05/28/2013	25.17	3,986.66
	MW-W40	--	12/02/2008	--	27.10	1	4,011.5	17 - 27	-0.03	4,011.53	05/28/2013	22.27	3,989.26
SB-1	N/C	6	03/26/2013	12.00	N/C	N/C	4,010.2	N/C	N/C	--	03/27/2013	DRY	--
SB-2	N/C	6	03/26/2013	12.00	N/C	N/C	4,011.8	N/C	N/C	--	03/27/2013	DRY	--
SB-3	N/C	5	03/26/2013	12.00	N/C	N/C	4,014.7	N/C	N/C	--	03/27/2013	DRY	--
SB-4	Temporary	5	03/24/2013	50.00	46.15	2	4,016.8	35.68 - 45.20	0.55	--	03/24/2013	DRY	--
											03/25/2013	DRY	--
											03/26/2013	DRY	--
											03/27/2013	DRY	--
SB-5	N/C	6	03/26/2013	12.00	N/C	N/C	4,011.6	N/C	N/C	--	03/27/2013	DRY	--
SB-6	Temporary	5	03/24/2013	50.00	46.20	2	4,017.3	35.28 - 44.80	1.00	--	03/24/2013	DRY	--
											03/25/2013	DRY	--
											03/26/2013	DRY	--
											03/27/2013	DRY	--
SB-7	MW-4	6	03/26/2013	50.00	33.95	2	4,013.4	21.19 - 30.56	2.69	4,016.12	04/01/2013	25.29	3,990.83
											04/05/2013	25.34	3,990.78
											04/12/2013	25.39	3,990.73
											04/18/2013	25.50	3,990.62
											04/19/2013	25.45	3,990.67
											05/28/2013	25.52	3,990.60
SB-8	MW-5	6	03/27/2013	50.00	41.55	2	4,013.4	29.49 - 38.86	2.05	4,015.45	04/01/2013	29.95	3,985.50
											04/05/2013	29.89	3,985.56
											04/12/2013	29.93	3,985.52
											04/18/2013	--	--

Table 1
Soil Boring Drilling and Monitoring Well Completion Summary
R360 Artesia LLC Landfarm
Lea County, New Mexico

Well Information										Groundwater Data			
Location	Well	Cell	Date Installed	Drilled Depth (bgs)	Well Depth from TOC	Well Diameter (inches)	Surface Elevation	Screen Interval (bgs)	Casing Stickup	TOC Elevation	Date Gauged	Depth to Water	Groundwater Elevation
SB-8A	N/C	6.0	03/19/2013	36.00	N/C	N/C	4,014.1	N/C	N/C	N/C	03/20/2013	Dry	--
SB-9	MW-6	6	03/27/2013	50.00	43.50	2	4,015.9	30.71 - 40.08	2.87	4,018.77	04/01/2013 04/05/2013 04/12/2013 04/18/2013 04/19/2013 05/28/2013	31.28 29.93 29.90 -- 29.80 29.63	3,987.49 3,988.84 3,988.87 -- 3,988.97 3,989.14
SB-10	Temporary	5	03/23/2013	50.00	48.15	2		35.81 - 45.33	2.42	--	03/24/2013 03/25/2013 03/26/2013 03/27/2013	Dry Dry Dry Dry	-- -- -- --
SB-12	Temporary	6	03/25/2013	50.00	50.30	2		38.44 - 47.96	1.90	--	03/25/2013 03/26/2013 03/27/2013	Dry Dry Dry	-- -- --

Notes: Borings drilled using CME 85 hollowstem auger rig by Precision Sammpling, Albuquerque, New Mexico
Elevations are above mean sea level referenced to 1984 Geodetic Datum.
All values are in feet, unless otherwise noted.

bgs - below ground surface

TOC - top of casing

N/C denotes boring for samples only

Temporary indicates well materials removed before plugging on March 28, 2013

Table 2a
Soil Background Volatile Organic Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Depth	Benzene	Toluene	Carbon tetrachloride	1,2-Dichloroethane	1,1-Dichloroethylene	Tetrachloroethylene	Trichloroethylene	Ethylbenzene	Total Xylenes	Methylene chloride	Chloroform	1,1-Dichloroethane	Ethylene bromide	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	Vinyl chloride
Composite 1	07/15/13	1 - 2	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.00469	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939	<0.000939
Composite 2	07/15/13	1 - 2	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00560	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112
Composite 3	07/16/13	1 - 2	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00523	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105
Composite 4	07/16/13	1 - 2	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00514	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103
Composite 5	07/17/13	1 - 2	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.00466	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932	<0.000932
Composite 6	07/17/13	1 - 2	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00535	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107	<0.00107
Composite 7	07/15/13	1 - 2	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.00487	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973	<0.000973
Composite 8	07/15/13	1 - 2	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.00450	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899	<0.000899
Composite 9	07/16/13	1 - 2	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00570	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114	<0.00114
Composite 10	07/16/13	1 - 2	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00507	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101
Composite 11	07/17/13	1 - 2	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.00489	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979	<0.000979
Composite 12	07/17/13	1 - 2	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00589	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118	<0.00118

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per kilograms (mg/kg).

1. <: Not detected at method detection limit

2. BDL: Below method detection limit

Table 2c
Soil Background PCB Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Depth	Aroclor 1016 BDL	Aroclor 1221 BDL	Aroclor 1232 BDL	Aroclor 1242 BDL	Aroclor 1248 BDL	Aroclor 1254 BDL	Aroclor 1260 BDL
Composite 1	07/15/13	1 - 2	<0.0870	<0.0870	<0.0870	<0.0870	<0.0870	<0.0870	<0.0870
Composite 2	07/15/13	1 - 2	<0.103	<0.103	<0.103	<0.103	<0.103	<0.103	<0.103
Composite 3	07/16/13	1 - 2	<0.0883	<0.0883	<0.0883	<0.0883	<0.0883	<0.0883	<0.0883
Composite 4	07/16/13	1 - 2	<0.0851	<0.0851	<0.0851	<0.0851	<0.0851	<0.0851	<0.0851
Composite 5	07/17/13	1 - 2	<0.0860	<0.0860	<0.0860	<0.0860	<0.0860	<0.0860	<0.0860
Composite 6	07/17/13	1 - 2	<0.0891	<0.0891	<0.0891	<0.0891	<0.0891	<0.0891	<0.0891
Composite 7	07/15/13	1 - 2	<0.0844	<0.0844	<0.0844	<0.0844	<0.0844	<0.0844	<0.0844
Composite 8	07/15/13	1 - 2	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167
Composite 9	07/16/13	1 - 2	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195
Composite 10	07/16/13	1 - 2	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168
Composite 11	07/17/13	1 - 2	<0.0884	<0.0884	<0.0884	<0.0884	<0.0884	<0.0884	<0.0884
Composite 12	07/17/13	1 - 2	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102

Notes: Analysis performed by method SW-846-6020 by DHL Analytical, Inc., Round Rock, Texas
Results are reported in milligram per Kilograms (mg/kg).

1. <: Not detected at method detection limit
2. BDL: Below method detection limit

Table 2d
Soil Background Metals Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Sample Depth (Feet)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
Mean Background Concentration:			2.38	68.96	0.21	7.13	3.12	6,731	5.71	78.34	<0.0164	0.90	<0.106629	17.52
Composite 1	07/15/13	1 - 2	2.44	92.1	0.206	8.81	5.85	7,830	22.30	101.0	<0.0152	1.140	<0.0988	24.0
Composite 2	07/15/13	1 - 2	2.86	80.9	0.224	9.09	4.99	7,810	9.24	83.5	0.0112	1.090	<0.0637	25.1
Composite 3	07/16/13	1 - 2	3.61	196.0	0.302	10.80	6.23	9,710	7.28	165.0	<0.0152	1.490	<0.101	28.7
Composite 4	07/16/13	1 - 2	3.15	134.0	0.371	10.20	4.76	8,530	7.17	143.0	0.0936	1.330	<0.101	23.4
Composite 5	07/17/13	1 - 2	2.18	99.6	0.175	6.33	2.68	5,730	5.00	67.2	<0.0161	0.862	<0.0938	15.4
Composite 6	07/17/13	1 - 2	2.85	131.0	0.222	7.23	3.43	6,540	4.94	83.6	<0.0168	0.927	<0.0984	15.1
Composite 7	07/15/13	1 - 2	2.70	78.4	0.275	8.22	4.83	8,020	10.30	112.0	<0.0163	1.270	<0.101	39.7
Composite 8	07/15/13	1 - 2	1.54	19.6	<0.0983	4.57	1.37	5,200	2.82	45.6	<0.0149	0.503	<0.0983	10.1
Composite 9	07/16/13	1 - 2	2.01	29.2	0.158	5.98	1.73	6,710	3.46	54.9	<0.00952	0.828	<0.0608	12.9
Composite 10	07/16/13	1 - 2	1.71	22.4	0.136	5.05	1.53	5,560	2.92	50.4	<0.0162	0.654	<0.0995	10.6
Composite 11	07/17/13	1 - 2	2.73	88.5	0.191	6.93	2.97	6,370	4.14	80.5	<0.0159	0.754	<0.0995	14.6
Composite 12	07/17/13	1 - 2	1.70	50.9	0.134	5.41	2.06	4,600	3.70	42.0	<0.0100	0.587	<0.0610	11.1
Two (2) Standard Deviations (Background):			3.61	168.37	0.35	11.04	6.44	9,634.36	16.10	152.70	0.0624	1.50	0.141	34.84

Notes: Analysis performed by method SW-846- by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

Background analysis was performed by SW846 method 8260B

1. <: Not detected at method detection limit

Table 2e
Soil Background TPH and Anion Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Depth	TRPH	Cyanide	Chloride	Fluoride	Nitrate-N	Sulfate	pH
Mean Background Concentration:									
Composite 1	07/15/13	1 - 2	169	<0.206	240	4.34	<5.23	759	7.82
Composite 2	07/15/13	1 - 2	341	<0.215	268	7.49	<6.37	311	7.45
Composite 3	07/16/13	1 - 2	356	<0.194	237	2.35	<5.30	7,400	7.42
Composite 4	07/16/13	1 - 2	275	<0.188	1,100	2.16	<5.23	7,170	7.67
Composite 5	07/17/13	1 - 2	239	<0.203	183	2.69	<5.20	463	7.87
Composite 6	07/17/13	1 - 2	192	<0.170	874	3.71	<5.31	3,170	7.60
Composite 7	07/15/13	1 - 2	390	<0.187	65.1	2.38	<5.07	69	7.59
Composite 8	07/15/13	1 - 2	<4.78	<0.180	<5.06	1.16	<5.06	12	7.52
Composite 9	07/16/13	1 - 2	33.8	<0.240	<5.86	1.28	<5.86	<11.7	7.82
Composite 10	07/16/13	1 - 2	<5.02	<0.171	<5.02	<1.00	<5.02	<10.0	7.68
Composite 11	07/17/13	1 - 2	461	<0.195	457	2.65	<5.28	3,180	7.64
Composite 12	07/17/13	1 - 2	251	<0.250	14.8	1.76	<6.26	2,460	7.72
Two (2) Standard Deviations (Background):			533.24	0.25	747.0	6.18	6.34	6,239	7.94

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas.
Results are reported in milligram per Kilograms (mg/Kg).

1. <: Not detected at method detection limit

Table 3a
Soil Volatile Organic Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Cell	Depth (feet)	Mean Background Concentration:																
				Benzene	Toluene	Carbon tetrachloride	1,2-Dichloroethane	1,1-Dichloroethylene	Tetrachloroethylene	Trichloroethylene	Ethylbenzene	Total Xylenes	Methylene chloride	Chloroform	1,1-Dichloroethane	Ethylene bromide	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	Vinyl chloride
SB-1	03/26/13	6	2 - 2.5	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	
			5 - 7	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894	<0.000894
			7 - 8.5	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897	<0.000897
SB-2	03/26/13	6	2 - 3	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912	<0.000912
			5 - 7	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967	<0.000967
			7 - 8.5	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112
SB-3	03/26/13	5	2 - 3	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103
			5 - 7	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971	<0.000971
			7 - 9	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766	<0.000766
SB-4	03/22/13	5	2 - 3	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
			5 - 7	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975	<0.000975
			7 - 9	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105
SB-5	03/26/13	6	2 - 3	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985	<0.000985
			5 - 7	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111
			7 - 9	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112	<0.00112
SB-6	03/22/13	5	2 - 3	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103
			5 - 7	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851	<0.000851
			10 - 12	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961	<0.000961
SB-9	03/22/13	6	2 - 2.7	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120	<0.00120
			5 - 7	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921	<0.000921
			7 - 9	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106	<0.00106
SB-10	03/22/13	5	2 - 3	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934	<0.000934
			5 - 7	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956	<0.000956
			7 - 9	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104	<0.00104
Soil Piles	03/27/13	--	10 - 12	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941	<0.000941
			pile	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916	<0.000916
			pile	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890	<0.000890

Notes: Analysis performed by method SW-846-9056 by DHI Analytical, Inc., Round Rock, Texas
Results are reported in milligram per Kilograms (mg/kg).

- 1. <: Not detected at method detection limit
- 2. BDL: Below method detection limit

Table 3b
Soil Semi-Volatile Organic Analytical Data Summary
R500 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Cell	Depth (feet)	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Benzo[a]pyrene	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,6-Dichlorophenol	2-Chlorophenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4-Chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Total Phenol
Mean Background Concentrations:																							
SB-1	03/26/13	6	2-2.5	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	
			5-7	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	
			7-8.5	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	
			10-12	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	
SB-2	03/26/13	6	2-3	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	
			5-7	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	
			7-8.5	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	<0.0113	
			10-12	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	
SB-3	03/26/13	5	2-3	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	
			5-7	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	
			7-9	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	<0.00994	
			10-12	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	
SB-4	03/22/13	5	2-3	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	<0.0106	
			5-7	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	
			7-9	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	<0.0108	
			10-12	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	<0.00983	
SB-5	03/26/13	6	2-3	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	<0.00973	
			5-7	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	
			7-9	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	
			10-12	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	<0.0104	
SB-6	03/22/13	5	2-3	3.65	3.01	0.688	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	<0.161	<0.0537	<0.107	<0.269	<0.0537	<0.0537	
			5-7	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.00981	<0.0294	<0.00981	<0.0196	<0.0491	<0.00981	
			10-12	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0300	<0.0100	<0.0200	<0.0500	<0.0100	<0.0100	
SB-9	03/22/13	6	2-2.7	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0122	<0.0367	<0.0122	<0.0245	<0.0611	<0.0122	<0.0122	
			5-7	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0101	<0.0304	<0.0101	<0.0203	<0.0507	<0.0101	<0.0101	
			7-9	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0335	<0.0112	<0.0224	<0.0559	<0.0112	<0.0112	
			10-12	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0129	<0.0388	<0.0129	<0.0259	<0.0647	<0.0129	<0.0129	
SB-10	03/22/13	5	2-3	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0112	<0.0335	<0.0112	<0.0224	<0.0559	<0.0112	<0.0112	
			5-7	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.00989	<0.0297	<0.00989	<0.0198	<0.0495	<0.00989	<0.00989	
			7-9	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0109	<0.0328	<0.0109	<0.0218	<0.0546	<0.0109	<0.0109	
			9-10	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0111	<0.0332	<0.0111	<0.0221	<0.0553	<0.0111	<0.0111	
			10-12	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0110	<0.0330	<0.0110	<0.0220	<0.0550	<0.0110	<0.0110	
Soil Piles																							
SP-1	03/27/13	-	pile	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0306	<0.0102	<0.0204	<0.0510	<0.0102	<0.0102	
SP-2	03/27/13	-	pile	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0102	<0.0307	<0.0102	<0.0204	<0.0511	<0.0102	<0.0102	

Notes: Analysis performed by method SW-846-8270 by DHI Analytical, Inc., Round Rock, Texas
 Results are reported in milligram per kilogram (mg/kg)
 1. <: Not detected at method detection limit
 2. BDL: Below method detection limit
Bold and highlighted exceeds mean background concentration

Table 3c
Soil PCB Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Cell	Depth (feet)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Mean Background Concentration:										
SB-1	03/26/13	6	2-2.5	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169
			5-7	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177
			7-8.5	<0.0176	<0.0176	<0.0176	<0.0176	<0.0176	<0.0176	<0.0176
			10-12	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177
SB-2	03/26/13	6	2-3	<0.0162	<0.0162	<0.0162	<0.0162	<0.0162	<0.0162	<0.0162
			5-7	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170
			7-8.5	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189
			10-12	<0.0203	<0.0203	<0.0203	<0.0203	<0.0203	<0.0203	<0.0203
SB-3	03/26/13	5	2-3	<0.0176	<0.0176	<0.0176	<0.0176	<0.0176	<0.0176	<0.0176
			5-7	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177
			7-9	<0.0166	<0.0166	<0.0166	<0.0166	<0.0166	<0.0166	<0.0166
			10-12	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173
SB-4	03/22/13	5	2-3	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177	<0.0177
			5-7	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168	<0.0168
			7-9	<0.0181	<0.0181	<0.0181	<0.0181	<0.0181	<0.0181	<0.0181
			10-12	<0.0164	<0.0164	<0.0164	<0.0164	<0.0164	<0.0164	<0.0164
SB-5	03/26/13	6	2-3	<0.0162	<0.0162	<0.0162	<0.0162	<0.0162	<0.0162	<0.0162
			5-7	<0.0203	<0.0203	<0.0203	<0.0203	<0.0203	<0.0203	<0.0203
			7-9	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186
			10-12	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173	<0.0173
SB-6	03/22/13	5	2-3	<0.0179	<0.0179	<0.0179	<0.0179	<0.0179	<0.0179	<0.0179
			5-7	<0.0164	<0.0164	<0.0164	<0.0164	<0.0164	<0.0164	<0.0164
			10-12	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167	<0.0167
SB-9	03/22/13	6	2-2.7	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204
			5-7	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169
			7-9	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186
			10-12	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216
SB-10	03/22/13	5	2-3	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186
			5-7	<0.0165	<0.0165	<0.0165	<0.0165	<0.0165	<0.0165	<0.0165
			7-9	<0.0182	<0.0182	<0.0182	<0.0182	<0.0182	<0.0182	<0.0182
			9-10	<0.0184	<0.0184	<0.0184	<0.0184	<0.0184	<0.0184	<0.0184
			10-12	<0.0183	<0.0183	<0.0183	<0.0183	<0.0183	<0.0183	<0.0183
Soil Piles										
SP-1	03/27/13	--	pile	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170
SP-2	03/27/13	--	pile	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170	<0.0170

Notes: Analysis performed by method SW-846-6020 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. <: Not detected at method detection limit

2. BDL: Below method detection limit

Table 3d
Soil Metals Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Cell	Sample Depth (Feet)	Arsenic	Barium	Cadmium	Chromium	Copper	Iron	Lead	Manganese	Mercury	Selenium	Silver	Zinc
Mean Background Concentration:															
SB-1	03/26/13	6	2-2.5	2.38	68.96	0.21	7.13	3.12	6,731	5.71	78.34	<0.0164	0.90	<0.106629	17.52
			5-7	1.41	25.1	<0.0984	5.54	1.52	6,090	2.94	47.4	<0.0158	0.866	<0.0984	11.0
			7-8.5	0.973	36.1	<0.106	4.19	1.10	3,910	2.22	27.3	<0.0168	0.678	<0.106	6.58
			10-12	3.71	52.6	0.161	11.50	3.15	14,300	5.51	61.2	<0.0149	0.909	<0.108	22.6
				3.87	61.7	0.226	9.58		10,900	5.74	90.5	<0.0162	3.26	<0.108	18.8
SB-2	03/26/13	6	2-3	1.36	21.3	0.0972	5.14	1.37	5,720	2.71	46.7	<0.0144	0.745	<0.0962	10.3
			5-7	1.58	50.0	0.151	7.27	1.68	7,580	3.52	41.9	<0.0156	1.28	<0.103	12.8
			7-8.5	2.77	51.2	0.133	10.3	2.58	11,200	5.04	62.3	<0.0158	1.65	<0.114	20.5
			10-12	2.45	48.9	<0.121	12.5	3.82	13,600	5.98	73.3	<0.0189	0.932	<0.121	22.4
SB-3	03/26/13	5	2-3	1.05	15.8	0.0917	3.55	1.16	4,050	1.93	35.7	<0.00826	0.540	<0.0517	6.71
			5-7	2.04	87.8	0.207	7.63	3.31	8,150	4.16	98.2	<0.0150	1.210	<0.0932	15.5
			7-9	0.822	40.6	0.0827	5.11	0.929	5,120	2.24	25.8	<0.00822	0.731	<0.0510	8.20
			10-12	1.03	61.0	0.160	6.88	1.83	6,040	3.39	72.0	<0.0156	1.03	<0.0944	11.0
SB-4	03/22/13	5	2-3	1.24	34.0	0.123	4.03	1.57	4,320	2.14	39.0	0.0174	0.586	<0.100	7.44
			5-7	1.12	21.1	<0.0980	4.70	1.66	4,750	2.22	37.4	<0.0142	0.474	<0.0980	8.03
			7-9	1.13	37.9	<0.0994	6.49	2.26	6,650	3.10	59.0	<0.0157	0.762	<0.0994	11.0
			10-12	0.686	63.2	<0.0933	5.04	1.62	5,580	2.38	25.5	<0.0152	0.718	<0.0933	8.21
SB-5	03/26/13	6	2-3	1.77	25.4	0.107	5.96	2.35	4,890	3.33	73.7	<0.0150	1.08	<0.0941	13.5
			5-7	2.02	150	0.205	8.35	1.89	8,880	4.10	82.0	<0.0175	1.14	<0.111	14.1
			7-9	1.60	149	0.149	7.71	1.62	8,110	3.44	41.0	<0.0175	0.831	<0.111	13.9
			10-12	2.13	252	0.113	3.44	1.28	4,600	2.38	55.5	<0.0152	0.909	<0.0941	6.93
SB-6	03/22/13	5	2-3	2.03	184	0.113	5.97	3.19	6,220	3.78	62.2	<0.0156	0.791	<0.106	14.1
			5-7	1.30	23.4	<0.0934	4.63	1.58	4,840	2.36	44.3	<0.0166	0.588	<0.0934	7.88
			10-12	3.43	55.0	<0.0895	7.68	2.19	9,690	3.75	124	<0.0152	0.945	<0.0895	13.0
SB-9	03/22/13	6	2-2.7	1.28	25.9	<0.0647	4.37	1.18	4,230	2.05	36.1	<0.00944	0.577	<0.0647	6.48
			5-7	1.50	20.9	<0.0911	5.23	1.48	5,440	2.58	42.6	<0.0140	0.590	<0.0911	9.77
			7-9	2.32	210	0.134	4.37	1.57	5,080	2.36	41.8	<0.0166	0.594	<0.0954	6.80
			10-12	1.79	356	0.0765	3.79	1.29	4,990	2.29	40.6	<0.0101	0.699	<0.0662	7.02
SB-10	03/22/13	5	2-3	1.47	26.0	<0.101	4.68	1.58	5,180	2.56	41.2	<0.0156	0.559	<0.101	7.81
			5-7	4.06	57.5	0.143	12.0	3.21	13,900	5.86	67.4	<0.0160	1.25	<0.0885	25.7
			7-9	3.92	93.8	0.169	11.9	3.07	13,700	6.41	82.7	0.0164	1.31	<0.102	22.2
			9-10	2.12	411	0.103	6.06	3.13	6,180	2.89	38.0	0.0213	0.71	<0.0995	9.17
			10-12	2.39	151	0.117	5.17	1.84	4,920	2.33	44.1	<0.0171	0.825	<0.105	7.19
Soil Piles															
SP-1	03/27/13	--	pile	2.09	82.2	0.275	9.18	4.31	7,980	5.39	107	<0.0154	1.80	<0.101	19.5
SP-2	03/27/13	--	pile	2.94	206	0.104	15.0	6.66	9,890	5.69	109	<0.0160	1.65	<0.102	22.0
Two (2) Standard Deviations (Background):															
				3.61	168.37	0.35	11.04	6.44	9,634.36	16.10	152.70	0.0624	1.50	0.141	34.84

Notes: Analysis performed by method SW-846- by DHL Analytical, Inc., Round Rock, Texas
Results are reported in milligram per Kilograms (mg/Kg).
Background analysis was performed by SW846 method 82608
I. <: Not detected at method detection limit

Bold and highlighted exceeds two (2) standard deviations of mean background concentration

Table 3e
Soil TPH and Anion Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Cell	Depth (feet)	TRPH	Cyanide	Chloride	Fluoride	Nitrate-N	Sulfate	pH
Mean Background Concentration:										
SB-1	03/26/13	6	2-2.5 5-7 7-8.5 10-12	229 <5.18 <5.32 <5.56 <5.39	<0.198 <0.205 <0.190 <0.205 <0.178	31.0 11.9 26.5 45.6 45.7	2.53 1.28 2.01 5.44 7.84	<5.41 <5.20 <5.31 <5.52 <5.41	808 26.1 60.1 95.2 73.2	7.65 8.25 8.65 8.15 8.04
SB-2	03/26/13	6	2-3 5-7 7-8.5 10-12	<5.00 <5.22 <5.79 <6.09	<0.169 <0.188 <0.211 <0.194	80.3 44.5 7.06 <6.29	1.13 1.72 2.91 2.93	<5.03 <5.30 <5.77 <6.29	122 <10.6 <11.5 <12.6	7.75 7.80 7.86 7.86
SB-3	03/26/13	5	2-3 5-7 7-9 10-12	<5.13 <5.21 <5.09 <5.18	<0.206 <0.198 <0.179 <0.182	386 802 532 488	2.18 1.42 2.76 10.0	8.45 8.36 <5.24 <5.30	163 284 98.1 19.8	8.61 7.86 7.86 7.69
SB-4	03/22/13	5	2-3 5-7 7-9 10-12	6.74 14.7 <5.48 <5.22	<0.214 <0.203 <0.199 <0.196	1,010 466 1,300 12.2	<1.06 <1.01 1.66 4.90	7.67 <5.06 8.05 <5.21	82.7 103 <10.9 32.0	7.92 7.75 7.64 8.25
SB-5	03/26/13	6	2-3 5-7 7-9 10-12	<5.00 <6.06 <5.57 <5.34	<0.201 <0.222 <0.201 <0.196	134 202 251 18.0	1.20 2.63 6.24 6.92	8.87 <6.21 <5.63 <5.40	77.8 51.1 <11.3 16.1	8.18 7.90 7.93 8.41
SB-6	03/22/13	5	2-3 5-7 10-12	7.740 8.41 <5.09	<0.186 <0.171 <0.175	2,310 1,230 1,220	1.60 1.11 1.23	<5.42 7.23 <5.06	4,520 188 174	7.64 8.22 7.85
SB-9	03/22/13	6	2-2.7 5-7 7-9 10-12	147 <5.17 <5.68 <6.45	<0.225 <0.195 <0.213 <0.189	329 434 470 29.6	2.29 <1.04 1.62 3.65	<6.15 <5.18 <5.65 <6.61	141 20.3 38.6 38.6	7.78 7.58 7.94 8.57
SB-10	03/22/13	5	2-3 5-7 7-9 9-10 10-12	23.7 <5.16 <5.59 <5.59 <5.49	<0.190 <0.169 <0.177 <0.174 <0.183	244 81.2 99.2 28.4 19.2	<1.16 <1.03 1.67 7.73 11.0	<5.78 <5.17 <5.50 <5.46 <5.49	253 80.0 19.0 59.6 58.3	7.81 7.25 7.31 8.27 8.38
Soil Piles										
SP-1	03/27/13	--	pile	1,450	<0.200	205	2.72	<5.03	794	7.46
SP-2	03/27/13	--	pile	212	<0.201	95.8	4.13	<5.25	568	7.83
Two (2) Standard Deviations (Background):				533.24	0.25	747.0	6.18	6.34	6,239	7.94

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per Kilograms (mg/Kg).

1. <: Not detected at method detection limit

Bold and highlighted exceeds two (2) standard deviations of background mean concentration

Table 4a
Groundwater Volatile Organic Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	WGCC Level:																
		0.01	0.75	0.01	0.01	0.005	0.02	0.1	0.75	0.62	0.1	0.1	0.025	0.0001	0.06	0.01	0.01	0.001
		Benzene	Toluene	Carbon tetrachloride	1,2-Dichloroethane	1,1-Dichloroethylene	Tetrachloroethylene	Trichloroethylene	Ethylbenzene	Total Xylenes	Methylene chloride	Chloroform	1,1-Dichloroethane	Ethylene bromide	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	Vinyl chloride
MMW-2	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
MMW-E40	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
MMW-S40	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
MMW-W40	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
MMW-4	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
MMW-5	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
MMW-6	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001
Trip Blank	05/06/13	<0.0002	<0.0006	<0.0002	<0.0003	<0.0002	<0.0006	<0.0006	<0.0003	<0.0003	<0.00250	<0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0001

Notes: Analysis performed by method SW-846-8260 by DHL Analytical, Inc., Round Rock, Texas
Results are reported in milligram per liter (mg/L)
I. <: Not detected at method detection limit

Table 4b
Groundwater Semi-Volatile Organic Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	0.03		0.0007		0.03		0.03		0.03		0.03		0.03		0.03		0.03		0.005		0.005	
		1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Benzo(a)pyrene	2,3,4,6-Tetrachlorophenol	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dichlorophenol	2-Chlorophenol	2-Methylphenol	2-Nitrophenol	4,6-Dinitro-2-methylphenol	4-Chloro-3-methylphenol	4-Methylphenol	4-Nitrophenol	Pentachlorophenol	Phenol	Total Phenol	
MW-2	05/06/13	<0.0002	0.000280	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
MW-E40	05/07/13	<0.0002	0.000320	<0.0002	0.000720	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
MW-S40	05/07/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-W40	05/07/13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-4	05/06/13	<0.0002	0.000420	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
MW-5	05/06/13	<0.0002	0.000380	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
MW-6	05/06/13	<0.0002	0.000340	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

Notes: Analysis performed by method SW-846-8270 by DHI Analytical, Inc., Round Rock, Texas
 Results are reported in milligram per liter (mg/L)
 1. <: Not detected at method detection limit
 2. -: Insufficient water volume for sample collector

Table 4c
Groundwater PCB Analytical data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Aroclor 1016	Aroclor 1221	Aroclor 1232	Calcium	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
WQCC Level:									
		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
MW-2	05/07/13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-E40	05/07/13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-S40	05/07/13	--	--	--	--	--	--	--	--
MW-W40	05/07/13	--	--	--	--	--	--	--	--
MW-4	05/06/13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-5	05/06/13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
MW-6	05/06/13	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Notes: Analysis performed by method SW-846-6020 by DHL Analytical, Inc., Round Rock, Texas
Results are reported in milligram per liter (mg/L)

1. <: Not detected at method detection limit
2. --: Insufficient water volume for sample collection

Table 4d
Groundwater Metals Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	WQCC Level:											
		Arsenic 0.10	Barium 1.0	Cadmium 0.01	Chromium 0.05	Copper 1.0	Iron 1.0	Lead 0.05	Manganese 0.20	Mercury 0.002	Selenium 0.05	Silver 0.05	Zinc 10
MMW-2	05/06/13	0.0142	0.0438	0.000358	<0.002	0.00747	0.708	0.00349	0.138	<0.00008	0.00216	<0.001	0.0159
MMW-E40	05/06/13	0.00487	0.337	<0.0003	<0.002	0.0137	0.308	0.000302	0.650	<0.00008	<0.002	<0.001	<0.002
MMW-S40	05/06/13	--	--	--	--	--	--	--	--	--	--	--	--
MMW-W40	05/06/13	--	--	--	--	--	--	--	--	--	--	--	--
MMW-4	05/06/13	0.00790	0.0460	<0.0003	<0.002	0.00651	0.372	0.00343	0.159	<0.00008	0.00358	<0.001	0.00421
MMW-5	05/06/13	0.00718	0.0384	<0.0003	0.00248	0.00471	0.609	0.00154	0.128	<0.00008	0.00854	<0.001	0.00456
MMW-6	05/06/13	0.00700	0.0297	<0.0003	<0.002	0.00404	0.324	0.00118	0.193	<0.00008	0.01600	<0.001	0.00348

Notes: Analysis performed by method SW-846- by DHL Analytical, Inc., Round Rock, Texas
Results are reported in milligram per liter (mg/L)
1. <: Not detected at method detection limit
2. -: Insufficient water volume for sample collection

Table 4e
Groundwater Cation and Anion Analytical Data Summary
R360 Artesia LLC Landfarm, Lea County, New Mexico

Sample	Date	Cations							Anions				TDS	pH
		Cyanide	Fluoride	Sodium	Calcium	Magnesium	Potassium	Nitrate-N	Chloride	Sulfate	Alkalinity			
WOCC Level:		0.2	1.6	NS	NS	NS	NS	10	250	600	NS	1000	6 - 9	
MMW-2	05/06/13	<0.01	1.77	409	340	209	10	0.670	539	1,310	285	3,070	7.40	
MMW-E40	05/07/13	<0.01	1.02	230	265	179	11	<0.1	436	561	613	2,090	7.40	
MMW-S40	05/07/13	--	--	--	--	--	--	--	--	--	--	--	--	
MMW-W40	05/07/13	--	--	--	--	--	--	--	--	--	--	--	--	
MMW-4	05/06/13	<0.01	1.67	432	334	246	14	1.41	658	1,390	428	3,440	7.09	
MMW-5	05/06/13	<0.01	1.45	446	416	338	18	2.06	901	1,650	376	4,240	7.03	
MMW-6	05/06/13	<0.01	1.68	424	316	273	18	3.68	844	1,360	307	3,460	7.30	

Notes: Analysis performed by method SW-846-9056 by DHL Analytical, Inc., Round Rock, Texas

Results are reported in milligram per liter (mg/L)

1. <: Not detected at method detection limit

2. --: Insufficient water volume for sample collection

2.NS: No WOCC standard

Bold and highlighted exceeds WOCC domestic water quality standard

FIGURES



Figure 1 - Topographic Map

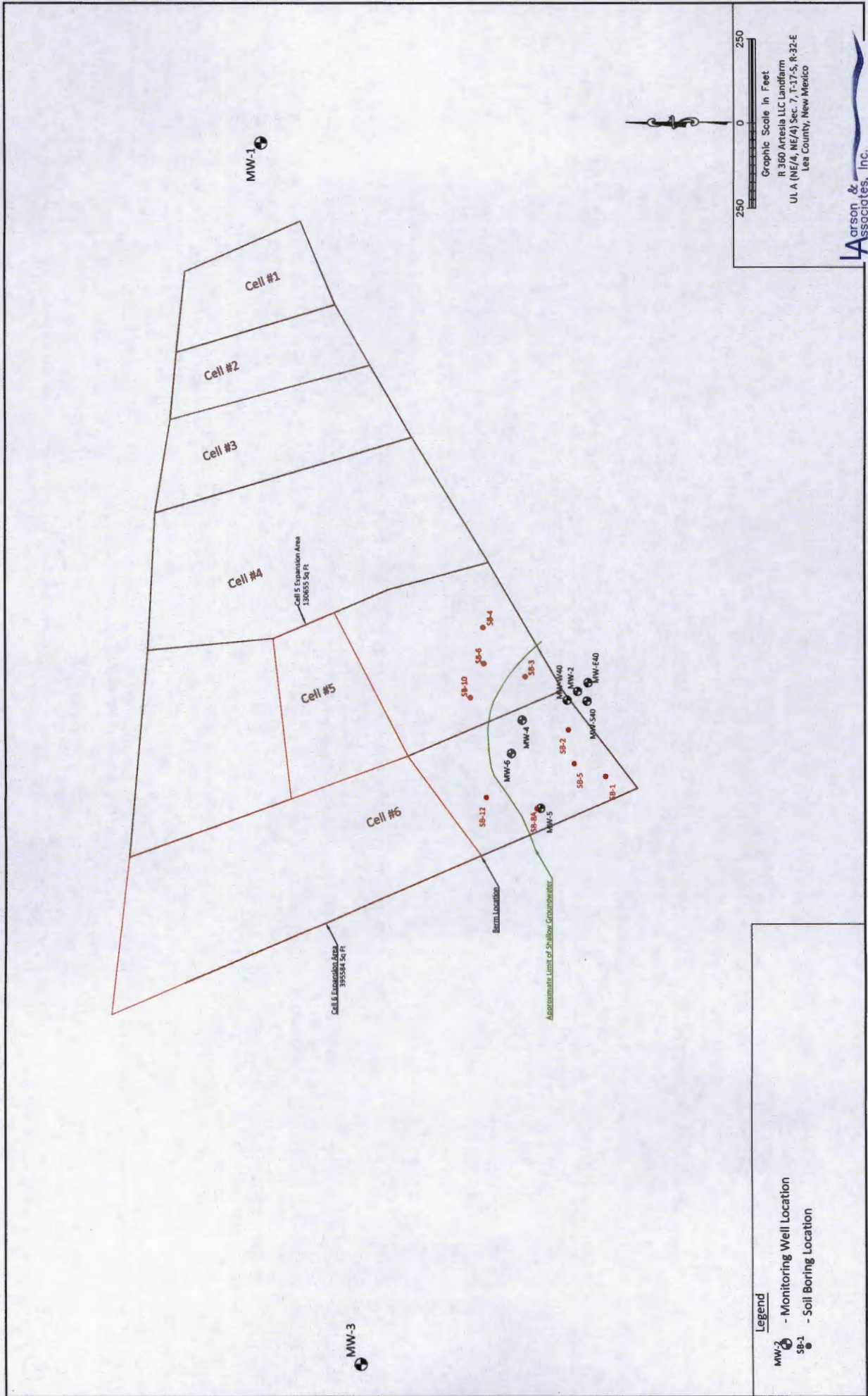


Figure 3 - Site Map

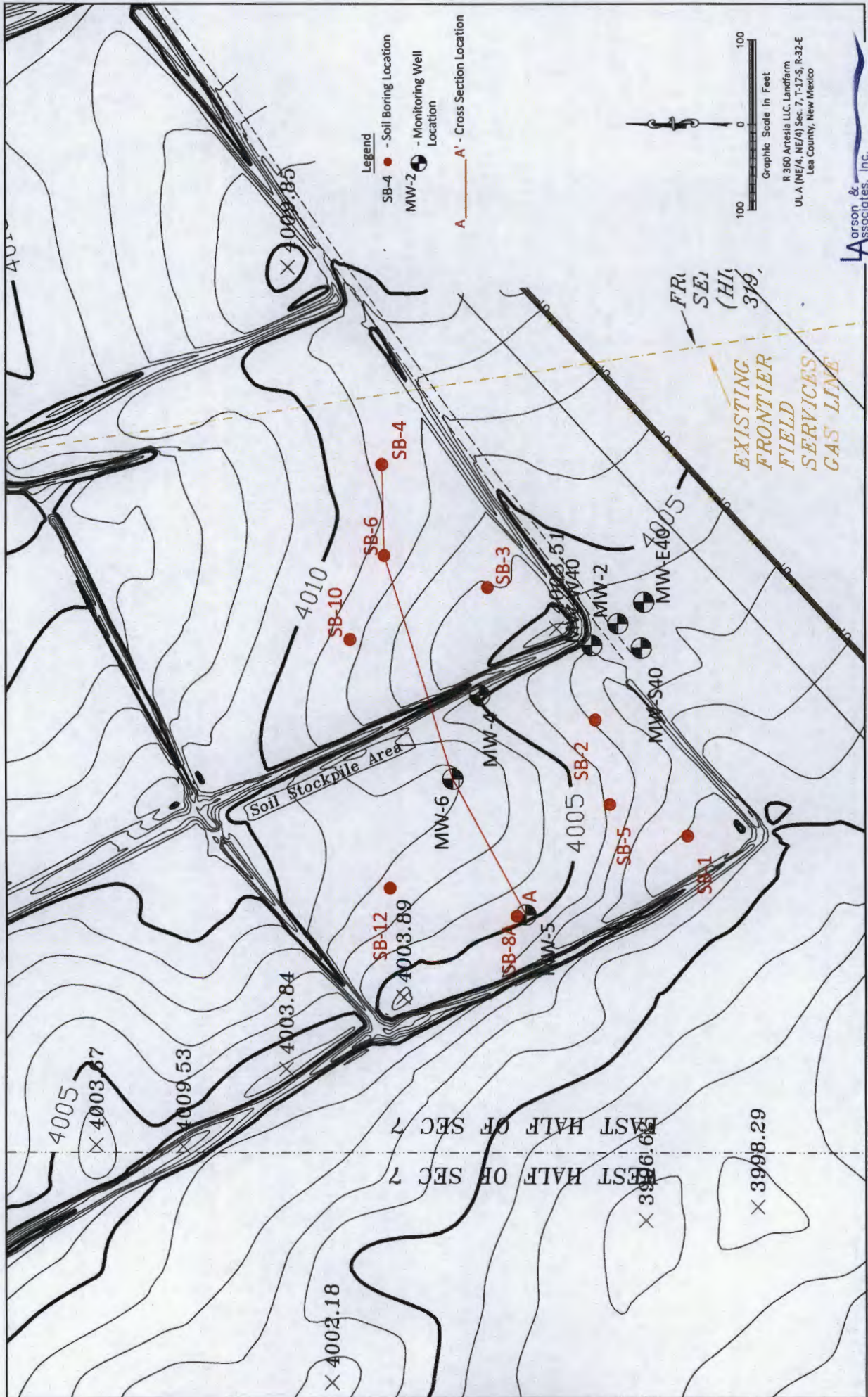


Figure 4 - Detailed Site Map

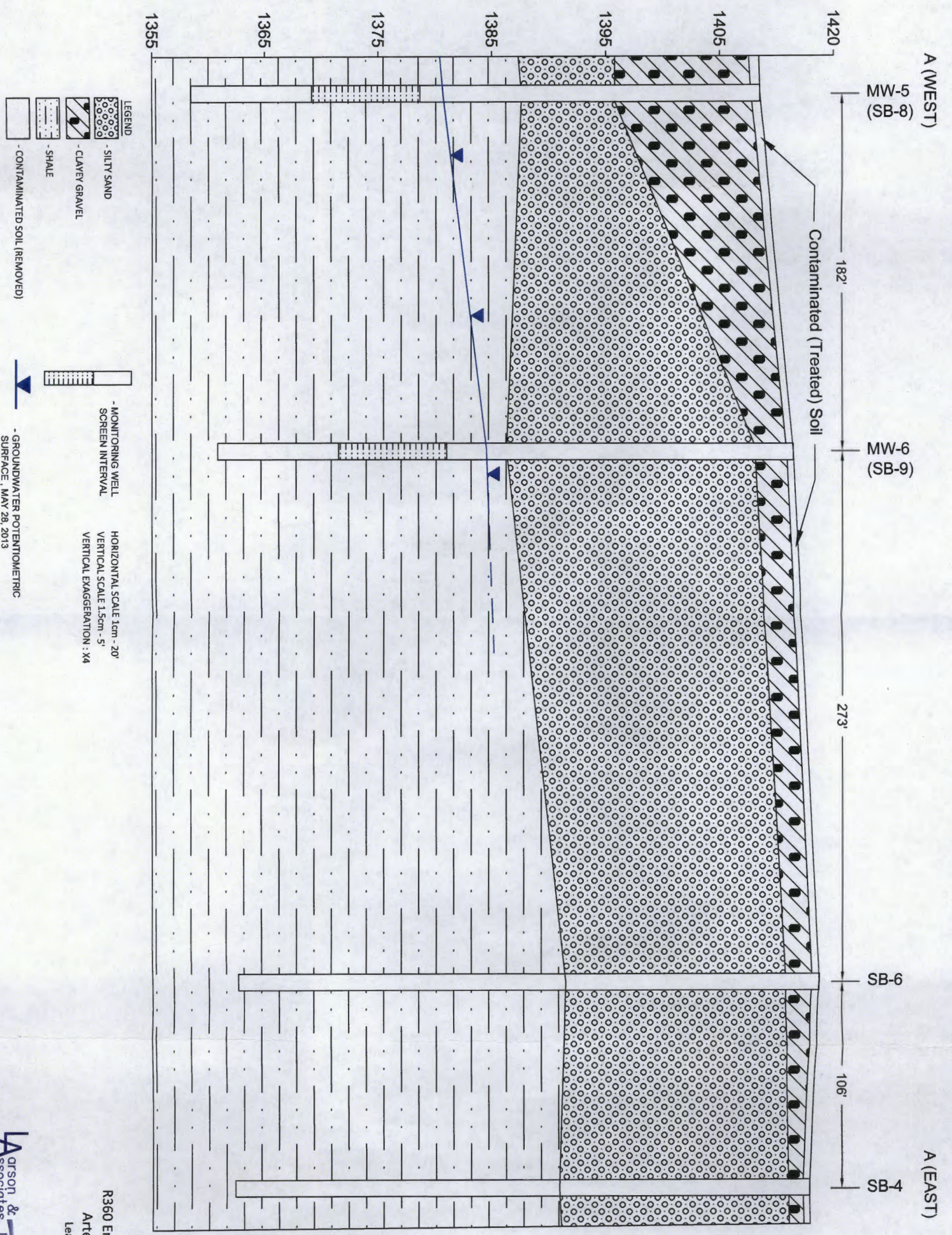
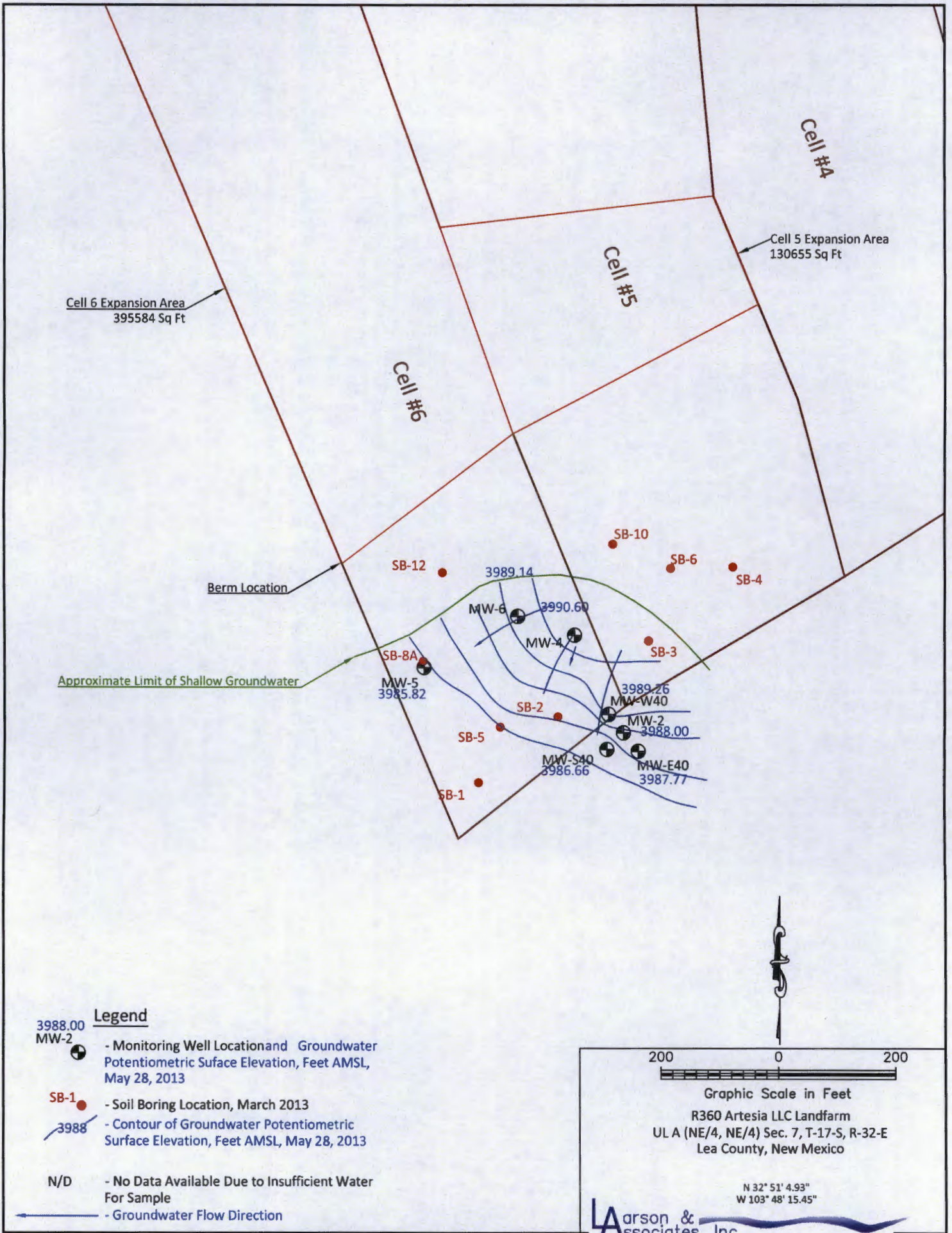





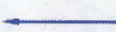
Figure 5 - Geological Cross Section Map A-A'

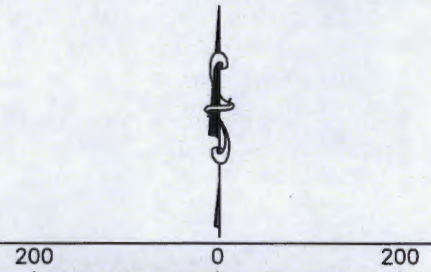
Arson & Associates, Inc.
Environmental Consultants

R360 Environmental Solutions
Artesia L.L.C. Landfarm
Lea County, New Mexico

N 32° 51' 18.12"
W 103° 07' 55.78"



- Legend**
- 
3988.00 MW-2 - Monitoring Well Location and Groundwater Potentiometric Surface Elevation, Feet AMSL, May 28, 2013
 - 
SB-1 - Soil Boring Location, March 2013
 - 
3988 - Contour of Groundwater Potentiometric Surface Elevation, Feet AMSL, May 28, 2013
 - N/D** - No Data Available Due to Insufficient Water For Sample
 -  - Groundwater Flow Direction



R360 Artesia LLC Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico

N 32° 51' 4.93"
 W 103° 48' 15.45"

Larson &
 Associates, Inc.
 Environmental Consultants

Figure 7 - Groundwater Potentiometric Surface Elevation Map, May 28, 2013

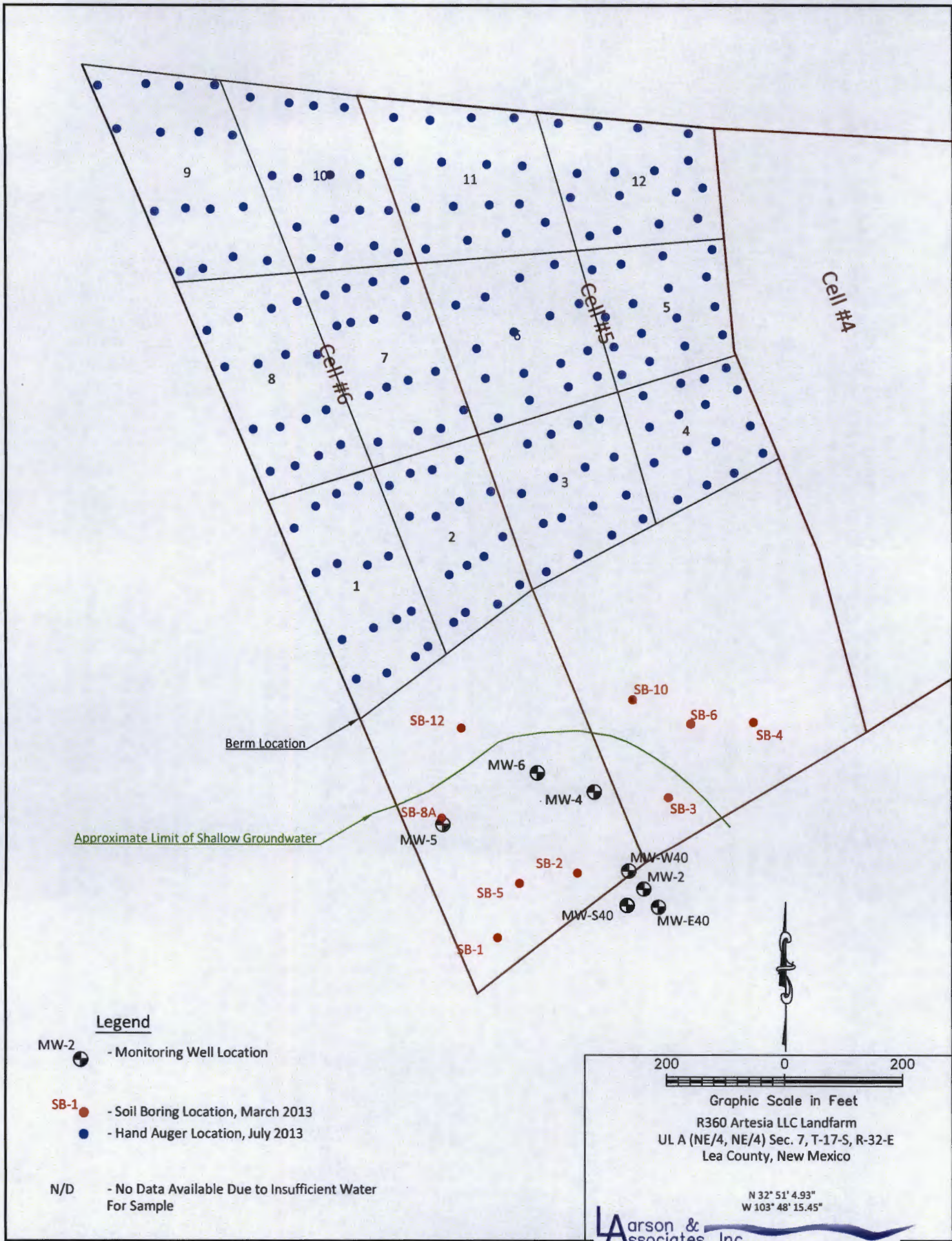
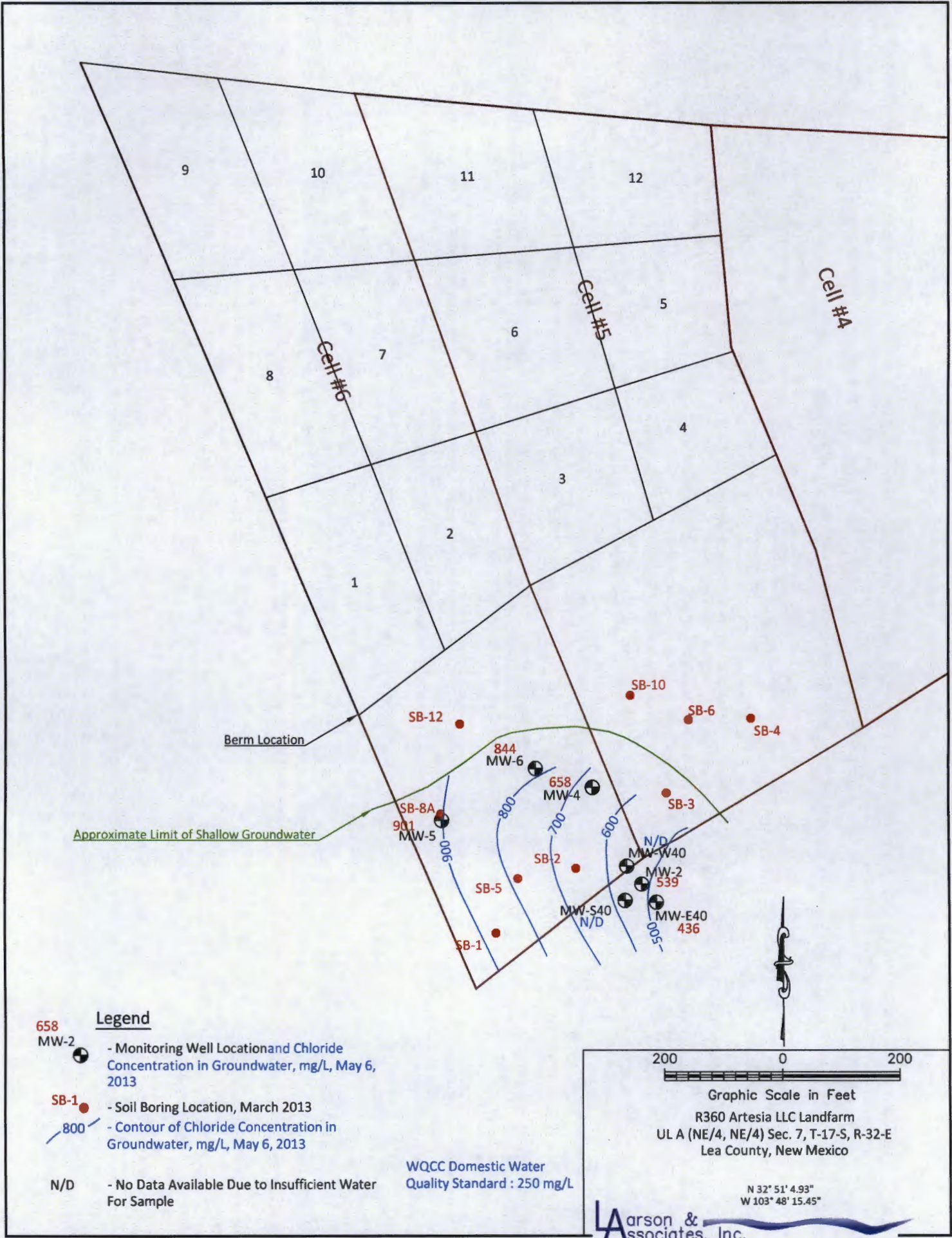


Figure 8 - Background Soil Samples



- Legend**
- 658
● MW-2 - Monitoring Well Location and Chloride Concentration in Groundwater, mg/L, May 6, 2013
 - SB-1
● - Soil Boring Location, March 2013
 - 800
— - Contour of Chloride Concentration in Groundwater, mg/L, May 6, 2013
 - N/D - No Data Available Due to Insufficient Water For Sample
- WQCC Domestic Water Quality Standard : 250 mg/L**

200 0 200
 Graphic Scale in Feet
 R360 Artesia LLC Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico

N 32° 51' 4.93"
 W 103° 48' 15.45"

Figure 9 - Chloride Concentration in Groundwater Map, May 6, 2013

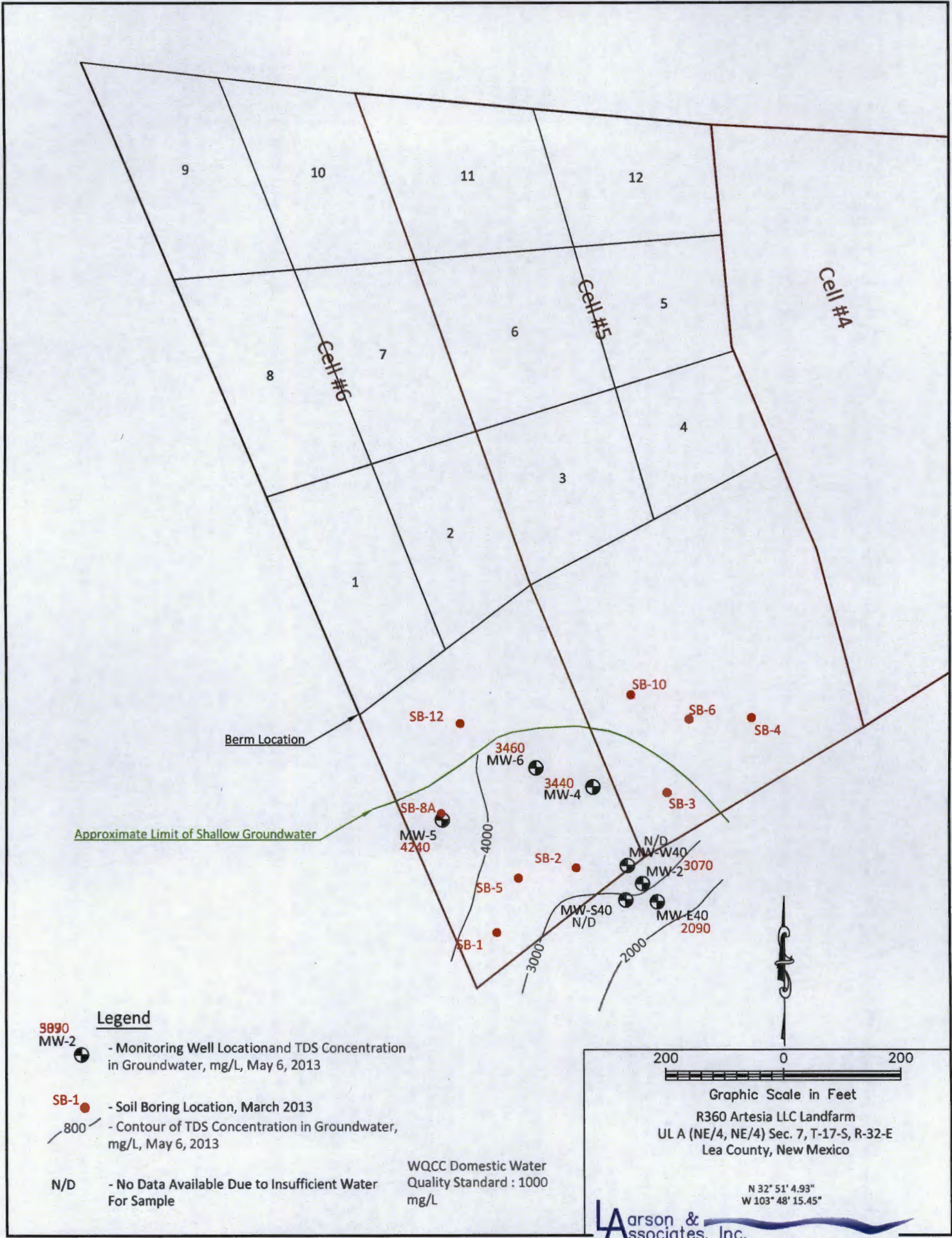


Figure 10 - TDS Concentration in Groundwater Map, May 6, 2013

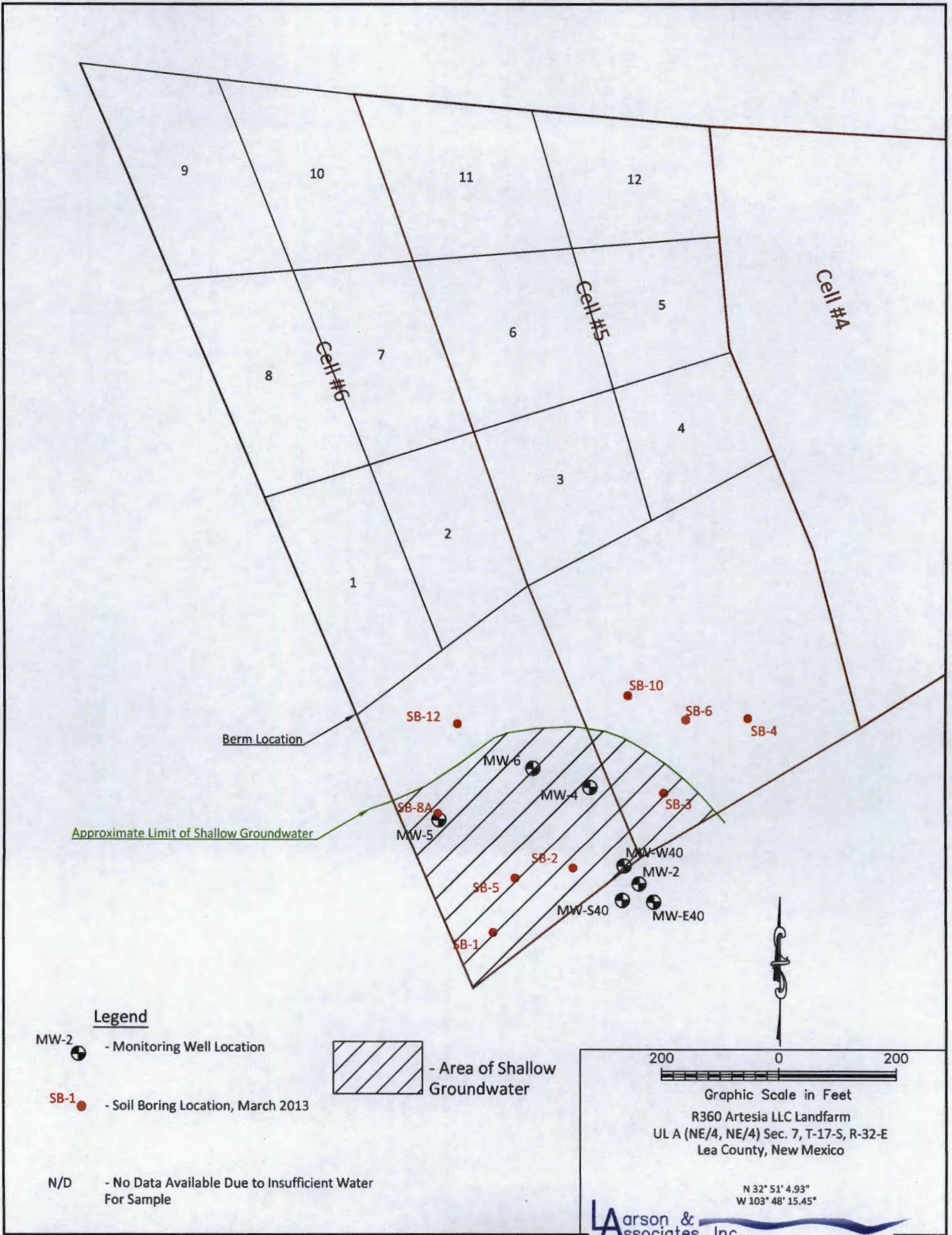


Figure 11 - Extent of Shallow Groundwater Map

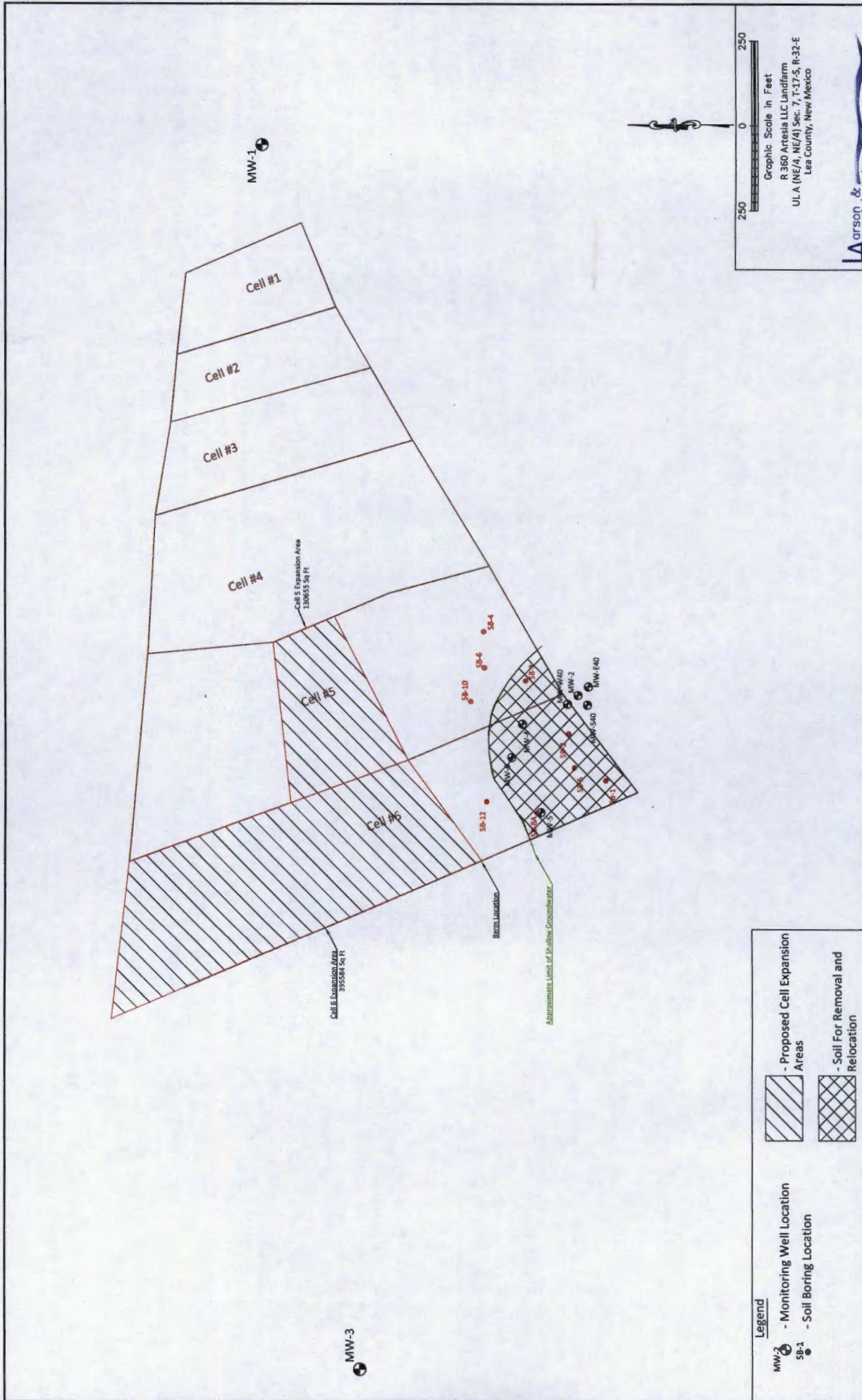


Figure 12 - Proposed Cell Expansion Areas

APPENDIX A
OCD Approval

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



January 29, 2013

Mark J. Larson
Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

**RE: Hydrogeologic Investigation Boring Plan
Permit NM1 – 030: Commercial Surface Waste Management Facility
R360 Artesia, LLC – R360 Artesia, LLC Landfarm
Facility Location: Unit A of Section 7, Township 17 South, Range 32 East NMPM
Lea County, New Mexico**

Dear Mr. Larson:

The Oil Conservation Division (OCD) has received Larson & Associates, Inc.'s boring plan proposal, dated January 29, 2013 and submitted on the behalf of R360 Artesia, LLC. The plan proposes to investigate and characterize the extent of a shallow water-bearing zone in order to determine the proper placement of waste can within the existing landfarm cells and to determine the extent of documented vadose zone contamination for the development of a release response action plan pursuant to 19.15.36.16.E NMAC for the existing above-referenced OCD permitted commercial surface waste management landfarm facility. OCD has completed the review and determined that the proposal is adequate to proceed with the site investigation.

OCD agrees that the proposed sample/boring/monitoring well locations appear adequate. However, if the hydrogeologic conditions cannot be determined, additional borings or monitoring wells may be needed. It should be understood that if a monitoring well is constructed, it shall be bailed until fully developed.

The OCD appreciates your cooperation in providing a boring plan for review, in order to determine appropriate waste management operations and to address issues associated with the documented vadose zone contamination. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Brad A. Jones", is written over a large, circular, scribbled-out area.

Brad A. Jones
Environmental Engineer






BAJ/baj

Cc: OCD District I Office, Hobbs
Wayne Crawley, R360 Environmental Solutions, Inc., Houston, TX

APPENDIX B

Boring Logs and Well Completion Records

Well Completion Record

Geolog. Unit	Depth (Feet)	Lithologic Description	Unified Soil Classification	Graphic Log	PID Reading	Well Completion Detail
		Latitude : N 32° 51' 06.82" Longitude: W 103° 48' 16.66" Elevation : 4010.20'				No Well Completed
	0	Gravelly Clay: Light Brown (7.5YR 6/3) very fine to coarse grained quartz sand, caliche fragments, dry	CL			
	2.7	Sand: Yellowish Red (5YR 5/6) very fine grained quartz sand, poorly sorted, round, loose, Light Brown (7.5YR 6/3) below 5', dry	SW			
	5	Clayey Sand: Reddish Yellow to Yellowish Red (5YR 6/8 to 5/8) very fine grained quartz sand, very poorly sorted, round, moderately compacted, dry	SC			
	10					
	11.0		GW			
	12.0	Gravel: Light Reddish Brown (5YR 6/4) very fine to coarse grained quartz sand, pebbles to 15mm, round, loose, dry	SC			
	14.0	Clayey Sand: Yellowish Red (5YR 6/4) very fine grained quartz sand, very poorly sorted, round, moderately compacted, dry				
	15	Total Depth 15'				
	25	Dry Boring Groundwater Not Observed Boring Plugged : March 28, 2013				
	30					
	35					
	40					
	45					
	50					
	55					
	60					
	65					




Legend

Date Drilled - 03/26/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"

Larson &
 Associates, Inc.
 Environmental Consultants

Well Completion Record

Geolog. Unit	Depth (Feet)	Lithologic Description	Unified Soil Classification	Graphic Log	PID Reading	Well Completion Detail
		Latitude : N 32° 51' 07.91" Longitude : W 103° 48' 15.06" Elevation : 4011.80'				No Well Completed
	0					
	0.5	Silty Clay: Brown (7.5YR 5/3) very fine grained quartz sand, dry	CL			
		Sand: Brown (7.5YR 4/4) to Yellowish Red (5YR 5/6) very fine grained quartz sand, poorly sorted, round, loose, Pink to Light Brown	SW			
	5					
	6.5	(7.5YR 4/4 to 6/4) below 5' dry Clayey Sand: Yellowish Red (5YR 6/8 to 5/8) very fine grained quartz sand, poorly sorted, round, moderately compacted, dry	SC			
	10					
	15	Total Depth 15'				
	20					
	25	Dry Boring Groundwater Not Observed Boring Plugged : March 28, 2013				
	30					
	35					
	40					
	45					
	50					
	55					
	60					
	65					

Legend

Date Drilled - 03/26/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Presicion Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record

Geolog. Unit	Depth (Feet)	Lithologic Description	Unified Soil Classification	Graphic Log	PID Reading	Well Completion Detail
		Latitude : N 32° 51' 09.16" Longitude : W 103° 48' 13.25" Elevation : 4014.70'				No Well Completed
	0					
	1.8	Gravelly Clay: Brown (7.5YR 4/2 to 4/3) Medium to fine grained quartz sand, caliche fragments, hydrocarbon odor. dry	CL			
	5	Sand: Yellowish Red (5YR 5/6) very fine grained quartz sand, poorly sorted, round, dry, loose	SW			
	7.5	Clayey Sand: Yellowish Red (5YR 5/6) very fine grained quartz sand, poorly sorted, slightly compacted, Pale Brown (10YR 6/3) below 7', dry	SC			
	10	Sand: Pale Yellow (2.5YR 8/3 to 7/3) very fine grained quartz sand, round, poorly sorted, moderately compacted to weakly cemented below 11', some gravel, 20 mm pebbles, subangular, dry	SW			
	12.5	Sandy Clay: Reddish Brown (5YR 4/4) very fine grained quartz sand, moderately stiff with some coarse grained quartz sand, dry	CL			
	15	Total Depth 15'				
	25	Dry Boring Groundwater Not Observed Boring Plugged : March 28, 2013				
	30					
	35					
	40					
	45					
	50					
	55					
	60					
	65					

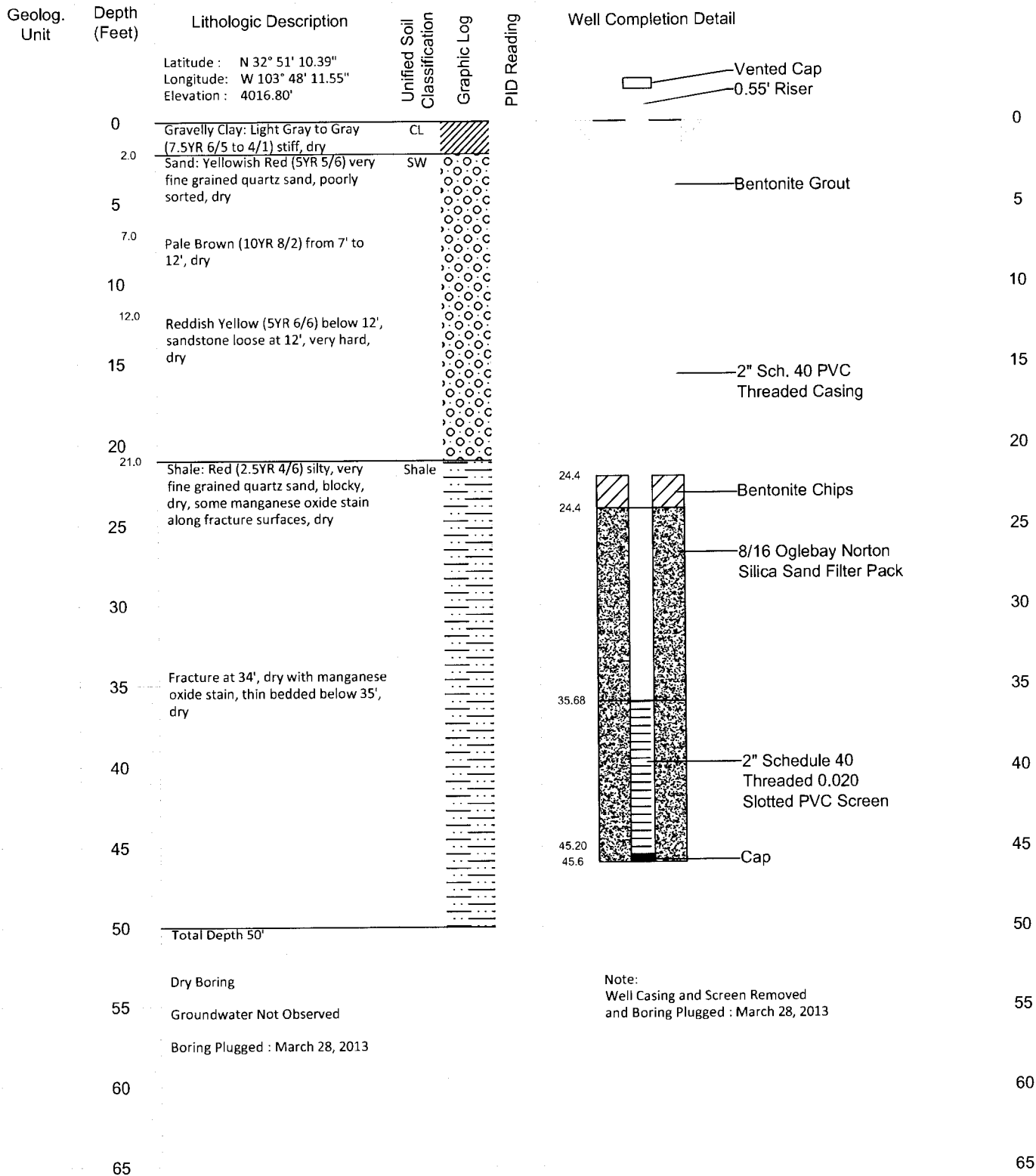
Legend
 - Water Table (Time of Boring)

Date Drilled - 03/26/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record






Legend

Date Drilled - 03/22/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record

Geolog. Unit	Depth (Feet)	Lithologic Description	Unified Soil Classification	Graphic Log	PID Reading	Well Completion Detail
		Latitude : N 32° 51' 07.74" Longitude: W 103° 48' 16.22" Elevation : 4011.60'				No Well Completed
	0					0
	0.5	Gravelly Clay: Light Brown (7.5YR 6/3) fine to coarse grained quartz sand, caliche fragments	CL			
		Sand: Yellowish Red to Reddish Yellow (5YR 6/6 to 5/6) very fine grained quartz sand, poorly sorted, round, loose	GW			
	5	Clayey Sand: Pinkish Gray to Pinkish White (7.5YR 7/2 to 8/2) very fine grained quartz sand, poorly sorted, slightly compacted, Light Brown (7.5YR 6/4) below 7'	SW			5
	10					10
	15	Total Depth 15'				15
	20					20
	25	Dry Boring Groundwater Not Observed				25
	30	Boring Plugged : March 28, 2013				30
	35					35
	40					40
	45					45
	50					50
	55					55
	60					60
	65					65

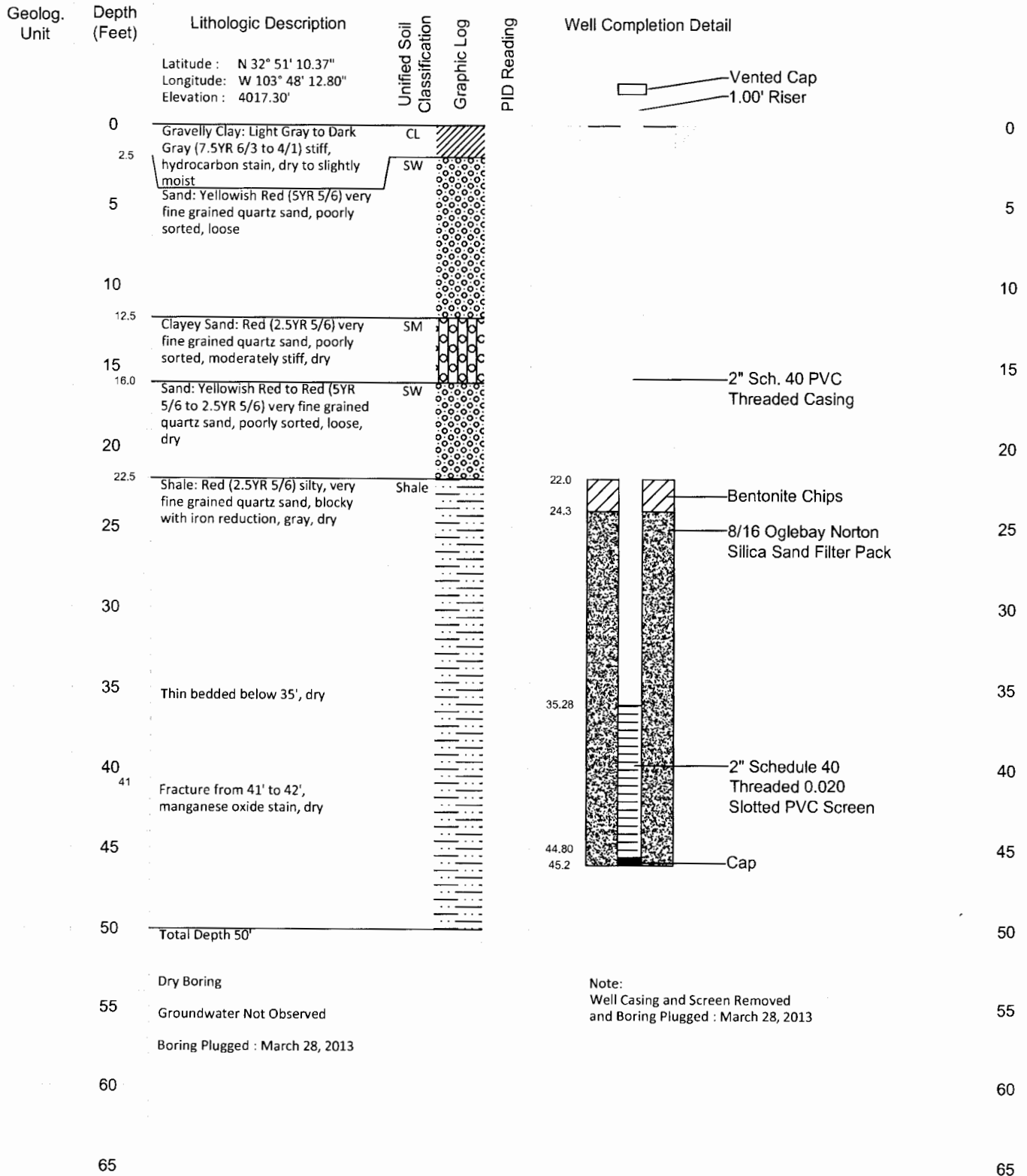
Legend

Date Drilled - 03/26/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"

Larson &
 associates, Inc.
 Environmental Consultants

Well Completion Record



Legend

Date Drilled - 03/22/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record

Geolog. Unit	Depth (Feet)	Lithologic Description	Unified Soil Classification	Graphic Log	PID Reading	Well Completion Detail
		Latitude : N 32° 51' 10.39" Longitude : W 103° 48' 11.55" Elevation : 4016.80'				
	0	Soil Removed				Locking Steel Protector
	1.0	Sand: Bright Yellowish Brown (10YR 6/6) very fine grained quartz sand, unconsolidated, dry	SW			Vented Cap
	5					2.72' Riser
	6.0	Clayey Sand: Bright Yellowish Brown (10YR 6/6) very fine grained quartz sand, slightly to moderately compact, dry	SM			Concrete Pad
	7.0	Caliche: Light Yellow Orange (10YR 8/3) weathered, very fine grained sand in matrix, dry	Caliche			Concrete Bentonite Grout
	10	Sand: Light Yellow Orange (10YR 8/4) very fine grained quartz sand, slightly compacted, weathered caliche and gravel in matrix	SW			
	15	Clayey Sand: Light Yellow Orange (10YR 8/4) unconsolidated to lightly compacted, friable, damp	SM			
	16.0	Sandy Clay: Orange (7.5YR 6/6) soft, friable, very fine grained sand in matrix, damp	CL			
	20				22.83	
	25	Sandstone: Light Brownish Gray (7.5YR 7/2) micro crystalline quartz, dense, dry	Sandstone			2" Sch. 40 PVC Threaded Casing
	30	Clay: Bright Brown (7.5YR 5/6) soft, interbedded with hard clay, damp	CH			Bentonite Chips
	35	Sandstone: Light Brownish Gray (7.5YR 7/2) micro crystalline quartz, dense, dry	Sandstone			
	36.0	Claystone: Bright Brown (7.5YR 5/6) soft, friable, interbedded with hard clay and sandstone	CH			2" Schedule 40 Threaded 0.020 Slotted PVC Screen
	40					8/16 Oglebay Norton Silica Sand Filter Pack
	45	Claystone: Dull Brown (7.5YR 5/4) hard, dense, light greenish gray coloring in matrix, dry	CH			
	50	Total Depth 50'				Cap

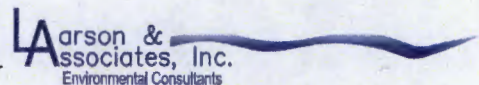
22.83

Legend

- Water Table (Time of Boring)

Date Drilled - 03/20-21/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - J. Fergerson
 Checked By - J. Fergerson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record

Geolog. Unit	Depth (Feet)	Lithologic Description	Unified Soil Classification	Graphic Log	PID Reading	Well Completion Detail
		Latitude : N 32° 51' 08.73" Longitude : W 103° 48' 17.73" Elevation : 4013.4'				
	0	Soil Removed				Locking Steel Protector
	1.0	Clayey Sand: Dull Brown (7.5YR 5/4) very fine grained quartz sand, unconsolidated - slightly compacted, dark stain in matrix, dry	SC			Vented Cap
	3.0	Caliche: Light Gray (10YR 8/1) weathered dense, dry	Caliche/SW			2.05' Riser
	5.0	Sand: Orange (5YR 6/6) very fine grained quartz, unconsolidated, damp	SC			Concrete Pad
	6.0	Clayey Sand: Orange (5YR 6/6) very fine grained quartz, slightly compacted, damp	Caliche			Concrete Bentonite Grout
	8.0	Caliche: Light Yellow Orange (7.5YR 8/3) weathered dense, dry	SW			
	10.0	Sand: Light Yellow Orange (10YR 8/4) very fine grained quartz, unconsolidated, gravel in matrix, dry	SP			
	11.0	Gravelly Sand: Orange (2.5YR 6/6) very fine grained quartz, unconsolidated, gravel in matrix, dry	CL			
	12.0	Sandy Clay: Orange (2.5YR 6/6) soft, friable, very fine grained sand in matrix, dry	CL			
	15.0	Sandy Clay: Bright Brown (2.5YR 5/6) slightly compacted, friable, very fine grained sand in matrix, damp	CL			
	16.0					
	20.0					
	21.0					
	22.0					
	23.00				23.00	
	25.0					
	26.00				26.00	
	27.85				27.85	
	29.0	Gravelly Sandy Clay: Dull Reddish Brown (2.5YR 5/6) friable, very fine grained sand in matrix, damp	SP			2" Sch. 40 PVC Threaded Casing
	29.49	Drill Out: hard interval believed to be sandstone	CH		29.49	Bentonite Chips
	30.0	Sandy Clay: Bright Reddish Brown (2.5YR 5/6) friable, very fine grained sand in matrix, interbedded with hard dense clay, damp	CH			
	31.0	Clay: Dull Reddish Brown (5YR 5/4) friable, light greenish gray staining in matrix, dry	CH			
	32.0	Clay: Dull Reddish Brown (5YR 5/4) friable to hard, light greenish gray staining in matrix, dry	CH			
	35.0					
	36.0					
	38.86				38.86	0.020 Slotted PVC Screen
	39.95				39.95	8/16 Oglebay Norton Silica Sand Filter Pack
	40.0					Cap
	41.0					
	45.0					
	50.0	Total Depth 50'				

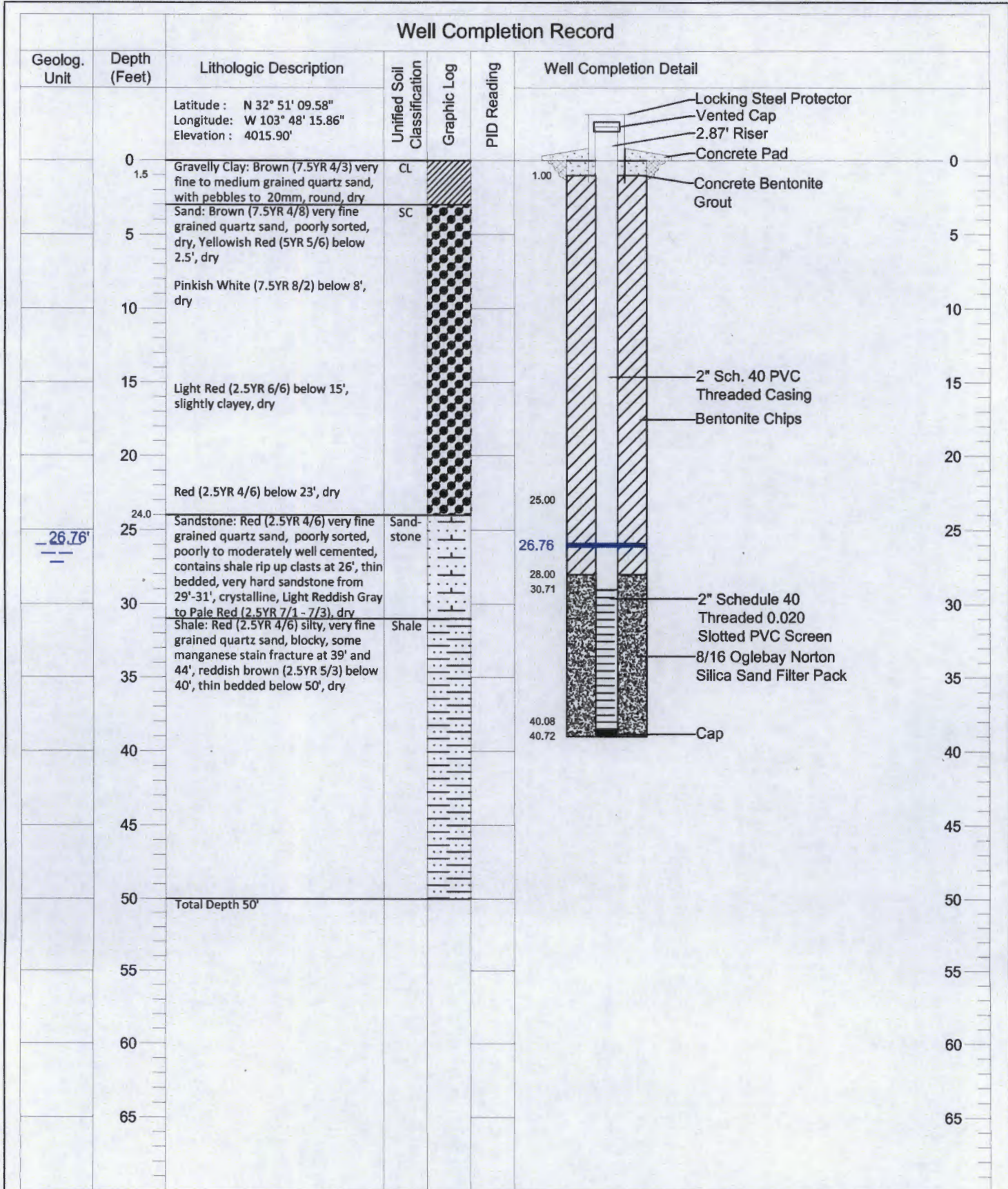
27.85

Legend
 - Water Table (5/28/13)

Date Drilled - 03/19-21/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - J. Ferguson
 Checked By - J. Ferguson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"





Legend

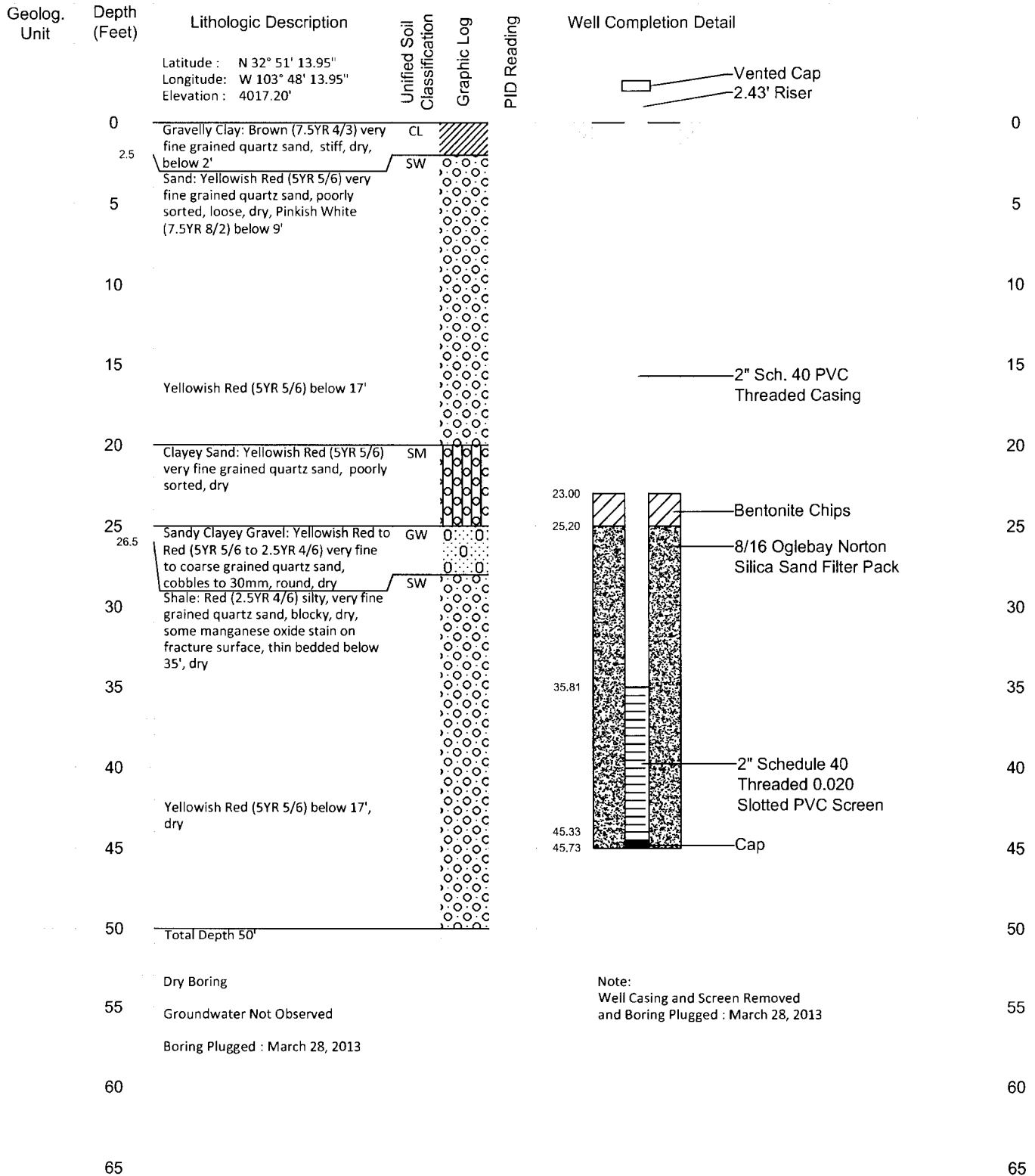
- Water Table (5/28/13)

Date Drilled - 03/23/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record



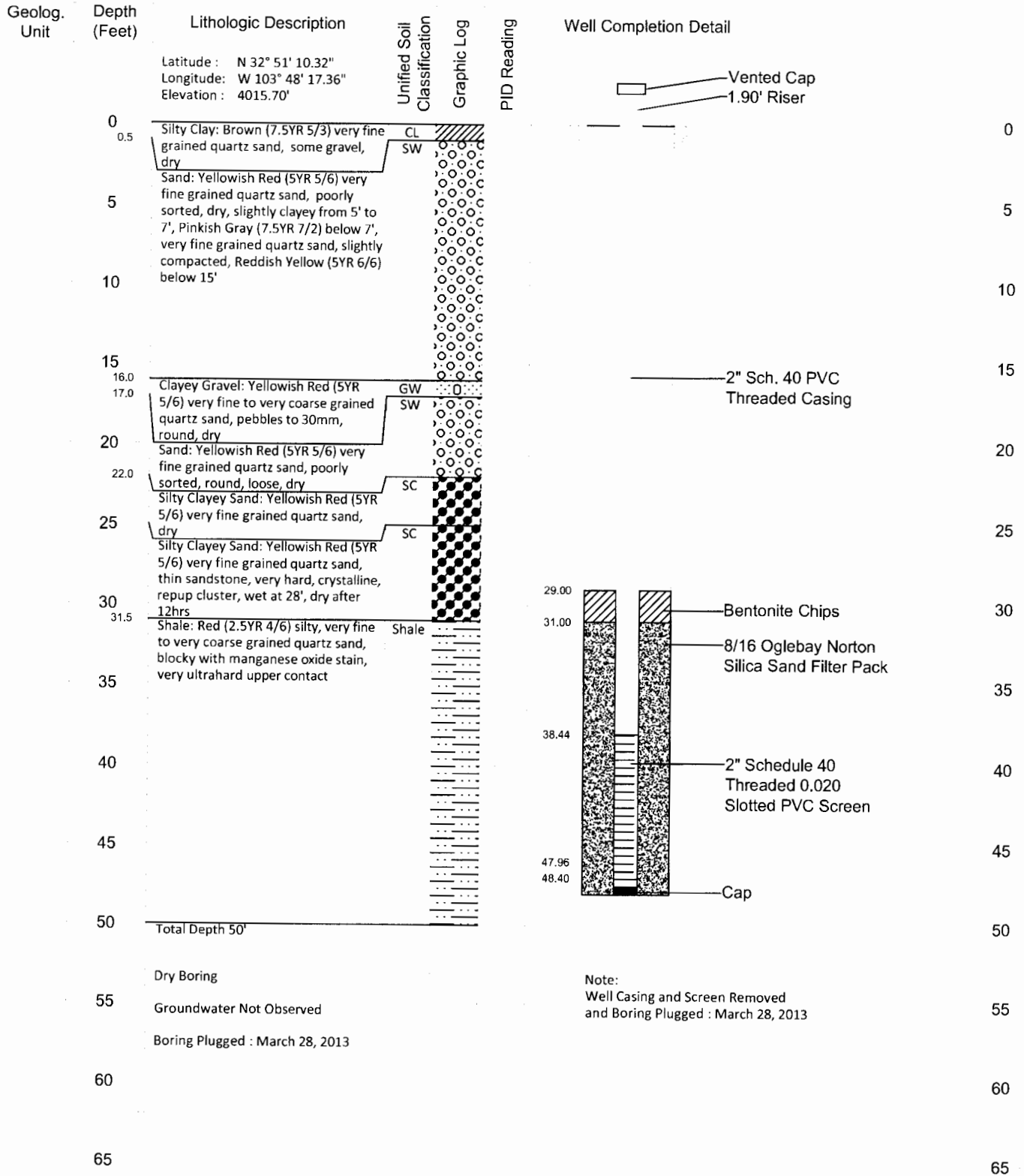
Legend

Date Drilled - 03/23/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Presicion Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"



Well Completion Record



Legend

Date Drilled - 03/23/2013
 Drilling Method - Hollow Stem Auger
 Drilled By - Precision Sampling Inc
 Hole Diameter - 7.5"
 Logged By - M. Larson
 Checked By - M. Larson

R 360 Artesia LLC. Landfarm
 UL A (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
 Lea County, New Mexico
 N 32° 51' 12.46"
 W 103° 48' 14.35"

Larson &
 Associates, Inc.
 Environmental Consultants

APPENDIX C

Laboratory Reports

(CD ROM)

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 2-3'
Lab ID: 1303223-02
Collection Date: 03/22/13 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0156	0.0390		mg/Kg-dry	1	04/02/13 01:16 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	7000	132	132		mg/Kg-dry	50	03/29/13 11:09 PM
Arsenic	2.03	0.528	1.06		mg/Kg-dry	5	03/28/13 02:25 AM
Barium	184	0.528	2.11		mg/Kg-dry	5	03/28/13 02:25 AM
Boron	6.80	2.64	7.92	J	mg/Kg-dry	5	03/28/13 02:25 AM
Cadmium	0.113	0.106	0.317	J	mg/Kg-dry	5	03/28/13 02:25 AM
Chromium	5.97	0.528	2.11		mg/Kg-dry	5	03/30/13 03:47 AM
Cobalt	2.09	0.528	2.11	J	mg/Kg-dry	5	03/28/13 02:25 AM
Copper	3.19	0.528	2.11		mg/Kg-dry	5	03/30/13 03:47 AM
Iron	6220	132	132		mg/Kg-dry	50	03/29/13 11:09 PM
Lead	3.78	0.106	0.317		mg/Kg-dry	5	03/28/13 02:25 AM
Manganese	62.2	0.528	2.11		mg/Kg-dry	5	03/28/13 02:25 AM
Molybdenum	ND	0.528	2.11		mg/Kg-dry	5	03/28/13 02:25 AM
Nickel	4.90	0.528	2.11		mg/Kg-dry	5	03/28/13 02:25 AM
Selenium	0.791	0.158	0.528		mg/Kg-dry	5	03/28/13 02:25 AM
Silver	ND	0.106	0.211		mg/Kg-dry	5	03/28/13 02:25 AM
Zinc	14.1	1.06	2.64		mg/Kg-dry	5	03/28/13 02:25 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	3.65	0.0537	0.143	N	mg/Kg-dry	5	03/29/13 04:11 AM
2-Methylnaphthalene	3.01	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Naphthalene	0.688	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Benzo[a]pyrene	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,3,4,6-Tetrachlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4,5-Trichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4,6-Trichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4-Dichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4-Dimethylphenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4-Dinitrophenol	ND	0.269	0.709		mg/Kg-dry	5	03/29/13 04:11 AM
2,6-Dichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2-Chlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2-Methylphenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2-Nitrophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
4,6-Dinitro-2-methylphenol	ND	0.161	0.355		mg/Kg-dry	5	03/29/13 04:11 AM
4-Chloro-3-methylphenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
4-Methylphenol	ND	0.107	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
4-Nitrophenol	ND	0.269	0.709		mg/Kg-dry	5	03/29/13 04:11 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 2-3'
Lab ID: 1303223-02
Collection Date: 03/22/13 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Pentachlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Phenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Total Phenol (Calculated)	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Surr: 2,4,6-Tribromophenol	120	0	45-126		%REC	5	03/29/13 04:11 AM
Surr: 2-Fluorobiphenyl	100	0	60-125		%REC	5	03/29/13 04:11 AM
Surr: 2-Fluorophenol	90.0	0	37-125		%REC	5	03/29/13 04:11 AM
Surr: 4-Terphenyl-d14	105	0	45-125		%REC	5	03/29/13 04:11 AM
Surr: Nitrobenzene-d5	120	0	45-125		%REC	5	03/29/13 04:11 AM
Surr: Phenol-d6	85.0	0	40-125		%REC	5	03/29/13 04:11 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1221	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1232	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1242	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1248	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1254	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1260	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Surr: 2-Fluorobiphenyl	78.5	0	43-125		%REC	1	03/29/13 04:46 AM
Surr: 4-Terphenyl-d14	79.4	0	32-125		%REC	1	03/29/13 04:46 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Toluene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Carbon tetrachloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,2-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1-Dichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Tetrachloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Trichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Ethylbenzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Total Xylenes	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Methylene chloride	ND	0.00514	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Chloroform	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Ethylene bromide	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1,1-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1,2-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1,2,2-Tetrachloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Vinyl chloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 2-3'
Lab ID: 1303223-02
Collection Date: 03/22/13 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 12:13 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	03/28/13 12:13 PM
Surr: Dibromofluoromethane	96.4	0	65-135		%REC	1	03/28/13 12:13 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 12:13 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	7740	111	222	N	mg/Kg-dry	20	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.186	0.466		mg/Kg-dry	1	03/28/13 04:42 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	2310	542	542		mg/Kg-dry	100	03/28/13 02:57 PM
Fluoride	1.60	1.08	1.08		mg/Kg-dry	1	03/28/13 09:54 AM
Nitrate-N	ND	5.42	5.42		mg/Kg-dry	1	03/28/13 09:54 AM
Sulfate	4520	1080	1080		mg/Kg-dry	100	03/28/13 02:57 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.64	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	9.86	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 5-7'
Lab ID: 1303223-03
Collection Date: 03/22/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0166	0.0414		mg/Kg-dry	1	04/02/13 01:18 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	4740	117	117		mg/Kg-dry	50	03/29/13 11:15 PM
Arsenic	1.30	0.467	0.934		mg/Kg-dry	5	03/28/13 02:32 AM
Barium	23.4	0.467	1.87		mg/Kg-dry	5	03/28/13 02:32 AM
Boron	ND	2.33	7.00		mg/Kg-dry	5	03/28/13 02:32 AM
Cadmium	ND	0.0934	0.280		mg/Kg-dry	5	03/28/13 02:32 AM
Chromium	4.63	0.467	1.87		mg/Kg-dry	5	03/30/13 03:53 AM
Cobalt	1.02	0.467	1.87	J	mg/Kg-dry	5	03/28/13 02:32 AM
Copper	1.58	0.467	1.87	J	mg/Kg-dry	5	03/30/13 03:53 AM
Iron	4840	117	117		mg/Kg-dry	50	03/29/13 11:15 PM
Lead	2.36	0.0934	0.280		mg/Kg-dry	5	03/28/13 02:32 AM
Manganese	44.3	0.467	1.87		mg/Kg-dry	5	03/28/13 02:32 AM
Molybdenum	ND	0.467	1.87		mg/Kg-dry	5	03/28/13 02:32 AM
Nickel	2.25	0.467	1.87		mg/Kg-dry	5	03/28/13 02:32 AM
Selenium	0.588	0.140	0.467		mg/Kg-dry	5	03/28/13 02:32 AM
Silver	ND	0.0934	0.187		mg/Kg-dry	5	03/28/13 02:32 AM
Zinc	7.88	0.934	2.33		mg/Kg-dry	5	03/28/13 02:32 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.00981	0.0261	N	mg/Kg-dry	1	03/28/13 10:24 PM
2-Methylnaphthalene	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Naphthalene	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Benzo[a]pyrene	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,3,4,6-Tetrachlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4,5-Trichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4,6-Trichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4-Dichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4-Dimethylphenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4-Dinitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/28/13 10:24 PM
2,6-Dichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2-Chlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2-Methylphenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2-Nitrophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
4,6-Dinitro-2-methylphenol	ND	0.0294	0.0648		mg/Kg-dry	1	03/28/13 10:24 PM
4-Chloro-3-methylphenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
4-Methylphenol	ND	0.0196	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
4-Nitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/28/13 10:24 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 5-7'
Lab ID: 1303223-03
Collection Date: 03/22/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Pentachlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Phenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Total Phenol (Calculated)	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Surr: 2,4,6-Tribromophenol	74.0	0	45-126		%REC	1	03/28/13 10:24 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	03/28/13 10:24 PM
Surr: 2-Fluorophenol	94.0	0	37-125		%REC	1	03/28/13 10:24 PM
Surr: 4-Terphenyl-d14	49.0	0	45-125		%REC	1	03/28/13 10:24 PM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	03/28/13 10:24 PM
Surr: Phenol-d6	95.0	0	40-125		%REC	1	03/28/13 10:24 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1221	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1232	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1242	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1248	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1254	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1260	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Surr: 2-Fluorobiphenyl	67.9	0	43-125		%REC	1	03/28/13 09:01 PM
Surr: 4-Terphenyl-d14	76.8	0	32-125		%REC	1	03/28/13 09:01 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Toluene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Carbon tetrachloride	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,2-Dichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1-Dichloroethylene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Tetrachloroethylene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Trichloroethylene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Ethylbenzene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Total Xylenes	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Methylene chloride	ND	0.00425	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Chloroform	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1-Dichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Ethylene bromide	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1,1-Trichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1,2-Trichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1,2,2-Tetrachloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Vinyl chloride	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 5-7'
Lab ID: 1303223-03
Collection Date: 03/22/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	99.6	0	52-149		%REC	1	03/28/13 12:45 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 12:45 PM
Surr: Dibromofluoromethane	98.1	0	65-135		%REC	1	03/28/13 12:45 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 12:45 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	8.41	5.18	10.4	JN	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.171	0.426		mg/Kg-dry	1	03/28/13 04:43 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	1230	51.3	51.3		mg/Kg-dry	10	03/28/13 03:12 PM
Fluoride	1.11	1.03	1.03		mg/Kg-dry	1	03/28/13 10:12 AM
Nitrate-N	7.23	5.13	5.13		mg/Kg-dry	1	03/28/13 10:12 AM
Sulfate	188	10.3	10.3		mg/Kg-dry	1	03/28/13 10:12 AM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	8.22	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	3.50	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 10-12'
Lab ID: 1303223-04
Collection Date: 03/22/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0152	0.0381		mg/Kg-dry	1	04/02/13 01:24 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	11700	112	112		mg/Kg-dry	50	03/29/13 11:22 PM
Arsenic	3.43	0.448	0.895		mg/Kg-dry	5	03/28/13 02:38 AM
Barium	55.0	0.448	1.79		mg/Kg-dry	5	03/28/13 02:38 AM
Boron	3.56	2.24	6.71	J	mg/Kg-dry	5	03/28/13 02:38 AM
Cadmium	ND	0.0895	0.269		mg/Kg-dry	5	03/28/13 02:38 AM
Chromium	7.68	0.448	1.79		mg/Kg-dry	5	03/30/13 03:59 AM
Cobalt	1.79	0.448	1.79	J	mg/Kg-dry	5	03/28/13 02:38 AM
Copper	2.19	0.448	1.79		mg/Kg-dry	5	03/30/13 03:59 AM
Iron	9690	112	112		mg/Kg-dry	50	03/29/13 11:22 PM
Lead	3.75	0.0895	0.269		mg/Kg-dry	5	03/28/13 02:38 AM
Manganese	124	0.448	1.79		mg/Kg-dry	5	03/28/13 02:38 AM
Molybdenum	ND	0.448	1.79		mg/Kg-dry	5	03/28/13 02:38 AM
Nickel	6.21	0.448	1.79		mg/Kg-dry	5	03/28/13 02:38 AM
Selenium	0.945	0.134	0.448		mg/Kg-dry	5	03/28/13 02:38 AM
Silver	ND	0.0895	0.179		mg/Kg-dry	5	03/28/13 02:38 AM
Zinc	13.0	0.895	2.24		mg/Kg-dry	5	03/28/13 02:38 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0100	0.0266	N	mg/Kg-dry	1	03/28/13 10:47 PM
2-Methylnaphthalene	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Naphthalene	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Benzo[a]pyrene	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,3,4,6-Tetrachlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4,5-Trichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4,6-Trichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4-Dichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4-Dimethylphenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4-Dinitrophenol	ND	0.0500	0.132		mg/Kg-dry	1	03/28/13 10:47 PM
2,6-Dichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2-Chlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2-Methylphenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2-Nitrophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
4,6-Dinitro-2-methylphenol	ND	0.0300	0.0661		mg/Kg-dry	1	03/28/13 10:47 PM
4-Chloro-3-methylphenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
4-Methylphenol	ND	0.0200	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
4-Nitrophenol	ND	0.0500	0.132		mg/Kg-dry	1	03/28/13 10:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 10-12'
Lab ID: 1303223-04
Collection Date: 03/22/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Phenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Total Phenol (Calculated)	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Surr: 2,4,6-Tribromophenol	78.0	0	45-126		%REC	1	03/28/13 10:47 PM
Surr: 2-Fluorobiphenyl	79.0	0	60-125		%REC	1	03/28/13 10:47 PM
Surr: 2-Fluorophenol	88.0	0	37-125		%REC	1	03/28/13 10:47 PM
Surr: 4-Terphenyl-d14	84.0	0	45-125		%REC	1	03/28/13 10:47 PM
Surr: Nitrobenzene-d5	81.0	0	45-125		%REC	1	03/28/13 10:47 PM
Surr: Phenol-d6	80.0	0	40-125		%REC	1	03/28/13 10:47 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1221	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1232	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1242	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1248	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1254	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1260	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Surr: 2-Fluorobiphenyl	74.6	0	43-125		%REC	1	03/28/13 09:31 PM
Surr: 4-Terphenyl-d14	80.5	0	32-125		%REC	1	03/28/13 09:31 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Toluene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Carbon tetrachloride	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,2-Dichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1-Dichloroethylene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Tetrachloroethylene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Trichloroethylene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Ethylbenzene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Total Xylenes	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Methylene chloride	ND	0.00480	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Chloroform	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1-Dichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Ethylene bromide	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1,1-Trichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1,2-Trichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1,2,2-Tetrachloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Vinyl chloride	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 10-12'
Lab ID: 1303223-04
Collection Date: 03/22/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	105	0	52-149		%REC	1	03/28/13 01:17 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	03/28/13 01:17 PM
Surr: Dibromofluoromethane	99.8	0	65-135		%REC	1	03/28/13 01:17 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 01:17 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	140	5.09	10.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.175	0.438		mg/Kg-dry	1	03/28/13 04:45 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	1220	50.6	50.6		mg/Kg-dry	10	03/28/13 03:26 PM
Fluoride	1.23	1.01	1.01		mg/Kg-dry	1	03/28/13 10:27 AM
Nitrate-N	ND	5.06	5.06		mg/Kg-dry	1	03/28/13 10:27 AM
Sulfate	174	10.1	10.1		mg/Kg-dry	1	03/28/13 10:27 AM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.85	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	1.99	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 2-3'
Lab ID: 1303223-06
Collection Date: 03/22/13 11:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	0.0174	0.0160	0.0400	J	mg/Kg-dry	1	04/02/13 01:27 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	4050	125	125		mg/Kg-dry	50	03/29/13 11:28 PM
Arsenic	1.24	0.500	1.00		mg/Kg-dry	5	03/28/13 02:44 AM
Barium	34.0	0.500	2.00		mg/Kg-dry	5	03/28/13 02:44 AM
Boron	ND	2.50	7.50		mg/Kg-dry	5	03/28/13 02:44 AM
Cadmium	0.123	0.100	0.300	J	mg/Kg-dry	5	03/28/13 02:44 AM
Chromium	4.03	0.500	2.00		mg/Kg-dry	5	03/30/13 04:05 AM
Cobalt	0.967	0.500	2.00	J	mg/Kg-dry	5	03/28/13 02:44 AM
Copper	1.57	0.500	2.00	J	mg/Kg-dry	5	03/30/13 04:05 AM
Iron	4320	125	125		mg/Kg-dry	50	03/29/13 11:28 PM
Lead	2.14	0.100	0.300		mg/Kg-dry	5	03/28/13 02:44 AM
Manganese	39.0	0.500	2.00		mg/Kg-dry	5	03/28/13 02:44 AM
Molybdenum	ND	0.500	2.00		mg/Kg-dry	5	03/28/13 02:44 AM
Nickel	2.02	0.500	2.00		mg/Kg-dry	5	03/28/13 02:44 AM
Selenium	0.586	0.150	0.500		mg/Kg-dry	5	03/28/13 02:44 AM
Silver	ND	0.100	0.200		mg/Kg-dry	5	03/28/13 02:44 AM
Zinc	7.44	1.00	2.50		mg/Kg-dry	5	03/28/13 02:44 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0106	0.0283	N	mg/Kg-dry	1	03/28/13 11:10 PM
2-Methylnaphthalene	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Naphthalene	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Benzo[a]pyrene	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4-Dichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4-Dimethylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4-Dinitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	03/28/13 11:10 PM
2,6-Dichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2-Chlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2-Methylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2-Nitrophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
4,6-Dinitro-2-methylphenol	ND	0.0319	0.0701		mg/Kg-dry	1	03/28/13 11:10 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
4-Methylphenol	ND	0.0213	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
4-Nitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	03/28/13 11:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 2-3'
Lab ID: 1303223-06
Collection Date: 03/22/13 11:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Phenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Total Phenol (Calculated)	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/28/13 11:10 PM
Surr: 2-Fluorobiphenyl	76.0	0	60-125		%REC	1	03/28/13 11:10 PM
Surr: 2-Fluorophenol	82.0	0	37-125		%REC	1	03/28/13 11:10 PM
Surr: 4-Terphenyl-d14	84.0	0	45-125		%REC	1	03/28/13 11:10 PM
Surr: Nitrobenzene-d5	78.0	0	45-125		%REC	1	03/28/13 11:10 PM
Surr: Phenol-d6	79.0	0	40-125		%REC	1	03/28/13 11:10 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1221	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1232	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1242	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1248	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1254	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1260	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Surr: 2-Fluorobiphenyl	68.5	0	43-125		%REC	1	03/28/13 10:03 PM
Surr: 4-Terphenyl-d14	79.2	0	32-125		%REC	1	03/28/13 10:03 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Toluene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Carbon tetrachloride	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,2-Dichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1-Dichloroethylene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Tetrachloroethylene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Trichloroethylene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Ethylbenzene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Total Xylenes	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Methylene chloride	ND	0.00501	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Chloroform	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1-Dichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Ethylene bromide	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1,1-Trichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1,2-Trichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1,2,2-Tetrachloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Vinyl chloride	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 2-3'
Lab ID: 1303223-06
Collection Date: 03/22/13 11:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	102	0	52-149		%REC	1	03/28/13 01:48 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	03/28/13 01:48 PM
Surr: Dibromofluoromethane	101	0	65-135		%REC	1	03/28/13 01:48 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 01:48 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	6.74	5.39	10.8	JN	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.214	0.535		mg/Kg-dry	1	03/28/13 05:25 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	1010	53.1	53.1		mg/Kg-dry	10	03/28/13 04:10 PM
Fluoride	ND	1.06	1.06		mg/Kg-dry	1	03/28/13 10:41 AM
Nitrate-N	7.67	5.31	5.31		mg/Kg-dry	1	03/28/13 10:41 AM
Sulfate	82.7	10.6	10.6		mg/Kg-dry	1	03/28/13 10:41 AM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.92	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	7.43	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 5-7'
Lab ID: 1303223-07
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0142	0.0355		mg/Kg-dry	1	04/02/13 01:29 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	4860	123	123		mg/Kg-dry	50	03/29/13 11:34 PM
Arsenic	1.12	0.490	0.980		mg/Kg-dry	5	03/28/13 02:50 AM
Barium	21.1	0.490	1.96		mg/Kg-dry	5	03/28/13 02:50 AM
Boron	ND	2.45	7.35		mg/Kg-dry	5	03/28/13 02:50 AM
Cadmium	ND	0.0980	0.294		mg/Kg-dry	5	03/28/13 02:50 AM
Chromium	4.70	0.490	1.96		mg/Kg-dry	5	03/30/13 04:11 AM
Cobalt	0.955	0.490	1.96	J	mg/Kg-dry	5	03/28/13 02:50 AM
Copper	1.66	0.490	1.96	J	mg/Kg-dry	5	03/30/13 04:11 AM
Iron	4750	123	123		mg/Kg-dry	50	03/29/13 11:34 PM
Lead	2.22	0.0980	0.294		mg/Kg-dry	5	03/28/13 02:50 AM
Manganese	37.4	0.490	1.96		mg/Kg-dry	5	03/28/13 02:50 AM
Molybdenum	ND	0.490	1.96		mg/Kg-dry	5	03/28/13 02:50 AM
Nickel	2.09	0.490	1.96		mg/Kg-dry	5	03/28/13 02:50 AM
Selenium	0.474	0.147	0.490	J	mg/Kg-dry	5	03/28/13 02:50 AM
Silver	ND	0.0980	0.196		mg/Kg-dry	5	03/28/13 02:50 AM
Zinc	8.03	0.980	2.45		mg/Kg-dry	5	03/28/13 02:50 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0101	0.0268	N	mg/Kg-dry	1	03/28/13 11:33 PM
2-Methylnaphthalene	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Naphthalene	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Benzo[a]pyrene	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,3,4,6-Tetrachlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4,5-Trichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4,6-Trichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4-Dichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4-Dimethylphenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4-Dinitrophenol	ND	0.0504	0.133		mg/Kg-dry	1	03/28/13 11:33 PM
2,6-Dichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2-Chlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2-Methylphenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2-Nitrophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
4,6-Dinitro-2-methylphenol	ND	0.0302	0.0665		mg/Kg-dry	1	03/28/13 11:33 PM
4-Chloro-3-methylphenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
4-Methylphenol	ND	0.0202	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
4-Nitrophenol	ND	0.0504	0.133		mg/Kg-dry	1	03/28/13 11:33 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 5-7'
Lab ID: 1303223-07
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Pentachlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Phenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Total Phenol (Calculated)	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Surr: 2,4,6-Tribromophenol	83.0	0	45-126		%REC	1	03/28/13 11:33 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	03/28/13 11:33 PM
Surr: 2-Fluorophenol	86.0	0	37-125		%REC	1	03/28/13 11:33 PM
Surr: 4-Terphenyl-d14	78.0	0	45-125		%REC	1	03/28/13 11:33 PM
Surr: Nitrobenzene-d5	82.0	0	45-125		%REC	1	03/28/13 11:33 PM
Surr: Phenol-d6	84.0	0	40-125		%REC	1	03/28/13 11:33 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1221	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1232	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1242	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1248	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1254	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1260	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Surr: 2-Fluorobiphenyl	70.5	0	43-125		%REC	1	03/28/13 10:34 PM
Surr: 4-Terphenyl-d14	80.2	0	32-125		%REC	1	03/28/13 10:34 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Toluene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Carbon tetrachloride	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,2-Dichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1-Dichloroethylene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Tetrachloroethylene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Trichloroethylene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Ethylbenzene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Total Xylenes	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Methylene chloride	ND	0.00487	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Chloroform	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1-Dichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Ethylene bromide	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,1-Trichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,2-Trichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,2,2-Tetrachloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Vinyl chloride	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 5-7'
Lab ID: 1303223-07
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	99.4	0	52-149		%REC	1	03/28/13 02:21 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 02:21 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	1	03/28/13 02:21 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 02:21 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	14.7	5.10	10.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.203	0.507		mg/Kg-dry	1	03/28/13 04:45 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	466	50.6	50.6		mg/Kg-dry	10	03/28/13 04:25 PM
Fluoride	ND	1.01	1.01		mg/Kg-dry	1	03/28/13 10:56 AM
Nitrate-N	ND	5.06	5.06		mg/Kg-dry	1	03/28/13 10:56 AM
Sulfate	103	10.1	10.1		mg/Kg-dry	1	03/28/13 10:56 AM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.75	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	1.93	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 7-9'
Lab ID: 1303223-08
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0157	0.0393		mg/Kg-dry	1	04/02/13 01:31 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	7650	124	124		mg/Kg-dry	50	03/29/13 11:40 PM
Arsenic	1.13	0.497	0.994		mg/Kg-dry	5	03/28/13 02:57 AM
Barium	37.9	0.497	1.99		mg/Kg-dry	5	03/28/13 02:57 AM
Boron	ND	2.49	7.46		mg/Kg-dry	5	03/28/13 02:57 AM
Cadmium	ND	0.0994	0.298		mg/Kg-dry	5	03/28/13 02:57 AM
Chromium	6.49	0.497	1.99		mg/Kg-dry	5	03/30/13 04:17 AM
Cobalt	1.61	0.497	1.99	J	mg/Kg-dry	5	03/28/13 02:57 AM
Copper	2.26	0.497	1.99		mg/Kg-dry	5	03/30/13 04:17 AM
Iron	6650	124	124		mg/Kg-dry	50	03/29/13 11:40 PM
Lead	3.10	0.0994	0.298		mg/Kg-dry	5	03/28/13 02:57 AM
Manganese	59.0	0.497	1.99		mg/Kg-dry	5	03/28/13 02:57 AM
Molybdenum	ND	0.497	1.99		mg/Kg-dry	5	03/28/13 02:57 AM
Nickel	3.66	0.497	1.99		mg/Kg-dry	5	03/28/13 02:57 AM
Selenium	0.762	0.149	0.497		mg/Kg-dry	5	03/28/13 02:57 AM
Silver	ND	0.0994	0.199		mg/Kg-dry	5	03/28/13 02:57 AM
Zinc	11.0	0.994	2.49		mg/Kg-dry	5	03/28/13 02:57 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0108	0.0288	N	mg/Kg-dry	1	03/28/13 11:57 PM
2-Methylnaphthalene	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Naphthalene	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Benzo[a]pyrene	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,3,4,6-Tetrachlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4,5-Trichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4,6-Trichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4-Dichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4-Dimethylphenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4-Dinitrophenol	ND	0.0542	0.143		mg/Kg-dry	1	03/28/13 11:57 PM
2,6-Dichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2-Chlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2-Methylphenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2-Nitrophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
4,6-Dinitro-2-methylphenol	ND	0.0325	0.0715		mg/Kg-dry	1	03/28/13 11:57 PM
4-Chloro-3-methylphenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
4-Methylphenol	ND	0.0217	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
4-Nitrophenol	ND	0.0542	0.143		mg/Kg-dry	1	03/28/13 11:57 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits
 N Parameter not NELAC certified

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 7-9'
Lab ID: 1303223-08
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Pentachlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Phenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Total Phenol (Calculated)	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/28/13 11:57 PM
Surr: 2-Fluorobiphenyl	76.0	0	60-125		%REC	1	03/28/13 11:57 PM
Surr: 2-Fluorophenol	83.0	0	37-125		%REC	1	03/28/13 11:57 PM
Surr: 4-Terphenyl-d14	83.0	0	45-125		%REC	1	03/28/13 11:57 PM
Surr: Nitrobenzene-d5	81.0	0	45-125		%REC	1	03/28/13 11:57 PM
Surr: Phenol-d6	82.0	0	40-125		%REC	1	03/28/13 11:57 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1221	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1232	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1242	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1248	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1254	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1260	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Surr: 2-Fluorobiphenyl	64.8	0	43-125		%REC	1	03/28/13 11:05 PM
Surr: 4-Terphenyl-d14	77.3	0	32-125		%REC	1	03/28/13 11:05 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Toluene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Carbon tetrachloride	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,2-Dichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1-Dichloroethylene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Tetrachloroethylene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Trichloroethylene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Ethylbenzene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Total Xylenes	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Methylene chloride	ND	0.00527	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Chloroform	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1-Dichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Ethylene bromide	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1,1-Trichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1,2-Trichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1,2,2-Tetrachloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Vinyl chloride	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 7-9'
Lab ID: 1303223-08
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 02:54 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	03/28/13 02:54 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	1	03/28/13 02:54 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 02:54 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.48	11.0	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.199	0.497		mg/Kg-dry	1	03/28/13 04:46 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	1300	54.7	54.7		mg/Kg-dry	10	03/28/13 04:39 PM
Fluoride	1.66	1.09	1.09		mg/Kg-dry	1	03/28/13 12:01 PM
Nitrate-N	8.05	5.47	5.47		mg/Kg-dry	1	03/28/13 12:01 PM
Sulfate	ND	10.9	10.9		mg/Kg-dry	1	03/28/13 12:01 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.64	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	9.39	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 10-12'
Lab ID: 1303223-09
Collection Date: 03/22/13 12:10 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0152	0.0380		mg/Kg-dry	1	04/02/13 01:33 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	5560	117	117		mg/Kg-dry	50	03/29/13 11:46 PM
Arsenic	0.686	0.466	0.933	J	mg/Kg-dry	5	03/28/13 03:03 AM
Barium	63.2	0.466	1.87		mg/Kg-dry	5	03/28/13 03:03 AM
Boron	ND	2.33	6.99		mg/Kg-dry	5	03/28/13 03:03 AM
Cadmium	ND	0.0933	0.280		mg/Kg-dry	5	03/28/13 03:03 AM
Chromium	5.04	0.466	1.87		mg/Kg-dry	5	03/30/13 04:24 AM
Cobalt	1.49	0.466	1.87	J	mg/Kg-dry	5	03/28/13 03:03 AM
Copper	1.62	0.466	1.87	J	mg/Kg-dry	5	03/30/13 04:24 AM
Iron	5580	117	117		mg/Kg-dry	50	03/29/13 11:46 PM
Lead	2.38	0.0933	0.280		mg/Kg-dry	5	03/28/13 03:03 AM
Manganese	25.5	0.466	1.87		mg/Kg-dry	5	03/28/13 03:03 AM
Molybdenum	ND	0.466	1.87		mg/Kg-dry	5	03/28/13 03:03 AM
Nickel	2.54	0.466	1.87		mg/Kg-dry	5	03/28/13 03:03 AM
Selenium	0.718	0.140	0.466		mg/Kg-dry	5	03/28/13 03:03 AM
Silver	ND	0.0933	0.187		mg/Kg-dry	5	03/28/13 03:03 AM
Zinc	8.21	0.933	2.33		mg/Kg-dry	5	03/28/13 03:03 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.00983	0.0261	N	mg/Kg-dry	1	03/29/13 12:20 AM
2-Methylnaphthalene	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Naphthalene	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Benzo[a]pyrene	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,3,4,6-Tetrachlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4,5-Trichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4,6-Trichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4-Dichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4-Dimethylphenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4-Dinitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/29/13 12:20 AM
2,6-Dichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2-Chlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2-Methylphenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2-Nitrophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
4,6-Dinitro-2-methylphenol	ND	0.0295	0.0649		mg/Kg-dry	1	03/29/13 12:20 AM
4-Chloro-3-methylphenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
4-Methylphenol	ND	0.0197	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
4-Nitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/29/13 12:20 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 10-12'
Lab ID: 1303223-09
Collection Date: 03/22/13 12:10 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Phenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Total Phenol (Calculated)	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Surr: 2,4,6-Tribromophenol	87.0	0	45-126		%REC	1	03/29/13 12:20 AM
Surr: 2-Fluorobiphenyl	82.0	0	60-125		%REC	1	03/29/13 12:20 AM
Surr: 2-Fluorophenol	86.0	0	37-125		%REC	1	03/29/13 12:20 AM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	03/29/13 12:20 AM
Surr: Nitrobenzene-d5	85.0	0	45-125		%REC	1	03/29/13 12:20 AM
Surr: Phenol-d6	84.0	0	40-125		%REC	1	03/29/13 12:20 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1221	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1232	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1242	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1248	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1254	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1260	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Surr: 2-Fluorobiphenyl	73.2	0	43-125		%REC	1	03/28/13 11:36 PM
Surr: 4-Terphenyl-d14	82.4	0	32-125		%REC	1	03/28/13 11:36 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Toluene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Carbon tetrachloride	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,2-Dichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1-Dichloroethylene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Tetrachloroethylene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Trichloroethylene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Ethylbenzene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Total Xylenes	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Methylene chloride	ND	0.00423	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Chloroform	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1-Dichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Ethylene bromide	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1,1-Trichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1,2-Trichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1,2,2-Tetrachloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Vinyl chloride	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 10-12'
Lab ID: 1303223-09
Collection Date: 03/22/13 12:10 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	03/28/13 03:26 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	03/28/13 03:26 PM
Surr: Dibromofluoromethane	95.4	0	65-135		%REC	1	03/28/13 03:26 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 03:26 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.22	10.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.196	0.490		mg/Kg-dry	1	03/28/13 04:46 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	12.2	5.21	5.21		mg/Kg-dry	1	03/28/13 12:16 PM
Fluoride	4.90	1.04	1.04		mg/Kg-dry	1	03/28/13 12:16 PM
Nitrate-N	ND	5.21	5.21		mg/Kg-dry	1	03/28/13 12:16 PM
Sulfate	32.0	10.4	10.4		mg/Kg-dry	1	03/28/13 12:16 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	8.25	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	4.26	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 2-3'
Lab ID: 1303223-11
Collection Date: 03/22/13 03:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0156	0.0389		mg/Kg-dry	1	04/02/13 01:35 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	4950	126	126		mg/Kg-dry	50	03/29/13 11:52 PM
Arsenic	1.47	0.503	1.01		mg/Kg-dry	5	03/28/13 03:09 AM
Barium	26.0	0.503	2.01		mg/Kg-dry	5	03/28/13 03:09 AM
Boron	ND	2.51	7.54		mg/Kg-dry	5	03/28/13 03:09 AM
Cadmium	ND	0.101	0.302		mg/Kg-dry	5	03/28/13 03:09 AM
Chromium	4.68	0.503	2.01		mg/Kg-dry	5	03/30/13 04:30 AM
Cobalt	1.02	0.503	2.01	J	mg/Kg-dry	5	03/28/13 03:09 AM
Copper	1.58	0.503	2.01	J	mg/Kg-dry	5	03/30/13 04:30 AM
Iron	5180	126	126		mg/Kg-dry	50	03/29/13 11:52 PM
Lead	2.56	0.101	0.302		mg/Kg-dry	5	03/28/13 03:09 AM
Manganese	41.2	0.503	2.01		mg/Kg-dry	5	03/28/13 03:09 AM
Molybdenum	ND	0.503	2.01		mg/Kg-dry	5	03/28/13 03:09 AM
Nickel	2.19	0.503	2.01		mg/Kg-dry	5	03/28/13 03:09 AM
Selenium	0.559	0.151	0.503		mg/Kg-dry	5	03/28/13 03:09 AM
Silver	ND	0.101	0.201		mg/Kg-dry	5	03/28/13 03:09 AM
Zinc	7.81	1.01	2.51		mg/Kg-dry	5	03/28/13 03:09 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0112	0.0297	N	mg/Kg-dry	1	03/29/13 12:43 AM
2-Methylnaphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Naphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Benzo[a]pyrene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,3,4,6-Tetrachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4,5-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4,6-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4-Dimethylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4-Dinitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 12:43 AM
2,6-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2-Chlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2-Methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2-Nitrophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
4,6-Dinitro-2-methylphenol	ND	0.0335	0.0738		mg/Kg-dry	1	03/29/13 12:43 AM
4-Chloro-3-methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
4-Methylphenol	ND	0.0224	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
4-Nitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 12:43 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 2-3'
Lab ID: 1303223-11
Collection Date: 03/22/13 03:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Phenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Total Phenol (Calculated)	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Surr: 2,4,6-Tribromophenol	93.0	0	45-126		%REC	1	03/29/13 12:43 AM
Surr: 2-Fluorobiphenyl	86.0	0	60-125		%REC	1	03/29/13 12:43 AM
Surr: 2-Fluorophenol	92.0	0	37-125		%REC	1	03/29/13 12:43 AM
Surr: 4-Terphenyl-d14	97.0	0	45-125		%REC	1	03/29/13 12:43 AM
Surr: Nitrobenzene-d5	93.0	0	45-125		%REC	1	03/29/13 12:43 AM
Surr: Phenol-d6	87.0	0	40-125		%REC	1	03/29/13 12:43 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1221	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1232	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1242	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1248	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1254	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1260	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Surr: 2-Fluorobiphenyl	68.2	0	43-125		%REC	1	03/29/13 12:07 AM
Surr: 4-Terphenyl-d14	76.7	0	32-125		%REC	1	03/29/13 12:07 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Toluene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Carbon tetrachloride	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,2-Dichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1-Dichloroethylene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Tetrachloroethylene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Trichloroethylene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Ethylbenzene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Total Xylenes	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Methylene chloride	ND	0.00467	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Chloroform	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1-Dichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Ethylene bromide	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1,1-Trichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1,2-Trichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1,2,2-Tetrachloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Vinyl chloride	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 2-3'
Lab ID: 1303223-11
Collection Date: 03/22/13 03:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 03:58 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 03:58 PM
Surr: Dibromofluoromethane	97.0	0	65-135		%REC	1	03/28/13 03:58 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 03:58 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	23.7	5.75	11.5	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.190	0.474		mg/Kg-dry	1	03/28/13 04:46 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	244	5.78	5.78		mg/Kg-dry	1	03/28/13 12:30 PM
Fluoride	ND	1.16	1.16		mg/Kg-dry	1	03/28/13 12:30 PM
Nitrate-N	ND	5.78	5.78		mg/Kg-dry	1	03/28/13 12:30 PM
Sulfate	253	11.6	11.6		mg/Kg-dry	1	03/28/13 12:30 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.81	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	13.5	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 5-7'
Lab ID: 1303223-12
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0160	0.0401		mg/Kg-dry	1	04/02/13 01:37 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	20200	111	111		mg/Kg-dry	50	03/29/13 11:59 PM
Arsenic	4.06	0.442	0.885		mg/Kg-dry	5	03/28/13 03:15 AM
Barium	57.5	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Boron	5.04	2.21	6.63	J	mg/Kg-dry	5	03/28/13 03:15 AM
Cadmium	0.143	0.0885	0.265	J	mg/Kg-dry	5	03/28/13 03:15 AM
Chromium	12.0	0.442	1.77		mg/Kg-dry	5	03/30/13 04:36 AM
Cobalt	2.48	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Copper	3.21	0.442	1.77		mg/Kg-dry	5	03/30/13 04:36 AM
Iron	13900	111	111		mg/Kg-dry	50	03/29/13 11:59 PM
Lead	5.86	0.0885	0.265		mg/Kg-dry	5	03/28/13 03:15 AM
Manganese	67.4	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Molybdenum	ND	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Nickel	6.93	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Selenium	1.25	0.133	0.442		mg/Kg-dry	5	03/28/13 03:15 AM
Silver	ND	0.0885	0.177		mg/Kg-dry	5	03/28/13 03:15 AM
Zinc	25.7	0.885	2.21		mg/Kg-dry	5	03/28/13 03:15 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.00989	0.0263	N	mg/Kg-dry	1	03/29/13 01:06 AM
2-Methylnaphthalene	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Naphthalene	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Benzo[a]pyrene	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,3,4,6-Tetrachlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4,5-Trichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4,6-Trichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4-Dichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4-Dimethylphenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4-Dinitrophenol	ND	0.0495	0.131		mg/Kg-dry	1	03/29/13 01:06 AM
2,6-Dichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2-Chlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2-Methylphenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2-Nitrophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
4,6-Dinitro-2-methylphenol	ND	0.0297	0.0653		mg/Kg-dry	1	03/29/13 01:06 AM
4-Chloro-3-methylphenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
4-Methylphenol	ND	0.0198	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
4-Nitrophenol	ND	0.0495	0.131		mg/Kg-dry	1	03/29/13 01:06 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 5-7'
Lab ID: 1303223-12
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Pentachlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Phenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Total Phenol (Calculated)	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/29/13 01:06 AM
Surr: 2-Fluorobiphenyl	75.0	0	60-125		%REC	1	03/29/13 01:06 AM
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	03/29/13 01:06 AM
Surr: 4-Terphenyl-d14	69.0	0	45-125		%REC	1	03/29/13 01:06 AM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	03/29/13 01:06 AM
Surr: Phenol-d6	76.0	0	40-125		%REC	1	03/29/13 01:06 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1221	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1232	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1242	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1248	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1254	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1260	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Surr: 2-Fluorobiphenyl	70.6	0	43-125		%REC	1	03/29/13 12:38 AM
Surr: 4-Terphenyl-d14	84.7	0	32-125		%REC	1	03/29/13 12:38 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Toluene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Carbon tetrachloride	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,2-Dichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1-Dichloroethylene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Tetrachloroethylene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Trichloroethylene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Ethylbenzene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Total Xylenes	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Methylene chloride	ND	0.00478	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Chloroform	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1-Dichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Ethylene bromide	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1,1-Trichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1,2-Trichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1,2,2-Tetrachloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Vinyl chloride	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 5-7'
Lab ID: 1303223-12
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	104	0	52-149		%REC	1	03/28/13 04:33 PM
Surr: 4-Bromofluorobenzene	102	0	84-118		%REC	1	03/28/13 04:33 PM
Surr: Dibromofluoromethane	97.0	0	65-135		%REC	1	03/28/13 04:33 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 04:33 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.16	10.3	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.169	0.422		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	81.2	5.17	5.17		mg/Kg-dry	1	03/28/13 12:45 PM
Fluoride	ND	1.03	1.03		mg/Kg-dry	1	03/28/13 12:45 PM
Nitrate-N	ND	5.17	5.17		mg/Kg-dry	1	03/28/13 12:45 PM
Sulfate	80.0	10.3	10.3		mg/Kg-dry	1	03/28/13 12:45 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.25	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	3.37	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 7-9'
Lab ID: 1303223-13
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	0.0164	0.0152	0.0379	J	mg/Kg-dry	1	04/02/13 01:39 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	20500	127	127		mg/Kg-dry	50	03/30/13 01:37 AM
Arsenic	3.92	0.510	1.02		mg/Kg-dry	5	03/28/13 04:42 AM
Barium	93.8	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Boron	6.68	2.55	7.64	J	mg/Kg-dry	5	03/28/13 04:42 AM
Cadmium	0.169	0.102	0.306	J	mg/Kg-dry	5	03/28/13 04:42 AM
Chromium	11.9	0.510	2.04		mg/Kg-dry	5	04/01/13 03:18 PM
Cobalt	3.14	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Copper	3.07	0.510	2.04		mg/Kg-dry	5	04/01/13 03:18 PM
Iron	13700	127	127		mg/Kg-dry	50	03/30/13 01:37 AM
Lead	6.41	0.102	0.306		mg/Kg-dry	5	03/28/13 04:42 AM
Manganese	82.7	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Molybdenum	ND	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Nickel	9.26	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Selenium	1.31	0.153	0.510		mg/Kg-dry	5	03/28/13 04:42 AM
Silver	ND	0.102	0.204		mg/Kg-dry	5	03/28/13 04:42 AM
Zinc	22.2	1.02	2.55		mg/Kg-dry	5	03/28/13 04:42 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0109	0.0290	N	mg/Kg-dry	1	03/29/13 01:29 AM
2-Methylnaphthalene	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Naphthalene	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Benzo[a]pyrene	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,3,4,6-Tetrachlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4,5-Trichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4,6-Trichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4-Dichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4-Dimethylphenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4-Dinitrophenol	ND	0.0546	0.144		mg/Kg-dry	1	03/29/13 01:29 AM
2,6-Dichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2-Chlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2-Methylphenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2-Nitrophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
4,6-Dinitro-2-methylphenol	ND	0.0328	0.0721		mg/Kg-dry	1	03/29/13 01:29 AM
4-Chloro-3-methylphenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
4-Methylphenol	ND	0.0218	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
4-Nitrophenol	ND	0.0546	0.144		mg/Kg-dry	1	03/29/13 01:29 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits
 N Parameter not NELAC certified

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 7-9'
Lab ID: 1303223-13
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Phenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Total Phenol (Calculated)	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Surr: 2,4,6-Tribromophenol	85.0	0	45-126		%REC	1	03/29/13 01:29 AM
Surr: 2-Fluorobiphenyl	79.0	0	60-125		%REC	1	03/29/13 01:29 AM
Surr: 2-Fluorophenol	84.0	0	37-125		%REC	1	03/29/13 01:29 AM
Surr: 4-Terphenyl-d14	81.0	0	45-125		%REC	1	03/29/13 01:29 AM
Surr: Nitrobenzene-d5	82.0	0	45-125		%REC	1	03/29/13 01:29 AM
Surr: Phenol-d6	81.0	0	40-125		%REC	1	03/29/13 01:29 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1221	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1232	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1242	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1248	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1254	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1260	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Surr: 2-Fluorobiphenyl	64.4	0	43-125		%REC	1	03/29/13 01:09 AM
Surr: 4-Terphenyl-d14	75.8	0	32-125		%REC	1	03/29/13 01:09 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Toluene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Carbon tetrachloride	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,2-Dichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1-Dichloroethylene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Tetrachloroethylene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Trichloroethylene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Ethylbenzene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Total Xylenes	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Methylene chloride	ND	0.00520	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Chloroform	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1-Dichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Ethylene bromide	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1,1-Trichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1,2-Trichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1,2,2-Tetrachloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Vinyl chloride	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 7-9'
Lab ID: 1303223-13
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 05:06 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 05:06 PM
Surr: Dibromofluoromethane	98.4	0	65-135		%REC	1	03/28/13 05:06 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 05:06 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.59	11.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.177	0.441		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	99.2	5.50	5.50		mg/Kg-dry	1	03/28/13 12:59 PM
Fluoride	1.67	1.10	1.10		mg/Kg-dry	1	03/28/13 12:59 PM
Nitrate-N	ND	5.50	5.50		mg/Kg-dry	1	03/28/13 12:59 PM
Sulfate	19.0	11.0	11.0		mg/Kg-dry	1	03/28/13 12:59 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.31	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	10.8	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 10-12'
Lab ID: 1303223-14
Collection Date: 03/22/13 03:40 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0171	0.0426		mg/Kg-dry	1	04/02/13 01:41 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	5480	131	131		mg/Kg-dry	50	03/30/13 01:43 AM
Arsenic	2.39	0.524	1.05		mg/Kg-dry	5	03/28/13 04:48 AM
Barium	151	0.524	2.10		mg/Kg-dry	5	03/28/13 04:48 AM
Boron	4.17	2.62	7.86	J	mg/Kg-dry	5	03/28/13 04:48 AM
Cadmium	0.117	0.105	0.314	J	mg/Kg-dry	5	03/28/13 04:48 AM
Chromium	5.17	0.524	2.10		mg/Kg-dry	5	04/01/13 03:24 PM
Cobalt	1.04	0.524	2.10	J	mg/Kg-dry	5	03/28/13 04:48 AM
Copper	1.84	0.524	2.10	J	mg/Kg-dry	5	04/01/13 03:24 PM
Iron	4920	131	131		mg/Kg-dry	50	03/30/13 01:43 AM
Lead	2.33	0.105	0.314		mg/Kg-dry	5	03/28/13 04:48 AM
Manganese	44.1	0.524	2.10		mg/Kg-dry	5	03/28/13 04:48 AM
Molybdenum	ND	0.524	2.10		mg/Kg-dry	5	03/28/13 04:48 AM
Nickel	3.29	0.524	2.10		mg/Kg-dry	5	03/28/13 04:48 AM
Selenium	0.825	0.157	0.524		mg/Kg-dry	5	03/28/13 04:48 AM
Silver	ND	0.105	0.210		mg/Kg-dry	5	03/28/13 04:48 AM
Zinc	7.19	1.05	2.62		mg/Kg-dry	5	03/28/13 04:48 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0110	0.0293	N	mg/Kg-dry	1	03/29/13 01:52 AM
2-Methylnaphthalene	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Naphthalene	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Benzo[a]pyrene	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,3,4,6-Tetrachlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4,5-Trichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4,6-Trichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4-Dichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4-Dimethylphenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4-Dinitrophenol	ND	0.0550	0.145		mg/Kg-dry	1	03/29/13 01:52 AM
2,6-Dichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2-Chlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2-Methylphenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2-Nitrophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
4,6-Dinitro-2-methylphenol	ND	0.0330	0.0726		mg/Kg-dry	1	03/29/13 01:52 AM
4-Chloro-3-methylphenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
4-Methylphenol	ND	0.0220	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
4-Nitrophenol	ND	0.0550	0.145		mg/Kg-dry	1	03/29/13 01:52 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 10-12'
Lab ID: 1303223-14
Collection Date: 03/22/13 03:40 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Phenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Total Phenol (Calculated)	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/29/13 01:52 AM
Surr: 2-Fluorobiphenyl	75.0	0	60-125		%REC	1	03/29/13 01:52 AM
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	03/29/13 01:52 AM
Surr: 4-Terphenyl-d14	80.0	0	45-125		%REC	1	03/29/13 01:52 AM
Surr: Nitrobenzene-d5	79.0	0	45-125		%REC	1	03/29/13 01:52 AM
Surr: Phenol-d6	80.0	0	40-125		%REC	1	03/29/13 01:52 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1221	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1232	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1242	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1248	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1254	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1260	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Surr: 2-Fluorobiphenyl	66.9	0	43-125		%REC	1	03/29/13 01:40 AM
Surr: 4-Terphenyl-d14	76.0	0	32-125		%REC	1	03/29/13 01:40 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Toluene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Carbon tetrachloride	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,2-Dichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1-Dichloroethylene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Tetrachloroethylene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Trichloroethylene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Ethylbenzene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Total Xylenes	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Methylene chloride	ND	0.00471	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Chloroform	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1-Dichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Ethylene bromide	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1,1-Trichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1,2-Trichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1,2,2-Tetrachloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Vinyl chloride	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 10-12'
Lab ID: 1303223-14
Collection Date: 03/22/13 03:40 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 05:40 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	03/28/13 05:40 PM
Surr: Dibromofluoromethane	95.8	0	65-135		%REC	1	03/28/13 05:40 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 05:40 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.49	11.0	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.183	0.457		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	19.2	5.49	5.49		mg/Kg-dry	1	03/28/13 01:14 PM
Fluoride	11.0	1.10	1.10		mg/Kg-dry	1	03/28/13 01:14 PM
Nitrate-N	ND	5.49	5.49		mg/Kg-dry	1	03/28/13 01:14 PM
Sulfate	58.3	11.0	11.0		mg/Kg-dry	1	03/28/13 01:14 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	8.38	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	9.98	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 9-10'
Lab ID: 1303223-15
Collection Date: 03/22/13 03:23 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	0.0213	0.0170	0.0424	J	mg/Kg-dry	1	04/02/13 01:43 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	9010	124	124		mg/Kg-dry	50	03/30/13 01:50 AM
Arsenic	2.12	0.497	0.995		mg/Kg-dry	5	03/28/13 04:54 AM
Barium	411	0.497	1.99		mg/Kg-dry	5	03/28/13 04:54 AM
Boron	7.53	2.49	7.46		mg/Kg-dry	5	03/28/13 04:54 AM
Cadmium	0.103	0.0995	0.298	J	mg/Kg-dry	5	03/28/13 04:54 AM
Chromium	6.06	0.497	1.99		mg/Kg-dry	5	04/01/13 03:30 PM
Cobalt	1.17	0.497	1.99	J	mg/Kg-dry	5	03/28/13 04:54 AM
Copper	3.13	0.497	1.99		mg/Kg-dry	5	04/01/13 03:30 PM
Iron	6180	124	124		mg/Kg-dry	50	03/30/13 01:50 AM
Lead	2.89	0.0995	0.298		mg/Kg-dry	5	03/28/13 04:54 AM
Manganese	38.0	0.497	1.99		mg/Kg-dry	5	03/28/13 04:54 AM
Molybdenum	ND	0.497	1.99		mg/Kg-dry	5	03/28/13 04:54 AM
Nickel	5.29	0.497	1.99		mg/Kg-dry	5	03/28/13 04:54 AM
Selenium	0.714	0.149	0.497		mg/Kg-dry	5	03/28/13 04:54 AM
Silver	ND	0.0995	0.199		mg/Kg-dry	5	03/28/13 04:54 AM
Zinc	9.17	0.995	2.49		mg/Kg-dry	5	03/28/13 04:54 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0111	0.0294	N	mg/Kg-dry	1	03/29/13 02:15 AM
2-Methylnaphthalene	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Naphthalene	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Benzo[a]pyrene	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,3,4,6-Tetrachlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4,5-Trichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4,6-Trichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4-Dichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4-Dimethylphenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4-Dinitrophenol	ND	0.0553	0.146		mg/Kg-dry	1	03/29/13 02:15 AM
2,6-Dichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2-Chlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2-Methylphenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2-Nitrophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
4,6-Dinitro-2-methylphenol	ND	0.0332	0.0730		mg/Kg-dry	1	03/29/13 02:15 AM
4-Chloro-3-methylphenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
4-Methylphenol	ND	0.0221	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
4-Nitrophenol	ND	0.0553	0.146		mg/Kg-dry	1	03/29/13 02:15 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
 Project: R360 Artesia Landfarm
 Project No: 11-0109-09
 Lab Order: 1303223

Client Sample ID: SB-10 9-10'
 Lab ID: 1303223-15
 Collection Date: 03/22/13 03:23 PM
 Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Phenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Total Phenol (Calculated)	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Surr: 2,4,6-Tribromophenol	91.0	0	45-126		%REC	1	03/29/13 02:15 AM
Surr: 2-Fluorobiphenyl	83.0	0	60-125		%REC	1	03/29/13 02:15 AM
Surr: 2-Fluorophenol	90.0	0	37-125		%REC	1	03/29/13 02:15 AM
Surr: 4-Terphenyl-d14	92.0	0	45-125		%REC	1	03/29/13 02:15 AM
Surr: Nitrobenzene-d5	88.0	0	45-125		%REC	1	03/29/13 02:15 AM
Surr: Phenol-d6	87.0	0	40-125		%REC	1	03/29/13 02:15 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1221	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1232	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1242	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1248	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1254	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1260	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Surr: 2-Fluorobiphenyl	71.3	0	43-125		%REC	1	03/29/13 02:11 AM
Surr: 4-Terphenyl-d14	87.1	0	32-125		%REC	1	03/29/13 02:11 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Toluene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Carbon tetrachloride	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,2-Dichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1-Dichloroethylene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Tetrachloroethylene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Trichloroethylene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Ethylbenzene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Total Xylenes	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Methylene chloride	ND	0.00506	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Chloroform	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1-Dichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Ethylene bromide	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1,1-Trichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1,2-Trichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1,2,2-Tetrachloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Vinyl chloride	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 9-10'
Lab ID: 1303223-15
Collection Date: 03/22/13 03:23 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	102	0	52-149		%REC	1	03/28/13 06:11 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 06:11 PM
Surr: Dibromofluoromethane	95.8	0	65-135		%REC	1	03/28/13 06:11 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 06:11 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.59	11.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.174	0.434		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	28.4	5.46	5.46		mg/Kg-dry	1	03/28/13 01:29 PM
Fluoride	7.73	1.09	1.09		mg/Kg-dry	1	03/28/13 01:29 PM
Nitrate-N	ND	5.46	5.46		mg/Kg-dry	1	03/28/13 01:29 PM
Sulfate	59.6	10.9	10.9		mg/Kg-dry	1	03/28/13 01:29 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	8.27	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	11.0	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 2-2.7'
Lab ID: 1303223-17
Collection Date: 03/23/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.00944	0.0236		mg/Kg-dry	1	04/02/13 01:49 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	4860	80.8	80.8		mg/Kg-dry	50	03/30/13 01:56 AM
Arsenic	1.28	0.323	0.647		mg/Kg-dry	5	03/28/13 05:01 AM
Barium	25.9	0.323	1.29		mg/Kg-dry	5	03/28/13 05:01 AM
Boron	ND	1.62	4.85		mg/Kg-dry	5	03/28/13 05:01 AM
Cadmium	ND	0.0647	0.194		mg/Kg-dry	5	03/28/13 05:01 AM
Chromium	4.37	0.323	1.29		mg/Kg-dry	5	04/01/13 03:36 PM
Cobalt	0.798	0.323	1.29	J	mg/Kg-dry	5	03/28/13 05:01 AM
Copper	1.18	0.323	1.29	J	mg/Kg-dry	5	04/01/13 03:36 PM
Iron	4230	80.8	80.8		mg/Kg-dry	50	03/30/13 01:56 AM
Lead	2.05	0.0647	0.194		mg/Kg-dry	5	03/28/13 05:01 AM
Manganese	36.1	0.323	1.29		mg/Kg-dry	5	03/28/13 05:01 AM
Molybdenum	ND	0.323	1.29		mg/Kg-dry	5	03/28/13 05:01 AM
Nickel	1.94	0.323	1.29		mg/Kg-dry	5	03/28/13 05:01 AM
Selenium	0.577	0.0970	0.323		mg/Kg-dry	5	03/28/13 05:01 AM
Silver	ND	0.0647	0.129		mg/Kg-dry	5	03/28/13 05:01 AM
Zinc	6.48	0.647	1.62		mg/Kg-dry	5	03/28/13 05:01 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0122	0.0325	N	mg/Kg-dry	1	03/29/13 03:48 AM
2-Methylnaphthalene	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Naphthalene	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Benzo[a]pyrene	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,3,4,6-Tetrachlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4,5-Trichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4,6-Trichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4-Dichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4-Dimethylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4-Dinitrophenol	ND	0.0611	0.161		mg/Kg-dry	1	03/29/13 03:48 AM
2,6-Dichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2-Chlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2-Methylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2-Nitrophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
4,6-Dinitro-2-methylphenol	ND	0.0367	0.0807		mg/Kg-dry	1	03/29/13 03:48 AM
4-Chloro-3-methylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
4-Methylphenol	ND	0.0245	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
4-Nitrophenol	ND	0.0611	0.161		mg/Kg-dry	1	03/29/13 03:48 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
 Project: R360 Artesia Landfarm
 Project No: 11-0109-09
 Lab Order: 1303223

Client Sample ID: SB-9 2-2.7'
 Lab ID: 1303223-17
 Collection Date: 03/23/13 08:50 AM
 Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Phenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Total Phenol (Calculated)	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Surr: 2,4,6-Tribromophenol	90.0	0	45-126		%REC	1	03/29/13 03:48 AM
Surr: 2-Fluorobiphenyl	74.0	0	60-125		%REC	1	03/29/13 03:48 AM
Surr: 2-Fluorophenol	77.0	0	37-125		%REC	1	03/29/13 03:48 AM
Surr: 4-Terphenyl-d14	79.0	0	45-125		%REC	1	03/29/13 03:48 AM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	03/29/13 03:48 AM
Surr: Phenol-d6	74.0	0	40-125		%REC	1	03/29/13 03:48 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1221	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1232	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1242	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1248	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1254	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1260	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Surr: 2-Fluorobiphenyl	70.0	0	43-125		%REC	1	03/29/13 04:15 AM
Surr: 4-Terphenyl-d14	79.0	0	32-125		%REC	1	03/29/13 04:15 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Toluene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Carbon tetrachloride	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,2-Dichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1-Dichloroethylene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Tetrachloroethylene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Trichloroethylene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Ethylbenzene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Total Xylenes	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Methylene chloride	ND	0.00602	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Chloroform	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1-Dichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Ethylene bromide	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1,1-Trichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1,2-Trichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1,2,2-Tetrachloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Vinyl chloride	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 2-2.7'
Lab ID: 1303223-17
Collection Date: 03/23/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	99.4	0	52-149		%REC	1	03/28/13 06:43 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 06:43 PM
Surr: Dibromofluoromethane	96.9	0	65-135		%REC	1	03/28/13 06:43 PM
Surr: Toluene-d8	106	0	84-116		%REC	1	03/28/13 06:43 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	147	6.22	12.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.225	0.562		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	329	61.5	61.5		mg/Kg-dry	10	03/28/13 04:54 PM
Fluoride	2.29	1.23	1.23		mg/Kg-dry	1	03/28/13 01:43 PM
Nitrate-N	ND	6.15	6.15		mg/Kg-dry	1	03/28/13 01:43 PM
Sulfate	141	12.3	12.3		mg/Kg-dry	1	03/28/13 01:43 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.78	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	19.9	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 5-7'
Lab ID: 1303223-18
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0140	0.0351		mg/Kg-dry	1	04/02/13 01:05 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	5910	114	114		mg/Kg-dry	50	03/29/13 10:57 PM
Arsenic	1.50	0.455	0.911		mg/Kg-dry	5	03/28/13 02:13 AM
Barium	20.9	0.455	1.82		mg/Kg-dry	5	03/28/13 02:13 AM
Boron	ND	2.28	6.83		mg/Kg-dry	5	03/28/13 02:13 AM
Cadmium	ND	0.0911	0.273		mg/Kg-dry	5	03/28/13 02:13 AM
Chromium	5.23	0.455	1.82		mg/Kg-dry	5	03/30/13 03:41 AM
Cobalt	1.19	0.455	1.82	J	mg/Kg-dry	5	03/28/13 02:13 AM
Copper	1.48	0.455	1.82	J	mg/Kg-dry	5	03/30/13 03:41 AM
Iron	5440	114	114		mg/Kg-dry	50	03/29/13 10:57 PM
Lead	2.58	0.0911	0.273		mg/Kg-dry	5	03/28/13 02:13 AM
Manganese	42.6	0.455	1.82		mg/Kg-dry	5	03/28/13 02:13 AM
Molybdenum	ND	0.455	1.82		mg/Kg-dry	5	03/28/13 02:13 AM
Nickel	2.78	0.455	1.82		mg/Kg-dry	5	03/28/13 02:13 AM
Selenium	0.590	0.137	0.455		mg/Kg-dry	5	03/28/13 02:13 AM
Silver	ND	0.0911	0.182		mg/Kg-dry	5	03/28/13 02:13 AM
Zinc	9.77	0.911	2.28		mg/Kg-dry	5	03/28/13 02:13 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0101	0.0270	N	mg/Kg-dry	1	03/29/13 02:38 AM
2-Methylnaphthalene	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Naphthalene	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Benzo[a]pyrene	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,3,4,6-Tetrachlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4,5-Trichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4,6-Trichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4-Dichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4-Dimethylphenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4-Dinitrophenol	ND	0.0507	0.134		mg/Kg-dry	1	03/29/13 02:38 AM
2,6-Dichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2-Chlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2-Methylphenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2-Nitrophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
4,6-Dinitro-2-methylphenol	ND	0.0304	0.0670		mg/Kg-dry	1	03/29/13 02:38 AM
4-Chloro-3-methylphenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
4-Methylphenol	ND	0.0203	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
4-Nitrophenol	ND	0.0507	0.134		mg/Kg-dry	1	03/29/13 02:38 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
 C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
 E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
 MDL Method Detection Limit ND Not Detected at the Method Detection Limit
 RL Reporting Limit S Spike Recovery outside control limits
 N Parameter not NELAC certified

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 5-7'
Lab ID: 1303223-18
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Phenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Total Phenol (Calculated)	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Surr: 2,4,6-Tribromophenol	94.0	0	45-126		%REC	1	03/29/13 02:38 AM
Surr: 2-Fluorobiphenyl	89.0	0	60-125		%REC	1	03/29/13 02:38 AM
Surr: 2-Fluorophenol	96.0	0	37-125		%REC	1	03/29/13 02:38 AM
Surr: 4-Terphenyl-d14	93.0	0	45-125		%REC	1	03/29/13 02:38 AM
Surr: Nitrobenzene-d5	92.0	0	45-125		%REC	1	03/29/13 02:38 AM
Surr: Phenol-d6	93.0	0	40-125		%REC	1	03/29/13 02:38 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1221	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1232	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1242	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1248	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1254	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1260	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Surr: 2-Fluorobiphenyl	67.8	0	43-125		%REC	1	03/29/13 02:42 AM
Surr: 4-Terphenyl-d14	77.0	0	32-125		%REC	1	03/29/13 02:42 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Toluene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Carbon tetrachloride	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,2-Dichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1-Dichloroethylene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Tetrachloroethylene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Trichloroethylene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Ethylbenzene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Total Xylenes	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Methylene chloride	ND	0.00460	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Chloroform	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1-Dichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Ethylene bromide	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1,1-Trichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1,2-Trichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1,2,2-Tetrachloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Vinyl chloride	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 5-7'
Lab ID: 1303223-18
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 07:17 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 07:17 PM
Surr: Dibromofluoromethane	97.9	0	65-135		%REC	1	03/28/13 07:17 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 07:17 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.17	10.3	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.195	0.487		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	434	51.8	51.8		mg/Kg-dry	10	03/28/13 05:23 PM
Fluoride	ND	1.04	1.04		mg/Kg-dry	1	03/28/13 01:58 PM
Nitrate-N	ND	5.18	5.18		mg/Kg-dry	1	03/28/13 01:58 PM
Sulfate	20.3	10.4	10.4		mg/Kg-dry	1	03/28/13 01:58 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.58	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	3.70	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 7-9'
Lab ID: 1303223-19
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0166	0.0415		mg/Kg-dry	1	04/02/13 01:51 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	6460	119	119		mg/Kg-dry	50	03/30/13 02:02 AM
Arsenic	2.32	0.477	0.954		mg/Kg-dry	5	03/28/13 05:07 AM
Barium	210	0.477	1.91		mg/Kg-dry	5	03/28/13 05:07 AM
Boron	3.14	2.38	7.15	J	mg/Kg-dry	5	03/28/13 05:07 AM
Cadmium	0.134	0.0954	0.286	J	mg/Kg-dry	5	03/28/13 05:07 AM
Chromium	4.37	0.477	1.91		mg/Kg-dry	5	04/01/13 03:42 PM
Cobalt	1.63	0.477	1.91	J	mg/Kg-dry	5	03/28/13 05:07 AM
Copper	1.57	0.477	1.91	J	mg/Kg-dry	5	04/01/13 03:42 PM
Iron	5080	119	119		mg/Kg-dry	50	03/30/13 02:02 AM
Lead	2.36	0.0954	0.286		mg/Kg-dry	5	03/28/13 05:07 AM
Manganese	41.8	0.477	1.91		mg/Kg-dry	5	03/28/13 05:07 AM
Molybdenum	ND	0.477	1.91		mg/Kg-dry	5	03/28/13 05:07 AM
Nickel	4.48	0.477	1.91		mg/Kg-dry	5	03/28/13 05:07 AM
Selenium	0.594	0.143	0.477		mg/Kg-dry	5	03/28/13 05:07 AM
Silver	ND	0.0954	0.191		mg/Kg-dry	5	03/28/13 05:07 AM
Zinc	6.80	0.954	2.38		mg/Kg-dry	5	03/28/13 05:07 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0112	0.0297	N	mg/Kg-dry	1	03/29/13 03:01 AM
2-Methylnaphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Naphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Benzo[a]pyrene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,3,4,6-Tetrachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4,5-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4,6-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4-Dimethylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4-Dinitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 03:01 AM
2,6-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2-Chlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2-Methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2-Nitrophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
4,6-Dinitro-2-methylphenol	ND	0.0335	0.0738		mg/Kg-dry	1	03/29/13 03:01 AM
4-Chloro-3-methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
4-Methylphenol	ND	0.0224	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
4-Nitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 03:01 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 7-9'
Lab ID: 1303223-19
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: AJR			
Pentachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Phenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Total Phenol (Calculated)	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Surr: 2,4,6-Tribromophenol	77.0	0	45-126		%REC	1	03/29/13 03:01 AM
Surr: 2-Fluorobiphenyl	74.0	0	60-125		%REC	1	03/29/13 03:01 AM
Surr: 2-Fluorophenol	79.0	0	37-125		%REC	1	03/29/13 03:01 AM
Surr: 4-Terphenyl-d14	67.0	0	45-125		%REC	1	03/29/13 03:01 AM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	03/29/13 03:01 AM
Surr: Phenol-d6	77.0	0	40-125		%REC	1	03/29/13 03:01 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1221	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1232	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1242	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1248	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1254	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1260	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Surr: 2-Fluorobiphenyl	63.8	0	43-125		%REC	1	03/29/13 03:13 AM
Surr: 4-Terphenyl-d14	73.6	0	32-125		%REC	1	03/29/13 03:13 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Toluene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Carbon tetrachloride	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,2-Dichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1-Dichloroethylene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Tetrachloroethylene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Trichloroethylene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Ethylbenzene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Total Xylenes	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Methylene chloride	ND	0.00532	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Chloroform	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1-Dichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Ethylene bromide	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1,1-Trichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1,2-Trichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1,2,2-Tetrachloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Vinyl chloride	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 7-9'
Lab ID: 1303223-19
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	03/28/13 07:50 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	03/28/13 07:50 PM
Surr: Dibromofluoromethane	98.1	0	65-135		%REC	1	03/28/13 07:50 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 07:50 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	5.68	11.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.213	0.533		mg/Kg-dry	1	03/28/13 04:50 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	470	56.5	56.5		mg/Kg-dry	10	03/28/13 05:38 PM
Fluoride	1.62	1.13	1.13		mg/Kg-dry	1	03/28/13 02:12 PM
Nitrate-N	ND	5.65	5.65		mg/Kg-dry	1	03/28/13 02:12 PM
Sulfate	38.6	11.3	11.3		mg/Kg-dry	1	03/28/13 02:12 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	7.94	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	11.9	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 10-12'
Lab ID: 1303223-20
Collection Date: 03/23/13 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B					Analyst: LM
Mercury	ND	0.0101	0.0252		mg/Kg-dry	1	04/02/13 01:53 PM
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Aluminum	5030	82.8	82.8		mg/Kg-dry	50	03/30/13 02:08 AM
Arsenic	1.79	0.331	0.662		mg/Kg-dry	5	03/28/13 05:13 AM
Barium	356	0.331	1.32		mg/Kg-dry	5	03/28/13 05:13 AM
Boron	2.60	1.66	4.97	J	mg/Kg-dry	5	03/28/13 05:13 AM
Cadmium	0.0765	0.0662	0.199	J	mg/Kg-dry	5	03/28/13 05:13 AM
Chromium	3.79	0.331	1.32		mg/Kg-dry	5	04/01/13 03:48 PM
Cobalt	1.16	0.331	1.32	J	mg/Kg-dry	5	03/28/13 05:13 AM
Copper	1.29	0.331	1.32	J	mg/Kg-dry	5	04/01/13 03:48 PM
Iron	4990	82.8	82.8		mg/Kg-dry	50	03/30/13 02:08 AM
Lead	2.29	0.0662	0.199		mg/Kg-dry	5	03/28/13 05:13 AM
Manganese	40.6	0.331	1.32		mg/Kg-dry	5	03/28/13 05:13 AM
Molybdenum	ND	0.331	1.32		mg/Kg-dry	5	03/28/13 05:13 AM
Nickel	3.04	0.331	1.32		mg/Kg-dry	5	03/28/13 05:13 AM
Selenium	0.699	0.0994	0.331		mg/Kg-dry	5	03/28/13 05:13 AM
Silver	ND	0.0662	0.132		mg/Kg-dry	5	03/28/13 05:13 AM
Zinc	7.02	0.662	1.66		mg/Kg-dry	5	03/28/13 05:13 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D					Analyst: AJR
1-Methylnaphthalene	ND	0.0129	0.0344	N	mg/Kg-dry	1	03/29/13 03:25 AM
2-Methylnaphthalene	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Naphthalene	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Benzo[a]pyrene	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,3,4,6-Tetrachlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4,5-Trichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4,6-Trichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4-Dichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4-Dimethylphenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4-Dinitrophenol	ND	0.0647	0.171		mg/Kg-dry	1	03/29/13 03:25 AM
2,6-Dichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2-Chlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2-Methylphenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2-Nitrophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
4,6-Dinitro-2-methylphenol	ND	0.0388	0.0854		mg/Kg-dry	1	03/29/13 03:25 AM
4-Chloro-3-methylphenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
4-Methylphenol	ND	0.0259	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
4-Nitrophenol	ND	0.0647	0.171		mg/Kg-dry	1	03/29/13 03:25 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 10-12'
Lab ID: 1303223-20
Collection Date: 03/23/13 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Pentachlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Phenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Total Phenol (Calculated)	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Surr: 2,4,6-Tribromophenol	78.0	0	45-126		%REC	1	03/29/13 03:25 AM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	1	03/29/13 03:25 AM
Surr: 2-Fluorophenol	76.0	0	37-125		%REC	1	03/29/13 03:25 AM
Surr: 4-Terphenyl-d14	73.0	0	45-125		%REC	1	03/29/13 03:25 AM
Surr: Nitrobenzene-d5	72.0	0	45-125		%REC	1	03/29/13 03:25 AM
Surr: Phenol-d6	74.0	0	40-125		%REC	1	03/29/13 03:25 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1221	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1232	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1242	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1248	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1254	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1260	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Surr: 2-Fluorobiphenyl	61.1	0	43-125		%REC	1	03/29/13 03:44 AM
Surr: 4-Terphenyl-d14	76.9	0	32-125		%REC	1	03/29/13 03:44 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Toluene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Carbon tetrachloride	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,2-Dichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1-Dichloroethylene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Tetrachloroethylene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Trichloroethylene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Ethylbenzene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Total Xylenes	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Methylene chloride	ND	0.00480	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Chloroform	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1-Dichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Ethylene bromide	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1,1-Trichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1,2-Trichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1,2,2-Tetrachloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Vinyl chloride	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 03-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 10-12'
Lab ID: 1303223-20
Collection Date: 03/23/13 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 08:24 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 08:24 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	1	03/28/13 08:24 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 08:24 PM
TRPH		E418.1		Analyst: JAW			
Petroleum Hydrocarbons, TR	ND	6.45	12.9	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.189	0.471		mg/Kg-dry	1	03/28/13 04:50 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	29.6	6.61	6.61		mg/Kg-dry	1	03/28/13 02:43 PM
Fluoride	3.65	1.32	1.32		mg/Kg-dry	1	03/28/13 02:43 PM
Nitrate-N	ND	6.61	6.61		mg/Kg-dry	1	03/28/13 02:43 PM
Sulfate	26.9	13.2	13.2		mg/Kg-dry	1	03/28/13 02:43 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: JCG			
pH	8.57	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216		Analyst: MK			
Percent Moisture	24.8	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		



June 06, 2013

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Artesia Landfarm

Order No.: 1303223

Dear Mark Larson:

DHL Analytical, Inc. received 20 sample(s) on 3/26/2013 for the analyses presented in the following report.

Revision Number 1 for Work Order 1303223: This revision consists of changing the metals analyte target list, deleting subsection C per the client's request. Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over the typed name.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-10



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A. Human Health Standards—Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1)	Arsenic (As).....	0.1 mg/l
(2)	Barium (Ba).....	1.0 mg/l
(3)	Cadmium (Cd).....	0.01 mg/l
(4)	Chromium (Cr).....	0.05 mg/l
(5)	Cyanide (CN).....	0.2 mg/l
(6)	Fluoride (F).....	1.6 mg/l
(7)	Lead (Pb).....	0.05 mg/l
(8)	Total Mercury (Hg).....	0.002 mg/l
(9)	Nitrate (NO ₃ as N).....	10.0 mg/l
(10)	Selenium (Se).....	0.05 mg/l
(11)	Silver (Ag).....	0.05 mg/l
(12)	Uranium (U).....	0.02 mg/l
(13)	Radium-226 & Radium-228	20.0 mg/l
(14)	Benzene.....	0.01 mg/l
(15)	Polychlorinated biphenyls (PCB's).....	0.001 mg/l
(16)	Toluene.....	0.75 mg/l
(17)	Carbon Tetrachloride.....	0.01 mg/l
(18)	1,2-dichloroethane (EDC).....	0.01 mg/l
(19)	1,1-dichloroethylene (1,1-DCE).....	0.005 mg/l
(20)	1,1,2,2-tetrachloroethylene (PCE).....	0.02 mg/l
(21)	1,1,2-trichloroethylene (TCE).....	0.1 mg/l
(22)	ethylbenzene.....	0.75 mg/l
(23)	total xylenes.....	0.62 mg/l
(24)	methylene chloride.....	0.1 mg/l
(25)	chloroform.....	0.1 mg/l
(26)	1,1-dichloroethane.....	0.025 mg/l
(27)	ethylene dibromide (EDB).....	0.0001 mg/l
(28)	1,1,1-trichloroethane.....	0.06 mg/l
(29)	1,1,2-trichloroethane.....	0.01 mg/l
(30)	1,1,2,2-tetrachloroethane.....	0.01 mg/l
(31)	vinyl chloride.....	0.001 mg/l
(32)	PAHs: total naphthalene plus monomethylnaphthalenes.....	0.03 mg/l
(33)	benzo-a-pyrene.....	0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1)	Chloride (Cl).....	250.0 mg/l
(2)	Copper (Cu).....	1.0 mg/l
(3)	Iron (Fe).....	1.0 mg/l
(4)	Manganese (Mn).....	0.2 mg/l
(6)	Phenols.....	0.005 mg/l
(7)	Sulfate (SO ₄).....	600.0 mg/l
(8)	Total Dissolved Solids (TDS).....	1000.0 mg/l
(9)	Zinc (Zn).....	10.0 mg/l
(10)	pH.....	between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1)	Aluminum (Al).....	5.0 mg/l
(2)	Boron (B).....	0.75 mg/l
(3)	Cobalt (Co).....	0.05 mg/l
(4)	Molybdenum (Mo).....	1.0 mg/l
(5)	Nickel (Ni).....	0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]



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Airbill No. 47376946

47376946

1. To: Print Name (Person) <u>Samuel Parker</u> Phone (Important)		2. From: Print Name (Person) <u>Greg Wolff</u> Phone (Important) <u>432-687-0901</u>	
Company Name <u>PHL Analytical</u>		Company Name <u>PARSON & ASSOCIATES</u>	
(No P.O. Box or P.O. Box Zip Code Deliveries) Street Address <u>2200 Double Creek Blvd</u>		Street Address <u>107 NORTH MARLENFIELD</u>	
Suite / Floor		Suite / Floor <u>200</u>	
City <u>Round Rock</u> State <u>Tx</u> Zip <u>78664</u>		City <u>MIDLAND</u> State <u>TX</u> Zip <u>79701</u>	
3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.		4. Package: Weight: <u>50 lbs</u>	
<input type="checkbox"/> By 10:30 am Delivery Check availability at www.lso.com <input type="checkbox"/> Saturday Delivery Check availability at www.lso.com (Extra charge, not available on Ground)		Your Company's Billing Reference Information <u>11-0109-07</u>	
<input type="checkbox"/> By 8:30 am Delivery Check availability at www.lso.com (Extra charge, no signature obtained)		Ship Date: (mm/dd/yy) <u>03 25 13</u>	
<input type="checkbox"/> By 3:00 pm Delivery Assumed 10:30 a.m. service unless otherwise noted.		5. Payment:	
<input type="checkbox"/> Ground (next day to most cities)		FOR COURIER USE ONLY Courier Number <u>3548</u> <input type="checkbox"/> Check here if LSO Supplies are used with Ground Service. Pick-up Location <u>DB7001K</u> Date: <u>3-25-13</u> Time: <u>1:35</u> City Code:	
<input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)			
Release Signature _____			
L _____ x W _____ x H _____			

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.



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Airbill No. 47376947

47376947

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1. To: <small>Print Name (Person)</small> Jennifer Parker <small>Phone (Important)</small> <small>Company Name</small> DTL Analytical <small>Street Address (No P.O. Box or P.O. Box Zip Code Deliveries)</small> 2300 Purple Creek Drive <small>Suite / Floor</small> <small>City</small> Round Rock <small>State</small> TX <small>Zip</small> 78664		2. From: <small>Print Name (Person)</small> J. L. Wolf <small>Phone (Important)</small> 432-687-0901 <small>Company Name</small> ARSON & ASSOCIATES <small>Street Address</small> 507 NORTH MARLENFELD <small>Suite / Floor</small> 200 <small>City</small> MIDLAND <small>State</small> TX <small>Zip</small> 79701	
3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. <input type="checkbox"/> By 10:30 am Delivery <small>Check availability at www.lso.com</small> <input type="checkbox"/> Saturday Delivery <small>Check availability at www.lso.com (Extra charge, not available on Ground)</small> <input checked="" type="checkbox"/> By 8:30 am Delivery <small>Check availability at www.lso.com (Extra charge, no signature obtained)</small> <input type="checkbox"/> Other _____ <input type="checkbox"/> By 3:00 pm Delivery <small>Assumed 10:30 a.m. service unless otherwise noted.</small> <input type="checkbox"/> Ground (next day to most cities) <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)		4. Package: <small>Weight:</small> 5.0 lb <small>Your Company's Billing Reference Information</small> 11-0109-07 <small>Ship Date: (mm/dd/yy)</small> 03-25-13	
<small>Release Signature</small> _____ <small>L</small> _____ <small>x</small> <small>W</small> _____ <small>x</small> <small>H</small> _____		FOR COURIER USE ONLY <small>Courier Number</small> 3548 <input type="checkbox"/> Check here if LSO Supplies are used with Ground Service. <small>Pick-up Location</small> DCA 1001 <small>Date</small> 3-25-13 <small>Time</small> 1835 <small>City Code</small> AUS	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 3/26/2013

Work Order Number 1303223

Received by JB

Checklist completed by: [Signature] 3/26/2013
Signature Date

Reviewed by: [Initials] 3/26/2013
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No [] 4.9 °C (3.4)
Water - VOA vials have zero headspace? Yes [] No [] No VOA vials submitted [checked]
Water - pH acceptable upon receipt? Yes [] No [] Not Applicable [checked]

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1303223

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

- Method SW8260C - Volatile Organics
- Method SW8270D - Semivolatile Organics
- Method SW6020A - Metals Analysis
- Method SW7471B - Mercury Analysis
- Method SW8270D - PCB Analysis
- Method E300 - Anions Analysis
- Method E418.1 - TRPH Analysis
- Method SW9014 - Cyanide Analysis
- Method SW9045D - pH of a Soil (corrosivity)
- Method D2216 - Percent Moisture

LOG IN

The samples were received and log-in performed on 3/26/13. A total of 20 samples were received. The time of collection was Mountain Standard Time. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For Metals analysis performed on 3/27/13 the matrix spike and matrix spike duplicate recoveries were above control limits for Iron. This is flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

SEMIVOLATILE ORGANICS ANALYSIS

For Semivolatiles analysis, the recovery of one compound for the Initial Calibration Verification (ICV2-130328) was slightly below the method control limits specified in SW8270D (80-120% recovery). This is flagged accordingly in the QC summary report. The number of target compounds outside of the method control limits for the ICV are less than 20% of the total number of compounds being reproted; this is allowed in SW8270D specifications. This compound was within control limits in the associated LCS. No further corrective actions were taken.

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1303223

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1303223-01	SB-6 0-2'		03/22/13 08:35 AM	3/26/2013
1303223-02	SB-6 2-3'		03/22/13 08:35 AM	3/26/2013
1303223-03	SB-6 5-7'		03/22/13 08:50 AM	3/26/2013
1303223-04	SB-6 10-12'		03/22/13 09:00 AM	3/26/2013
1303223-05	SB-4 0-2'		03/22/13 11:50 AM	3/26/2013
1303223-06	SB-4 2-3'		03/22/13 11:50 AM	3/26/2013
1303223-07	SB-4 5-7'		03/22/13 12:05 PM	3/26/2013
1303223-08	SB-4 7-9'		03/22/13 12:05 PM	3/26/2013
1303223-09	SB-4 10-12'		03/22/13 12:10 PM	3/26/2013
1303223-10	SB-10 0-2'		03/22/13 03:15 PM	3/26/2013
1303223-11	SB-10 2-3'		03/22/13 03:15 PM	3/26/2013
1303223-12	SB-10 5-7'		03/22/13 03:25 PM	3/26/2013
1303223-13	SB-10 7-9'		03/22/13 03:25 PM	3/26/2013
1303223-14	SB-10 10-12'		03/22/13 03:40 PM	3/26/2013
1303223-15	SB-10 9-10'		03/22/13 03:23 PM	3/26/2013
1303223-16	SB-9 0-2'		03/23/13 08:50 AM	3/26/2013
1303223-17	SB-9 2-2.7'		03/23/13 08:50 AM	3/26/2013
1303223-18	SB-9 5-7'		03/23/13 09:00 AM	3/26/2013
1303223-19	SB-9 7-9'		03/23/13 09:00 AM	3/26/2013
1303223-20	SB-9 10-12'		03/23/13 09:10 AM	3/26/2013

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-02A	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-02B	SB-6 2-3'	03/22/13 08:35 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-6 2-3'	03/22/13 08:35 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-02C	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-6 2-3'	03/22/13 08:35 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-6 2-3'	03/22/13 08:35 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-03A	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-03B	SB-6 5-7'	03/22/13 08:50 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-6 5-7'	03/22/13 08:50 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-03C	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-6 5-7'	03/22/13 08:50 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-6 5-7'	03/22/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-04A	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-04B	SB-6 10-12'	03/22/13 09:00 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-6 10-12'	03/22/13 09:00 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-04C	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-6 10-12'	03/22/13 09:00 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-6 10-12'	03/22/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-06A	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-06B	SB-4 2-3'	03/22/13 11:50 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-4 2-3'	03/22/13 11:50 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-06C	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-4 2-3'	03/22/13 11:50 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 2-3'	03/22/13 11:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-07A	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-07B	SB-4 5-7'	03/22/13 12:05 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-4 5-7'	03/22/13 12:05 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-07B	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-07C	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-4 5-7'	03/22/13 12:05 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 5-7'	03/22/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-08A	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-08B	SB-4 7-9'	03/22/13 12:05 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-4 7-9'	03/22/13 12:05 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-08C	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-4 7-9'	03/22/13 12:05 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 7-9'	03/22/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-09A	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-09B	SB-4 10-12'	03/22/13 12:10 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-09C	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-4 10-12'	03/22/13 12:10 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-4 10-12'	03/22/13 12:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-11A	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-11B	SB-10 2-3'	03/22/13 03:15 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-11C	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-10 2-3'	03/22/13 03:15 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 2-3'	03/22/13 03:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-12A	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-12B	SB-10 5-7'	03/22/13 03:25 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-12C	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-10 5-7'	03/22/13 03:25 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656

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Client: Larson & Associates
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PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-12C	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 5-7'	03/22/13 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-13A	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-13B	SB-10 7-9'	03/22/13 03:25 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-13C	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-10 7-9'	03/22/13 03:25 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 7-9'	03/22/13 03:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-14A	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-14B	SB-10 10-12'	03/22/13 03:40 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-14C	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-10 10-12'	03/22/13 03:40 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 10-12'	03/22/13 03:40 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-15A	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-15B	SB-10 9-10'	03/22/13 03:23 PM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-15C	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-10 9-10'	03/22/13 03:23 PM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-10 9-10'	03/22/13 03:23 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-17A	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-17B	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-17C	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 2-2.7'	03/23/13 08:50 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-18A	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-18B	SB-9 5-7'	03/23/13 09:00 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 5-7'	03/23/13 09:00 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-18B	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-18C	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-9 5-7'	03/23/13 09:00 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 5-7'	03/23/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-19A	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-19B	SB-9 7-9'	03/23/13 09:00 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 7-9'	03/23/13 09:00 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-19C	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622
	SB-9 7-9'	03/23/13 09:00 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 7-9'	03/23/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
1303223-20A	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56668
1303223-20B	SB-9 10-12'	03/23/13 09:10 AM	Soil	E300	Anion Prep	03/27/13 10:40 AM	56642
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW9010C	Cyanide Soil Prep	03/27/13 10:30 AM	56632
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW9045C	pH Preparation	03/27/13 10:15 AM	56629
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303223-20C	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	03/27/13 09:00 AM	56622

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PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303223-20C	SB-9 10-12'	03/23/13 09:10 AM	Soil	D2216	Moisture Preparation	03/27/13 10:50 AM	56645
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW3550C	Soil Prep Sonication: BNA	03/28/13 07:49 AM	56654
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	03/28/13 07:53 AM	56656
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621
	SB-9 10-12'	03/23/13 09:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	03/27/13 09:00 AM	56621

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-02A	SB-6 2-3'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 12:13 PM	GCMS1_130328A
1303223-02B	SB-6 2-3'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 09:54 AM	IC2_130328A
	SB-6 2-3'	Soil	E300	Anions by IC method - Soil	56642	100	03/28/13 02:57 PM	IC2_130328A
	SB-6 2-3'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:42 PM	UV/VIS_2_130328B
	SB-6 2-3'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-6 2-3'	Soil	E418.1	TRPH	56729	20	04/02/13 04:30 PM	IR207_130402A
1303223-02C	SB-6 2-3'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 04:46 AM	GCMS8_130328A
	SB-6 2-3'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-6 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	5	03/29/13 04:11 AM	GCMS9_130328A
	SB-6 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 04:34 AM	GCMS9_130328A
	SB-6 2-3'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:16 PM	CETAC_HG_130402A
	SB-6 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:25 AM	ICP-MS3_130327A
	SB-6 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:09 PM	ICP-MS3_130329A
	SB-6 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 03:47 AM	ICP-MS3_130329A
1303223-03A	SB-6 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 12:45 PM	GCMS1_130328A
1303223-03B	SB-6 5-7'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 10:12 AM	IC2_130328A
	SB-6 5-7'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 03:12 PM	IC2_130328A
	SB-6 5-7'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:43 PM	UV/VIS_2_130328B
	SB-6 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-6 5-7'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-03C	SB-6 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/28/13 09:01 PM	GCMS8_130328A
	SB-6 5-7'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-6 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/28/13 10:24 PM	GCMS9_130328A
	SB-6 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:18 PM	CETAC_HG_130402A
	SB-6 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:32 AM	ICP-MS3_130327A
	SB-6 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 03:53 AM	ICP-MS3_130329A
	SB-6 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:15 PM	ICP-MS3_130329A
1303223-04A	SB-6 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 01:17 PM	GCMS1_130328A

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-04B	SB-6 10-12'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 10:27 AM	IC2_130328A
	SB-6 10-12'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 03:26 PM	IC2_130328A
	SB-6 10-12'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:45 PM	UV/VIS_2_130328B
	SB-6 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-6 10-12'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-04C	SB-6 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/28/13 09:31 PM	GCMS8_130328A
	SB-6 10-12'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-6 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/28/13 10:47 PM	GCMS9_130328A
	SB-6 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:24 PM	CETAC_HG_130402A
	SB-6 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:38 AM	ICP-MS3_130327A
	SB-6 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:22 PM	ICP-MS3_130329A
	SB-6 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 03:59 AM	ICP-MS3_130329A
1303223-06A	SB-4 2-3'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 01:48 PM	GCMS1_130328A
1303223-06B	SB-4 2-3'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 10:41 AM	IC2_130328A
	SB-4 2-3'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 04:10 PM	IC2_130328A
	SB-4 2-3'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 05:25 PM	UV/VIS_2_130328B
	SB-4 2-3'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-4 2-3'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-06C	SB-4 2-3'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/28/13 10:03 PM	GCMS8_130328A
	SB-4 2-3'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-4 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/28/13 11:10 PM	GCMS9_130328A
	SB-4 2-3'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:27 PM	CETAC_HG_130402A
	SB-4 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 04:05 AM	ICP-MS3_130329A
	SB-4 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:44 AM	ICP-MS3_130327A
	SB-4 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:28 PM	ICP-MS3_130329A
1303223-07A	SB-4 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 02:21 PM	GCMS1_130328A
1303223-07B	SB-4 5-7'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 10:56 AM	IC2_130328A
	SB-4 5-7'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 04:25 PM	IC2_130328A

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-07B	SB-4 5-7'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:45 PM	UV/VIS_2_130328B
	SB-4 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-4 5-7'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-07C	SB-4 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/28/13 10:34 PM	GCMS8_130328A
	SB-4 5-7'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-4 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/28/13 11:33 PM	GCMS9_130328A
	SB-4 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:29 PM	CETAC_HG_130402A
	SB-4 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:50 AM	ICP-MS3_130327A
	SB-4 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:34 PM	ICP-MS3_130329A
	SB-4 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 04:11 AM	ICP-MS3_130329A
1303223-08A	SB-4 7-9'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 02:54 PM	GCMS1_130328A
1303223-08B	SB-4 7-9'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 12:01 PM	IC2_130328A
	SB-4 7-9'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 04:39 PM	IC2_130328A
	SB-4 7-9'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:46 PM	UV/VIS_2_130328B
	SB-4 7-9'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-4 7-9'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-08C	SB-4 7-9'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/28/13 11:05 PM	GCMS8_130328A
	SB-4 7-9'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-4 7-9'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/28/13 11:57 PM	GCMS9_130328A
	SB-4 7-9'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:31 PM	CETAC_HG_130402A
	SB-4 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 04:17 AM	ICP-MS3_130329A
	SB-4 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:40 PM	ICP-MS3_130329A
	SB-4 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:57 AM	ICP-MS3_130327A
1303223-09A	SB-4 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 03:26 PM	GCMS1_130328A
1303223-09B	SB-4 10-12'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 12:16 PM	IC2_130328A
	SB-4 10-12'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:46 PM	UV/VIS_2_130328B
	SB-4 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-4 10-12'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-09C	SB-4 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/28/13 11:36 PM	GCMS8_130328A
	SB-4 10-12'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-4 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 12:20 AM	GCMS9_130328A
	SB-4 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:33 PM	CETAC_HG_130402A
	SB-4 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 03:03 AM	ICP-MS3_130327A
	SB-4 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:46 PM	ICP-MS3_130329A
	SB-4 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 04:24 AM	ICP-MS3_130329A
1303223-11A	SB-10 2-3'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 03:58 PM	GCMS1_130328A
1303223-11B	SB-10 2-3'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 12:30 PM	IC2_130328A
	SB-10 2-3'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:46 PM	UV/VIS_2_130328B
	SB-10 2-3'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-10 2-3'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-11C	SB-10 2-3'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 12:07 AM	GCMS8_130328A
	SB-10 2-3'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-10 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 12:43 AM	GCMS9_130328A
	SB-10 2-3'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:35 PM	CETAC_HG_130402A
	SB-10 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:52 PM	ICP-MS3_130329A
	SB-10 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 04:30 AM	ICP-MS3_130329A
	SB-10 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 03:09 AM	ICP-MS3_130327A
1303223-12A	SB-10 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 04:33 PM	GCMS1_130328A
1303223-12B	SB-10 5-7'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 12:45 PM	IC2_130328A
	SB-10 5-7'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:48 PM	UV/VIS_2_130328B
	SB-10 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-10 5-7'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-12C	SB-10 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 12:38 AM	GCMS8_130328A
	SB-10 5-7'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-10 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 01:06 AM	GCMS9_130328A
	SB-10 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:37 PM	CETAC_HG_130402A

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-12C	SB-10 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 03:15 AM	ICP-MS3_130327A
	SB-10 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 11:59 PM	ICP-MS3_130329A
	SB-10 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 04:36 AM	ICP-MS3_130329A
1303223-13A	SB-10 7-9'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 05:06 PM	GCMS1_130328A
1303223-13B	SB-10 7-9'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 12:59 PM	IC2_130328A
	SB-10 7-9'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:48 PM	UV/VIS_2_130328B
	SB-10 7-9'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-10 7-9'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-13C	SB-10 7-9'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 01:09 AM	GCMS8_130328A
	SB-10 7-9'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-10 7-9'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 01:29 AM	GCMS9_130328A
	SB-10 7-9'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:39 PM	CETAC_HG_130402A
	SB-10 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	04/01/13 03:18 PM	ICP-MS3_130401B
	SB-10 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/30/13 01:37 AM	ICP-MS3_130329A
	SB-10 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 04:42 AM	ICP-MS3_130327A
1303223-14A	SB-10 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 05:40 PM	GCMS1_130328A
1303223-14B	SB-10 10-12'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 01:14 PM	IC2_130328A
	SB-10 10-12'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:48 PM	UV/VIS_2_130328B
	SB-10 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-10 10-12'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-14C	SB-10 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 01:40 AM	GCMS8_130328A
	SB-10 10-12'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-10 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 01:52 AM	GCMS9_130328A
	SB-10 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:41 PM	CETAC_HG_130402A
	SB-10 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/30/13 01:43 AM	ICP-MS3_130329A
	SB-10 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	04/01/13 03:24 PM	ICP-MS3_130401B
	SB-10 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 04:48 AM	ICP-MS3_130327A
1303223-15A	SB-10 9-10'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 06:11 PM	GCMS1_130328A

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-15B	SB-10 9-10'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 01:29 PM	IC2_130328A
	SB-10 9-10'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:48 PM	UV/VIS_2_130328B
	SB-10 9-10'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-10 9-10'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-15C	SB-10 9-10'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 02:11 AM	GCMS8_130328A
	SB-10 9-10'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-10 9-10'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 02:15 AM	GCMS9_130328A
	SB-10 9-10'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:43 PM	CETAC_HG_130402A
	SB-10 9-10'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	04/01/13 03:30 PM	ICP-MS3_130401B
	SB-10 9-10'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 04:54 AM	ICP-MS3_130327A
	SB-10 9-10'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/30/13 01:50 AM	ICP-MS3_130329A
1303223-17A	SB-9 2-2.7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 06:43 PM	GCMS1_130328A
1303223-17B	SB-9 2-2.7'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 01:43 PM	IC2_130328A
	SB-9 2-2.7'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 04:54 PM	IC2_130328A
	SB-9 2-2.7'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:48 PM	UV/VIS_2_130328B
	SB-9 2-2.7'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-9 2-2.7'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-17C	SB-9 2-2.7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 04:15 AM	GCMS8_130328A
	SB-9 2-2.7'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-9 2-2.7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 03:48 AM	GCMS9_130328A
	SB-9 2-2.7'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:49 PM	CETAC_HG_130402A
	SB-9 2-2.7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/30/13 01:56 AM	ICP-MS3_130329A
	SB-9 2-2.7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	04/01/13 03:36 PM	ICP-MS3_130401B
	SB-9 2-2.7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 05:01 AM	ICP-MS3_130327A
1303223-18A	SB-9 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 07:17 PM	GCMS1_130328A
1303223-18B	SB-9 5-7'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 01:58 PM	IC2_130328A
	SB-9 5-7'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 05:23 PM	IC2_130328A
	SB-9 5-7'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:48 PM	UV/VIS_2_130328B

Lab Order: 1303223
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-18B	SB-9 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-9 5-7'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-18C	SB-9 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 02:42 AM	GCMS8_130328A
	SB-9 5-7'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-9 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 02:38 AM	GCMS9_130328A
	SB-9 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:05 PM	CETAC_HG_130402A
	SB-9 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/29/13 10:57 PM	ICP-MS3_130329A
	SB-9 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/30/13 03:41 AM	ICP-MS3_130329A
	SB-9 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 02:13 AM	ICP-MS3_130327A
1303223-19A	SB-9 7-9'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 07:50 PM	GCMS1_130328A
1303223-19B	SB-9 7-9'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 02:12 PM	IC2_130328A
	SB-9 7-9'	Soil	E300	Anions by IC method - Soil	56642	10	03/28/13 05:38 PM	IC2_130328A
	SB-9 7-9'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:50 PM	UV/VIS_2_130328B
	SB-9 7-9'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-9 7-9'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-19C	SB-9 7-9'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 03:13 AM	GCMS8_130328A
	SB-9 7-9'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-9 7-9'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 03:01 AM	GCMS9_130328A
	SB-9 7-9'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:51 PM	CETAC_HG_130402A
	SB-9 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/30/13 02:02 AM	ICP-MS3_130329A
	SB-9 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	04/01/13 03:42 PM	ICP-MS3_130401B
	SB-9 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 05:07 AM	ICP-MS3_130327A
1303223-20A	SB-9 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56668	1	03/28/13 08:24 PM	GCMS1_130328A
1303223-20B	SB-9 10-12'	Soil	E300	Anions by IC method - Soil	56642	1	03/28/13 02:43 PM	IC2_130328A
	SB-9 10-12'	Soil	SW9014	Cyanide - Solid Sample	56632	1	03/28/13 04:50 PM	UV/VIS_2_130328B
	SB-9 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56629	1	03/27/13 10:15 AM	PH_130327A
	SB-9 10-12'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303223-20C	SB-9 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56656	1	03/29/13 03:44 AM	GCMS8_130328A

Lab Order: 1303223
Client: Larson & Associates
Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303223-20C	SB-9 10-12'	Soil	D2216	Percent Moisture	56645	1	03/28/13 11:10 AM	PMOIST_130327C
	SB-9 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56654	1	03/29/13 03:25 AM	GCMS9_130328A
	SB-9 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56622	1	04/02/13 01:53 PM	CETAC_HG_130402A
	SB-9 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	04/01/13 03:48 PM	ICP-MS3_130401B
	SB-9 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	5	03/28/13 05:13 AM	ICP-MS3_130327A
	SB-9 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56621	50	03/30/13 02:08 AM	ICP-MS3_130329A

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 2-3'
Lab ID: 1303223-02
Collection Date: 03/22/13 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0156	0.0390		mg/Kg-dry	1	04/02/13 01:16 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.03	0.528	1.06		mg/Kg-dry	5	03/28/13 02:25 AM
Barium	184	0.528	2.11		mg/Kg-dry	5	03/28/13 02:25 AM
Cadmium	0.113	0.106	0.317	J	mg/Kg-dry	5	03/28/13 02:25 AM
Chromium	5.97	0.528	2.11		mg/Kg-dry	5	03/30/13 03:47 AM
Copper	3.19	0.528	2.11		mg/Kg-dry	5	03/30/13 03:47 AM
Iron	6220	132	132		mg/Kg-dry	50	03/29/13 11:09 PM
Lead	3.78	0.106	0.317		mg/Kg-dry	5	03/28/13 02:25 AM
Manganese	62.2	0.528	2.11		mg/Kg-dry	5	03/28/13 02:25 AM
Selenium	0.791	0.158	0.528		mg/Kg-dry	5	03/28/13 02:25 AM
Silver	ND	0.106	0.211		mg/Kg-dry	5	03/28/13 02:25 AM
Zinc	14.1	1.06	2.64		mg/Kg-dry	5	03/28/13 02:25 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	3.65	0.0537	0.143	N	mg/Kg-dry	5	03/29/13 04:11 AM
2-Methylnaphthalene	3.01	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Naphthalene	0.688	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Benzo[a]pyrene	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,3,4,6-Tetrachlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4,5-Trichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4,6-Trichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4-Dichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4-Dimethylphenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2,4-Dinitrophenol	ND	0.269	0.709		mg/Kg-dry	5	03/29/13 04:11 AM
2,6-Dichlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2-Chlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2-Methylphenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
2-Nitrophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
4,6-Dinitro-2-methylphenol	ND	0.161	0.355		mg/Kg-dry	5	03/29/13 04:11 AM
4-Chloro-3-methylphenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
4-Methylphenol	ND	0.107	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
4-Nitrophenol	ND	0.269	0.709		mg/Kg-dry	5	03/29/13 04:11 AM
Pentachlorophenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Phenol	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Total Phenol (Calculated)	ND	0.0537	0.143		mg/Kg-dry	5	03/29/13 04:11 AM
Surr: 2,4,6-Tribromophenol	120	0	45-126		%REC	5	03/29/13 04:11 AM
Surr: 2-Fluorobiphenyl	100	0	60-125		%REC	5	03/29/13 04:11 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 2-3'
Lab ID: 1303223-02
Collection Date: 03/22/13 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	90.0	0	37-125		%REC	5	03/29/13 04:11 AM
Surr: 4-Terphenyl-d14	105	0	45-125		%REC	5	03/29/13 04:11 AM
Surr: Nitrobenzene-d5	120	0	45-125		%REC	5	03/29/13 04:11 AM
Surr: Phenol-d6	85.0	0	40-125		%REC	5	03/29/13 04:11 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1221	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1232	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1242	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1248	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1254	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Aroclor 1260	ND	0.0179	0.0358		mg/Kg-dry	1	03/29/13 04:46 AM
Surr: 2-Fluorobiphenyl	78.5	0	43-125		%REC	1	03/29/13 04:46 AM
Surr: 4-Terphenyl-d14	79.4	0	32-125		%REC	1	03/29/13 04:46 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Toluene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Carbon tetrachloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,2-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1-Dichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Tetrachloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Trichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Ethylbenzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Total Xylenes	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Methylene chloride	ND	0.00514	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Chloroform	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Ethylene bromide	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1,1-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1,2-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
1,1,2,2-Tetrachloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Vinyl chloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 12:13 PM
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 12:13 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	03/28/13 12:13 PM
Surr: Dibromofluoromethane	96.4	0	65-135		%REC	1	03/28/13 12:13 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 12:13 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 2-3'
Lab ID: 1303223-02
Collection Date: 03/22/13 08:35 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	7740	111	222	N	mg/Kg-dry	20	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.186	0.466		mg/Kg-dry	1	03/28/13 04:42 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	2310	542	542		mg/Kg-dry	100	03/28/13 02:57 PM
Fluoride	1.60	1.08	1.08		mg/Kg-dry	1	03/28/13 09:54 AM
Nitrate-N	ND	5.42	5.42		mg/Kg-dry	1	03/28/13 09:54 AM
Sulfate	4520	1080	1080		mg/Kg-dry	100	03/28/13 02:57 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.64	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	9.86	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 5-7'
Lab ID: 1303223-03
Collection Date: 03/22/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0166	0.0414		mg/Kg-dry	1	04/02/13 01:18 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.30	0.467	0.934		mg/Kg-dry	5	03/28/13 02:32 AM
Barium	23.4	0.467	1.87		mg/Kg-dry	5	03/28/13 02:32 AM
Cadmium	ND	0.0934	0.280		mg/Kg-dry	5	03/28/13 02:32 AM
Chromium	4.63	0.467	1.87		mg/Kg-dry	5	03/30/13 03:53 AM
Copper	1.58	0.467	1.87	J	mg/Kg-dry	5	03/30/13 03:53 AM
Iron	4840	117	117		mg/Kg-dry	50	03/29/13 11:15 PM
Lead	2.36	0.0934	0.280		mg/Kg-dry	5	03/28/13 02:32 AM
Manganese	44.3	0.467	1.87		mg/Kg-dry	5	03/28/13 02:32 AM
Selenium	0.588	0.140	0.467		mg/Kg-dry	5	03/28/13 02:32 AM
Silver	ND	0.0934	0.187		mg/Kg-dry	5	03/28/13 02:32 AM
Zinc	7.88	0.934	2.33		mg/Kg-dry	5	03/28/13 02:32 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.00981	0.0261	N	mg/Kg-dry	1	03/28/13 10:24 PM
2-Methylnaphthalene	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Naphthalene	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Benzo[a]pyrene	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,3,4,6-Tetrachlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4,5-Trichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4,6-Trichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4-Dichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4-Dimethylphenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2,4-Dinitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/28/13 10:24 PM
2,6-Dichlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2-Chlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2-Methylphenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
2-Nitrophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
4,6-Dinitro-2-methylphenol	ND	0.0294	0.0648		mg/Kg-dry	1	03/28/13 10:24 PM
4-Chloro-3-methylphenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
4-Methylphenol	ND	0.0196	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
4-Nitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/28/13 10:24 PM
Pentachlorophenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Phenol	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Total Phenol (Calculated)	ND	0.00981	0.0261		mg/Kg-dry	1	03/28/13 10:24 PM
Surr: 2,4,6-Tribromophenol	74.0	0	45-126		%REC	1	03/28/13 10:24 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	03/28/13 10:24 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 5-7'
Lab ID: 1303223-03
Collection Date: 03/22/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	94.0	0	37-125		%REC	1	03/28/13 10:24 PM
Surr: 4-Terphenyl-d14	49.0	0	45-125		%REC	1	03/28/13 10:24 PM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	03/28/13 10:24 PM
Surr: Phenol-d6	95.0	0	40-125		%REC	1	03/28/13 10:24 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1221	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1232	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1242	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1248	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1254	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Aroclor 1260	ND	0.0164	0.0327		mg/Kg-dry	1	03/28/13 09:01 PM
Surr: 2-Fluorobiphenyl	67.9	0	43-125		%REC	1	03/28/13 09:01 PM
Surr: 4-Terphenyl-d14	76.8	0	32-125		%REC	1	03/28/13 09:01 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Toluene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Carbon tetrachloride	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,2-Dichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1-Dichloroethylene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Tetrachloroethylene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Trichloroethylene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Ethylbenzene	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Total Xylenes	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Methylene chloride	ND	0.00425	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Chloroform	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1-Dichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Ethylene bromide	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1,1-Trichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1,2-Trichloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
1,1,2,2-Tetrachloroethane	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Vinyl chloride	ND	0.000851	0.00425		mg/Kg-dry	1	03/28/13 12:45 PM
Surr: 1,2-Dichloroethane-d4	99.6	0	52-149		%REC	1	03/28/13 12:45 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 12:45 PM
Surr: Dibromofluoromethane	98.1	0	65-135		%REC	1	03/28/13 12:45 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 12:45 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 5-7'
Lab ID: 1303223-03
Collection Date: 03/22/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	8.41	5.18	10.4	JN	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.171	0.426		mg/Kg-dry	1	03/28/13 04:43 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	1230	51.3	51.3		mg/Kg-dry	10	03/28/13 03:12 PM
Fluoride	1.11	1.03	1.03		mg/Kg-dry	1	03/28/13 10:12 AM
Nitrate-N	7.23	5.13	5.13		mg/Kg-dry	1	03/28/13 10:12 AM
Sulfate	188	10.3	10.3		mg/Kg-dry	1	03/28/13 10:12 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	8.22	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	3.50	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 10-12'
Lab ID: 1303223-04
Collection Date: 03/22/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0152	0.0381		mg/Kg-dry	1	04/02/13 01:24 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	3.43	0.448	0.895		mg/Kg-dry	5	03/28/13 02:38 AM
Barium	55.0	0.448	1.79		mg/Kg-dry	5	03/28/13 02:38 AM
Cadmium	ND	0.0895	0.269		mg/Kg-dry	5	03/28/13 02:38 AM
Chromium	7.68	0.448	1.79		mg/Kg-dry	5	03/30/13 03:59 AM
Copper	2.19	0.448	1.79		mg/Kg-dry	5	03/30/13 03:59 AM
Iron	9690	112	112		mg/Kg-dry	50	03/29/13 11:22 PM
Lead	3.75	0.0895	0.269		mg/Kg-dry	5	03/28/13 02:38 AM
Manganese	124	0.448	1.79		mg/Kg-dry	5	03/28/13 02:38 AM
Selenium	0.945	0.134	0.448		mg/Kg-dry	5	03/28/13 02:38 AM
Silver	ND	0.0895	0.179		mg/Kg-dry	5	03/28/13 02:38 AM
Zinc	13.0	0.895	2.24		mg/Kg-dry	5	03/28/13 02:38 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0100	0.0266	N	mg/Kg-dry	1	03/28/13 10:47 PM
2-Methylnaphthalene	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Naphthalene	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Benzo[a]pyrene	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,3,4,6-Tetrachlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4,5-Trichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4,6-Trichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4-Dichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4-Dimethylphenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2,4-Dinitrophenol	ND	0.0500	0.132		mg/Kg-dry	1	03/28/13 10:47 PM
2,6-Dichlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2-Chlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2-Methylphenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
2-Nitrophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
4,6-Dinitro-2-methylphenol	ND	0.0300	0.0661		mg/Kg-dry	1	03/28/13 10:47 PM
4-Chloro-3-methylphenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
4-Methylphenol	ND	0.0200	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
4-Nitrophenol	ND	0.0500	0.132		mg/Kg-dry	1	03/28/13 10:47 PM
Pentachlorophenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Phenol	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Total Phenol (Calculated)	ND	0.0100	0.0266		mg/Kg-dry	1	03/28/13 10:47 PM
Surr: 2,4,6-Tribromophenol	78.0	0	45-126		%REC	1	03/28/13 10:47 PM
Surr: 2-Fluorobiphenyl	79.0	0	60-125		%REC	1	03/28/13 10:47 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 10-12'
Lab ID: 1303223-04
Collection Date: 03/22/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	88.0	0	37-125		%REC	1	03/28/13 10:47 PM
Surr: 4-Terphenyl-d14	84.0	0	45-125		%REC	1	03/28/13 10:47 PM
Surr: Nitrobenzene-d5	81.0	0	45-125		%REC	1	03/28/13 10:47 PM
Surr: Phenol-d6	80.0	0	40-125		%REC	1	03/28/13 10:47 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1221	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1232	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1242	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1248	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1254	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Aroclor 1260	ND	0.0167	0.0334		mg/Kg-dry	1	03/28/13 09:31 PM
Surr: 2-Fluorobiphenyl	74.6	0	43-125		%REC	1	03/28/13 09:31 PM
Surr: 4-Terphenyl-d14	80.5	0	32-125		%REC	1	03/28/13 09:31 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Toluene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Carbon tetrachloride	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,2-Dichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1-Dichloroethylene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Tetrachloroethylene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Trichloroethylene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Ethylbenzene	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Total Xylenes	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Methylene chloride	ND	0.00480	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Chloroform	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1-Dichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Ethylene bromide	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1,1-Trichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1,2-Trichloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
1,1,2,2-Tetrachloroethane	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Vinyl chloride	ND	0.000961	0.00480		mg/Kg-dry	1	03/28/13 01:17 PM
Surr: 1,2-Dichloroethane-d4	105	0	52-149		%REC	1	03/28/13 01:17 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	03/28/13 01:17 PM
Surr: Dibromofluoromethane	99.8	0	65-135		%REC	1	03/28/13 01:17 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 01:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-6 10-12'
Lab ID: 1303223-04
Collection Date: 03/22/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.09	10.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.175	0.438		mg/Kg-dry	1	03/28/13 04:45 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	1220	50.6	50.6		mg/Kg-dry	10	03/28/13 03:26 PM
Fluoride	1.23	1.01	1.01		mg/Kg-dry	1	03/28/13 10:27 AM
Nitrate-N	ND	5.06	5.06		mg/Kg-dry	1	03/28/13 10:27 AM
Sulfate	174	10.1	10.1		mg/Kg-dry	1	03/28/13 10:27 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.85	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	1.99	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 2-3'
Lab ID: 1303223-06
Collection Date: 03/22/13 11:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	0.0174	0.0160	0.0400	J	mg/Kg-dry	1	04/02/13 01:27 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.24	0.500	1.00		mg/Kg-dry	5	03/28/13 02:44 AM
Barium	34.0	0.500	2.00		mg/Kg-dry	5	03/28/13 02:44 AM
Cadmium	0.123	0.100	0.300	J	mg/Kg-dry	5	03/28/13 02:44 AM
Chromium	4.03	0.500	2.00		mg/Kg-dry	5	03/30/13 04:05 AM
Copper	1.57	0.500	2.00	J	mg/Kg-dry	5	03/30/13 04:05 AM
Iron	4320	125	125		mg/Kg-dry	50	03/29/13 11:28 PM
Lead	2.14	0.100	0.300		mg/Kg-dry	5	03/28/13 02:44 AM
Manganese	39.0	0.500	2.00		mg/Kg-dry	5	03/28/13 02:44 AM
Selenium	0.586	0.150	0.500		mg/Kg-dry	5	03/28/13 02:44 AM
Silver	ND	0.100	0.200		mg/Kg-dry	5	03/28/13 02:44 AM
Zinc	7.44	1.00	2.50		mg/Kg-dry	5	03/28/13 02:44 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0106	0.0283	N	mg/Kg-dry	1	03/28/13 11:10 PM
2-Methylnaphthalene	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Naphthalene	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Benzo[a]pyrene	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4-Dichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4-Dimethylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2,4-Dinitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	03/28/13 11:10 PM
2,6-Dichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2-Chlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2-Methylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
2-Nitrophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
4,6-Dinitro-2-methylphenol	ND	0.0319	0.0701		mg/Kg-dry	1	03/28/13 11:10 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
4-Methylphenol	ND	0.0213	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
4-Nitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	03/28/13 11:10 PM
Pentachlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Phenol	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Total Phenol (Calculated)	ND	0.0106	0.0283		mg/Kg-dry	1	03/28/13 11:10 PM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/28/13 11:10 PM
Surr: 2-Fluorobiphenyl	76.0	0	60-125		%REC	1	03/28/13 11:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 2-3'
Lab ID: 1303223-06
Collection Date: 03/22/13 11:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	82.0	0	37-125		%REC	1	03/28/13 11:10 PM
Surr: 4-Terphenyl-d14	84.0	0	45-125		%REC	1	03/28/13 11:10 PM
Surr: Nitrobenzene-d5	78.0	0	45-125		%REC	1	03/28/13 11:10 PM
Surr: Phenol-d6	79.0	0	40-125		%REC	1	03/28/13 11:10 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1221	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1232	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1242	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1248	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1254	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Aroclor 1260	ND	0.0177	0.0354		mg/Kg-dry	1	03/28/13 10:03 PM
Surr: 2-Fluorobiphenyl	68.5	0	43-125		%REC	1	03/28/13 10:03 PM
Surr: 4-Terphenyl-d14	79.2	0	32-125		%REC	1	03/28/13 10:03 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Toluene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Carbon tetrachloride	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,2-Dichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1-Dichloroethylene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Tetrachloroethylene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Trichloroethylene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Ethylbenzene	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Total Xylenes	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Methylene chloride	ND	0.00501	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Chloroform	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1-Dichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Ethylene bromide	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1,1-Trichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1,2-Trichloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
1,1,2,2-Tetrachloroethane	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Vinyl chloride	ND	0.00100	0.00501		mg/Kg-dry	1	03/28/13 01:48 PM
Surr: 1,2-Dichloroethane-d4	102	0	52-149		%REC	1	03/28/13 01:48 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	03/28/13 01:48 PM
Surr: Dibromofluoromethane	101	0	65-135		%REC	1	03/28/13 01:48 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 01:48 PM

Qualifiers:

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C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 2-3'
Lab ID: 1303223-06
Collection Date: 03/22/13 11:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	6.74	5.39	10.8	JN	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.214	0.535		mg/Kg-dry	1	03/28/13 05:25 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	1010	53.1	53.1		mg/Kg-dry	10	03/28/13 04:10 PM
Fluoride	ND	1.06	1.06		mg/Kg-dry	1	03/28/13 10:41 AM
Nitrate-N	7.67	5.31	5.31		mg/Kg-dry	1	03/28/13 10:41 AM
Sulfate	82.7	10.6	10.6		mg/Kg-dry	1	03/28/13 10:41 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.92	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	7.43	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

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DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 5-7'
Lab ID: 1303223-07
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0142	0.0355		mg/Kg-dry	1	04/02/13 01:29 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.12	0.490	0.980		mg/Kg-dry	5	03/28/13 02:50 AM
Barium	21.1	0.490	1.96		mg/Kg-dry	5	03/28/13 02:50 AM
Cadmium	ND	0.0980	0.294		mg/Kg-dry	5	03/28/13 02:50 AM
Chromium	4.70	0.490	1.96		mg/Kg-dry	5	03/30/13 04:11 AM
Copper	1.66	0.490	1.96	J	mg/Kg-dry	5	03/30/13 04:11 AM
Iron	4750	123	123		mg/Kg-dry	50	03/29/13 11:34 PM
Lead	2.22	0.0980	0.294		mg/Kg-dry	5	03/28/13 02:50 AM
Manganese	37.4	0.490	1.96		mg/Kg-dry	5	03/28/13 02:50 AM
Selenium	0.474	0.147	0.490	J	mg/Kg-dry	5	03/28/13 02:50 AM
Silver	ND	0.0980	0.196		mg/Kg-dry	5	03/28/13 02:50 AM
Zinc	8.03	0.980	2.45		mg/Kg-dry	5	03/28/13 02:50 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0101	0.0268	N	mg/Kg-dry	1	03/28/13 11:33 PM
2-Methylnaphthalene	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Naphthalene	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Benzo[a]pyrene	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,3,4,6-Tetrachlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4,5-Trichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4,6-Trichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4-Dichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4-Dimethylphenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2,4-Dinitrophenol	ND	0.0504	0.133		mg/Kg-dry	1	03/28/13 11:33 PM
2,6-Dichlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2-Chlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2-Methylphenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
2-Nitrophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
4,6-Dinitro-2-methylphenol	ND	0.0302	0.0665		mg/Kg-dry	1	03/28/13 11:33 PM
4-Chloro-3-methylphenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
4-Methylphenol	ND	0.0202	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
4-Nitrophenol	ND	0.0504	0.133		mg/Kg-dry	1	03/28/13 11:33 PM
Pentachlorophenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Phenol	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Total Phenol (Calculated)	ND	0.0101	0.0268		mg/Kg-dry	1	03/28/13 11:33 PM
Surr: 2,4,6-Tribromophenol	83.0	0	45-126		%REC	1	03/28/13 11:33 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	03/28/13 11:33 PM

Qualifiers:

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DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 5-7'
Lab ID: 1303223-07
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	86.0	0	37-125		%REC	1	03/28/13 11:33 PM
Surr: 4-Terphenyl-d14	78.0	0	45-125		%REC	1	03/28/13 11:33 PM
Surr: Nitrobenzene-d5	82.0	0	45-125		%REC	1	03/28/13 11:33 PM
Surr: Phenol-d6	84.0	0	40-125		%REC	1	03/28/13 11:33 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1221	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1232	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1242	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1248	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1254	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Aroclor 1260	ND	0.0168	0.0336		mg/Kg-dry	1	03/28/13 10:34 PM
Surr: 2-Fluorobiphenyl	70.5	0	43-125		%REC	1	03/28/13 10:34 PM
Surr: 4-Terphenyl-d14	80.2	0	32-125		%REC	1	03/28/13 10:34 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Toluene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Carbon tetrachloride	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,2-Dichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1-Dichloroethylene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Tetrachloroethylene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Trichloroethylene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Ethylbenzene	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Total Xylenes	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Methylene chloride	ND	0.00487	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Chloroform	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1-Dichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Ethylene bromide	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,1-Trichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,2-Trichloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,2,2-Tetrachloroethane	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Vinyl chloride	ND	0.000975	0.00487		mg/Kg-dry	1	03/28/13 02:21 PM
Surr: 1,2-Dichloroethane-d4	99.4	0	52-149		%REC	1	03/28/13 02:21 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 02:21 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	1	03/28/13 02:21 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 02:21 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
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DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 5-7'
Lab ID: 1303223-07
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	14.7	5.10	10.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.203	0.507		mg/Kg-dry	1	03/28/13 04:45 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	466	50.6	50.6		mg/Kg-dry	10	03/28/13 04:25 PM
Fluoride	ND	1.01	1.01		mg/Kg-dry	1	03/28/13 10:56 AM
Nitrate-N	ND	5.06	5.06		mg/Kg-dry	1	03/28/13 10:56 AM
Sulfate	103	10.1	10.1		mg/Kg-dry	1	03/28/13 10:56 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.75	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	1.93	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

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C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 7-9'
Lab ID: 1303223-08
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0157	0.0393		mg/Kg-dry	1	04/02/13 01:31 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.13	0.497	0.994		mg/Kg-dry	5	03/28/13 02:57 AM
Barium	37.9	0.497	1.99		mg/Kg-dry	5	03/28/13 02:57 AM
Cadmium	ND	0.0994	0.298		mg/Kg-dry	5	03/28/13 02:57 AM
Chromium	6.49	0.497	1.99		mg/Kg-dry	5	03/30/13 04:17 AM
Copper	2.26	0.497	1.99		mg/Kg-dry	5	03/30/13 04:17 AM
Iron	6650	124	124		mg/Kg-dry	50	03/29/13 11:40 PM
Lead	3.10	0.0994	0.298		mg/Kg-dry	5	03/28/13 02:57 AM
Manganese	59.0	0.497	1.99		mg/Kg-dry	5	03/28/13 02:57 AM
Selenium	0.762	0.149	0.497		mg/Kg-dry	5	03/28/13 02:57 AM
Silver	ND	0.0994	0.199		mg/Kg-dry	5	03/28/13 02:57 AM
Zinc	11.0	0.994	2.49		mg/Kg-dry	5	03/28/13 02:57 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0108	0.0288	N	mg/Kg-dry	1	03/28/13 11:57 PM
2-Methylnaphthalene	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Naphthalene	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Benzo[a]pyrene	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,3,4,6-Tetrachlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4,5-Trichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4,6-Trichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4-Dichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4-Dimethylphenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2,4-Dinitrophenol	ND	0.0542	0.143		mg/Kg-dry	1	03/28/13 11:57 PM
2,6-Dichlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2-Chlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2-Methylphenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
2-Nitrophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
4,6-Dinitro-2-methylphenol	ND	0.0325	0.0715		mg/Kg-dry	1	03/28/13 11:57 PM
4-Chloro-3-methylphenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
4-Methylphenol	ND	0.0217	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
4-Nitrophenol	ND	0.0542	0.143		mg/Kg-dry	1	03/28/13 11:57 PM
Pentachlorophenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Phenol	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Total Phenol (Calculated)	ND	0.0108	0.0288		mg/Kg-dry	1	03/28/13 11:57 PM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/28/13 11:57 PM
Surr: 2-Fluorobiphenyl	76.0	0	60-125		%REC	1	03/28/13 11:57 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 7-9'
Lab ID: 1303223-08
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	83.0	0	37-125		%REC	1	03/28/13 11:57 PM
Surr: 4-Terphenyl-d14	83.0	0	45-125		%REC	1	03/28/13 11:57 PM
Surr: Nitrobenzene-d5	81.0	0	45-125		%REC	1	03/28/13 11:57 PM
Surr: Phenol-d6	82.0	0	40-125		%REC	1	03/28/13 11:57 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1221	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1232	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1242	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1248	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1254	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Aroclor 1260	ND	0.0181	0.0361		mg/Kg-dry	1	03/28/13 11:05 PM
Surr: 2-Fluorobiphenyl	64.8	0	43-125		%REC	1	03/28/13 11:05 PM
Surr: 4-Terphenyl-d14	77.3	0	32-125		%REC	1	03/28/13 11:05 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Toluene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Carbon tetrachloride	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,2-Dichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1-Dichloroethylene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Tetrachloroethylene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Trichloroethylene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Ethylbenzene	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Total Xylenes	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Methylene chloride	ND	0.00527	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Chloroform	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1-Dichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Ethylene bromide	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1,1-Trichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1,2-Trichloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
1,1,2,2-Tetrachloroethane	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Vinyl chloride	ND	0.00105	0.00527		mg/Kg-dry	1	03/28/13 02:54 PM
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 02:54 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	03/28/13 02:54 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	1	03/28/13 02:54 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 02:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 7-9'
Lab ID: 1303223-08
Collection Date: 03/22/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.48	11.0	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.199	0.497		mg/Kg-dry	1	03/28/13 04:46 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	1300	54.7	54.7		mg/Kg-dry	10	03/28/13 04:39 PM
Fluoride	1.66	1.09	1.09		mg/Kg-dry	1	03/28/13 12:01 PM
Nitrate-N	8.05	5.47	5.47		mg/Kg-dry	1	03/28/13 12:01 PM
Sulfate	ND	10.9	10.9		mg/Kg-dry	1	03/28/13 12:01 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.64	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	9.39	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 10-12'
Lab ID: 1303223-09
Collection Date: 03/22/13 12:10 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0152	0.0380		mg/Kg-dry	1	04/02/13 01:33 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	0.686	0.466	0.933	J	mg/Kg-dry	5	03/28/13 03:03 AM
Barium	63.2	0.466	1.87		mg/Kg-dry	5	03/28/13 03:03 AM
Cadmium	ND	0.0933	0.280		mg/Kg-dry	5	03/28/13 03:03 AM
Chromium	5.04	0.466	1.87		mg/Kg-dry	5	03/30/13 04:24 AM
Copper	1.62	0.466	1.87	J	mg/Kg-dry	5	03/30/13 04:24 AM
Iron	5580	117	117		mg/Kg-dry	50	03/29/13 11:46 PM
Lead	2.38	0.0933	0.280		mg/Kg-dry	5	03/28/13 03:03 AM
Manganese	25.5	0.466	1.87		mg/Kg-dry	5	03/28/13 03:03 AM
Selenium	0.718	0.140	0.466		mg/Kg-dry	5	03/28/13 03:03 AM
Silver	ND	0.0933	0.187		mg/Kg-dry	5	03/28/13 03:03 AM
Zinc	8.21	0.933	2.33		mg/Kg-dry	5	03/28/13 03:03 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.00983	0.0261	N	mg/Kg-dry	1	03/29/13 12:20 AM
2-Methylnaphthalene	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Naphthalene	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Benzo[a]pyrene	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,3,4,6-Tetrachlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4,5-Trichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4,6-Trichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4-Dichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4-Dimethylphenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2,4-Dinitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/29/13 12:20 AM
2,6-Dichlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2-Chlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2-Methylphenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
2-Nitrophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
4,6-Dinitro-2-methylphenol	ND	0.0295	0.0649		mg/Kg-dry	1	03/29/13 12:20 AM
4-Chloro-3-methylphenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
4-Methylphenol	ND	0.0197	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
4-Nitrophenol	ND	0.0491	0.130		mg/Kg-dry	1	03/29/13 12:20 AM
Pentachlorophenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Phenol	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Total Phenol (Calculated)	ND	0.00983	0.0261		mg/Kg-dry	1	03/29/13 12:20 AM
Surr: 2,4,6-Tribromophenol	87.0	0	45-126		%REC	1	03/29/13 12:20 AM
Surr: 2-Fluorobiphenyl	82.0	0	60-125		%REC	1	03/29/13 12:20 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 10-12'
Lab ID: 1303223-09
Collection Date: 03/22/13 12:10 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	86.0	0	37-125		%REC	1	03/29/13 12:20 AM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	03/29/13 12:20 AM
Surr: Nitrobenzene-d5	85.0	0	45-125		%REC	1	03/29/13 12:20 AM
Surr: Phenol-d6	84.0	0	40-125		%REC	1	03/29/13 12:20 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1221	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1232	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1242	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1248	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1254	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Aroclor 1260	ND	0.0164	0.0328		mg/Kg-dry	1	03/28/13 11:36 PM
Surr: 2-Fluorobiphenyl	73.2	0	43-125		%REC	1	03/28/13 11:36 PM
Surr: 4-Terphenyl-d14	82.4	0	32-125		%REC	1	03/28/13 11:36 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Toluene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Carbon tetrachloride	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,2-Dichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1-Dichloroethylene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Tetrachloroethylene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Trichloroethylene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Ethylbenzene	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Total Xylenes	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Methylene chloride	ND	0.00423	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Chloroform	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1-Dichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Ethylene bromide	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1,1-Trichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1,2-Trichloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
1,1,2,2-Tetrachloroethane	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Vinyl chloride	ND	0.000845	0.00423		mg/Kg-dry	1	03/28/13 03:26 PM
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	03/28/13 03:26 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	1	03/28/13 03:26 PM
Surr: Dibromofluoromethane	95.4	0	65-135		%REC	1	03/28/13 03:26 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 03:26 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-4 10-12'
Lab ID: 1303223-09
Collection Date: 03/22/13 12:10 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.22	10.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.196	0.490		mg/Kg-dry	1	03/28/13 04:46 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	12.2	5.21	5.21		mg/Kg-dry	1	03/28/13 12:16 PM
Fluoride	4.90	1.04	1.04		mg/Kg-dry	1	03/28/13 12:16 PM
Nitrate-N	ND	5.21	5.21		mg/Kg-dry	1	03/28/13 12:16 PM
Sulfate	32.0	10.4	10.4		mg/Kg-dry	1	03/28/13 12:16 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	8.25	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	4.26	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 2-3'
Lab ID: 1303223-11
Collection Date: 03/22/13 03:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0156	0.0389		mg/Kg-dry	1	04/02/13 01:35 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.47	0.503	1.01		mg/Kg-dry	5	03/28/13 03:09 AM
Barium	26.0	0.503	2.01		mg/Kg-dry	5	03/28/13 03:09 AM
Cadmium	ND	0.101	0.302		mg/Kg-dry	5	03/28/13 03:09 AM
Chromium	4.68	0.503	2.01		mg/Kg-dry	5	03/30/13 04:30 AM
Copper	1.58	0.503	2.01	J	mg/Kg-dry	5	03/30/13 04:30 AM
Iron	5180	126	126		mg/Kg-dry	50	03/29/13 11:52 PM
Lead	2.56	0.101	0.302		mg/Kg-dry	5	03/28/13 03:09 AM
Manganese	41.2	0.503	2.01		mg/Kg-dry	5	03/28/13 03:09 AM
Selenium	0.559	0.151	0.503		mg/Kg-dry	5	03/28/13 03:09 AM
Silver	ND	0.101	0.201		mg/Kg-dry	5	03/28/13 03:09 AM
Zinc	7.81	1.01	2.51		mg/Kg-dry	5	03/28/13 03:09 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0112	0.0297	N	mg/Kg-dry	1	03/29/13 12:43 AM
2-Methylnaphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Naphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Benzo[a]pyrene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,3,4,6-Tetrachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4,5-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4,6-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4-Dimethylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2,4-Dinitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 12:43 AM
2,6-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2-Chlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2-Methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
2-Nitrophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
4,6-Dinitro-2-methylphenol	ND	0.0335	0.0738		mg/Kg-dry	1	03/29/13 12:43 AM
4-Chloro-3-methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
4-Methylphenol	ND	0.0224	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
4-Nitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 12:43 AM
Pentachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Phenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Total Phenol (Calculated)	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 12:43 AM
Surr: 2,4,6-Tribromophenol	93.0	0	45-126		%REC	1	03/29/13 12:43 AM
Surr: 2-Fluorobiphenyl	86.0	0	60-125		%REC	1	03/29/13 12:43 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 2-3'
Lab ID: 1303223-11
Collection Date: 03/22/13 03:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	92.0	0	37-125		%REC	1	03/29/13 12:43 AM
Surr: 4-Terphenyl-d14	97.0	0	45-125		%REC	1	03/29/13 12:43 AM
Surr: Nitrobenzene-d5	93.0	0	45-125		%REC	1	03/29/13 12:43 AM
Surr: Phenol-d6	87.0	0	40-125		%REC	1	03/29/13 12:43 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1221	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1232	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1242	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1248	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1254	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Aroclor 1260	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 12:07 AM
Surr: 2-Fluorobiphenyl	68.2	0	43-125		%REC	1	03/29/13 12:07 AM
Surr: 4-Terphenyl-d14	76.7	0	32-125		%REC	1	03/29/13 12:07 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Toluene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Carbon tetrachloride	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,2-Dichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1-Dichloroethylene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Tetrachloroethylene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Trichloroethylene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Ethylbenzene	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Total Xylenes	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Methylene chloride	ND	0.00467	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Chloroform	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1-Dichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Ethylene bromide	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1,1-Trichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1,2-Trichloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
1,1,2,2-Tetrachloroethane	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Vinyl chloride	ND	0.000934	0.00467		mg/Kg-dry	1	03/28/13 03:58 PM
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 03:58 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 03:58 PM
Surr: Dibromofluoromethane	97.0	0	65-135		%REC	1	03/28/13 03:58 PM
Surr: Toluene-d8	105	0	84-116		%REC	1	03/28/13 03:58 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 2-3'
Lab ID: 1303223-11
Collection Date: 03/22/13 03:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	23.7	5.75	11.5	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.190	0.474		mg/Kg-dry	1	03/28/13 04:46 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	244	5.78	5.78		mg/Kg-dry	1	03/28/13 12:30 PM
Fluoride	ND	1.16	1.16		mg/Kg-dry	1	03/28/13 12:30 PM
Nitrate-N	ND	5.78	5.78		mg/Kg-dry	1	03/28/13 12:30 PM
Sulfate	253	11.6	11.6		mg/Kg-dry	1	03/28/13 12:30 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.81	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	13.5	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 5-7'
Lab ID: 1303223-12
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0160	0.0401		mg/Kg-dry	1	04/02/13 01:37 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	4.06	0.442	0.885		mg/Kg-dry	5	03/28/13 03:15 AM
Barium	57.5	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Cadmium	0.143	0.0885	0.265	J	mg/Kg-dry	5	03/28/13 03:15 AM
Chromium	12.0	0.442	1.77		mg/Kg-dry	5	03/30/13 04:36 AM
Copper	3.21	0.442	1.77		mg/Kg-dry	5	03/30/13 04:36 AM
Iron	13900	111	111		mg/Kg-dry	50	03/29/13 11:59 PM
Lead	5.86	0.0885	0.265		mg/Kg-dry	5	03/28/13 03:15 AM
Manganese	67.4	0.442	1.77		mg/Kg-dry	5	03/28/13 03:15 AM
Selenium	1.25	0.133	0.442		mg/Kg-dry	5	03/28/13 03:15 AM
Silver	ND	0.0885	0.177		mg/Kg-dry	5	03/28/13 03:15 AM
Zinc	25.7	0.885	2.21		mg/Kg-dry	5	03/28/13 03:15 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.00989	0.0263	N	mg/Kg-dry	1	03/29/13 01:06 AM
2-Methylnaphthalene	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Naphthalene	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Benzo[a]pyrene	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,3,4,6-Tetrachlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4,5-Trichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4,6-Trichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4-Dichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4-Dimethylphenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2,4-Dinitrophenol	ND	0.0495	0.131		mg/Kg-dry	1	03/29/13 01:06 AM
2,6-Dichlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2-Chlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2-Methylphenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
2-Nitrophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
4,6-Dinitro-2-methylphenol	ND	0.0297	0.0653		mg/Kg-dry	1	03/29/13 01:06 AM
4-Chloro-3-methylphenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
4-Methylphenol	ND	0.0198	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
4-Nitrophenol	ND	0.0495	0.131		mg/Kg-dry	1	03/29/13 01:06 AM
Pentachlorophenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Phenol	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Total Phenol (Calculated)	ND	0.00989	0.0263		mg/Kg-dry	1	03/29/13 01:06 AM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/29/13 01:06 AM
Surr: 2-Fluorobiphenyl	75.0	0	60-125		%REC	1	03/29/13 01:06 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 5-7'
Lab ID: 1303223-12
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	03/29/13 01:06 AM
Surr: 4-Terphenyl-d14	69.0	0	45-125		%REC	1	03/29/13 01:06 AM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	03/29/13 01:06 AM
Surr: Phenol-d6	76.0	0	40-125		%REC	1	03/29/13 01:06 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1221	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1232	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1242	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1248	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1254	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Aroclor 1260	ND	0.0165	0.0330		mg/Kg-dry	1	03/29/13 12:38 AM
Surr: 2-Fluorobiphenyl	70.6	0	43-125		%REC	1	03/29/13 12:38 AM
Surr: 4-Terphenyl-d14	84.7	0	32-125		%REC	1	03/29/13 12:38 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Toluene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Carbon tetrachloride	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,2-Dichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1-Dichloroethylene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Tetrachloroethylene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Trichloroethylene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Ethylbenzene	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Total Xylenes	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Methylene chloride	ND	0.00478	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Chloroform	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1-Dichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Ethylene bromide	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1,1-Trichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1,2-Trichloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
1,1,2,2-Tetrachloroethane	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Vinyl chloride	ND	0.000956	0.00478		mg/Kg-dry	1	03/28/13 04:33 PM
Surr: 1,2-Dichloroethane-d4	104	0	52-149		%REC	1	03/28/13 04:33 PM
Surr: 4-Bromofluorobenzene	102	0	84-118		%REC	1	03/28/13 04:33 PM
Surr: Dibromofluoromethane	97.0	0	65-135		%REC	1	03/28/13 04:33 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 04:33 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 5-7'
Lab ID: 1303223-12
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.16	10.3	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.169	0.422		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	81.2	5.17	5.17		mg/Kg-dry	1	03/28/13 12:45 PM
Fluoride	ND	1.03	1.03		mg/Kg-dry	1	03/28/13 12:45 PM
Nitrate-N	ND	5.17	5.17		mg/Kg-dry	1	03/28/13 12:45 PM
Sulfate	80.0	10.3	10.3		mg/Kg-dry	1	03/28/13 12:45 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.25	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	3.37	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 7-9'
Lab ID: 1303223-13
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	0.0164	0.0152	0.0379	J	mg/Kg-dry	1	04/02/13 01:39 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	3.92	0.510	1.02		mg/Kg-dry	5	03/28/13 04:42 AM
Barium	93.8	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Cadmium	0.169	0.102	0.306	J	mg/Kg-dry	5	03/28/13 04:42 AM
Chromium	11.9	0.510	2.04		mg/Kg-dry	5	04/01/13 03:18 PM
Copper	3.07	0.510	2.04		mg/Kg-dry	5	04/01/13 03:18 PM
Iron	13700	127	127		mg/Kg-dry	50	03/30/13 01:37 AM
Lead	6.41	0.102	0.306		mg/Kg-dry	5	03/28/13 04:42 AM
Manganese	82.7	0.510	2.04		mg/Kg-dry	5	03/28/13 04:42 AM
Selenium	1.31	0.153	0.510		mg/Kg-dry	5	03/28/13 04:42 AM
Silver	ND	0.102	0.204		mg/Kg-dry	5	03/28/13 04:42 AM
Zinc	22.2	1.02	2.55		mg/Kg-dry	5	03/28/13 04:42 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0109	0.0290	N	mg/Kg-dry	1	03/29/13 01:29 AM
2-Methylnaphthalene	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Naphthalene	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Benzo[a]pyrene	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,3,4,6-Tetrachlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4,5-Trichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4,6-Trichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4-Dichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4-Dimethylphenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2,4-Dinitrophenol	ND	0.0546	0.144		mg/Kg-dry	1	03/29/13 01:29 AM
2,6-Dichlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2-Chlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2-Methylphenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
2-Nitrophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
4,6-Dinitro-2-methylphenol	ND	0.0328	0.0721		mg/Kg-dry	1	03/29/13 01:29 AM
4-Chloro-3-methylphenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
4-Methylphenol	ND	0.0218	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
4-Nitrophenol	ND	0.0546	0.144		mg/Kg-dry	1	03/29/13 01:29 AM
Pentachlorophenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Phenol	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Total Phenol (Calculated)	ND	0.0109	0.0290		mg/Kg-dry	1	03/29/13 01:29 AM
Surr: 2,4,6-Tribromophenol	85.0	0	45-126		%REC	1	03/29/13 01:29 AM
Surr: 2-Fluorobiphenyl	79.0	0	60-125		%REC	1	03/29/13 01:29 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 7-9'
Lab ID: 1303223-13
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	84.0	0	37-125		%REC	1	03/29/13 01:29 AM
Surr: 4-Terphenyl-d14	81.0	0	45-125		%REC	1	03/29/13 01:29 AM
Surr: Nitrobenzene-d5	82.0	0	45-125		%REC	1	03/29/13 01:29 AM
Surr: Phenol-d6	81.0	0	40-125		%REC	1	03/29/13 01:29 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1221	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1232	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1242	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1248	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1254	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Aroclor 1260	ND	0.0182	0.0364		mg/Kg-dry	1	03/29/13 01:09 AM
Surr: 2-Fluorobiphenyl	64.4	0	43-125		%REC	1	03/29/13 01:09 AM
Surr: 4-Terphenyl-d14	75.8	0	32-125		%REC	1	03/29/13 01:09 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Toluene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Carbon tetrachloride	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,2-Dichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1-Dichloroethylene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Tetrachloroethylene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Trichloroethylene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Ethylbenzene	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Total Xylenes	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Methylene chloride	ND	0.00520	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Chloroform	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1-Dichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Ethylene bromide	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1,1-Trichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1,2-Trichloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
1,1,2,2-Tetrachloroethane	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Vinyl chloride	ND	0.00104	0.00520		mg/Kg-dry	1	03/28/13 05:06 PM
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 05:06 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 05:06 PM
Surr: Dibromofluoromethane	98.4	0	65-135		%REC	1	03/28/13 05:06 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 05:06 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 7-9'
Lab ID: 1303223-13
Collection Date: 03/22/13 03:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.59	11.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.177	0.441		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	99.2	5.50	5.50		mg/Kg-dry	1	03/28/13 12:59 PM
Fluoride	1.67	1.10	1.10		mg/Kg-dry	1	03/28/13 12:59 PM
Nitrate-N	ND	5.50	5.50		mg/Kg-dry	1	03/28/13 12:59 PM
Sulfate	19.0	11.0	11.0		mg/Kg-dry	1	03/28/13 12:59 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.31	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	10.8	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 10-12'
Lab ID: 1303223-14
Collection Date: 03/22/13 03:40 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0171	0.0426		mg/Kg-dry	1	04/02/13 01:41 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.39	0.524	1.05		mg/Kg-dry	5	03/28/13 04:48 AM
Barium	151	0.524	2.10		mg/Kg-dry	5	03/28/13 04:48 AM
Cadmium	0.117	0.105	0.314	J	mg/Kg-dry	5	03/28/13 04:48 AM
Chromium	5.17	0.524	2.10		mg/Kg-dry	5	04/01/13 03:24 PM
Copper	1.84	0.524	2.10	J	mg/Kg-dry	5	04/01/13 03:24 PM
Iron	4920	131	131		mg/Kg-dry	50	03/30/13 01:43 AM
Lead	2.33	0.105	0.314		mg/Kg-dry	5	03/28/13 04:48 AM
Manganese	44.1	0.524	2.10		mg/Kg-dry	5	03/28/13 04:48 AM
Selenium	0.825	0.157	0.524		mg/Kg-dry	5	03/28/13 04:48 AM
Silver	ND	0.105	0.210		mg/Kg-dry	5	03/28/13 04:48 AM
Zinc	7.19	1.05	2.62		mg/Kg-dry	5	03/28/13 04:48 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0110	0.0293	N	mg/Kg-dry	1	03/29/13 01:52 AM
2-Methylnaphthalene	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Naphthalene	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Benzo[a]pyrene	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,3,4,6-Tetrachlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4,5-Trichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4,6-Trichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4-Dichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4-Dimethylphenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2,4-Dinitrophenol	ND	0.0550	0.145		mg/Kg-dry	1	03/29/13 01:52 AM
2,6-Dichlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2-Chlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2-Methylphenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
2-Nitrophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
4,6-Dinitro-2-methylphenol	ND	0.0330	0.0726		mg/Kg-dry	1	03/29/13 01:52 AM
4-Chloro-3-methylphenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
4-Methylphenol	ND	0.0220	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
4-Nitrophenol	ND	0.0550	0.145		mg/Kg-dry	1	03/29/13 01:52 AM
Pentachlorophenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Phenol	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Total Phenol (Calculated)	ND	0.0110	0.0293		mg/Kg-dry	1	03/29/13 01:52 AM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	03/29/13 01:52 AM
Surr: 2-Fluorobiphenyl	75.0	0	60-125		%REC	1	03/29/13 01:52 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level B Analyte detected in the associated Method Blank
C Sample Result or QC discussed in the Case Narrative DF Dilution Factor
E TPH pattern not Gas or Diesel Range Pattern J Analyte detected between MDL and RL
MDL Method Detection Limit ND Not Detected at the Method Detection Limit
RL Reporting Limit S Spike Recovery outside control limits
N Parameter not NELAC certified

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 10-12'
Lab ID: 1303223-14
Collection Date: 03/22/13 03:40 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	03/29/13 01:52 AM
Surr: 4-Terphenyl-d14	80.0	0	45-125		%REC	1	03/29/13 01:52 AM
Surr: Nitrobenzene-d5	79.0	0	45-125		%REC	1	03/29/13 01:52 AM
Surr: Phenol-d6	80.0	0	40-125		%REC	1	03/29/13 01:52 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1221	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1232	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1242	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1248	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1254	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Aroclor 1260	ND	0.0183	0.0367		mg/Kg-dry	1	03/29/13 01:40 AM
Surr: 2-Fluorobiphenyl	66.9	0	43-125		%REC	1	03/29/13 01:40 AM
Surr: 4-Terphenyl-d14	76.0	0	32-125		%REC	1	03/29/13 01:40 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Toluene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Carbon tetrachloride	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,2-Dichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1-Dichloroethylene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Tetrachloroethylene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Trichloroethylene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Ethylbenzene	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Total Xylenes	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Methylene chloride	ND	0.00471	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Chloroform	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1-Dichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Ethylene bromide	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1,1-Trichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1,2-Trichloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
1,1,2,2-Tetrachloroethane	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Vinyl chloride	ND	0.000941	0.00471		mg/Kg-dry	1	03/28/13 05:40 PM
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 05:40 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	03/28/13 05:40 PM
Surr: Dibromofluoromethane	95.8	0	65-135		%REC	1	03/28/13 05:40 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 05:40 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 10-12'
Lab ID: 1303223-14
Collection Date: 03/22/13 03:40 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.49	11.0	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.183	0.457		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	19.2	5.49	5.49		mg/Kg-dry	1	03/28/13 01:14 PM
Fluoride	11.0	1.10	1.10		mg/Kg-dry	1	03/28/13 01:14 PM
Nitrate-N	ND	5.49	5.49		mg/Kg-dry	1	03/28/13 01:14 PM
Sulfate	58.3	11.0	11.0		mg/Kg-dry	1	03/28/13 01:14 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	8.38	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	9.98	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 9-10'
Lab ID: 1303223-15
Collection Date: 03/22/13 03:23 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	0.0213	0.0170	0.0424	J	mg/Kg-dry	1	04/02/13 01:43 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.12	0.497	0.995		mg/Kg-dry	5	03/28/13 04:54 AM
Barium	411	0.497	1.99		mg/Kg-dry	5	03/28/13 04:54 AM
Cadmium	0.103	0.0995	0.298	J	mg/Kg-dry	5	03/28/13 04:54 AM
Chromium	6.06	0.497	1.99		mg/Kg-dry	5	04/01/13 03:30 PM
Copper	3.13	0.497	1.99		mg/Kg-dry	5	04/01/13 03:30 PM
Iron	6180	124	124		mg/Kg-dry	50	03/30/13 01:50 AM
Lead	2.89	0.0995	0.298		mg/Kg-dry	5	03/28/13 04:54 AM
Manganese	38.0	0.497	1.99		mg/Kg-dry	5	03/28/13 04:54 AM
Selenium	0.714	0.149	0.497		mg/Kg-dry	5	03/28/13 04:54 AM
Silver	ND	0.0995	0.199		mg/Kg-dry	5	03/28/13 04:54 AM
Zinc	9.17	0.995	2.49		mg/Kg-dry	5	03/28/13 04:54 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0111	0.0294	N	mg/Kg-dry	1	03/29/13 02:15 AM
2-Methylnaphthalene	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Naphthalene	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Benzo[a]pyrene	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,3,4,6-Tetrachlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4,5-Trichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4,6-Trichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4-Dichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4-Dimethylphenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2,4-Dinitrophenol	ND	0.0553	0.146		mg/Kg-dry	1	03/29/13 02:15 AM
2,6-Dichlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2-Chlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2-Methylphenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
2-Nitrophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
4,6-Dinitro-2-methylphenol	ND	0.0332	0.0730		mg/Kg-dry	1	03/29/13 02:15 AM
4-Chloro-3-methylphenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
4-Methylphenol	ND	0.0221	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
4-Nitrophenol	ND	0.0553	0.146		mg/Kg-dry	1	03/29/13 02:15 AM
Pentachlorophenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Phenol	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Total Phenol (Calculated)	ND	0.0111	0.0294		mg/Kg-dry	1	03/29/13 02:15 AM
Surr: 2,4,6-Tribromophenol	91.0	0	45-126		%REC	1	03/29/13 02:15 AM
Surr: 2-Fluorobiphenyl	83.0	0	60-125		%REC	1	03/29/13 02:15 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 9-10'
Lab ID: 1303223-15
Collection Date: 03/22/13 03:23 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	90.0	0	37-125		%REC	1	03/29/13 02:15 AM
Surr: 4-Terphenyl-d14	92.0	0	45-125		%REC	1	03/29/13 02:15 AM
Surr: Nitrobenzene-d5	88.0	0	45-125		%REC	1	03/29/13 02:15 AM
Surr: Phenol-d6	87.0	0	40-125		%REC	1	03/29/13 02:15 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1221	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1232	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1242	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1248	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1254	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Aroclor 1260	ND	0.0184	0.0369		mg/Kg-dry	1	03/29/13 02:11 AM
Surr: 2-Fluorobiphenyl	71.3	0	43-125		%REC	1	03/29/13 02:11 AM
Surr: 4-Terphenyl-d14	87.1	0	32-125		%REC	1	03/29/13 02:11 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Toluene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Carbon tetrachloride	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,2-Dichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1-Dichloroethylene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Tetrachloroethylene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Trichloroethylene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Ethylbenzene	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Total Xylenes	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Methylene chloride	ND	0.00506	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Chloroform	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1-Dichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Ethylene bromide	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1,1-Trichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1,2-Trichloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
1,1,2,2-Tetrachloroethane	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Vinyl chloride	ND	0.00101	0.00506		mg/Kg-dry	1	03/28/13 06:11 PM
Surr: 1,2-Dichloroethane-d4	102	0	52-149		%REC	1	03/28/13 06:11 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 06:11 PM
Surr: Dibromofluoromethane	95.8	0	65-135		%REC	1	03/28/13 06:11 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 06:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-10 9-10'
Lab ID: 1303223-15
Collection Date: 03/22/13 03:23 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.59	11.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.174	0.434		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	28.4	5.46	5.46		mg/Kg-dry	1	03/28/13 01:29 PM
Fluoride	7.73	1.09	1.09		mg/Kg-dry	1	03/28/13 01:29 PM
Nitrate-N	ND	5.46	5.46		mg/Kg-dry	1	03/28/13 01:29 PM
Sulfate	59.6	10.9	10.9		mg/Kg-dry	1	03/28/13 01:29 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	8.27	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	11.0	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 2-2.7'
Lab ID: 1303223-17
Collection Date: 03/23/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.00944	0.0236		mg/Kg-dry	1	04/02/13 01:49 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.28	0.323	0.647		mg/Kg-dry	5	03/28/13 05:01 AM
Barium	25.9	0.323	1.29		mg/Kg-dry	5	03/28/13 05:01 AM
Cadmium	ND	0.0647	0.194		mg/Kg-dry	5	03/28/13 05:01 AM
Chromium	4.37	0.323	1.29		mg/Kg-dry	5	04/01/13 03:36 PM
Copper	1.18	0.323	1.29	J	mg/Kg-dry	5	04/01/13 03:36 PM
Iron	4230	80.8	80.8		mg/Kg-dry	50	03/30/13 01:56 AM
Lead	2.05	0.0647	0.194		mg/Kg-dry	5	03/28/13 05:01 AM
Manganese	36.1	0.323	1.29		mg/Kg-dry	5	03/28/13 05:01 AM
Selenium	0.577	0.0970	0.323		mg/Kg-dry	5	03/28/13 05:01 AM
Silver	ND	0.0647	0.129		mg/Kg-dry	5	03/28/13 05:01 AM
Zinc	6.48	0.647	1.62		mg/Kg-dry	5	03/28/13 05:01 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0122	0.0325	N	mg/Kg-dry	1	03/29/13 03:48 AM
2-Methylnaphthalene	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Naphthalene	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Benzo[a]pyrene	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,3,4,6-Tetrachlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4,5-Trichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4,6-Trichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4-Dichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4-Dimethylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2,4-Dinitrophenol	ND	0.0611	0.161		mg/Kg-dry	1	03/29/13 03:48 AM
2,6-Dichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2-Chlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2-Methylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
2-Nitrophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
4,6-Dinitro-2-methylphenol	ND	0.0367	0.0807		mg/Kg-dry	1	03/29/13 03:48 AM
4-Chloro-3-methylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
4-Methylphenol	ND	0.0245	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
4-Nitrophenol	ND	0.0611	0.161		mg/Kg-dry	1	03/29/13 03:48 AM
Pentachlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Phenol	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Total Phenol (Calculated)	ND	0.0122	0.0325		mg/Kg-dry	1	03/29/13 03:48 AM
Surr: 2,4,6-Tribromophenol	90.0	0	45-126		%REC	1	03/29/13 03:48 AM
Surr: 2-Fluorobiphenyl	74.0	0	60-125		%REC	1	03/29/13 03:48 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 2-2.7'
Lab ID: 1303223-17
Collection Date: 03/23/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	77.0	0	37-125		%REC	1	03/29/13 03:48 AM
Surr: 4-Terphenyl-d14	79.0	0	45-125		%REC	1	03/29/13 03:48 AM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	03/29/13 03:48 AM
Surr: Phenol-d6	74.0	0	40-125		%REC	1	03/29/13 03:48 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1221	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1232	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1242	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1248	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1254	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Aroclor 1260	ND	0.0204	0.0408		mg/Kg-dry	1	03/29/13 04:15 AM
Surr: 2-Fluorobiphenyl	70.0	0	43-125		%REC	1	03/29/13 04:15 AM
Surr: 4-Terphenyl-d14	79.0	0	32-125		%REC	1	03/29/13 04:15 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Toluene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Carbon tetrachloride	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,2-Dichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1-Dichloroethylene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Tetrachloroethylene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Trichloroethylene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Ethylbenzene	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Total Xylenes	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Methylene chloride	ND	0.00602	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Chloroform	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1-Dichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Ethylene bromide	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1,1-Trichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1,2-Trichloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
1,1,2,2-Tetrachloroethane	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Vinyl chloride	ND	0.00120	0.00602		mg/Kg-dry	1	03/28/13 06:43 PM
Surr: 1,2-Dichloroethane-d4	99.4	0	52-149		%REC	1	03/28/13 06:43 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 06:43 PM
Surr: Dibromofluoromethane	96.9	0	65-135		%REC	1	03/28/13 06:43 PM
Surr: Toluene-d8	106	0	84-116		%REC	1	03/28/13 06:43 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 2-2.7'
Lab ID: 1303223-17
Collection Date: 03/23/13 08:50 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	147	6.22	12.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.225	0.562		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	329	61.5	61.5		mg/Kg-dry	10	03/28/13 04:54 PM
Fluoride	2.29	1.23	1.23		mg/Kg-dry	1	03/28/13 01:43 PM
Nitrate-N	ND	6.15	6.15		mg/Kg-dry	1	03/28/13 01:43 PM
Sulfate	141	12.3	12.3		mg/Kg-dry	1	03/28/13 01:43 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.78	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	19.9	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 5-7'
Lab ID: 1303223-18
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0140	0.0351		mg/Kg-dry	1	04/02/13 01:05 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.50	0.455	0.911		mg/Kg-dry	5	03/28/13 02:13 AM
Barium	20.9	0.455	1.82		mg/Kg-dry	5	03/28/13 02:13 AM
Cadmium	ND	0.0911	0.273		mg/Kg-dry	5	03/28/13 02:13 AM
Chromium	5.23	0.455	1.82		mg/Kg-dry	5	03/30/13 03:41 AM
Copper	1.48	0.455	1.82	J	mg/Kg-dry	5	03/30/13 03:41 AM
Iron	5440	114	114		mg/Kg-dry	50	03/29/13 10:57 PM
Lead	2.58	0.0911	0.273		mg/Kg-dry	5	03/28/13 02:13 AM
Manganese	42.6	0.455	1.82		mg/Kg-dry	5	03/28/13 02:13 AM
Selenium	0.590	0.137	0.455		mg/Kg-dry	5	03/28/13 02:13 AM
Silver	ND	0.0911	0.182		mg/Kg-dry	5	03/28/13 02:13 AM
Zinc	9.77	0.911	2.28		mg/Kg-dry	5	03/28/13 02:13 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0101	0.0270	N	mg/Kg-dry	1	03/29/13 02:38 AM
2-Methylnaphthalene	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Naphthalene	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Benzo[a]pyrene	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,3,4,6-Tetrachlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4,5-Trichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4,6-Trichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4-Dichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4-Dimethylphenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2,4-Dinitrophenol	ND	0.0507	0.134		mg/Kg-dry	1	03/29/13 02:38 AM
2,6-Dichlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2-Chlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2-Methylphenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
2-Nitrophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
4,6-Dinitro-2-methylphenol	ND	0.0304	0.0670		mg/Kg-dry	1	03/29/13 02:38 AM
4-Chloro-3-methylphenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
4-Methylphenol	ND	0.0203	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
4-Nitrophenol	ND	0.0507	0.134		mg/Kg-dry	1	03/29/13 02:38 AM
Pentachlorophenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Phenol	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Total Phenol (Calculated)	ND	0.0101	0.0270		mg/Kg-dry	1	03/29/13 02:38 AM
Surr: 2,4,6-Tribromophenol	94.0	0	45-126		%REC	1	03/29/13 02:38 AM
Surr: 2-Fluorobiphenyl	89.0	0	60-125		%REC	1	03/29/13 02:38 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 5-7'
Lab ID: 1303223-18
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	96.0	0	37-125		%REC	1	03/29/13 02:38 AM
Surr: 4-Terphenyl-d14	93.0	0	45-125		%REC	1	03/29/13 02:38 AM
Surr: Nitrobenzene-d5	92.0	0	45-125		%REC	1	03/29/13 02:38 AM
Surr: Phenol-d6	93.0	0	40-125		%REC	1	03/29/13 02:38 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1221	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1232	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1242	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1248	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1254	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Aroclor 1260	ND	0.0169	0.0338		mg/Kg-dry	1	03/29/13 02:42 AM
Surr: 2-Fluorobiphenyl	67.8	0	43-125		%REC	1	03/29/13 02:42 AM
Surr: 4-Terphenyl-d14	77.0	0	32-125		%REC	1	03/29/13 02:42 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Toluene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Carbon tetrachloride	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,2-Dichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1-Dichloroethylene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Tetrachloroethylene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Trichloroethylene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Ethylbenzene	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Total Xylenes	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Methylene chloride	ND	0.00460	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Chloroform	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1-Dichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Ethylene bromide	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1,1-Trichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1,2-Trichloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
1,1,2,2-Tetrachloroethane	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Vinyl chloride	ND	0.000921	0.00460		mg/Kg-dry	1	03/28/13 07:17 PM
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 07:17 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 07:17 PM
Surr: Dibromofluoromethane	97.9	0	65-135		%REC	1	03/28/13 07:17 PM
Surr: Toluene-d8	103	0	84-116		%REC	1	03/28/13 07:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 5-7'
Lab ID: 1303223-18
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.17	10.3	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.195	0.487		mg/Kg-dry	1	03/28/13 04:48 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	434	51.8	51.8		mg/Kg-dry	10	03/28/13 05:23 PM
Fluoride	ND	1.04	1.04		mg/Kg-dry	1	03/28/13 01:58 PM
Nitrate-N	ND	5.18	5.18		mg/Kg-dry	1	03/28/13 01:58 PM
Sulfate	20.3	10.4	10.4		mg/Kg-dry	1	03/28/13 01:58 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.58	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	3.70	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 7-9'
Lab ID: 1303223-19
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0166	0.0415		mg/Kg-dry	1	04/02/13 01:51 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.32	0.477	0.954		mg/Kg-dry	5	03/28/13 05:07 AM
Barium	210	0.477	1.91		mg/Kg-dry	5	03/28/13 05:07 AM
Cadmium	0.134	0.0954	0.286	J	mg/Kg-dry	5	03/28/13 05:07 AM
Chromium	4.37	0.477	1.91		mg/Kg-dry	5	04/01/13 03:42 PM
Copper	1.57	0.477	1.91	J	mg/Kg-dry	5	04/01/13 03:42 PM
Iron	5080	119	119		mg/Kg-dry	50	03/30/13 02:02 AM
Lead	2.36	0.0954	0.286		mg/Kg-dry	5	03/28/13 05:07 AM
Manganese	41.8	0.477	1.91		mg/Kg-dry	5	03/28/13 05:07 AM
Selenium	0.594	0.143	0.477		mg/Kg-dry	5	03/28/13 05:07 AM
Silver	ND	0.0954	0.191		mg/Kg-dry	5	03/28/13 05:07 AM
Zinc	6.80	0.954	2.38		mg/Kg-dry	5	03/28/13 05:07 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0112	0.0297	N	mg/Kg-dry	1	03/29/13 03:01 AM
2-Methylnaphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Naphthalene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Benzo[a]pyrene	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,3,4,6-Tetrachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4,5-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4,6-Trichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4-Dimethylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2,4-Dinitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 03:01 AM
2,6-Dichlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2-Chlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2-Methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
2-Nitrophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
4,6-Dinitro-2-methylphenol	ND	0.0335	0.0738		mg/Kg-dry	1	03/29/13 03:01 AM
4-Chloro-3-methylphenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
4-Methylphenol	ND	0.0224	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
4-Nitrophenol	ND	0.0559	0.148		mg/Kg-dry	1	03/29/13 03:01 AM
Pentachlorophenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Phenol	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Total Phenol (Calculated)	ND	0.0112	0.0297		mg/Kg-dry	1	03/29/13 03:01 AM
Surr: 2,4,6-Tribromophenol	77.0	0	45-126		%REC	1	03/29/13 03:01 AM
Surr: 2-Fluorobiphenyl	74.0	0	60-125		%REC	1	03/29/13 03:01 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 7-9'
Lab ID: 1303223-19
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	79.0	0	37-125		%REC	1	03/29/13 03:01 AM
Surr: 4-Terphenyl-d14	67.0	0	45-125		%REC	1	03/29/13 03:01 AM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	03/29/13 03:01 AM
Surr: Phenol-d6	77.0	0	40-125		%REC	1	03/29/13 03:01 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1221	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1232	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1242	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1248	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1254	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Aroclor 1260	ND	0.0186	0.0373		mg/Kg-dry	1	03/29/13 03:13 AM
Surr: 2-Fluorobiphenyl	63.8	0	43-125		%REC	1	03/29/13 03:13 AM
Surr: 4-Terphenyl-d14	73.6	0	32-125		%REC	1	03/29/13 03:13 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Toluene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Carbon tetrachloride	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,2-Dichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1-Dichloroethylene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Tetrachloroethylene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Trichloroethylene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Ethylbenzene	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Total Xylenes	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Methylene chloride	ND	0.00532	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Chloroform	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1-Dichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Ethylene bromide	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1,1-Trichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1,2-Trichloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
1,1,2,2-Tetrachloroethane	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Vinyl chloride	ND	0.00106	0.00532		mg/Kg-dry	1	03/28/13 07:50 PM
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	03/28/13 07:50 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	1	03/28/13 07:50 PM
Surr: Dibromofluoromethane	98.1	0	65-135		%REC	1	03/28/13 07:50 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 07:50 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 7-9'
Lab ID: 1303223-19
Collection Date: 03/23/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.68	11.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.213	0.533		mg/Kg-dry	1	03/28/13 04:50 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	470	56.5	56.5		mg/Kg-dry	10	03/28/13 05:38 PM
Fluoride	1.62	1.13	1.13		mg/Kg-dry	1	03/28/13 02:12 PM
Nitrate-N	ND	5.65	5.65		mg/Kg-dry	1	03/28/13 02:12 PM
Sulfate	38.6	11.3	11.3		mg/Kg-dry	1	03/28/13 02:12 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	7.94	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	11.9	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 10-12'
Lab ID: 1303223-20
Collection Date: 03/23/13 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0101	0.0252		mg/Kg-dry	1	04/02/13 01:53 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.79	0.331	0.662		mg/Kg-dry	5	03/28/13 05:13 AM
Barium	356	0.331	1.32		mg/Kg-dry	5	03/28/13 05:13 AM
Cadmium	0.0765	0.0662	0.199	J	mg/Kg-dry	5	03/28/13 05:13 AM
Chromium	3.79	0.331	1.32		mg/Kg-dry	5	04/01/13 03:48 PM
Copper	1.29	0.331	1.32	J	mg/Kg-dry	5	04/01/13 03:48 PM
Iron	4990	82.8	82.8		mg/Kg-dry	50	03/30/13 02:08 AM
Lead	2.29	0.0662	0.199		mg/Kg-dry	5	03/28/13 05:13 AM
Manganese	40.6	0.331	1.32		mg/Kg-dry	5	03/28/13 05:13 AM
Selenium	0.699	0.0994	0.331		mg/Kg-dry	5	03/28/13 05:13 AM
Silver	ND	0.0662	0.132		mg/Kg-dry	5	03/28/13 05:13 AM
Zinc	7.02	0.662	1.66		mg/Kg-dry	5	03/28/13 05:13 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
1-Methylnaphthalene	ND	0.0129	0.0344	N	mg/Kg-dry	1	03/29/13 03:25 AM
2-Methylnaphthalene	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Naphthalene	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Benzo[a]pyrene	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,3,4,6-Tetrachlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4,5-Trichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4,6-Trichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4-Dichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4-Dimethylphenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2,4-Dinitrophenol	ND	0.0647	0.171		mg/Kg-dry	1	03/29/13 03:25 AM
2,6-Dichlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2-Chlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2-Methylphenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
2-Nitrophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
4,6-Dinitro-2-methylphenol	ND	0.0388	0.0854		mg/Kg-dry	1	03/29/13 03:25 AM
4-Chloro-3-methylphenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
4-Methylphenol	ND	0.0259	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
4-Nitrophenol	ND	0.0647	0.171		mg/Kg-dry	1	03/29/13 03:25 AM
Pentachlorophenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Phenol	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Total Phenol (Calculated)	ND	0.0129	0.0344		mg/Kg-dry	1	03/29/13 03:25 AM
Surr: 2,4,6-Tribromophenol	78.0	0	45-126		%REC	1	03/29/13 03:25 AM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	1	03/29/13 03:25 AM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 10-12'
Lab ID: 1303223-20
Collection Date: 03/23/13 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: AJR		
Surr: 2-Fluorophenol	76.0	0	37-125		%REC	1	03/29/13 03:25 AM
Surr: 4-Terphenyl-d14	73.0	0	45-125		%REC	1	03/29/13 03:25 AM
Surr: Nitrobenzene-d5	72.0	0	45-125		%REC	1	03/29/13 03:25 AM
Surr: Phenol-d6	74.0	0	40-125		%REC	1	03/29/13 03:25 AM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1221	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1232	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1242	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1248	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1254	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Aroclor 1260	ND	0.0216	0.0431		mg/Kg-dry	1	03/29/13 03:44 AM
Surr: 2-Fluorobiphenyl	61.1	0	43-125		%REC	1	03/29/13 03:44 AM
Surr: 4-Terphenyl-d14	76.9	0	32-125		%REC	1	03/29/13 03:44 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Toluene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Carbon tetrachloride	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,2-Dichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1-Dichloroethylene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Tetrachloroethylene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Trichloroethylene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Ethylbenzene	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Total Xylenes	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Methylene chloride	ND	0.00480	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Chloroform	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1-Dichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Ethylene bromide	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1,1-Trichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1,2-Trichloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
1,1,2,2-Tetrachloroethane	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Vinyl chloride	ND	0.000960	0.00480		mg/Kg-dry	1	03/28/13 08:24 PM
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 08:24 PM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	1	03/28/13 08:24 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	1	03/28/13 08:24 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	03/28/13 08:24 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303223

Client Sample ID: SB-9 10-12'
Lab ID: 1303223-20
Collection Date: 03/23/13 09:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	6.45	12.9	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.189	0.471		mg/Kg-dry	1	03/28/13 04:50 PM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	29.6	6.61	6.61		mg/Kg-dry	1	03/28/13 02:43 PM
Fluoride	3.65	1.32	1.32		mg/Kg-dry	1	03/28/13 02:43 PM
Nitrate-N	ND	6.61	6.61		mg/Kg-dry	1	03/28/13 02:43 PM
Sulfate	26.9	13.2	13.2		mg/Kg-dry	1	03/28/13 02:43 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: JCG
pH	8.57	0	0		pH Units	1	03/27/13 10:15 AM
PERCENT MOISTURE		D2216					Analyst: MK
Percent Moisture	24.8	0	0		WT%	1	03/28/13 11:10 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates

ANALYTICAL QC SUMMARY REPORT

Work Order: 1303223

Project: R360 Artesia Landfarm

RunID: CETAC_HG_130402A

The QC data in batch 56622 applies to the following samples: 1303223-02C, 1303223-03C, 1303223-04C, 1303223-06C, 1303223-07C, 1303223-08C, 1303223-09C, 1303223-11C, 1303223-12C, 1303223-13C, 1303223-14C, 1303223-15C, 1303223-17C, 1303223-18C, 1303223-19C, 1303223-20C

Sample ID: MB-56622	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg
SampType: MBLK	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 12:59:51 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.0400								

Sample ID: LCS-56622	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg
SampType: LCS	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:01:53 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.207	0.0400	0.2000	0	104	85	115			

Sample ID: LCSD-56622	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg
SampType: LCSD	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:03:55 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.209	0.0400	0.2000	0	104	85	115	0.962	25	

Sample ID: 1303223-18C SD	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg-dry
SampType: SD	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:08:00 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.176	0	0				0	10	

Sample ID: 1303223-18C PDS	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg-dry
SampType: PDS	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:10:01 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.217	0.0351	0.2195	0	98.8	85	115			

Sample ID: 1303223-18C MS	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MS	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:12:04 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.192	0.0348	0.1742	0	110	80	120			

Sample ID: 1303223-18C MSD	Batch ID: 56622	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MSD	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:14:06 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.192	0.0347	0.1733	0	111	80	120	0.083	25	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130402A

Sample ID: ICV-130402	Batch ID: R65623	TestNo: SW7471B	Units: mg/Kg
SampType: ICV	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 12:55:45 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00404	0.0400	0.004000	0	101	90	110			
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Sample ID: CCV1-130402	Batch ID: R65623	TestNo: SW7471B	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:20:53 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00193	0.0400	0.002000	0	96.5	90	110			
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Sample ID: CCV2-130402	Batch ID: R65623	TestNo: SW7471B	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:45:31 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00207	0.0400	0.002000	0	104	90	110			
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Sample ID: CCV3-130402	Batch ID: R65623	TestNo: SW7471B	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_130402A	Analysis Date: 4/2/2013 1:55:49 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00202	0.0400	0.002000	0	101	90	110			
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Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130327A

The QC data in batch 56621 applies to the following samples: 1303223-02C, 1303223-03C, 1303223-04C, 1303223-06C, 1303223-07C, 1303223-08C, 1303223-09C, 1303223-11C, 1303223-12C, 1303223-13C, 1303223-14C, 1303223-15C, 1303223-17C, 1303223-18C, 1303223-19C, 1303223-20C

Sample ID: MB-56621	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 1:48:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Iron	ND	12.5								
Lead	ND	0.300								
Manganese	ND	2.00								
Selenium	ND	0.500								
Silver	ND	0.200								
Zinc	ND	2.50								

Sample ID: LCS-56621	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 1:54:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.1	1.00	50.00	0	96.2	80	120			
Barium	49.0	2.00	50.00	0	98.0	80	120			
Cadmium	47.9	0.300	50.00	0	95.9	80	120			
Iron	249	12.5	250.0	0	99.4	80	120			
Lead	51.3	0.300	50.00	0	103	80	120			
Manganese	49.2	2.00	50.00	0	98.5	80	120			
Selenium	47.0	0.500	50.00	0	94.0	80	120			
Silver	51.9	0.200	50.00	0	104	80	120			
Zinc	45.8	2.50	50.00	0	91.6	80	120			

Sample ID: LCSD-56621	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg
SampType: LCSD	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 2:00:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.4	1.00	50.00	0	94.9	80	120	1.36	20	
Barium	44.8	2.00	50.00	0	89.6	80	120	8.90	20	
Cadmium	44.1	0.300	50.00	0	88.2	80	120	8.37	20	
Iron	248	12.5	250.0	0	99.2	80	120	0.232	20	
Lead	49.7	0.300	50.00	0	99.4	80	120	3.17	20	
Manganese	47.4	2.00	50.00	0	94.9	80	120	3.78	20	
Selenium	46.4	0.500	50.00	0	92.8	80	120	1.34	20	
Silver	47.5	0.200	50.00	0	95.0	80	120	8.85	20	
Zinc	45.2	2.50	50.00	0	90.4	80	120	1.32	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130327A

Sample ID: 1303223-18C SD	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 2:19:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	4.55	0	1.501				0	10	
Barium	19.4	9.11	0	20.86				7.35	10	
Cadmium	0	1.37	0	0				0	10	
Lead	2.53	1.37	0	2.575				1.60	10	
Manganese	43.8	9.11	0	42.56				2.82	10	
Selenium	0	2.28	0	0.5895				0	10	
Silver	0	0.911	0	0				0	10	
Zinc	10.7	11.4	0	9.771				8.85	10	

Sample ID: 1303223-18C PDS	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 3:21:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	40.8	0.911	45.54	1.501	86.2	80	120			
Barium	62.8	1.82	45.54	20.86	92.0	80	120			
Cadmium	40.5	0.273	45.54	0	88.8	80	120			
Lead	46.9	0.273	45.54	2.575	97.4	80	120			
Manganese	80.2	1.82	45.54	42.56	82.7	80	120			
Selenium	39.6	0.455	45.54	0.5895	85.6	80	120			
Silver	42.4	0.182	45.54	0	93.1	80	120			
Zinc	47.0	2.28	45.54	9.771	81.6	80	120			

Sample ID: 1303223-18C MS	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 3:27:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	44.5	0.919	45.95	1.501	93.5	80	120			
Barium	64.0	1.84	45.95	20.86	94.0	80	120			
Cadmium	41.6	0.276	45.95	0	90.6	80	120			
Iron	5060	11.5	229.7	4802	111	80	120			
Lead	50.0	0.276	45.95	2.575	103	80	120			
Manganese	81.3	1.84	45.95	42.56	84.2	80	120			
Selenium	42.8	0.459	45.95	0.5895	91.9	80	120			
Silver	44.7	0.184	45.95	0	97.3	80	120			
Zinc	50.5	2.30	45.95	9.771	88.6	80	120			

Sample ID: 1303223-18C MSD	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 3:33:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	44.8	0.927	46.36	1.501	93.3	80	120	0.630	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130327A

Sample ID: 1303223-18C MSD	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 3:33:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	65.2	1.85	46.36	20.86	95.7	80	120	1.78	20	
Cadmium	42.2	0.278	46.36	0	91.0	80	120	1.27	20	
Iron	5170	11.6	231.8	4802	158	80	120	2.15	20	S
Lead	50.9	0.278	46.36	2.575	104	80	120	1.80	20	
Manganese	84.3	1.85	46.36	42.56	90.1	80	120	3.70	20	
Selenium	43.1	0.464	46.36	0.5895	91.7	80	120	0.674	20	
Silver	45.1	0.185	46.36	0	97.2	80	120	0.837	20	
Zinc	50.9	2.32	46.36	9.771	88.8	80	120	0.889	20	

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130327A

Sample ID: ILCVL-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130327A	Analysis Date: 3/27/2013 1:29:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00542	0.00500	0.00500	0	108	70	130			
Barium	0.00485	0.0100	0.00500	0	97.0	70	130			
Cadmium	0.00103	0.00100	0.00100	0	103	70	130			
Chromium	0.00516	0.00500	0.00500	0	103	70	130			
Copper	0.00548	0.0100	0.00500	0	110	70	130			
Iron	0.114	0.100	0.100	0	114	70	130			
Lead	0.000989	0.00100	0.00100	0	98.9	70	130			
Manganese	0.00544	0.0100	0.00500	0	109	70	130			
Selenium	0.00550	0.00500	0.00500	0	110	70	130			
Silver	0.00199	0.00200	0.00200	0	99.3	70	130			
Zinc	0.00566	0.00500	0.00500	0	113	70	130			

Sample ID: LCVL4-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 1:29:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00527	0.00500	0.00500	0	105	70	130			
Barium	0.00482	0.0100	0.00500	0	96.5	70	130			
Cadmium	0.000952	0.00100	0.00100	0	95.2	70	130			
Iron	0.110	0.100	0.100	0	110	70	130			
Lead	0.000950	0.00100	0.00100	0	95.0	70	130			
Manganese	0.00507	0.0100	0.00500	0	101	70	130			
Selenium	0.00510	0.00500	0.00500	0	102	70	130			
Silver	0.00187	0.00200	0.00200	0	93.6	70	130			
Zinc	0.00504	0.00500	0.00500	0	101	70	130			

Sample ID: LCVL5-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 4:23:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00556	0.00500	0.00500	0	111	70	130			
Barium	0.00506	0.0100	0.00500	0	101	70	130			
Cadmium	0.00108	0.00100	0.00100	0	108	70	130			
Iron	0.107	0.100	0.100	0	107	70	130			
Lead	0.00102	0.00100	0.00100	0	102	70	130			
Manganese	0.00553	0.0100	0.00500	0	111	70	130			
Selenium	0.00558	0.00500	0.00500	0	112	70	130			
Silver	0.00203	0.00200	0.00200	0	101	70	130			
Zinc	0.00553	0.00500	0.00500	0	111	70	130			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130327A

Sample ID: LCVL6-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 6:03:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00545	0.00500	0.00500	0	109	70	130			
Barium	0.00498	0.0100	0.00500	0	99.5	70	130			
Cadmium	0.000971	0.00100	0.00100	0	97.1	70	130			
Lead	0.000999	0.00100	0.00100	0	99.9	70	130			
Manganese	0.00525	0.0100	0.00500	0	105	70	130			
Selenium	0.00563	0.00500	0.00500	0	113	70	130			
Silver	0.00199	0.00200	0.00200	0	99.4	70	130			
Zinc	0.00525	0.00500	0.00500	0	105	70	130			

Sample ID: ICV2-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130327A	Analysis Date: 3/27/2013 4:29:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0987	0.00500	0.100	0	98.7	90	110			
Barium	0.0914	0.0100	0.100	0	91.4	90	110			
Cadmium	0.0944	0.00100	0.100	0	94.4	90	110			
Chromium	0.0936	0.00500	0.100	0	93.6	90	110			
Copper	0.0970	0.0100	0.100	0	97.0	90	110			
Iron	2.50	0.100	2.50	0	99.8	90	110			
Lead	0.0918	0.00100	0.100	0	91.8	90	110			
Manganese	0.0994	0.0100	0.100	0	99.4	90	110			
Selenium	0.104	0.00500	0.100	0	104	90	110			
Silver	0.0917	0.00200	0.100	0	91.7	90	110			
Zinc	0.103	0.00500	0.100	0	103	90	110			

Sample ID: CCV4-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 12:20:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0	101	90	110			
Barium	0.182	0.0100	0.200	0	91.2	90	110			
Cadmium	0.184	0.00100	0.200	0	92.0	90	110			
Iron	4.68	0.100	5.00	0	93.6	90	110			
Lead	0.201	0.00100	0.200	0	100	90	110			
Manganese	0.196	0.0100	0.200	0	98.2	90	110			
Selenium	0.210	0.00500	0.200	0	105	90	110			
Silver	0.192	0.00200	0.200	0	95.8	90	110			
Zinc	0.195	0.00500	0.200	0	97.5	90	110			

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130327A

Sample ID: CCV5-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 3:39:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.201	0.00500	0.200	0	101	90	110			
Barium	0.181	0.0100	0.200	0	90.4	90	110			
Cadmium	0.184	0.00100	0.200	0	92.0	90	110			
Iron	4.73	0.100	5.00	0	94.6	90	110			
Lead	0.203	0.00100	0.200	0	102	90	110			
Manganese	0.196	0.0100	0.200	0	98.2	90	110			
Selenium	0.209	0.00500	0.200	0	105	90	110			
Silver	0.193	0.00200	0.200	0	96.5	90	110			
Zinc	0.192	0.00500	0.200	0	96.2	90	110			

Sample ID: CCV6-130327	Batch ID: R65526	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130327A	Analysis Date: 3/28/2013 5:19:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.194	0.0100	0.200	0	97.0	90	110			
Cadmium	0.192	0.00100	0.200	0	96.0	90	110			
Lead	0.200	0.00100	0.200	0	100	90	110			
Manganese	0.195	0.0100	0.200	0	97.3	90	110			
Selenium	0.209	0.00500	0.200	0	104	90	110			
Silver	0.201	0.00200	0.200	0	100	90	110			
Zinc	0.194	0.00500	0.200	0	96.8	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130329A

The QC data in batch 56621 applies to the following samples: 1303223-02C, 1303223-03C, 1303223-04C, 1303223-06C, 1303223-07C, 1303223-08C, 1303223-09C, 1303223-11C, 1303223-12C, 1303223-13C, 1303223-14C, 1303223-15C, 1303223-17C, 1303223-18C, 1303223-19C, 1303223-20C

Sample ID: 1303223-18C SD	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS3_130329A	Analysis Date: 3/29/2013 11:03:00 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0	91.1	0	4.996				0	10	
Copper	0	91.1	0	0				0	10	
Iron	5460	569	0	5435				0.376	10	

Sample ID: 1303223-18C PDS	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 12:05:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	430	18.2	455.4	4.996	93.4	80	120			
Copper	450	18.2	455.4	0	98.8	80	120			
Iron	17100	114	11390	5435	102	80	120			

Sample ID: MB-56621	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 3:16:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	ND	2.00								
Copper	ND	2.00								

Sample ID: LCS-56621	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 3:22:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	51.0	2.00	50.00	0	102	80	120			
Copper	50.5	2.00	50.00	0	101	80	120			

Sample ID: LCSD-56621	Batch ID: 56621	TestNo: SW6020A	Units: mg/Kg
SampType: LCSD	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 3:28:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	45.5	2.00	50.00	0	91.0	80	120	11.4	20	
Copper	47.1	2.00	50.00	0	94.2	80	120	6.97	20	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130329A

Sample ID: ILCVL-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130329A	Analysis Date: 3/29/2013 12:47:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00524	0.00500	0.00500	0	105	70	130			
Copper	0.00545	0.0100	0.00500	0	109	70	130			
Iron	0.115	0.100	0.100	0	115	70	130			

Sample ID: LCVL4-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130329A	Analysis Date: 3/29/2013 10:38:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00479	0.00500	0.00500	0	95.9	70	130			
Copper	0.00519	0.0100	0.00500	0	104	70	130			
Iron	0.107	0.100	0.100	0	107	70	130			

Sample ID: LCVL5-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 1:19:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00522	0.00500	0.00500	0	104	70	130			
Copper	0.00575	0.0100	0.00500	0	115	70	130			
Iron	0.113	0.100	0.100	0	113	70	130			

Sample ID: LCVL6-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 2:57:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00492	0.00500	0.00500	0	98.5	70	130			
Copper	0.00549	0.0100	0.00500	0	110	70	130			
Iron	0.108	0.100	0.100	0	108	70	130			

Sample ID: LCVL7-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 5:37:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00490	0.00500	0.00500	0	98.0	70	130			
Copper	0.00536	0.0100	0.00500	0	107	70	130			

Sample ID: ICV1-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130329A	Analysis Date: 3/29/2013 12:28:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.0977	0.00500	0.100	0	97.7	90	110			
Copper	0.102	0.0100	0.100	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130329A

Sample ID: ICV1-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L							
SampType: ICV	Run ID: ICP-MS3_130329A	Analysis Date: 3/29/2013 12:28:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	2.60	0.100	2.50	0	104	90	110			

Sample ID: CCV4-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130329A	Analysis Date: 3/29/2013 9:55:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.189	0.00500	0.200	0	94.3	90	110			
Copper	0.196	0.0100	0.200	0	98.1	90	110			
Iron	5.00	0.100	5.00	0	100	90	110			

Sample ID: CCV5-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 12:48:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.191	0.00500	0.200	0	95.3	90	110			
Copper	0.197	0.0100	0.200	0	98.4	90	110			
Iron	4.92	0.100	5.00	0	98.4	90	110			

Sample ID: CCV6-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 2:26:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.198	0.00500	0.200	0	99.2	90	110			
Copper	0.203	0.0100	0.200	0	102	90	110			
Iron	5.15	0.100	5.00	0	103	90	110			

Sample ID: CCV7-130329	Batch ID: R65589	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130329A	Analysis Date: 3/30/2013 4:54:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.195	0.00500	0.200	0	97.4	90	110			
Copper	0.199	0.0100	0.200	0	99.3	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130401B

Sample ID: ILCVL-130401	Batch ID: R65608	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130401B	Analysis Date: 4/1/2013 11:49:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00535	0.00500	0.00500	0	107	70	130			
Copper	0.00586	0.0100	0.00500	0	117	70	130			

Sample ID: LCVL1-130401	Batch ID: R65608	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130401B	Analysis Date: 4/1/2013 2:35:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00525	0.00500	0.00500	0	105	70	130			
Copper	0.00556	0.0100	0.00500	0	111	70	130			

Sample ID: LCVL2-130401	Batch ID: R65608	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130401B	Analysis Date: 4/1/2013 5:20:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.00508	0.00500	0.00500	0	102	70	130			
Copper	0.00543	0.0100	0.00500	0	109	70	130			

Sample ID: ICV1-130401	Batch ID: R65608	TestNo: SW6020A	Units: mg/L							
SampType: ICV	Run ID: ICP-MS3_130401B	Analysis Date: 4/1/2013 11:36:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.101	0.00500	0.100	0	101	90	110			
Copper	0.105	0.0100	0.100	0	105	90	110			

Sample ID: CCV1-130401	Batch ID: R65608	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130401B	Analysis Date: 4/1/2013 2:10:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.203	0.00500	0.200	0	102	90	110			
Copper	0.208	0.0100	0.200	0	104	90	110			

Sample ID: CCV2-130401	Batch ID: R65608	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130401B	Analysis Date: 4/1/2013 4:49:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.182	0.00500	0.200	0	91.2	90	110			
Copper	0.188	0.0100	0.200	0	93.8	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130328A

The QC data in batch 56656 applies to the following samples: 1303223-02C, 1303223-03C, 1303223-04C, 1303223-06C, 1303223-07C, 1303223-08C, 1303223-09C, 1303223-11C, 1303223-12C, 1303223-13C, 1303223-14C, 1303223-15C, 1303223-17C, 1303223-18C, 1303223-19C, 1303223-20C

Sample ID: LCS-56656	Batch ID: 56656	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS8_130328A	Analysis Date: 3/28/2013 6:26:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.852	0.0500	1.000	0	85.2	41	138			
Aroclor 1260	0.916	0.0500	1.000	0	91.7	61	131			
Surr: 2-Fluorobiphenyl	0.630		1.000		63.0	43	125			
Surr: 4-Terphenyl-d14	0.784		1.000		78.4	32	125			

Sample ID: 1303223-03CMS	Batch ID: 56656	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS8_130328A	Analysis Date: 3/28/2013 6:57:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.580	0.0338	0.6755	0	85.8	41	138			
Aroclor 1260	0.606	0.0338	0.6755	0	89.7	61	131			
Surr: 2-Fluorobiphenyl	0.447		0.6755		66.2	43	125			
Surr: 4-Terphenyl-d14	0.530		0.6755		78.4	32	125			

Sample ID: 1303223-03CMSD	Batch ID: 56656	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS8_130328A	Analysis Date: 3/28/2013 7:28:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.617	0.0333	0.6656	0	92.7	41	138	6.29	50	
Aroclor 1260	0.691	0.0333	0.6656	0	104	61	131	13.1	50	
Surr: 2-Fluorobiphenyl	0.488		0.6656		73.4	43	125	0	0	
Surr: 4-Terphenyl-d14	0.578		0.6656		86.8	32	125	0	0	

Sample ID: MB-56656	Batch ID: 56656	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS8_130328A	Analysis Date: 3/28/2013 8:30:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500								
Aroclor 1221	ND	0.0500								
Aroclor 1232	ND	0.0500								
Aroclor 1242	ND	0.0500								
Aroclor 1248	ND	0.0500								
Aroclor 1254	ND	0.0500								
Aroclor 1260	ND	0.0500								
Surr: 2-Fluorobiphenyl	0.714		1.000		71.4	43	125			
Surr: 4-Terphenyl-d14	0.857		1.000		85.7	32	125			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130328A

Sample ID: ICV-130328	Batch ID: R65577	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS8_130328A	Analysis Date: 3/28/2013 5:55:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.14	0.0500	2.000	0	107	80	120			
Aroclor 1260	2.21	0.0500	2.000	0	111	80	120			
Surr: 2-Fluorobiphenyl	1.80		2.000		90.0	80	120			
Surr: 4-Terphenyl-d14	2.00		2.000		99.9	80	120			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130328A

The QC data in batch 56654 applies to the following samples: 1303223-02C, 1303223-03C, 1303223-04C, 1303223-06C, 1303223-07C, 1303223-08C, 1303223-09C, 1303223-11C, 1303223-12C, 1303223-13C, 1303223-14C, 1303223-15C, 1303223-17C, 1303223-18C, 1303223-19C, 1303223-20C

Sample ID: LCS-56654	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 8:28:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.13	0.0266	1.340	0	84.2	40	125			N
2,3,4,6-Tetrachlorophenol	1.20	0.0266	1.340	0	89.7	40	125			
2,4,5-Trichlorophenol	1.16	0.0266	1.340	0	86.5	49	125			
2,4,6-Trichlorophenol	1.19	0.0266	1.340	0	89.1	43	125			
2,4-Dichlorophenol	1.12	0.0266	1.340	0	83.3	45	125			
2,4-Dimethylphenol	1.17	0.0266	1.340	0	87.4	32	125			
2,4-Dinitrophenol	1.29	0.132	1.340	0	96.4	25	132			
2,6-Dichlorophenol	1.17	0.0266	1.340	0	87.0	38	125			
2-Chlorophenol	1.11	0.0266	1.340	0	83.0	44	125			
2-Methylnaphthalene	1.10	0.0266	1.340	0	82.1	47	125			
2-Methylphenol	1.15	0.0266	1.340	0	85.8	40	125			
2-Nitrophenol	1.17	0.0266	1.340	0	87.1	42	125			
4,6-Dinitro-2-methylphenol	1.25	0.0660	1.340	0	93.6	29	137			
4-Chloro-3-methylphenol	1.16	0.0266	1.340	0	86.3	46	125			
4-Methylphenol	1.09	0.0266	1.340	0	81.1	41	125			
4-Nitrophenol	1.32	0.132	1.340	0	98.5	25	138			
Benzo[a]pyrene	1.27	0.0266	1.340	0	94.6	50	125			
Naphthalene	1.09	0.0266	1.340	0	81.6	40	125			
Pentachlorophenol	1.38	0.0266	1.340	0	103	25	125			
Phenol	1.02	0.0266	1.340	0	76.3	25	125			
Total Phenol (Calculated)	17.8	0.0266	21.44	0	83.2	25	125			
Surr: 2,4,6-Tribromophenol	0.633		0.6670		95.0	45	138			
Surr: 2-Fluorobiphenyl	0.567		0.6670		85.0	60	135			
Surr: 2-Fluorophenol	0.620		0.6670		93.0	37	125			
Surr: 4-Terphenyl-d14	0.620		0.6670		93.0	60	129			
Surr: Nitrobenzene-d5	0.607		0.6670		91.0	45	125			
Surr: Phenol-d6	0.580		0.6670		87.0	40	125			

Sample ID: 1303223-03CMS	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 8:52:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.09	0.0265	1.334	0	81.5	40	125			N
2,3,4,6-Tetrachlorophenol	1.15	0.0265	1.334	0	85.9	40	125			
2,4,5-Trichlorophenol	1.10	0.0265	1.334	0	82.3	49	125			
2,4,6-Trichlorophenol	1.14	0.0265	1.334	0	85.3	43	125			
2,4-Dichlorophenol	1.07	0.0265	1.334	0	79.9	45	125			
2,4-Dimethylphenol	1.18	0.0265	1.334	0	88.1	32	125			
2,4-Dinitrophenol	0.754	0.131	1.334	0	56.5	25	132			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130328A

Sample ID: 1303223-03CMS	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 8:52:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,6-Dichlorophenol	1.13	0.0265	1.334	0	84.4	38	125			
2-Chlorophenol	1.03	0.0265	1.334	0	76.9	44	125			
2-Methylnaphthalene	1.06	0.0265	1.334	0	79.7	47	125			
2-Methylphenol	1.02	0.0265	1.334	0	76.2	40	125			
2-Nitrophenol	1.08	0.0265	1.334	0	80.9	42	125			
4,6-Dinitro-2-methylphenol	0.994	0.0657	1.334	0	74.5	29	137			
4-Chloro-3-methylphenol	1.11	0.0265	1.334	0	83.2	46	125			
4-Methylphenol	0.963	0.0265	1.334	0	72.1	41	125			
4-Nitrophenol	1.27	0.131	1.334	0	95.0	25	138			
Benzo[a]pyrene	1.25	0.0265	1.334	0	93.9	50	125			
Naphthalene	1.04	0.0265	1.334	0	77.9	40	125			
Pentachlorophenol	1.29	0.0265	1.334	0	96.6	25	125			
Phenol	0.905	0.0265	1.334	0	67.9	25	125			
Total Phenol (Calculated)	16.1	0.0265	21.35	0	75.6	25	125			
Surr: 2,4,6-Tribromophenol	0.597		0.6642		90.0	45	138			
Surr: 2-Fluorobiphenyl	0.538		0.6642		81.0	60	135			
Surr: 2-Fluorophenol	0.604		0.6642		91.0	37	125			
Surr: 4-Terphenyl-d14	0.591		0.6642		89.0	60	129			
Surr: Nitrobenzene-d5	0.571		0.6642		86.0	45	125			
Surr: Phenol-d6	0.511		0.6642		77.0	40	125			

Sample ID: 1303223-03CMSD	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 9:15:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.04	0.0273	1.376	0	75.5	40	125	4.68	30	N
2,3,4,6-Tetrachlorophenol	1.14	0.0273	1.376	0	82.6	40	125	0.900	30	
2,4,5-Trichlorophenol	1.08	0.0273	1.376	0	78.2	49	125	2.15	30	
2,4,6-Trichlorophenol	1.10	0.0273	1.376	0	80.3	43	125	3.01	30	
2,4-Dichlorophenol	1.04	0.0273	1.376	0	75.4	45	125	2.78	30	
2,4-Dimethylphenol	1.13	0.0273	1.376	0	81.8	32	125	4.33	30	
2,4-Dinitrophenol	0.674	0.136	1.376	0	49.0	25	132	11.2	30	
2,6-Dichlorophenol	1.10	0.0273	1.376	0	79.6	38	125	2.83	30	
2-Chlorophenol	1.05	0.0273	1.376	0	76.4	44	125	2.41	30	
2-Methylnaphthalene	1.02	0.0273	1.376	0	74.0	47	125	4.26	30	
2-Methylphenol	1.09	0.0273	1.376	0	78.9	40	125	6.58	30	
2-Nitrophenol	1.04	0.0273	1.376	0	75.6	42	125	3.81	30	
4,6-Dinitro-2-methylphenol	0.943	0.0678	1.376	0	68.5	29	137	5.36	30	
4-Chloro-3-methylphenol	1.10	0.0273	1.376	0	80.2	46	125	0.595	30	
4-Methylphenol	1.02	0.0273	1.376	0	74.1	41	125	5.78	30	
4-Nitrophenol	1.22	0.136	1.376	0	88.4	25	138	4.22	30	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130328A

Sample ID: 1303223-03CMSD	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 9:15:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo[a]pyrene	1.12	0.0273	1.376	0	81.6	50	125	11.0	30	
Naphthalene	1.00	0.0273	1.376	0	72.8	40	125	3.61	30	
Pentachlorophenol	1.27	0.0273	1.376	0	92.0	25	125	1.80	30	
Phenol	0.962	0.0273	1.376	0	69.9	25	125	6.02	30	
Total Phenol (Calculated)	15.9	0.0273	22.01	0	72.2	25	125	1.56	30	
Surr: 2,4,6-Tribromophenol	0.602		0.6848		88.0	45	138	0	0	
Surr: 2-Fluorobiphenyl	0.520		0.6848		76.0	60	135	0	0	
Surr: 2-Fluorophenol	0.575		0.6848		84.0	37	125	0	0	
Surr: 4-Terphenyl-d14	0.527		0.6848		77.0	60	129	0	0	
Surr: Nitrobenzene-d5	0.548		0.6848		80.0	45	125	0	0	
Surr: Phenol-d6	0.534		0.6848		78.0	40	125	0	0	

Sample ID: MB-56654	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 10:01:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.0266								N
2,3,4,6-Tetrachlorophenol	ND	0.0266								
2,4,5-Trichlorophenol	ND	0.0266								
2,4,6-Trichlorophenol	ND	0.0266								
2,4-Dichlorophenol	ND	0.0266								
2,4-Dimethylphenol	ND	0.0266								
2,4-Dinitrophenol	ND	0.132								
2,6-Dichlorophenol	ND	0.0266								
2-Chlorophenol	ND	0.0266								
2-Methylnaphthalene	ND	0.0266								
2-Methylphenol	ND	0.0266								
2-Nitrophenol	ND	0.0266								
4,6-Dinitro-2-methylphenol	ND	0.0660								
4-Chloro-3-methylphenol	ND	0.0266								
4-Methylphenol	ND	0.0266								
4-Nitrophenol	ND	0.132								
Benzo[a]pyrene	ND	0.0266								
Naphthalene	ND	0.0266								
Pentachlorophenol	ND	0.0266								
Phenol	ND	0.0266								
Total Phenol (Calculated)	ND	0.0266								
Surr: 2,4,6-Tribromophenol	0.487		0.6670		73.0	45	138			
Surr: 2-Fluorobiphenyl	0.533		0.6670		80.0	60	135			
Surr: 2-Fluorophenol	0.580		0.6670		87.0	37	125			
Surr: 4-Terphenyl-d14	0.567		0.6670		85.0	60	129			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130328A

Sample ID: MB-56654	Batch ID: 56654	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 10:01:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Nitrobenzene-d5	0.547		0.6670		82.0	45	125			
Surr: Phenol-d6	0.560		0.6670		84.0	40	125			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130328A

Sample ID: ICV2-130328	Batch ID: R65565	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS9_130328A	Analysis Date: 3/28/2013 8:05:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.45	0.0266	4.000	0	86.4	80	120			N
2,3,4,6-Tetrachlorophenol	3.69	0.0266	4.000	0	92.3	80	120			
2,4,5-Trichlorophenol	3.57	0.0266	4.000	0	89.3	80	120			
2,4,6-Trichlorophenol	3.47	0.0266	4.000	0	86.8	80	120			
2,4-Dichlorophenol	3.46	0.0266	4.000	0	86.4	80	120			
2,4-Dimethylphenol	3.77	0.0266	4.000	0	94.3	80	120			
2,4-Dinitrophenol	2.91	0.132	4.000	0	72.9	80	120			S
2,6-Dichlorophenol	3.66	0.0266	4.000	0	91.4	80	120			
2-Chlorophenol	3.56	0.0266	4.000	0	89.0	80	120			
2-Methylnaphthalene	3.39	0.0266	4.000	0	84.8	80	120			
2-Methylphenol	3.65	0.0266	4.000	0	91.4	80	120			
2-Nitrophenol	3.61	0.0266	4.000	0	90.2	80	120			
4,6-Dinitro-2-methylphenol	3.32	0.0660	4.000	0	83.1	80	120			
4-Chloro-3-methylphenol	3.49	0.0266	4.000	0	87.3	80	120			
4-Methylphenol	3.20	0.0266	4.000	0	79.9	80	120			
4-Nitrophenol	3.71	0.132	4.000	0	92.7	80	120			
Benzo[a]pyrene	3.65	0.0266	4.000	0	91.2	80	120			
Naphthalene	3.39	0.0266	4.000	0	84.7	80	120			
Pentachlorophenol	3.88	0.0266	4.000	0	97.1	80	120			
Phenol	3.24	0.0266	4.000	0	81.0	80	120			
Total Phenol (Calculated)	52.6	0.0266	0							
Surr: 2,4,6-Tribromophenol	3.79		4.000		94.8	80	120			
Surr: 2-Fluorobiphenyl	3.33		4.000		83.2	80	120			
Surr: 2-Fluorophenol	3.58		4.000		89.5	80	120			
Surr: 4-Terphenyl-d14	3.72		4.000		93.0	80	120			
Surr: Nitrobenzene-d5	4.00		4.000		100	80	120			
Surr: Phenol-d6	3.58		4.000		89.5	80	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_130328A

The QC data in batch 56668 applies to the following samples: 1303223-02A, 1303223-03A, 1303223-04A, 1303223-06A, 1303223-07A, 1303223-08A, 1303223-09A, 1303223-11A, 1303223-12A, 1303223-13A, 1303223-14A, 1303223-15A, 1303223-17A, 1303223-18A, 1303223-19A, 1303223-20A

Sample ID: LCS-56668	Batch ID: 56668	TestNo: SW8260C	Units: mg/Kg
SampType: LCS	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 11:05:00 AM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0223	0.00500	0.0232	0	96.3	68	130			
1,1,2,2-Tetrachloroethane	0.0237	0.00500	0.0232	0	102	59	140			
1,1,2-Trichloroethane	0.0241	0.00500	0.0232	0	104	62	127			
1,1-Dichloroethane	0.0220	0.00500	0.0232	0	94.9	73	125			
1,1-Dichloroethylene	0.0207	0.00500	0.0232	0	89.4	65	136			
1,2-Dichloroethane	0.0234	0.00500	0.0232	0	101	72	137			
Benzene	0.0222	0.00500	0.0232	0	95.7	75	125			
Carbon tetrachloride	0.0227	0.00500	0.0232	0	98.1	67	133			
Chloroform	0.0225	0.00500	0.0232	0	97.0	72	124			
Ethylbenzene	0.0223	0.00500	0.0232	0	96.0	75	125			
Ethylene bromide	0.0239	0.00500	0.0232	0	103	70	124			
Methylene chloride	0.0210	0.00500	0.0232	0	90.6	63	137			
Tetrachloroethylene	0.0225	0.00500	0.0232	0	96.8	67	139			
Toluene	0.0221	0.00500	0.0232	0	95.1	75	125			
Trichloroethylene	0.0206	0.00500	0.0232	0	88.9	77	124			
Vinyl chloride	0.0189	0.00500	0.0232	0	81.5	58	126			
Total Xylenes	0.0677	0.00500	0.0696	0	97.3	75	125			
Surr: 1,2-Dichloroethane-d4	53.7		50.00		107	52	149			
Surr: 4-Bromofluorobenzene	50.8		50.00		102	84	118			
Surr: Dibromofluoromethane	51.8		50.00		104	65	135			
Surr: Toluene-d8	50.4		50.00		101	84	116			

Sample ID: MB-56668	Batch ID: 56668	TestNo: SW8260C	Units: mg/Kg
SampType: MBLK	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 11:40:00 AM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00500								
1,1,2,2-Tetrachloroethane	ND	0.00500								
1,1,2-Trichloroethane	ND	0.00500								
1,1-Dichloroethane	ND	0.00500								
1,1-Dichloroethylene	ND	0.00500								
1,2-Dichloroethane	ND	0.00500								
Benzene	ND	0.00500								
Carbon tetrachloride	ND	0.00500								
Chloroform	ND	0.00500								
Ethylbenzene	ND	0.00500								
Ethylene bromide	ND	0.00500								
Methylene chloride	ND	0.00500								
Tetrachloroethylene	ND	0.00500								

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_130328A

Sample ID: MB-56668	Batch ID: 56668	TestNo: SW8260C	Units: mg/Kg
SampType: MBLK	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 11:40:00 AM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	0.00500								
Trichloroethylene	ND	0.00500								
Vinyl chloride	ND	0.00500								
Total Xylenes	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	48.4		50.00		96.9	52	149			
Surr: 4-Bromofluorobenzene	51.5		50.00		103	84	118			
Surr: Dibromofluoromethane	48.4		50.00		96.7	65	135			
Surr: Toluene-d8	54.2		50.00		108	84	116			

Sample ID: 1303223-03AMS	Batch ID: 56668	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 8:55:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0181	0.00438	0.0203	0	89.1	68	130			
1,1,2,2-Tetrachloroethane	0.0166	0.00438	0.0203	0	81.8	59	140			
1,1,2-Trichloroethane	0.0198	0.00438	0.0203	0	97.3	62	127			
1,1-Dichloroethane	0.0178	0.00438	0.0203	0	87.6	73	125			
1,1-Dichloroethylene	0.0164	0.00438	0.0203	0	80.5	65	136			
1,2-Dichloroethane	0.0191	0.00438	0.0203	0	93.9	72	137			
Benzene	0.0180	0.00438	0.0203	0	88.7	73	126			
Carbon tetrachloride	0.0181	0.00438	0.0203	0	89.1	67	133			
Chloroform	0.0186	0.00438	0.0203	0	91.6	72	124			
Ethylbenzene	0.0189	0.00438	0.0203	0	93.2	74	127			
Ethylene bromide	0.0185	0.00438	0.0203	0	91.0	70	124			
Methylene chloride	0.0162	0.00438	0.0203	0	79.6	63	137			
Tetrachloroethylene	0.0187	0.00438	0.0203	0	92.0	67	139			
Toluene	0.0190	0.00438	0.0203	0	93.2	71	127			
Trichloroethylene	0.0183	0.00438	0.0203	0	89.8	77	124			
Vinyl chloride	0.0161	0.00438	0.0203	0	79.0	58	126			
Total Xylenes	0.0564	0.00438	0.0610	0	92.4	75	125			
Surr: 1,2-Dichloroethane-d4	44.4		43.84		101	52	149			
Surr: 4-Bromofluorobenzene	42.3		43.84		96.4	84	118			
Surr: Dibromofluoromethane	42.7		43.84		97.4	65	135			
Surr: Toluene-d8	41.8		43.84		95.4	84	116			

Sample ID: 1303223-03AMSD	Batch ID: 56668	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 9:27:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0180	0.00443	0.0205	0	87.7	68	130	0.550	30	
1,1,2,2-Tetrachloroethane	0.0171	0.00443	0.0205	0	83.3	59	140	2.89	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_130328A

Sample ID: 1303223-03AMSD	Batch ID: 56668	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 9:27:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	0.0197	0.00443	0.0205	0	96.0	62	127	0.380	30	
1,1-Dichloroethane	0.0179	0.00443	0.0205	0	87.1	73	125	0.458	30	
1,1-Dichloroethylene	0.0167	0.00443	0.0205	0	81.1	65	136	1.79	30	
1,2-Dichloroethane	0.0194	0.00443	0.0205	0	94.4	72	137	1.51	30	
Benzene	0.0185	0.00443	0.0205	0	90.1	73	126	2.52	30	
Carbon tetrachloride	0.0179	0.00443	0.0205	0	87.1	67	133	1.32	30	
Chloroform	0.0187	0.00443	0.0205	0	91.2	72	124	0.502	30	
Ethylbenzene	0.0190	0.00443	0.0205	0	92.4	74	127	0.165	30	
Ethylene bromide	0.0194	0.00443	0.0205	0	94.3	70	124	4.56	30	
Methylene chloride	0.0161	0.00443	0.0205	0	78.3	63	137	0.667	30	
Tetrachloroethylene	0.0193	0.00443	0.0205	0	94.1	67	139	3.17	30	
Toluene	0.0191	0.00443	0.0205	0	92.7	71	127	0.534	30	
Trichloroethylene	0.0189	0.00443	0.0205	0	92.2	77	124	3.65	30	
Vinyl chloride	0.0158	0.00443	0.0205	0	77.0	58	126	1.53	30	
Total Xylenes	0.0571	0.00443	0.0616	0	92.6	75	125	1.23	30	
Surr: 1,2-Dichloroethane-d4	45.4		44.29		102	52	149	0	0	
Surr: 4-Bromofluorobenzene	42.5		44.29		95.9	84	118	0	0	
Surr: Dibromofluoromethane	42.3		44.29		95.4	65	135	0	0	
Surr: Toluene-d8	43.4		44.29		97.9	84	116	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_130328A

Sample ID: ICV-130328	Batch ID: R65567	TestNo: SW8260C	Units: mg/Kg
SampType: ICV	Run ID: GCMS1_130328A	Analysis Date: 3/28/2013 10:32:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0459	0.00500	0.0464	0	98.9	80	120			
1,1,2,2-Tetrachloroethane	0.0436	0.00500	0.0464	0	93.9	80	120			
1,1,2-Trichloroethane	0.0459	0.00500	0.0464	0	99.0	80	120			
1,1-Dichloroethane	0.0453	0.00500	0.0464	0	97.6	80	120			
1,1-Dichloroethylene	0.0429	0.00500	0.0464	0	92.5	80	120			
1,2-Dichloroethane	0.0452	0.00500	0.0464	0	97.5	80	120			
Benzene	0.0454	0.00500	0.0464	0	97.9	80	120			
Carbon tetrachloride	0.0467	0.00500	0.0464	0	101	80	120			
Chloroform	0.0471	0.00500	0.0464	0	101	80	120			
Ethylbenzene	0.0467	0.00500	0.0464	0	101	80	120			
Ethylene bromide	0.0467	0.00500	0.0464	0	101	80	120			
Methylene chloride	0.0430	0.00500	0.0464	0	92.7	80	120			
Tetrachloroethylene	0.0488	0.00500	0.0464	0	105	80	120			
Toluene	0.0447	0.00500	0.0464	0	96.3	80	120			
Trichloroethylene	0.0428	0.00500	0.0464	0	92.3	80	120			
Vinyl chloride	0.0380	0.00500	0.0464	0	81.8	80	120			
Total Xylenes	0.145	0.00500	0.139	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	50.6		50.00		101	52	149			
Surr: 4-Bromofluorobenzene	49.2		50.00		98.4	84	118			
Surr: Dibromofluoromethane	49.7		50.00		99.3	65	135			
Surr: Toluene-d8	49.6		50.00		99.1	84	116			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130328A

The QC data in batch 56642 applies to the following samples: 1303223-02B, 1303223-03B, 1303223-04B, 1303223-06B, 1303223-07B, 1303223-08B, 1303223-09B, 1303223-11B, 1303223-12B, 1303223-13B, 1303223-14B, 1303223-15B, 1303223-17B, 1303223-18B, 1303223-19B, 1303223-20B

Sample ID: LCS-56642	Batch ID: 56642	TestNo: E300	Units: mg/Kg
SampType: LCS	Run ID: IC2_130328A	Analysis Date: 3/28/2013 9:11:05 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	51.4	5.00	50.00	0	103	80	120			
Fluoride	20.3	1.00	20.00	0	101	80	120			
Nitrate-N	25.6	5.00	25.00	0	102	80	120			
Sulfate	149	10.0	150.0	0	99.6	80	120			

Sample ID: LCSD-56642	Batch ID: 56642	TestNo: E300	Units: mg/Kg
SampType: LCSD	Run ID: IC2_130328A	Analysis Date: 3/28/2013 9:25:39 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	51.4	5.00	50.00	0	103	80	120	0.089	20	
Fluoride	20.2	1.00	20.00	0	101	80	120	0.220	20	
Nitrate-N	25.2	5.00	25.00	0	101	80	120	1.29	20	
Sulfate	149	10.0	150.0	0	99.5	80	120	0.082	20	

Sample ID: MB-56642	Batch ID: 56642	TestNo: E300	Units: mg/Kg
SampType: MBLK	Run ID: IC2_130328A	Analysis Date: 3/28/2013 9:40:14 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	5.00								
Fluoride	ND	1.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID: 1303223-04B MS	Batch ID: 56642	TestNo: E300	Units: mg/Kg-dry
SampType: MS	Run ID: IC2_130328A	Analysis Date: 3/28/2013 11:15:53 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	20.3	1.01	20.24	0.7367	96.5	80	120			
Nitrate-N	23.8	5.06	25.31	0	94.0	80	120			
Sulfate	256	10.1	151.8	104.4	99.6	80	120			

Sample ID: 1303223-04B MSD	Batch ID: 56642	TestNo: E300	Units: mg/Kg-dry
SampType: MSD	Run ID: IC2_130328A	Analysis Date: 3/28/2013 11:30:27 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	20.0	1.01	20.24	0.7367	95.1	80	120	1.36	20	
Nitrate-N	27.2	5.06	25.31	0	107	80	120	13.4	20	
Sulfate	256	10.1	151.8	104.4	100	80	120	0.332	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130328A

Sample ID: 1303223-04B MS	Batch ID: 56642	TestNo: E300	Units: mg/Kg-dry
SampType: MS	Run ID: IC2_130328A	Analysis Date: 3/28/2013 3:41:28 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chloride	1250	50.6	506.1	731.4	102	80	120			
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Sample ID: 1303223-04B MSD	Batch ID: 56642	TestNo: E300	Units: mg/Kg-dry
SampType: MSD	Run ID: IC2_130328A	Analysis Date: 3/28/2013 3:56:02 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chloride	1250	50.6	506.1	731.4	102	80	120	0.150	20	
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Sample ID: 1303223-14B MS	Batch ID: 56642	TestNo: E300	Units: mg/Kg-dry
SampType: MS	Run ID: IC2_130328A	Analysis Date: 3/28/2013 5:52:37 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chloride	67.7	5.49	54.89	11.53	102	80	120			
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Fluoride	29.3	1.10	21.95	6.590	103	80	120			
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Nitrate-N	27.9	5.49	27.44	0	102	80	120			
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Sulfate	199	11.0	164.7	34.99	99.4	80	120			
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Sample ID: 1303223-14B MSD	Batch ID: 56642	TestNo: E300	Units: mg/Kg-dry
SampType: MSD	Run ID: IC2_130328A	Analysis Date: 3/28/2013 6:07:12 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chloride	67.6	5.49	54.89	11.53	102	80	120	0.110	20	
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Fluoride	29.2	1.10	21.95	6.590	103	80	120	0.174	20	
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Nitrate-N	28.2	5.49	27.44	0	103	80	120	1.04	20	
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Sulfate	199	11.0	164.7	34.99	99.6	80	120	0.222	20	
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Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130328A

Sample ID: ICV-130328	Batch ID: R65542	TestNo: E300	Units: mg/Kg							
SampType: ICV	Run ID: IC2_130328A	Analysis Date: 3/28/2013 8:53:49 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	26.2	5.00	25.00	0	105	90	110			
Fluoride	10.4	1.00	10.00	0	104	90	110			
Nitrate-N	13.0	5.00	12.50	0	104	90	110			
Sulfate	77.2	10.0	75.00	0	103	90	110			

Sample ID: CCV1-130328	Batch ID: R65542	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130328A	Analysis Date: 3/28/2013 11:45:02 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.3	5.00	10.00	0	103	90	110			
Fluoride	4.04	1.00	4.000	0	101	90	110			
Nitrate-N	5.03	5.00	5.000	0	101	90	110			
Sulfate	29.8	10.0	30.00	0	99.4	90	110			

Sample ID: CCV2-130328	Batch ID: R65542	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130328A	Analysis Date: 3/28/2013 2:27:19 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	5.00	10.00	0	104	90	110			
Fluoride	4.11	1.00	4.000	0	103	90	110			
Nitrate-N	5.16	5.00	5.000	0	103	90	110			
Sulfate	30.1	10.0	30.00	0	100	90	110			

Sample ID: CCV3-130328	Batch ID: R65542	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130328A	Analysis Date: 3/28/2013 5:08:54 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	5.00	10.00	0	104	90	110			
Fluoride	4.11	1.00	4.000	0	103	90	110			
Nitrate-N	5.12	5.00	5.000	0	102	90	110			
Sulfate	30.0	10.0	30.00	0	100	90	110			

Sample ID: CCV4-130328	Batch ID: R65542	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130328A	Analysis Date: 3/28/2013 6:21:46 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	5.00	10.00	0	104	90	110			
Fluoride	4.09	1.00	4.000	0	102	90	110			
Nitrate-N	5.10	5.00	5.000	0	102	90	110			
Sulfate	30.0	10.0	30.00	0	99.9	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130402A

Sample ID: ICV-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: ICV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	232	10.0	250.0	0	92.8	90	110			N

Sample ID: CCV1-130302	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	238	10.0	250.0	0	95.0	85	115			N

Sample ID: CCV2-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	239	10.0	250.0	0	95.5	85	115			N

Sample ID: CCV3-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	241	10.0	250.0	0	96.5	85	115			N

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130402A

The QC data in batch 56729 applies to the following samples: 1303223-02B, 1303223-03B, 1303223-04B, 1303223-06B, 1303223-07B, 1303223-08B, 1303223-09B, 1303223-11B, 1303223-12B, 1303223-13B, 1303223-14B, 1303223-15B, 1303223-17B, 1303223-18B, 1303223-19B, 1303223-20B

Sample ID: MB-56729	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg							
SampType: MBLK	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	10.0								N

Sample ID: LCS1-56729	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg							
SampType: LCS	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	106	10.0	100.0	0	106	80	120			N

Sample ID: 1303223-06BMS	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg-dry							
SampType: MS	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	109	10.8	107.9	6.738	94.4	80	120			N

Sample ID: 1303223-06BMSD	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg-dry							
SampType: MSD	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	113	10.8	107.9	6.738	98.1	80	120	3.66	20	N

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_130327A

The QC data in batch 56629 applies to the following samples: 1303223-02B, 1303223-03B, 1303223-04B, 1303223-06B, 1303223-07B, 1303223-08B, 1303223-09B, 1303223-11B, 1303223-12B, 1303223-13B, 1303223-14B, 1303223-15B, 1303223-17B, 1303223-18B, 1303223-19B, 1303223-20B

Sample ID: 1303223-02B-DUP	Batch ID: 56629	TestNo: SW9045D	Units: pH Units							
SampType: DUP	Run ID: PH_130327A	Analysis Date: 3/27/2013 10:15:00 AM	Prep Date: 3/27/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.60	0	0	7.643				0.617		5

Sample ID: 1303223-03B-DUP	Batch ID: 56629	TestNo: SW9045D	Units: pH Units							
SampType: DUP	Run ID: PH_130327A	Analysis Date: 3/27/2013 10:15:00 AM	Prep Date: 3/27/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	8.23	0	0	8.224				0.036		5

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_130327A

Sample ID: ICV-130327	Batch ID: PH_S-41360	TestNo: SW9045D	Units: pH Units
SampType: ICV	Run ID: PH_130327A	Analysis Date: 3/27/2013 10:15:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.0	0	10.00	0	100	99	101			

Sample ID: CCV1-130327	Batch ID: PH_S-41360	TestNo: SW9045D	Units: pH Units
SampType: CCV	Run ID: PH_130327A	Analysis Date: 3/27/2013 10:15:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.11	0	7.000	0	102	97.1	102.9			

Sample ID: CCV2-130327	Batch ID: PH_S-41360	TestNo: SW9045D	Units: pH Units
SampType: CCV	Run ID: PH_130327A	Analysis Date: 3/27/2013 10:15:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.11	0	7.000	0	102	97.1	102.9			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_130327C

The QC data in batch 56645 applies to the following samples: 1303223-02C, 1303223-03C, 1303223-04C, 1303223-06C, 1303223-07C, 1303223-08C, 1303223-09C, 1303223-11C, 1303223-12C, 1303223-13C, 1303223-14C, 1303223-15C, 1303223-17C, 1303223-18C, 1303223-19C, 1303223-20C

Sample ID: 1303220-21A-DUP	Batch ID: 56645	TestNo: D2216	Units: WT%
SampType: DUP	Run ID: PMOIST_130327C	Analysis Date: 3/28/2013 11:10:00 AM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	0.659	0	0	0.6661				1.15	30	

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates

Work Order: 1303223

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130328B

The QC data in batch 56632 applies to the following samples: 1303223-02B, 1303223-03B, 1303223-04B, 1303223-06B, 1303223-07B, 1303223-08B, 1303223-09B, 1303223-11B, 1303223-12B, 1303223-13B, 1303223-14B, 1303223-15B, 1303223-17B, 1303223-18B, 1303223-19B, 1303223-20B

Sample ID: MB-56632	Batch ID: 56632	TestNo: SW9014	Units: mg/Kg
SampType: MBLK	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:42:00 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.500								

Sample ID: LCS-56632	Batch ID: 56632	TestNo: SW9014	Units: mg/Kg
SampType: LCS	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:42:00 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	4.91	0.500	5.000	0	98.3	85	115			

Sample ID: 1303223-02BMS	Batch ID: 56632	TestNo: SW9014	Units: mg/Kg-dry
SampType: MS	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:43:00 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	5.66	0.489	4.887	0	116	75	125			

Sample ID: 1303223-02BMSD	Batch ID: 56632	TestNo: SW9014	Units: mg/Kg-dry
SampType: MSD	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:43:00 PM	Prep Date: 3/27/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	6.04	0.509	5.089	0	119	75	125	6.49	30	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303223
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130328B

Sample ID: ICV-130328	Batch ID: R65561	TestNo: SW9014	Units: mg/Kg							
SampType: ICV	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:40:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.105	0.500	0.1000	0	105	85	115			
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Sample ID: CCV1-130328	Batch ID: R65561	TestNo: SW9014	Units: mg/Kg							
SampType: CCV	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:46:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.212	0.500	0.2000	0	106	85	115			
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Sample ID: CCV2-130328	Batch ID: R65561	TestNo: SW9014	Units: mg/Kg							
SampType: CCV	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 4:50:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.211	0.500	0.2000	0	105	85	115			
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Sample ID: CCV3-130328	Batch ID: R65561	TestNo: SW9014	Units: mg/Kg							
SampType: CCV	Run ID: UV/VIS_2_130328B	Analysis Date: 3/28/2013 5:25:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.211	0.500	0.2000	0	106	85	115			
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Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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June 06, 2013

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Artesia Landfarm

Order No.: 1303261

Dear Mark Larson:

DHL Analytical, Inc. received 21 sample(s) on 3/28/2013 for the analyses presented in the following report.

Revision Number 1 for Work Order 1303261: This revision consists of changing the metals analyte target list, deleting subsection C per the client's request. Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-10



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LA arson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 3-26-2013 PAGE 1 OF 2
PO #: _____ LAB WORK ORDER #: 130324
PROJECT LOCATION OR NAME: R360 Arteria handform
LAI PROJECT #: 11-0109-09 COLLECTOR: ML

Data Reported to:

TRRP report? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	S=SOIL W=WATER A=AIR	P=PAINT SL=SLUDGE OT=OTHER	PRESERVATION					# of Containers	ANALYSES															FIELD NOTES							
			HCl	HNO ₃	H ₂ SO ₄	NaOH	UNPRESERVED		BTEX	MTBE	TRPH 418	GASOLINE MOD 8015	DIESEL MOD 8015	VOC 8280	SVOC 8270	8081 PESTICIDES	8082 PCBs	TCLP - METALS	TCLP - PEST	TOTAL METALS (RCRA)	LEAD - PEST	PCl	TDS		PH	EXPLOSIVES	CHLORIDE	ANIONS	ALKALINITY		
TIME ZONE: Time zone/State: <u>NM / NM</u>	Lab #	Date	Time	Matrix	HCl	HNO ₃	H ₂ SO ₄	NaOH	UNPRESERVED	BTEX	MTBE	TRPH 418	GASOLINE MOD 8015	DIESEL MOD 8015	VOC 8280	SVOC 8270	8081 PESTICIDES	8082 PCBs	TCLP - METALS	TCLP - PEST	TOTAL METALS (RCRA)	LEAD - PEST	PCl	TDS	PH	EXPLOSIVES	CHLORIDE	ANIONS	ALKALINITY	FIELD NOTES	
	01	3/26/13	09:00	S																											
	02	3/26/13	09:00	S																											
	03	3/26/13	09:15	S																											
	04	3/26/13	09:15	S																											
	05	3/26/13	09:30	S																											
	06	3/26/13	10:02	S																											
	07	3/26/13	10:02	S																											
	08	3/26/13	10:10	S																											
	09	3/26/13	10:10	S																											
	10	3/26/13	10:10	S																											
	11	3/26/13	10:25	S																											
	12	3/26/13	10:55	S																											
	13	3/26/13	10:55	S																											
	14	3/26/13	11:10	S																											
	15	3/26/13	11:10	S																											

RELINQUISHED BY: (Signature) <u>[Signature]</u>	DATE/TIME <u>3/26/13 1600</u>	RECEIVED BY: (Signature) <u>Ronesta</u>	TURN AROUND TIME NORMAL <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> OTHER <input type="checkbox"/>	LABORATORY USE ONLY: RECEIVING TEMP: <u>4.2.2.4</u> THERM #: <u>57</u> CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED <input checked="" type="checkbox"/> CARRIER BILL # <u>Home Star</u> <input type="checkbox"/> HAND DELIVERED
RELINQUISHED BY: (Signature) <u>Ronesta</u>	DATE/TIME <u>3/28/13</u>	RECEIVED BY: (Signature) <u>[Signature]</u>		
RELINQUISHED BY: (Signature) _____	DATE/TIME _____	RECEIVED BY: (Signature) _____		

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1)	Arsenic (As)	0.1 mg/l
(2)	Barium (Ba)	1.0 mg/l
(3)	Cadmium (Cd)	0.01 mg/l
(4)	Chromium (Cr)	0.05 mg/l
(5)	Cyanide (CN)	0.2 mg/l
(6)	Fluoride (F)	1.6 mg/l
(7)	Lead (Pb)	0.05 mg/l
(8)	Total Mercury (Hg)	0.002 mg/l
(9)	Nitrate (NO ₃ as N)	10.0 mg/l
(10)	Selenium (Se)	0.05 mg/l
(11)	Silver (Ag)	0.05 mg/l
(12)	Uranium (U)	0.0001 mg/l
(13)	Radioactivity: Combined Radium 226 & Radium 228	20 pCi/l
(14)	Benzene	0.01 mg/l
(15)	Polychlorinated biphenyls (PCB's)	0.001 mg/l
(16)	Toluene	0.75 mg/l
(17)	Carbon Tetrachloride	0.01 mg/l
(18)	1,2-dichloroethane (EDC)	0.01 mg/l
(19)	1,1-dichloroethylene (1,1-DCE)	0.005 mg/l
(20)	1,1,2,2-tetrachloroethylene (PCE)	0.02 mg/l
(21)	1,1,2-trichloroethylene (TCE)	0.1 mg/l
(22)	ethylbenzene	0.75 mg/l
(23)	total xylenes	0.62 mg/l
(24)	methylene chloride	0.1 mg/l
(25)	chloroform	0.1 mg/l
(26)	1,1-dichloroethane	0.025 mg/l
(27)	ethylene dibromide (EDB)	0.0001 mg/l
(28)	1,1,1-trichloroethane	0.06 mg/l
(29)	1,1,2-trichloroethane	0.01 mg/l
(30)	1,1,2,2-tetrachloroethane	0.01 mg/l
(31)	vinyl chloride	0.001 mg/l
(32)	PAHs: total naphthalene plus monomethylnaphthalenes	0.03 mg/l
(33)	benzo-a-pyrene	0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1)	Chloride (Cl)	250.0 mg/l
(2)	Copper (Cu)	1.0 mg/l
(3)	Iron (Fe)	1.0 mg/l
(4)	Manganese (Mn)	0.2 mg/l
(6)	Phenols	0.005 mg/l
(7)	Sulfate (SO ₄)	600.0 mg/l
(8)	Total Dissolved Solids (TDS)	1000.0 mg/l
(9)	Zinc (Zn)	10.0 mg/l
(10)	pH	between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1)	Aluminum (Al)	5.0 mg/l
(2)	Boron (B)	0.75 mg/l
(3)	Cobalt (Co)	0.05 mg/l
(4)	Molybdenum (Mo)	1.0 mg/l
(5)	Nickel (Ni)	0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]



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Questions? Call 800-800-8984



Airbill No. 47376950

47376950

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1. To: <small>Print Name (Person)</small> Jennifer Barker <small>Phone (Important)</small> <small>Company Name</small> DHL <small>Street Address (No P.O. Box or P.O. Box Zip Code Deliveries)</small> 2300 Double Creek Dr. <small>Suite / Floor</small> <small>City</small> Round Rock <small>State</small> TX <small>Zip</small> 78664		2. From: <small>Print Name (Person)</small> [Signature] <small>Phone (Important)</small> 432-687-0901 <small>Company Name</small> ARSON & ASSOCIATES <small>Street Address</small> 607 NORTH MARLENFELD <small>Suite / Floor</small> <small>City</small> MIDLAND <small>State</small> TX <small>Zip</small> 79701	
3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. <input checked="" type="checkbox"/> By 10:30 am Delivery <small>Check availability at www.lso.com</small> <input type="checkbox"/> By 8:30 am Delivery <small>(Extra charge, no signature obtained) Check availability at www.lso.com</small> <input type="checkbox"/> By 3:00 pm Delivery <input type="checkbox"/> Ground (next day to most cities) <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)		4. Package: <small>Weight</small> 50 <small>Your Company's Billing Reference Information</small> 11-0109-09 <small>Ship Date (mm/dd/yy)</small> 3.27.13 5. Payment: [Signature]	
<small>Release Signature</small> _____ x W _____ x H		FOR COURIER USE ONLY <small>Courier Number</small> 2818 <input type="checkbox"/> Check here if LSO Supplies are used with Ground Service. <small>Pick-up Location</small> [Signature] <small>Date:</small> 3/27/13 <small>Time:</small> 11:32 <small>City Code:</small> [Signature]	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.



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Questions? Call 800-800-8984



Airbill No. 47376949

47376949

1. To: <small>Print Name (Person)</small> Jennifer Barker <small>Phone (Important)</small> <small>Company Name</small> DHL <small>Street Address (No P.O. Box or P.O. Box Zip Code/Deliveries)</small> 2300 Double Creek Dr. <small>Suite / Floor</small> <small>City</small> Round Rock <small>State</small> TX <small>Zip</small> 78664		2. From: <small>Print Name (Person)</small> Coty Wolf <small>Phone (Important)</small> 432-687-0901 <small>Company Name</small> LARSON & ASSOCIATES <small>Street Address</small> 607 NORTH MARIENFELD <small>Suite / Floor</small> 200 <small>City</small> MIDLAND <small>State</small> TX <small>Zip</small> 79701	
3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online. <input checked="" type="checkbox"/> By 10:30 am Delivery <small>Check availability at www.lso.com</small> <input type="checkbox"/> Saturday Delivery <small>Check availability at www.lso.com (Extra charge, not available on Ground)</small> <input type="checkbox"/> By 8:30 am Delivery <small>Check availability at www.lso.com (Extra charge, no signature obtained)</small> <input type="checkbox"/> By 3:00 pm Delivery <small>Assumed 10:30 a.m. service unless otherwise noted.</small> <input type="checkbox"/> Ground (next day to most cities) <input type="checkbox"/> Deliver Without Delivery Signature <small>(See limits of liability below)</small>		4. Package: <small>Weight:</small> 90 <small>Your Company's Billing Reference Information</small> 11-0109-09 <small>Ship Date: (mm/dd/yy)</small> 3 27 13 5. Payment:	
		FOR COURIER USE ONLY <small>Courier Number</small> 2810 <input type="checkbox"/> Check here if LSO Supplies are used with Ground Service. <small>Pick-up Location</small> 1000 <small>Date:</small> 3-27-13 <small>Name:</small> [Signature] <small>City Code:</small> 1000	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not in excess of \$5,000); 2) file a claim and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limits of liability are provided in our Instant Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. **NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVSERISE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.**

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 3/28/2013

Work Order Number 1303261

Received by JB

Checklist completed by: Barker 3/28/2013
Signature Date

Reviewed by _____ 3/28/2013
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 4.2 °C, 250
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1303261

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

- Method E300 - Anions Analysis
- Method E418.1 - TRPH Analysis (This parameter is not NELAC certified)
- Method SW8260C - Volatiles Analysis
- Method SW8270D - PAH Analysis (The compound 1-Methylnaphthalene is not NELAC certified)
- Method SW8270D - PCB Analysis
- Method SW6020A - Metals Analysis
- Method SW7471B - Mercury Analysis
- Method SW9014 - Cyanide Analysis
- Method SW9045D - pH of Solid Analysis
- Method D2216 - Percent Moisture

LOG IN

The samples were received and log-in performed on 3/28/2013. A total of 21 samples were received and analyzed. The samples arrived in good condition and were properly packaged. The samples were collected in Mountain Standard Time.

METALS ANALYSIS

For Metals Analysis, the recovery of Iron for the Matrix Spike and Matrix Spike Duplicate (1303261-03 MS/MSD) was above the method control limits. These are flagged accordingly in the QC Summary Report. This analyte is within method control limits in the associated LCS. No further corrective action was taken.

For Metals Analysis, the RPD of Manganese for the Serial Dilution (1303261-03 SD) was above the method control limit. This is flagged accordingly in the QC Summary Report. This analyte is within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1303261**Work Order Sample Summary**

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1303261-01	SB-1 0-2'		03/26/13 09:00 AM	3/28/2013
1303261-02	SB-1 2-2.5'		03/26/13 09:00 AM	3/28/2013
1303261-03	SB-1 5-7'		03/26/13 09:15 AM	3/28/2013
1303261-04	SB-1 7-8.5'		03/26/13 09:15 AM	3/28/2013
1303261-05	SB-1 10-12'		03/26/13 09:30 AM	3/28/2013
1303261-06	SB-5 0-2'		03/26/13 10:02 AM	3/28/2013
1303261-07	SB-5 2-3'		03/26/13 10:02 AM	3/28/2013
1303261-08	SB-5 5-7'		03/26/13 10:10 AM	3/28/2013
1303261-09	SB-5 7-9'		03/26/13 10:10 AM	3/28/2013
1303261-10	SB-5 9-10'		03/26/13 10:10 AM	3/28/2013
1303261-11	SB-5 10-12'		03/26/13 10:25 AM	3/28/2013
1303261-12	SB-2 0-2'		03/26/13 10:55 AM	3/28/2013
1303261-13	SB-2 2-3'		03/26/13 10:55 AM	3/28/2013
1303261-14	SB-2 5-7'		03/26/13 11:10 AM	3/28/2013
1303261-15	SB-2 7-8.5'		03/26/13 11:10 AM	3/28/2013
1303261-16	SB-2 10-12'		03/26/13 10:23 AM	3/28/2013
1303261-17	SB-3 0-2'		03/26/13 12:05 PM	3/28/2013
1303261-18	SB-3 2-3'		03/26/13 12:05 PM	3/28/2013
1303261-19	SB-3 5-7'		03/26/13 12:15 PM	3/28/2013
1303261-20	SB-3 7-9'		03/26/13 12:15 PM	3/28/2013
1303261-21	SB-3 10-12'		03/26/13 12:25 PM	3/28/2013

Lab Order: 1303261
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-02A	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-02B	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303261-02C	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-1 2-2.5'	03/26/13 09:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-03A	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-03B	SB-1 5-7'	03/26/13 09:15 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303261-03C	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-1 5-7'	03/26/13 09:15 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-1 5-7'	03/26/13 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-04A	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-04B	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303261-04C	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-04C	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-1 7-8.5'	03/26/13 09:15 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-05A	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-05B	SB-1 10-12'	03/26/13 09:30 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 09:45 AM	56729
1303261-05C	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-1 10-12'	03/26/13 09:30 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-1 10-12'	03/26/13 09:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-07A	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-07B	SB-5 2-3'	03/26/13 10:02 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-07C	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-5 2-3'	03/26/13 10:02 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-5 2-3'	03/26/13 10:02 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-08A	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-08B	SB-5 5-7'	03/26/13 10:10 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-08C	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-5 5-7'	03/26/13 10:10 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-5 5-7'	03/26/13 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-09A	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-09B	SB-5 7-9'	03/26/13 10:10 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-09C	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-5 7-9'	03/26/13 10:10 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-5 7-9'	03/26/13 10:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-11A	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-11B	SB-5 10-12'	03/26/13 10:25 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-11C	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-11C	SB-5 10-12'	03/26/13 10:25 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-5 10-12'	03/26/13 10:25 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-13A	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-13B	SB-2 2-3'	03/26/13 10:55 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-13C	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-2 2-3'	03/26/13 10:55 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-2 2-3'	03/26/13 10:55 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-14A	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-14B	SB-2 5-7'	03/26/13 11:10 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-14C	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-2 5-7'	03/26/13 11:10 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-2 5-7'	03/26/13 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-15A	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669

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PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-15B	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-15C	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-2 7-8.5'	03/26/13 11:10 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-16A	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-16B	SB-2 10-12'	03/26/13 10:23 AM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-16C	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-2 10-12'	03/26/13 10:23 AM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-2 10-12'	03/26/13 10:23 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-18A	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-18B	SB-3 2-3'	03/26/13 12:05 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 2-3'	03/26/13 12:05 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-18C	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694

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PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-18C	SB-3 2-3'	03/26/13 12:05 PM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-3 2-3'	03/26/13 12:05 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-19A	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-19B	SB-3 5-7'	03/26/13 12:15 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 5-7'	03/26/13 12:15 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-19C	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-3 5-7'	03/26/13 12:15 PM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
	SB-3 5-7'	03/26/13 12:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-20A	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-20B	SB-3 7-9'	03/26/13 12:15 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 7-9'	03/26/13 12:15 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
1303261-20C	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM	56694
	SB-3 7-9'	03/26/13 12:15 PM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693

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PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1303261-20C	SB-3 7-9'	03/26/13 12:15 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
1303261-21A	SB-3 10-12'	03/26/13 12:25 PM	Soil	SW5030A	Purge and Trap Soils GC/MS	03/28/13 09:56 AM	56669
1303261-21B	SB-3 10-12'	03/26/13 12:25 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 10-12'	03/26/13 12:25 PM	Soil	E300	Anion Prep	04/01/13 01:58 PM	56718
	SB-3 10-12'	03/26/13 12:25 PM	Soil	SW9010C	Cyanide Soil Prep	04/01/13 01:00 PM	56705
	SB-3 10-12'	03/26/13 12:25 PM	Soil	SW9045C	pH Preparation	04/01/13 10:01 AM	56707
	SB-3 10-12'	03/26/13 12:25 PM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/02/13 01:00 PM	56733
	1303261-21C	SB-3 10-12'	03/26/13 12:25 PM	Soil	SW7471A	Mercury Soil Prep, Total	04/02/13 09:00 AM
SB-3 10-12'		03/26/13 12:25 PM	Soil	D2216	Moisture Preparation	04/01/13 12:20 PM	56716
SB-3 10-12'		03/26/13 12:25 PM	Soil	SW3550C	Soil Prep Sonication: BNA	04/01/13 09:12 AM	56702
SB-3 10-12'		03/26/13 12:25 PM	Soil	SW3550C	Soil Prep Sonication: PCB	04/01/13 09:10 AM	56701
SB-3 10-12'		03/26/13 12:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693
SB-3 10-12'		03/26/13 12:25 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/02/13 09:00 AM	56693

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-02A	SB-1 2-2.5'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 12:16 PM	GCMS2_130328A
1303261-02B	SB-1 2-2.5'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 10:06 AM	IC2_130402A
	SB-1 2-2.5'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:21 AM	UV/VIS_2_130402A
	SB-1 2-2.5'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-1 2-2.5'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303261-02C	SB-1 2-2.5'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 05:48 PM	GCMS8_130402A
	SB-1 2-2.5'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-1 2-2.5'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 01:54 PM	GCMS9_130402C
	SB-1 2-2.5'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:03 PM	CETAC_HG_130403A
	SB-1 2-2.5'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:25 AM	ICP-MS3_130403A
	SB-1 2-2.5'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:18 PM	ICP-MS3_130403A
1303261-03A	SB-1 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 12:47 PM	GCMS2_130328A
1303261-03B	SB-1 5-7'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 11:13 AM	IC2_130402A
	SB-1 5-7'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:21 AM	UV/VIS_2_130402A
	SB-1 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-1 5-7'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303261-03C	SB-1 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 06:19 PM	GCMS8_130402A
	SB-1 5-7'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-1 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 02:19 PM	GCMS9_130402C
	SB-1 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 12:39 PM	CETAC_HG_130403A
	SB-1 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:19 AM	ICP-MS3_130403A
	SB-1 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:06 PM	ICP-MS3_130403A
1303261-04A	SB-1 7-8.5'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 01:19 PM	GCMS2_130328A
1303261-04B	SB-1 7-8.5'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 11:27 AM	IC2_130402A
	SB-1 7-8.5'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:23 AM	UV/VIS_2_130402A
	SB-1 7-8.5'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-1 7-8.5'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303261-04C	SB-1 7-8.5'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 06:51 PM	GCMS8_130402A

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ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-04C	SB-1 7-8.5'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-1 7-8.5'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 02:42 PM	GCMS9_130402C
	SB-1 7-8.5'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:05 PM	CETAC_HG_130403A
	SB-1 7-8.5'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:31 AM	ICP-MS3_130403A
	SB-1 7-8.5'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:24 PM	ICP-MS3_130403A
1303261-05A	SB-1 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 01:50 PM	GCMS2_130328A
1303261-05B	SB-1 10-12'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 11:42 AM	IC2_130402A
	SB-1 10-12'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:23 AM	UV/VIS_2_130402A
	SB-1 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-1 10-12'	Soil	E418.1	TRPH	56729	1	04/02/13 04:30 PM	IR207_130402A
1303261-05C	SB-1 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 07:22 PM	GCMS8_130402A
	SB-1 10-12'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-1 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 03:06 PM	GCMS9_130402C
	SB-1 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:08 PM	CETAC_HG_130403A
	SB-1 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:13 PM	CETAC_HG_130403A
	SB-1 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:37 AM	ICP-MS3_130403A
	SB-1 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:30 PM	ICP-MS3_130403A
1303261-07A	SB-5 2-3'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 02:21 PM	GCMS2_130328A
1303261-07B	SB-5 2-3'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 11:56 AM	IC2_130402A
	SB-5 2-3'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:24 AM	UV/VIS_2_130402A
	SB-5 2-3'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-5 2-3'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-07C	SB-5 2-3'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 07:53 PM	GCMS8_130402A
	SB-5 2-3'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-5 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 03:29 PM	GCMS9_130402C
	SB-5 2-3'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:16 PM	CETAC_HG_130403A
	SB-5 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:43 AM	ICP-MS3_130403A
	SB-5 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:36 PM	ICP-MS3_130403A

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Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-08A	SB-5 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 02:52 PM	GCMS2_130328A
1303261-08B	SB-5 5-7'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 12:27 PM	IC2_130402A
	SB-5 5-7'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:24 AM	UV/VIS_2_130402A
	SB-5 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-5 5-7'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-08C	SB-5 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 08:24 PM	GCMS8_130402A
	SB-5 5-7'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-5 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 04:52 PM	GCMS9_130402C
	SB-5 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:18 PM	CETAC_HG_130403A
	SB-5 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:50 AM	ICP-MS3_130403A
	SB-5 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:43 PM	ICP-MS3_130403A
1303261-09A	SB-5 7-9'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 03:24 PM	GCMS2_130328A
1303261-09B	SB-5 7-9'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 12:41 PM	IC2_130402A
	SB-5 7-9'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:24 AM	UV/VIS_2_130402A
	SB-5 7-9'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-5 7-9'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-09C	SB-5 7-9'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 08:54 PM	GCMS8_130402A
	SB-5 7-9'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-5 7-9'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 04:16 PM	GCMS9_130402C
	SB-5 7-9'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:20 PM	CETAC_HG_130403A
	SB-5 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 05:56 AM	ICP-MS3_130403A
	SB-5 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:50 PM	ICP-MS3_130403A
1303261-11A	SB-5 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 03:55 PM	GCMS2_130328A
1303261-11B	SB-5 10-12'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 12:56 PM	IC2_130402A
	SB-5 10-12'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:26 AM	UV/VIS_2_130402A
	SB-5 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-5 10-12'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-11C	SB-5 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 09:26 PM	GCMS8_130402A

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-11C	SB-5 10-12'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-5 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 04:39 PM	GCMS9_130402C
	SB-5 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:22 PM	CETAC_HG_130403A
	SB-5 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 04:56 PM	ICP-MS3_130403A
	SB-5 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 06:02 AM	ICP-MS3_130403A
1303261-13A	SB-2 2-3'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 04:26 PM	GCMS2_130328A
1303261-13B	SB-2 2-3'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 01:11 PM	IC2_130402A
	SB-2 2-3'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:26 AM	UV/VIS_2_130402A
	SB-2 2-3'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-2 2-3'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-13C	SB-2 2-3'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 09:57 PM	GCMS8_130402A
	SB-2 2-3'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-2 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 05:02 PM	GCMS9_130402C
	SB-2 2-3'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:24 PM	CETAC_HG_130403A
	SB-2 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 05:02 PM	ICP-MS3_130403A
	SB-2 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 06:08 AM	ICP-MS3_130403A
1303261-14A	SB-2 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 04:58 PM	GCMS2_130328A
1303261-14B	SB-2 5-7'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 01:25 PM	IC2_130402A
	SB-2 5-7'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:26 AM	UV/VIS_2_130402A
	SB-2 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-2 5-7'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-14C	SB-2 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 10:28 PM	GCMS8_130402A
	SB-2 5-7'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-2 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 05:26 PM	GCMS9_130402C
	SB-2 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:30 PM	CETAC_HG_130403A
	SB-2 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 05:08 PM	ICP-MS3_130403A
	SB-2 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 06:14 AM	ICP-MS3_130403A
1303261-15A	SB-2 7-8.5'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 05:29 PM	GCMS2_130328A

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-15B	SB-2 7-8.5'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 01:40 PM	IC2_130402A
	SB-2 7-8.5'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:26 AM	UV/VIS_2_130402A
	SB-2 7-8.5'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-2 7-8.5'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-15C	SB-2 7-8.5'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 10:59 PM	GCMS8_130402A
	SB-2 7-8.5'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-2 7-8.5'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 05:49 PM	GCMS9_130402C
	SB-2 7-8.5'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:32 PM	CETAC_HG_130403A
	SB-2 7-8.5'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 07:23 PM	ICP-MS3_130403A
	SB-2 7-8.5'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 07:22 AM	ICP-MS3_130403A
1303261-16A	SB-2 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 06:01 PM	GCMS2_130328A
1303261-16B	SB-2 10-12'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 01:55 PM	IC2_130402A
	SB-2 10-12'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:26 AM	UV/VIS_2_130402A
	SB-2 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-2 10-12'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-16C	SB-2 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 11:30 PM	GCMS8_130402A
	SB-2 10-12'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-2 10-12'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 06:12 PM	GCMS9_130402C
	SB-2 10-12'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:34 PM	CETAC_HG_130403A
	SB-2 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 07:29 PM	ICP-MS3_130403A
	SB-2 10-12'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 07:28 AM	ICP-MS3_130403A
1303261-18A	SB-3 2-3'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 06:32 PM	GCMS2_130328A
1303261-18B	SB-3 2-3'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 02:10 PM	IC2_130402A
	SB-3 2-3'	Soil	E300	Anions by IC method - Soil	56718	10	04/02/13 03:59 PM	IC2_130402A
	SB-3 2-3'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:26 AM	UV/VIS_2_130402A
	SB-3 2-3'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-3 2-3'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-18C	SB-3 2-3'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/03/13 12:01 AM	GCMS8_130402A

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-18C	SB-3 2-3'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-3 2-3'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 06:35 PM	GCMS9_130402C
	SB-3 2-3'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:37 PM	CETAC_HG_130403A
	SB-3 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 07:35 PM	ICP-MS3_130403A
	SB-3 2-3'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 07:34 AM	ICP-MS3_130403A
1303261-19A	SB-3 5-7'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 07:04 PM	GCMS2_130328A
1303261-19B	SB-3 5-7'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 02:25 PM	IC2_130402A
	SB-3 5-7'	Soil	E300	Anions by IC method - Soil	56718	10	04/02/13 03:12 PM	IC2_130402A
	SB-3 5-7'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:28 AM	UV/VIS_2_130402A
	SB-3 5-7'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-3 5-7'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-19C	SB-3 5-7'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/03/13 12:32 AM	GCMS8_130402A
	SB-3 5-7'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-3 5-7'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 07:44 PM	GCMS9_130402C
	SB-3 5-7'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:39 PM	CETAC_HG_130403A
	SB-3 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 07:41 PM	ICP-MS3_130403A
	SB-3 5-7'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 07:40 AM	ICP-MS3_130403A
1303261-20A	SB-3 7-9'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 07:36 PM	GCMS2_130328A
1303261-20B	SB-3 7-9'	Soil	E300	Anions by IC method - Soil	56718	10	04/02/13 03:27 PM	IC2_130402A
	SB-3 7-9'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 02:39 PM	IC2_130402A
	SB-3 7-9'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:28 AM	UV/VIS_2_130402A
	SB-3 7-9'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-3 7-9'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
1303261-20C	SB-3 7-9'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/03/13 01:03 AM	GCMS8_130402A
	SB-3 7-9'	Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
	SB-3 7-9'	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 08:08 PM	GCMS9_130402C
	SB-3 7-9'	Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:41 PM	CETAC_HG_130403A
	SB-3 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 07:46 AM	ICP-MS3_130403A

Lab Order: 1303261
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1303261-20C	SB-3 7-9'	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 07:47 PM	ICP-MS3_130403A
1303261-21A	SB-3 10-12'	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56669	1	03/28/13 08:07 PM	GCMS2_130328A
1303261-21B	SB-3 10-12'	Soil	E300	Anions by IC method - Soil	56718	10	04/02/13 04:13 PM	IC2_130402A
	SB-3 10-12'	Soil	E300	Anions by IC method - Soil	56718	1	04/02/13 03:41 PM	IC2_130402A
	SB-3 10-12'	Soil	SW9014	Cyanide - Solid Sample	56705	1	04/02/13 10:28 AM	UV/VIS_2_130402A
	SB-3 10-12'	Soil	SW9045D	pH of Solid (Corrosivity)	56707	1	04/01/13 10:01 AM	PH_130401A
	SB-3 10-12'	Soil	E418.1	TRPH	56733	1	04/02/13 04:30 PM	IR207_130402B
	1303261-21C	SB-3 10-12'	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56701	1	04/02/13 03:51 PM
SB-3 10-12'		Soil	D2216	Percent Moisture	56716	1	04/02/13 08:50 AM	PMOIST_130401A
SB-3 10-12'		Soil	SW8270D	Semivolatiles by GC/MS - Soil	56702	1	04/02/13 08:31 PM	GCMS9_130402C
SB-3 10-12'		Soil	SW7471B	Total Mercury: Soil/Solid	56694	1	04/03/13 01:43 PM	CETAC_HG_130403A
SB-3 10-12'		Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	5	04/04/13 07:52 AM	ICP-MS3_130403A
SB-3 10-12'		Soil	SW6020A	Trace Metals: ICP-MS - Solid	56693	50	04/03/13 07:53 PM	ICP-MS3_130403A

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 2-2.5'
Lab ID: 1303261-02
Collection Date: 03/26/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0158	0.0396		mg/Kg-dry	1	04/03/13 01:03 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.41	0.492	0.984		mg/Kg-dry	5	04/04/13 05:25 AM
Barium	25.1	0.492	1.97		mg/Kg-dry	5	04/04/13 05:25 AM
Cadmium	ND	0.0984	0.295		mg/Kg-dry	5	04/04/13 05:25 AM
Chromium	5.54	0.492	1.97		mg/Kg-dry	5	04/04/13 05:25 AM
Copper	1.52	0.492	1.97	J	mg/Kg-dry	5	04/04/13 05:25 AM
Iron	6090	123	123		mg/Kg-dry	50	04/03/13 04:18 PM
Lead	2.94	0.0984	0.295		mg/Kg-dry	5	04/04/13 05:25 AM
Manganese	47.4	0.492	1.97		mg/Kg-dry	5	04/04/13 05:25 AM
Selenium	0.866	0.148	0.492		mg/Kg-dry	5	04/04/13 05:25 AM
Silver	ND	0.0984	0.197		mg/Kg-dry	5	04/04/13 05:25 AM
Zinc	11.0	0.984	2.46		mg/Kg-dry	5	04/04/13 05:25 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0101	0.0269	N	mg/Kg-dry	1	04/02/13 01:54 PM
2-Methylnaphthalene	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
Naphthalene	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
Benzo[a]pyrene	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2,3,4,6-Tetrachlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2,4,5-Trichlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2,4,6-Trichlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2,4-Dichlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2,4-Dimethylphenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2,4-Dinitrophenol	ND	0.0506	0.134		mg/Kg-dry	1	04/02/13 01:54 PM
2,6-Dichlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2-Chlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2-Methylphenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
2-Nitrophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
4,6-Dinitro-2-methylphenol	ND	0.0303	0.0668		mg/Kg-dry	1	04/02/13 01:54 PM
4-Chloro-3-methylphenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
4-Methylphenol	ND	0.0202	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
4-Nitrophenol	ND	0.0506	0.134		mg/Kg-dry	1	04/02/13 01:54 PM
Pentachlorophenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
Phenol	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
Total Phenol (Calculated)	ND	0.0101	0.0269		mg/Kg-dry	1	04/02/13 01:54 PM
Surr: 2,4,6-Tribromophenol	89.0	0	45-126		%REC	1	04/02/13 01:54 PM
Surr: 2-Fluorobiphenyl	84.0	0	60-125		%REC	1	04/02/13 01:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 2-2.5'
Lab ID: 1303261-02
Collection Date: 03/26/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	82.0	0	37-125		%REC	1	04/02/13 01:54 PM
Surr: 4-Terphenyl-d14	90.0	0	45-125		%REC	1	04/02/13 01:54 PM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	04/02/13 01:54 PM
Surr: Phenol-d6	88.0	0	40-125		%REC	1	04/02/13 01:54 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Aroclor 1221	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Aroclor 1232	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Aroclor 1242	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Aroclor 1248	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Aroclor 1254	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Aroclor 1260	ND	0.0169	0.0337		mg/Kg-dry	1	04/02/13 05:48 PM
Surr: 2-Fluorobiphenyl	79.7	0	43-125		%REC	1	04/02/13 05:48 PM
Surr: 4-Terphenyl-d14	86.2	0	32-125		%REC	1	04/02/13 05:48 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Toluene	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Carbon tetrachloride	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
1,2-Dichloroethane	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
1,1-Dichloroethylene	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Tetrachloroethylene	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Trichloroethylene	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Ethylbenzene	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Total Xylenes	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Methylene chloride	ND	0.00517	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Chloroform	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
1,1-Dichloroethane	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Ethylene bromide	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
1,1,1-Trichloroethane	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
1,1,2-Trichloroethane	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
1,1,2,2-Tetrachloroethane	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Vinyl chloride	ND	0.00103	0.00517		mg/Kg-dry	1	03/28/13 12:16 PM
Surr: 1,2-Dichloroethane-d4	96.9	0	52-149		%REC	1	03/28/13 12:16 PM
Surr: 4-Bromofluorobenzene	97.5	0	84-118		%REC	1	03/28/13 12:16 PM
Surr: Dibromofluoromethane	98.2	0	65-135		%REC	1	03/28/13 12:16 PM
Surr: Toluene-d8	94.5	0	84-116		%REC	1	03/28/13 12:16 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 2-2.5'
Lab ID: 1303261-02
Collection Date: 03/26/13 09:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.18	10.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.205	0.511		mg/Kg-dry	1	04/02/13 10:21 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	11.9	5.20	5.20		mg/Kg-dry	1	04/02/13 10:06 AM
Fluoride	1.28	1.04	1.04		mg/Kg-dry	1	04/02/13 10:06 AM
Nitrate-N	ND	5.20	5.20		mg/Kg-dry	1	04/02/13 10:06 AM
Sulfate	26.1	10.4	10.4		mg/Kg-dry	1	04/02/13 10:06 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.25	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	4.15	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 5-7'
Lab ID: 1303261-03
Collection Date: 03/26/13 09:15 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0168	0.0420		mg/Kg-dry	1	04/03/13 12:39 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	0.973	0.529	1.06	J	mg/Kg-dry	5	04/04/13 05:19 AM
Barium	36.1	0.529	2.12		mg/Kg-dry	5	04/04/13 05:19 AM
Cadmium	ND	0.106	0.318		mg/Kg-dry	5	04/04/13 05:19 AM
Chromium	4.19	0.529	2.12		mg/Kg-dry	5	04/04/13 05:19 AM
Copper	1.10	0.529	2.12	J	mg/Kg-dry	5	04/04/13 05:19 AM
Iron	3910	132	132		mg/Kg-dry	50	04/03/13 04:06 PM
Lead	2.22	0.106	0.318		mg/Kg-dry	5	04/04/13 05:19 AM
Manganese	27.3	0.529	2.12		mg/Kg-dry	5	04/04/13 05:19 AM
Selenium	0.678	0.159	0.529		mg/Kg-dry	5	04/04/13 05:19 AM
Silver	ND	0.106	0.212		mg/Kg-dry	5	04/04/13 05:19 AM
Zinc	6.58	1.06	2.65		mg/Kg-dry	5	04/04/13 05:19 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0106	0.0283	N	mg/Kg-dry	1	04/02/13 02:19 PM
2-Methylnaphthalene	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
Naphthalene	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
Benzo[a]pyrene	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2,4-Dichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2,4-Dimethylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2,4-Dinitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	04/02/13 02:19 PM
2,6-Dichlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2-Chlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2-Methylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
2-Nitrophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
4,6-Dinitro-2-methylphenol	ND	0.0319	0.0701		mg/Kg-dry	1	04/02/13 02:19 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
4-Methylphenol	ND	0.0213	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
4-Nitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	04/02/13 02:19 PM
Pentachlorophenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
Phenol	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
Total Phenol (Calculated)	ND	0.0106	0.0283		mg/Kg-dry	1	04/02/13 02:19 PM
Surr: 2,4,6-Tribromophenol	84.0	0	45-126		%REC	1	04/02/13 02:19 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	04/02/13 02:19 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 5-7'
Lab ID: 1303261-03
Collection Date: 03/26/13 09:15 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	04/02/13 02:19 PM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	04/02/13 02:19 PM
Surr: Nitrobenzene-d5	75.0	0	45-125		%REC	1	04/02/13 02:19 PM
Surr: Phenol-d6	85.0	0	40-125		%REC	1	04/02/13 02:19 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Aroclor 1221	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Aroclor 1232	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Aroclor 1242	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Aroclor 1248	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Aroclor 1254	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Aroclor 1260	ND	0.0177	0.0354		mg/Kg-dry	1	04/02/13 06:19 PM
Surr: 2-Fluorobiphenyl	69.6	0	43-125		%REC	1	04/02/13 06:19 PM
Surr: 4-Terphenyl-d14	81.4	0	32-125		%REC	1	04/02/13 06:19 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Toluene	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Carbon tetrachloride	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
1,2-Dichloroethane	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
1,1-Dichloroethylene	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Tetrachloroethylene	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Trichloroethylene	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Ethylbenzene	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Total Xylenes	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Methylene chloride	ND	0.00447	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Chloroform	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
1,1-Dichloroethane	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Ethylene bromide	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
1,1,1-Trichloroethane	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
1,1,2-Trichloroethane	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
1,1,2,2-Tetrachloroethane	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Vinyl chloride	ND	0.000894	0.00447		mg/Kg-dry	1	03/28/13 12:47 PM
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	1	03/28/13 12:47 PM
Surr: 4-Bromofluorobenzene	96.7	0	84-118		%REC	1	03/28/13 12:47 PM
Surr: Dibromofluoromethane	101	0	65-135		%REC	1	03/28/13 12:47 PM
Surr: Toluene-d8	94.9	0	84-116		%REC	1	03/28/13 12:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 5-7'
Lab ID: 1303261-03
Collection Date: 03/26/13 09:15 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.32	10.6	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.190	0.475		mg/Kg-dry	1	04/02/13 10:21 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	26.5	5.31	5.31		mg/Kg-dry	1	04/02/13 11:13 AM
Fluoride	2.01	1.06	1.06		mg/Kg-dry	1	04/02/13 11:13 AM
Nitrate-N	ND	5.31	5.31		mg/Kg-dry	1	04/02/13 11:13 AM
Sulfate	60.1	10.6	10.6		mg/Kg-dry	1	04/02/13 11:13 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.65	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	6.47	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 7-8.5'
Lab ID: 1303261-04
Collection Date: 03/26/13 09:15 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0149	0.0372		mg/Kg-dry	1	04/03/13 01:05 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	3.71	0.541	1.08		mg/Kg-dry	5	04/04/13 05:31 AM
Barium	52.6	0.541	2.16		mg/Kg-dry	5	04/04/13 05:31 AM
Cadmium	0.161	0.108	0.325	J	mg/Kg-dry	5	04/04/13 05:31 AM
Chromium	11.5	0.541	2.16		mg/Kg-dry	5	04/04/13 05:31 AM
Copper	3.94	0.541	2.16		mg/Kg-dry	5	04/04/13 05:31 AM
Iron	14300	135	135		mg/Kg-dry	50	04/03/13 04:24 PM
Lead	5.51	0.108	0.325		mg/Kg-dry	5	04/04/13 05:31 AM
Manganese	61.2	0.541	2.16		mg/Kg-dry	5	04/04/13 05:31 AM
Selenium	0.909	0.162	0.541		mg/Kg-dry	5	04/04/13 05:31 AM
Silver	ND	0.108	0.216		mg/Kg-dry	5	04/04/13 05:31 AM
Zinc	22.6	1.08	2.71		mg/Kg-dry	5	04/04/13 05:31 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0106	0.0281	N	mg/Kg-dry	1	04/02/13 02:42 PM
2-Methylnaphthalene	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
Naphthalene	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
Benzo[a]pyrene	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2,4-Dichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2,4-Dimethylphenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2,4-Dinitrophenol	ND	0.0529	0.140		mg/Kg-dry	1	04/02/13 02:42 PM
2,6-Dichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2-Chlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2-Methylphenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
2-Nitrophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
4,6-Dinitro-2-methylphenol	ND	0.0317	0.0698		mg/Kg-dry	1	04/02/13 02:42 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
4-Methylphenol	ND	0.0211	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
4-Nitrophenol	ND	0.0529	0.140		mg/Kg-dry	1	04/02/13 02:42 PM
Pentachlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
Phenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
Total Phenol (Calculated)	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 02:42 PM
Surr: 2,4,6-Tribromophenol	86.0	0	45-126		%REC	1	04/02/13 02:42 PM
Surr: 2-Fluorobiphenyl	80.0	0	60-125		%REC	1	04/02/13 02:42 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 7-8.5'
Lab ID: 1303261-04
Collection Date: 03/26/13 09:15 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	82.0	0	37-125		%REC	1	04/02/13 02:42 PM
Surr: 4-Terphenyl-d14	87.0	0	45-125		%REC	1	04/02/13 02:42 PM
Surr: Nitrobenzene-d5	74.0	0	45-125		%REC	1	04/02/13 02:42 PM
Surr: Phenol-d6	87.0	0	40-125		%REC	1	04/02/13 02:42 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Aroclor 1221	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Aroclor 1232	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Aroclor 1242	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Aroclor 1248	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Aroclor 1254	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Aroclor 1260	ND	0.0176	0.0352		mg/Kg-dry	1	04/02/13 06:51 PM
Surr: 2-Fluorobiphenyl	71.3	0	43-125		%REC	1	04/02/13 06:51 PM
Surr: 4-Terphenyl-d14	82.1	0	32-125		%REC	1	04/02/13 06:51 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Toluene	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Carbon tetrachloride	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
1,2-Dichloroethane	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
1,1-Dichloroethylene	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Tetrachloroethylene	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Trichloroethylene	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Ethylbenzene	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Total Xylenes	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Methylene chloride	ND	0.00449	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Chloroform	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
1,1-Dichloroethane	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Ethylene bromide	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
1,1,1-Trichloroethane	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
1,1,2-Trichloroethane	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
1,1,2,2-Tetrachloroethane	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Vinyl chloride	ND	0.000897	0.00449		mg/Kg-dry	1	03/28/13 01:19 PM
Surr: 1,2-Dichloroethane-d4	102	0	52-149		%REC	1	03/28/13 01:19 PM
Surr: 4-Bromofluorobenzene	98.4	0	84-118		%REC	1	03/28/13 01:19 PM
Surr: Dibromofluoromethane	102	0	65-135		%REC	1	03/28/13 01:19 PM
Surr: Toluene-d8	95.6	0	84-116		%REC	1	03/28/13 01:19 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 7-8.5'
Lab ID: 1303261-04
Collection Date: 03/26/13 09:15 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.56	11.1	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.205	0.511		mg/Kg-dry	1	04/02/13 10:23 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	45.6	5.52	5.52		mg/Kg-dry	1	04/02/13 11:27 AM
Fluoride	5.44	1.10	1.10		mg/Kg-dry	1	04/02/13 11:27 AM
Nitrate-N	ND	5.52	5.52		mg/Kg-dry	1	04/02/13 11:27 AM
Sulfate	95.2	11.0	11.0		mg/Kg-dry	1	04/02/13 11:27 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.15	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	10.3	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 10-12'
Lab ID: 1303261-05
Collection Date: 03/26/13 09:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0162	0.0405		mg/Kg-dry	1	04/03/13 01:08 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	3.87	0.539	1.08		mg/Kg-dry	5	04/04/13 05:37 AM
Barium	61.7	0.539	2.16		mg/Kg-dry	5	04/04/13 05:37 AM
Cadmium	0.226	0.108	0.324	J	mg/Kg-dry	5	04/04/13 05:37 AM
Chromium	9.58	0.539	2.16		mg/Kg-dry	5	04/04/13 05:37 AM
Copper	3.15	0.539	2.16		mg/Kg-dry	5	04/04/13 05:37 AM
Iron	10900	135	135		mg/Kg-dry	50	04/03/13 04:30 PM
Lead	5.74	0.108	0.324		mg/Kg-dry	5	04/04/13 05:37 AM
Manganese	90.5	0.539	2.16		mg/Kg-dry	5	04/04/13 05:37 AM
Selenium	3.26	0.162	0.539		mg/Kg-dry	5	04/04/13 05:37 AM
Silver	ND	0.108	0.216		mg/Kg-dry	5	04/04/13 05:37 AM
Zinc	18.8	1.08	2.70		mg/Kg-dry	5	04/04/13 05:37 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0106	0.0282	N	mg/Kg-dry	1	04/02/13 03:06 PM
2-Methylnaphthalene	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
Naphthalene	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
Benzo[a]pyrene	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2,4-Dichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2,4-Dimethylphenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2,4-Dinitrophenol	ND	0.0530	0.140		mg/Kg-dry	1	04/02/13 03:06 PM
2,6-Dichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2-Chlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2-Methylphenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
2-Nitrophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
4,6-Dinitro-2-methylphenol	ND	0.0318	0.0700		mg/Kg-dry	1	04/02/13 03:06 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
4-Methylphenol	ND	0.0212	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
4-Nitrophenol	ND	0.0530	0.140		mg/Kg-dry	1	04/02/13 03:06 PM
Pentachlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
Phenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
Total Phenol (Calculated)	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 03:06 PM
Surr: 2,4,6-Tribromophenol	80.0	0	45-126		%REC	1	04/02/13 03:06 PM
Surr: 2-Fluorobiphenyl	76.0	0	60-125		%REC	1	04/02/13 03:06 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 10-12'
Lab ID: 1303261-05
Collection Date: 03/26/13 09:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	76.0	0	37-125		%REC	1	04/02/13 03:06 PM
Surr: 4-Terphenyl-d14	83.0	0	45-125		%REC	1	04/02/13 03:06 PM
Surr: Nitrobenzene-d5	71.0	0	45-125		%REC	1	04/02/13 03:06 PM
Surr: Phenol-d6	79.0	0	40-125		%REC	1	04/02/13 03:06 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Aroclor 1221	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Aroclor 1232	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Aroclor 1242	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Aroclor 1248	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Aroclor 1254	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Aroclor 1260	ND	0.0177	0.0353		mg/Kg-dry	1	04/02/13 07:22 PM
Surr: 2-Fluorobiphenyl	70.6	0	43-125		%REC	1	04/02/13 07:22 PM
Surr: 4-Terphenyl-d14	82.6	0	32-125		%REC	1	04/02/13 07:22 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Toluene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Carbon tetrachloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
1,2-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
1,1-Dichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Tetrachloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Trichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Ethylbenzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Total Xylenes	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Methylene chloride	ND	0.00514	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Chloroform	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
1,1-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Ethylene bromide	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
1,1,1-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
1,1,2-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
1,1,2,2-Tetrachloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Vinyl chloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 01:50 PM
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	03/28/13 01:50 PM
Surr: 4-Bromofluorobenzene	98.7	0	84-118		%REC	1	03/28/13 01:50 PM
Surr: Dibromofluoromethane	101	0	65-135		%REC	1	03/28/13 01:50 PM
Surr: Toluene-d8	96.0	0	84-116		%REC	1	03/28/13 01:50 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-1 10-12'
Lab ID: 1303261-05
Collection Date: 03/26/13 09:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.39	10.8	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.178	0.445		mg/Kg-dry	1	04/02/13 10:23 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	45.7	5.41	5.41		mg/Kg-dry	1	04/02/13 11:42 AM
Fluoride	7.84	1.08	1.08		mg/Kg-dry	1	04/02/13 11:42 AM
Nitrate-N	ND	5.41	5.41		mg/Kg-dry	1	04/02/13 11:42 AM
Sulfate	73.2	10.8	10.8		mg/Kg-dry	1	04/02/13 11:42 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.04	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	8.21	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 2-3'
Lab ID: 1303261-07
Collection Date: 03/26/13 10:02 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0150	0.0376		mg/Kg-dry	1	04/03/13 01:16 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.77	0.471	0.941		mg/Kg-dry	5	04/04/13 05:43 AM
Barium	25.4	0.471	1.88		mg/Kg-dry	5	04/04/13 05:43 AM
Cadmium	0.107	0.0941	0.282	J	mg/Kg-dry	5	04/04/13 05:43 AM
Chromium	5.96	0.471	1.88		mg/Kg-dry	5	04/04/13 05:43 AM
Copper	2.35	0.471	1.88		mg/Kg-dry	5	04/04/13 05:43 AM
Iron	4890	118	118		mg/Kg-dry	50	04/03/13 04:36 PM
Lead	3.33	0.0941	0.282		mg/Kg-dry	5	04/04/13 05:43 AM
Manganese	73.7	0.471	1.88		mg/Kg-dry	5	04/04/13 05:43 AM
Selenium	1.08	0.141	0.471		mg/Kg-dry	5	04/04/13 05:43 AM
Silver	ND	0.0941	0.188		mg/Kg-dry	5	04/04/13 05:43 AM
Zinc	13.5	0.941	2.35		mg/Kg-dry	5	04/04/13 05:43 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.00973	0.0259	N	mg/Kg-dry	1	04/02/13 03:29 PM
2-Methylnaphthalene	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
Naphthalene	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
Benzo[a]pyrene	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2,3,4,6-Tetrachlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2,4,5-Trichlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2,4,6-Trichlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2,4-Dichlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2,4-Dimethylphenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2,4-Dinitrophenol	ND	0.0487	0.128		mg/Kg-dry	1	04/02/13 03:29 PM
2,6-Dichlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2-Chlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2-Methylphenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
2-Nitrophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
4,6-Dinitro-2-methylphenol	ND	0.0292	0.0642		mg/Kg-dry	1	04/02/13 03:29 PM
4-Chloro-3-methylphenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
4-Methylphenol	ND	0.0195	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
4-Nitrophenol	ND	0.0487	0.128		mg/Kg-dry	1	04/02/13 03:29 PM
Pentachlorophenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
Phenol	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
Total Phenol (Calculated)	ND	0.00973	0.0259		mg/Kg-dry	1	04/02/13 03:29 PM
Surr: 2,4,6-Tribromophenol	92.0	0	45-126		%REC	1	04/02/13 03:29 PM
Surr: 2-Fluorobiphenyl	85.0	0	60-125		%REC	1	04/02/13 03:29 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 2-3'
Lab ID: 1303261-07
Collection Date: 03/26/13 10:02 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	85.0	0	37-125		%REC	1	04/02/13 03:29 PM
Surr: 4-Terphenyl-d14	92.0	0	45-125		%REC	1	04/02/13 03:29 PM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	04/02/13 03:29 PM
Surr: Phenol-d6	88.0	0	40-125		%REC	1	04/02/13 03:29 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Aroclor 1221	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Aroclor 1232	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Aroclor 1242	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Aroclor 1248	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Aroclor 1254	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Aroclor 1260	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 07:53 PM
Surr: 2-Fluorobiphenyl	75.2	0	43-125		%REC	1	04/02/13 07:53 PM
Surr: 4-Terphenyl-d14	86.2	0	32-125		%REC	1	04/02/13 07:53 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Toluene	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Carbon tetrachloride	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
1,2-Dichloroethane	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
1,1-Dichloroethylene	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Tetrachloroethylene	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Trichloroethylene	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Ethylbenzene	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Total Xylenes	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Methylene chloride	ND	0.00492	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Chloroform	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
1,1-Dichloroethane	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Ethylene bromide	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,1-Trichloroethane	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,2-Trichloroethane	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
1,1,2,2-Tetrachloroethane	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Vinyl chloride	ND	0.000985	0.00492		mg/Kg-dry	1	03/28/13 02:21 PM
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	1	03/28/13 02:21 PM
Surr: 4-Bromofluorobenzene	97.3	0	84-118		%REC	1	03/28/13 02:21 PM
Surr: Dibromofluoromethane	101	0	65-135		%REC	1	03/28/13 02:21 PM
Surr: Toluene-d8	96.1	0	84-116		%REC	1	03/28/13 02:21 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 2-3'
Lab ID: 1303261-07
Collection Date: 03/26/13 10:02 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.00	10.0	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.201	0.503		mg/Kg-dry	1	04/02/13 10:24 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	134	5.02	5.02		mg/Kg-dry	1	04/02/13 11:56 AM
Fluoride	1.20	1.00	1.00		mg/Kg-dry	1	04/02/13 11:56 AM
Nitrate-N	8.87	5.02	5.02		mg/Kg-dry	1	04/02/13 11:56 AM
Sulfate	77.8	10.0	10.0		mg/Kg-dry	1	04/02/13 11:56 AM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.18	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	2.54	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 5-7'
Lab ID: 1303261-08
Collection Date: 03/26/13 10:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0175	0.0436		mg/Kg-dry	1	04/03/13 01:18 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.02	0.554	1.11		mg/Kg-dry	5	04/04/13 05:50 AM
Barium	150	0.554	2.22		mg/Kg-dry	5	04/04/13 05:50 AM
Cadmium	0.205	0.111	0.332	J	mg/Kg-dry	5	04/04/13 05:50 AM
Chromium	8.35	0.554	2.22		mg/Kg-dry	5	04/04/13 05:50 AM
Copper	1.89	0.554	2.22	J	mg/Kg-dry	5	04/04/13 05:50 AM
Iron	8880	138	138		mg/Kg-dry	50	04/03/13 04:43 PM
Lead	4.10	0.111	0.332		mg/Kg-dry	5	04/04/13 05:50 AM
Manganese	82.0	0.554	2.22		mg/Kg-dry	5	04/04/13 05:50 AM
Selenium	1.14	0.166	0.554		mg/Kg-dry	5	04/04/13 05:50 AM
Silver	ND	0.111	0.222		mg/Kg-dry	5	04/04/13 05:50 AM
Zinc	14.1	1.11	2.77		mg/Kg-dry	5	04/04/13 05:50 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0122	0.0324	N	mg/Kg-dry	1	04/02/13 04:52 PM
2-Methylnaphthalene	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
Naphthalene	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
Benzo[a]pyrene	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2,3,4,6-Tetrachlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2,4,5-Trichlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2,4,6-Trichlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2,4-Dichlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2,4-Dimethylphenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2,4-Dinitrophenol	ND	0.0610	0.161		mg/Kg-dry	1	04/02/13 04:52 PM
2,6-Dichlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2-Chlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2-Methylphenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
2-Nitrophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
4,6-Dinitro-2-methylphenol	ND	0.0366	0.0805		mg/Kg-dry	1	04/02/13 04:52 PM
4-Chloro-3-methylphenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
4-Methylphenol	ND	0.0244	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
4-Nitrophenol	ND	0.0610	0.161		mg/Kg-dry	1	04/02/13 04:52 PM
Pentachlorophenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
Phenol	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
Total Phenol (Calculated)	ND	0.0122	0.0324		mg/Kg-dry	1	04/02/13 04:52 PM
Surr: 2,4,6-Tribromophenol	81.0	0	45-126		%REC	1	04/02/13 04:52 PM
Surr: 2-Fluorobiphenyl	67.0	0	60-125		%REC	1	04/02/13 04:52 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 5-7'
Lab ID: 1303261-08
Collection Date: 03/26/13 10:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	70.0	0	37-125		%REC	1	04/02/13 04:52 PM
Surr: 4-Terphenyl-d14	88.0	0	45-125		%REC	1	04/02/13 04:52 PM
Surr: Nitrobenzene-d5	63.0	0	45-125		%REC	1	04/02/13 04:52 PM
Surr: Phenol-d6	76.0	0	40-125		%REC	1	04/02/13 04:52 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Aroclor 1221	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Aroclor 1232	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Aroclor 1242	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Aroclor 1248	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Aroclor 1254	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Aroclor 1260	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 08:24 PM
Surr: 2-Fluorobiphenyl	63.1	0	43-125		%REC	1	04/02/13 08:24 PM
Surr: 4-Terphenyl-d14	87.5	0	32-125		%REC	1	04/02/13 08:24 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Toluene	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Carbon tetrachloride	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
1,2-Dichloroethane	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
1,1-Dichloroethylene	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Tetrachloroethylene	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Trichloroethylene	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Ethylbenzene	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Total Xylenes	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Methylene chloride	ND	0.00553	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Chloroform	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
1,1-Dichloroethane	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Ethylene bromide	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
1,1,1-Trichloroethane	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
1,1,2-Trichloroethane	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
1,1,2,2-Tetrachloroethane	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Vinyl chloride	ND	0.00111	0.00553		mg/Kg-dry	1	03/28/13 02:52 PM
Surr: 1,2-Dichloroethane-d4	106	0	52-149		%REC	1	03/28/13 02:52 PM
Surr: 4-Bromofluorobenzene	97.5	0	84-118		%REC	1	03/28/13 02:52 PM
Surr: Dibromofluoromethane	102	0	65-135		%REC	1	03/28/13 02:52 PM
Surr: Toluene-d8	94.1	0	84-116		%REC	1	03/28/13 02:52 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 5-7'
Lab ID: 1303261-08
Collection Date: 03/26/13 10:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	6.06	12.1	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.222	0.556		mg/Kg-dry	1	04/02/13 10:24 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	202	6.21	6.21		mg/Kg-dry	1	04/02/13 12:27 PM
Fluoride	2.63	1.24	1.24		mg/Kg-dry	1	04/02/13 12:27 PM
Nitrate-N	ND	6.21	6.21		mg/Kg-dry	1	04/02/13 12:27 PM
Sulfate	51.1	12.4	12.4		mg/Kg-dry	1	04/02/13 12:27 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.90	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	20.8	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 7-9'
Lab ID: 1303261-09
Collection Date: 03/26/13 10:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0175	0.0436		mg/Kg-dry	1	04/03/13 01:20 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.60	0.557	1.11		mg/Kg-dry	5	04/04/13 05:56 AM
Barium	149	0.557	2.23		mg/Kg-dry	5	04/04/13 05:56 AM
Cadmium	0.149	0.111	0.334	J	mg/Kg-dry	5	04/04/13 05:56 AM
Chromium	7.71	0.557	2.23		mg/Kg-dry	5	04/04/13 05:56 AM
Copper	1.62	0.557	2.23	J	mg/Kg-dry	5	04/04/13 05:56 AM
Iron	8110	139	139		mg/Kg-dry	50	04/03/13 04:50 PM
Lead	3.44	0.111	0.334		mg/Kg-dry	5	04/04/13 05:56 AM
Manganese	41.0	0.557	2.23		mg/Kg-dry	5	04/04/13 05:56 AM
Selenium	0.831	0.167	0.557		mg/Kg-dry	5	04/04/13 05:56 AM
Silver	ND	0.111	0.223		mg/Kg-dry	5	04/04/13 05:56 AM
Zinc	13.9	1.11	2.79		mg/Kg-dry	5	04/04/13 05:56 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0111	0.0296	N	mg/Kg-dry	1	04/02/13 04:16 PM
2-Methylnaphthalene	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
Naphthalene	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
Benzo[a]pyrene	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2,3,4,6-Tetrachlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2,4,5-Trichlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2,4,6-Trichlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2,4-Dichlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2,4-Dimethylphenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2,4-Dinitrophenol	ND	0.0557	0.147		mg/Kg-dry	1	04/02/13 04:16 PM
2,6-Dichlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2-Chlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2-Methylphenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
2-Nitrophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
4,6-Dinitro-2-methylphenol	ND	0.0334	0.0735		mg/Kg-dry	1	04/02/13 04:16 PM
4-Chloro-3-methylphenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
4-Methylphenol	ND	0.0223	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
4-Nitrophenol	ND	0.0557	0.147		mg/Kg-dry	1	04/02/13 04:16 PM
Pentachlorophenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
Phenol	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
Total Phenol (Calculated)	ND	0.0111	0.0296		mg/Kg-dry	1	04/02/13 04:16 PM
Surr: 2,4,6-Tribromophenol	76.0	0	45-126		%REC	1	04/02/13 04:16 PM
Surr: 2-Fluorobiphenyl	70.0	0	60-125		%REC	1	04/02/13 04:16 PM

Qualifiers: * Value exceeds TCLP Maximum Concentration Level
 C Sample Result or QC discussed in the Case Narrative
 E TPH pattern not Gas or Diesel Range Pattern
 MDL Method Detection Limit
 RL Reporting Limit
 N Parameter not NELAC certified
 B Analyte detected in the associated Method Blank
 DF Dilution Factor
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 S Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 7-9'
Lab ID: 1303261-09
Collection Date: 03/26/13 10:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	75.0	0	37-125		%REC	1	04/02/13 04:16 PM
Surr: 4-Terphenyl-d14	76.0	0	45-125		%REC	1	04/02/13 04:16 PM
Surr: Nitrobenzene-d5	71.0	0	45-125		%REC	1	04/02/13 04:16 PM
Surr: Phenol-d6	76.0	0	40-125		%REC	1	04/02/13 04:16 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Aroclor 1221	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Aroclor 1232	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Aroclor 1242	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Aroclor 1248	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Aroclor 1254	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Aroclor 1260	ND	0.0186	0.0371		mg/Kg-dry	1	04/02/13 08:54 PM
Surr: 2-Fluorobiphenyl	65.2	0	43-125		%REC	1	04/02/13 08:54 PM
Surr: 4-Terphenyl-d14	70.3	0	32-125		%REC	1	04/02/13 08:54 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Toluene	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Carbon tetrachloride	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
1,2-Dichloroethane	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
1,1-Dichloroethylene	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Tetrachloroethylene	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Trichloroethylene	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Ethylbenzene	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Total Xylenes	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Methylene chloride	ND	0.00562	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Chloroform	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
1,1-Dichloroethane	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Ethylene bromide	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
1,1,1-Trichloroethane	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
1,1,2-Trichloroethane	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
1,1,2,2-Tetrachloroethane	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Vinyl chloride	ND	0.00112	0.00562		mg/Kg-dry	1	03/28/13 03:24 PM
Surr: 1,2-Dichloroethane-d4	105	0	52-149		%REC	1	03/28/13 03:24 PM
Surr: 4-Bromofluorobenzene	98.5	0	84-118		%REC	1	03/28/13 03:24 PM
Surr: Dibromofluoromethane	102	0	65-135		%REC	1	03/28/13 03:24 PM
Surr: Toluene-d8	95.3	0	84-116		%REC	1	03/28/13 03:24 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 7-9'
Lab ID: 1303261-09
Collection Date: 03/26/13 10:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.57	11.1	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.201	0.504		mg/Kg-dry	1	04/02/13 10:24 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	251	5.63	5.63		mg/Kg-dry	1	04/02/13 12:41 PM
Fluoride	6.24	1.13	1.13		mg/Kg-dry	1	04/02/13 12:41 PM
Nitrate-N	ND	5.63	5.63		mg/Kg-dry	1	04/02/13 12:41 PM
Sulfate	ND	11.3	11.3		mg/Kg-dry	1	04/02/13 12:41 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.93	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	12.9	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 10-12'
Lab ID: 1303261-11
Collection Date: 03/26/13 10:25 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0152	0.0379		mg/Kg-dry	1	04/03/13 01:22 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.13	0.471	0.941		mg/Kg-dry	5	04/04/13 06:02 AM
Barium	252	0.471	1.88		mg/Kg-dry	5	04/04/13 06:02 AM
Cadmium	0.113	0.0941	0.282	J	mg/Kg-dry	5	04/04/13 06:02 AM
Chromium	3.44	0.471	1.88		mg/Kg-dry	5	04/04/13 06:02 AM
Copper	1.28	0.471	1.88	J	mg/Kg-dry	5	04/04/13 06:02 AM
Iron	4600	118	118		mg/Kg-dry	50	04/03/13 04:56 PM
Lead	2.38	0.0941	0.282		mg/Kg-dry	5	04/04/13 06:02 AM
Manganese	55.5	0.471	1.88		mg/Kg-dry	5	04/04/13 06:02 AM
Selenium	0.909	0.141	0.471		mg/Kg-dry	5	04/04/13 06:02 AM
Silver	ND	0.0941	0.188		mg/Kg-dry	5	04/04/13 06:02 AM
Zinc	6.93	0.941	2.35		mg/Kg-dry	5	04/04/13 06:02 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0104	0.0276	N	mg/Kg-dry	1	04/02/13 04:39 PM
2-Methylnaphthalene	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
Naphthalene	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
Benzo[a]pyrene	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2,3,4,6-Tetrachlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2,4,5-Trichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2,4,6-Trichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2,4-Dichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2,4-Dimethylphenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2,4-Dinitrophenol	ND	0.0519	0.137		mg/Kg-dry	1	04/02/13 04:39 PM
2,6-Dichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2-Chlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2-Methylphenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
2-Nitrophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
4,6-Dinitro-2-methylphenol	ND	0.0311	0.0685		mg/Kg-dry	1	04/02/13 04:39 PM
4-Chloro-3-methylphenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
4-Methylphenol	ND	0.0207	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
4-Nitrophenol	ND	0.0519	0.137		mg/Kg-dry	1	04/02/13 04:39 PM
Pentachlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
Phenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
Total Phenol (Calculated)	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 04:39 PM
Surr: 2,4,6-Tribromophenol	87.0	0	45-126		%REC	1	04/02/13 04:39 PM
Surr: 2-Fluorobiphenyl	83.0	0	60-125		%REC	1	04/02/13 04:39 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 10-12'
Lab ID: 1303261-11
Collection Date: 03/26/13 10:25 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	85.0	0	37-125		%REC	1	04/02/13 04:39 PM
Surr: 4-Terphenyl-d14	90.0	0	45-125		%REC	1	04/02/13 04:39 PM
Surr: Nitrobenzene-d5	81.0	0	45-125		%REC	1	04/02/13 04:39 PM
Surr: Phenol-d6	86.0	0	40-125		%REC	1	04/02/13 04:39 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Aroclor 1221	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Aroclor 1232	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Aroclor 1242	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Aroclor 1248	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Aroclor 1254	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Aroclor 1260	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 09:26 PM
Surr: 2-Fluorobiphenyl	73.9	0	43-125		%REC	1	04/02/13 09:26 PM
Surr: 4-Terphenyl-d14	80.1	0	32-125		%REC	1	04/02/13 09:26 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Toluene	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Carbon tetrachloride	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
1,2-Dichloroethane	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
1,1-Dichloroethylene	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Tetrachloroethylene	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Trichloroethylene	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Ethylbenzene	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Total Xylenes	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Methylene chloride	ND	0.00524	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Chloroform	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
1,1-Dichloroethane	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Ethylene bromide	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
1,1,1-Trichloroethane	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
1,1,2-Trichloroethane	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
1,1,2,2-Tetrachloroethane	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Vinyl chloride	ND	0.00105	0.00524		mg/Kg-dry	1	03/28/13 03:55 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	03/28/13 03:55 PM
Surr: 4-Bromofluorobenzene	98.1	0	84-118		%REC	1	03/28/13 03:55 PM
Surr: Dibromofluoromethane	104	0	65-135		%REC	1	03/28/13 03:55 PM
Surr: Toluene-d8	93.8	0	84-116		%REC	1	03/28/13 03:55 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-5 10-12'
Lab ID: 1303261-11
Collection Date: 03/26/13 10:25 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.34	10.7	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.196	0.490		mg/Kg-dry	1	04/02/13 10:26 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	18.0	5.40	5.40		mg/Kg-dry	1	04/02/13 12:56 PM
Fluoride	6.92	1.08	1.08		mg/Kg-dry	1	04/02/13 12:56 PM
Nitrate-N	ND	5.40	5.40		mg/Kg-dry	1	04/02/13 12:56 PM
Sulfate	16.1	10.8	10.8		mg/Kg-dry	1	04/02/13 12:56 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.41	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	8.41	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 2-3'
Lab ID: 1303261-13
Collection Date: 03/26/13 10:55 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0144	0.0359		mg/Kg-dry	1	04/03/13 01:24 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.36	0.481	0.962		mg/Kg-dry	5	04/04/13 06:08 AM
Barium	21.3	0.481	1.92		mg/Kg-dry	5	04/04/13 06:08 AM
Cadmium	0.0972	0.0962	0.289	J	mg/Kg-dry	5	04/04/13 06:08 AM
Chromium	5.14	0.481	1.92		mg/Kg-dry	5	04/04/13 06:08 AM
Copper	1.37	0.481	1.92	J	mg/Kg-dry	5	04/04/13 06:08 AM
Iron	5720	120	120		mg/Kg-dry	50	04/03/13 05:02 PM
Lead	2.71	0.0962	0.289		mg/Kg-dry	5	04/04/13 06:08 AM
Manganese	46.7	0.481	1.92		mg/Kg-dry	5	04/04/13 06:08 AM
Selenium	0.745	0.144	0.481		mg/Kg-dry	5	04/04/13 06:08 AM
Silver	ND	0.0962	0.192		mg/Kg-dry	5	04/04/13 06:08 AM
Zinc	10.3	0.962	2.41		mg/Kg-dry	5	04/04/13 06:08 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.00971	0.0258	N	mg/Kg-dry	1	04/02/13 05:02 PM
2-Methylnaphthalene	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
Naphthalene	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
Benzo[a]pyrene	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2,3,4,6-Tetrachlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2,4,5-Trichlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2,4,6-Trichlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2,4-Dichlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2,4-Dimethylphenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2,4-Dinitrophenol	ND	0.0485	0.128		mg/Kg-dry	1	04/02/13 05:02 PM
2,6-Dichlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2-Chlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2-Methylphenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
2-Nitrophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
4,6-Dinitro-2-methylphenol	ND	0.0291	0.0641		mg/Kg-dry	1	04/02/13 05:02 PM
4-Chloro-3-methylphenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
4-Methylphenol	ND	0.0194	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
4-Nitrophenol	ND	0.0485	0.128		mg/Kg-dry	1	04/02/13 05:02 PM
Pentachlorophenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
Phenol	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
Total Phenol (Calculated)	ND	0.00971	0.0258		mg/Kg-dry	1	04/02/13 05:02 PM
Surr: 2,4,6-Tribromophenol	89.0	0	45-126		%REC	1	04/02/13 05:02 PM
Surr: 2-Fluorobiphenyl	87.0	0	60-125		%REC	1	04/02/13 05:02 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 2-3'
Lab ID: 1303261-13
Collection Date: 03/26/13 10:55 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	88.0	0	37-125		%REC	1	04/02/13 05:02 PM
Surr: 4-Terphenyl-d14	91.0	0	45-125		%REC	1	04/02/13 05:02 PM
Surr: Nitrobenzene-d5	83.0	0	45-125		%REC	1	04/02/13 05:02 PM
Surr: Phenol-d6	90.0	0	40-125		%REC	1	04/02/13 05:02 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Aroclor 1221	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Aroclor 1232	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Aroclor 1242	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Aroclor 1248	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Aroclor 1254	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Aroclor 1260	ND	0.0162	0.0324		mg/Kg-dry	1	04/02/13 09:57 PM
Surr: 2-Fluorobiphenyl	81.1	0	43-125		%REC	1	04/02/13 09:57 PM
Surr: 4-Terphenyl-d14	86.4	0	32-125		%REC	1	04/02/13 09:57 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Toluene	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Carbon tetrachloride	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
1,2-Dichloroethane	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
1,1-Dichloroethylene	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Tetrachloroethylene	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Trichloroethylene	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Ethylbenzene	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Total Xylenes	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Methylene chloride	ND	0.00456	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Chloroform	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
1,1-Dichloroethane	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Ethylene bromide	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
1,1,1-Trichloroethane	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
1,1,2-Trichloroethane	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
1,1,2,2-Tetrachloroethane	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Vinyl chloride	ND	0.000912	0.00456		mg/Kg-dry	1	03/28/13 04:26 PM
Surr: 1,2-Dichloroethane-d4	105	0	52-149		%REC	1	03/28/13 04:26 PM
Surr: 4-Bromofluorobenzene	96.7	0	84-118		%REC	1	03/28/13 04:26 PM
Surr: Dibromofluoromethane	104	0	65-135		%REC	1	03/28/13 04:26 PM
Surr: Toluene-d8	95.5	0	84-116		%REC	1	03/28/13 04:26 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 2-3'
Lab ID: 1303261-13
Collection Date: 03/26/13 10:55 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.00	10.0	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.169	0.423		mg/Kg-dry	1	04/02/13 10:26 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	80.3	5.03	5.03		mg/Kg-dry	1	04/02/13 01:11 PM
Fluoride	1.13	1.01	1.01		mg/Kg-dry	1	04/02/13 01:11 PM
Nitrate-N	ND	5.03	5.03		mg/Kg-dry	1	04/02/13 01:11 PM
Sulfate	122	10.1	10.1		mg/Kg-dry	1	04/02/13 01:11 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.75	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	1.94	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 5-7'
Lab ID: 1303261-14
Collection Date: 03/26/13 11:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0156	0.0389		mg/Kg-dry	1	04/03/13 01:30 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.58	0.514	1.03		mg/Kg-dry	5	04/04/13 06:14 AM
Barium	50.0	0.514	2.06		mg/Kg-dry	5	04/04/13 06:14 AM
Cadmium	0.151	0.103	0.308	J	mg/Kg-dry	5	04/04/13 06:14 AM
Chromium	7.27	0.514	2.06		mg/Kg-dry	5	04/04/13 06:14 AM
Copper	1.68	0.514	2.06	J	mg/Kg-dry	5	04/04/13 06:14 AM
Iron	7580	128	128		mg/Kg-dry	50	04/03/13 05:08 PM
Lead	3.52	0.103	0.308		mg/Kg-dry	5	04/04/13 06:14 AM
Manganese	41.9	0.514	2.06		mg/Kg-dry	5	04/04/13 06:14 AM
Selenium	1.28	0.154	0.514		mg/Kg-dry	5	04/04/13 06:14 AM
Silver	ND	0.103	0.206		mg/Kg-dry	5	04/04/13 06:14 AM
Zinc	12.8	1.03	2.57		mg/Kg-dry	5	04/04/13 06:14 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0102	0.0272	N	mg/Kg-dry	1	04/02/13 05:26 PM
2-Methylnaphthalene	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
Naphthalene	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
Benzo[a]pyrene	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2,3,4,6-Tetrachlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2,4,5-Trichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2,4,6-Trichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2,4-Dichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2,4-Dimethylphenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2,4-Dinitrophenol	ND	0.0511	0.135		mg/Kg-dry	1	04/02/13 05:26 PM
2,6-Dichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2-Chlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2-Methylphenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
2-Nitrophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
4,6-Dinitro-2-methylphenol	ND	0.0306	0.0674		mg/Kg-dry	1	04/02/13 05:26 PM
4-Chloro-3-methylphenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
4-Methylphenol	ND	0.0204	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
4-Nitrophenol	ND	0.0511	0.135		mg/Kg-dry	1	04/02/13 05:26 PM
Pentachlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
Phenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
Total Phenol (Calculated)	ND	0.0102	0.0272		mg/Kg-dry	1	04/02/13 05:26 PM
Surr: 2,4,6-Tribromophenol	86.0	0	45-126		%REC	1	04/02/13 05:26 PM
Surr: 2-Fluorobiphenyl	83.0	0	60-125		%REC	1	04/02/13 05:26 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 5-7'
Lab ID: 1303261-14
Collection Date: 03/26/13 11:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D		Analyst: CZ			
Surr: 2-Fluorophenol	82.0	0	37-125		%REC	1	04/02/13 05:26 PM
Surr: 4-Terphenyl-d14	86.0	0	45-125		%REC	1	04/02/13 05:26 PM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	04/02/13 05:26 PM
Surr: Phenol-d6	85.0	0	40-125		%REC	1	04/02/13 05:26 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D		Analyst: AJR			
Aroclor 1016	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Aroclor 1221	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Aroclor 1232	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Aroclor 1242	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Aroclor 1248	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Aroclor 1254	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Aroclor 1260	ND	0.0170	0.0340		mg/Kg-dry	1	04/02/13 10:28 PM
Surr: 2-Fluorobiphenyl	80.1	0	43-125		%REC	1	04/02/13 10:28 PM
Surr: 4-Terphenyl-d14	87.0	0	32-125		%REC	1	04/02/13 10:28 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Benzene	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Toluene	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Carbon tetrachloride	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
1,2-Dichloroethane	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
1,1-Dichloroethylene	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Tetrachloroethylene	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Trichloroethylene	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Ethylbenzene	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Total Xylenes	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Methylene chloride	ND	0.00483	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Chloroform	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
1,1-Dichloroethane	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Ethylene bromide	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
1,1,1-Trichloroethane	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
1,1,2-Trichloroethane	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
1,1,2,2-Tetrachloroethane	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Vinyl chloride	ND	0.000967	0.00483		mg/Kg-dry	1	03/28/13 04:58 PM
Surr: 1,2-Dichloroethane-d4	107	0	52-149		%REC	1	03/28/13 04:58 PM
Surr: 4-Bromofluorobenzene	96.8	0	84-118		%REC	1	03/28/13 04:58 PM
Surr: Dibromofluoromethane	103	0	65-135		%REC	1	03/28/13 04:58 PM
Surr: Toluene-d8	95.6	0	84-116		%REC	1	03/28/13 04:58 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 5-7'
Lab ID: 1303261-14
Collection Date: 03/26/13 11:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.22	10.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.188	0.471		mg/Kg-dry	1	04/02/13 10:26 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	44.5	5.30	5.30		mg/Kg-dry	1	04/02/13 01:25 PM
Fluoride	1.72	1.06	1.06		mg/Kg-dry	1	04/02/13 01:25 PM
Nitrate-N	ND	5.30	5.30		mg/Kg-dry	1	04/02/13 01:25 PM
Sulfate	ND	10.6	10.6		mg/Kg-dry	1	04/02/13 01:25 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.80	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	6.45	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 7-8.5'
Lab ID: 1303261-15
Collection Date: 03/26/13 11:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0158	0.0396		mg/Kg-dry	1	04/03/13 01:32 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.77	0.570	1.14		mg/Kg-dry	5	04/04/13 07:22 AM
Barium	51.2	0.570	2.28		mg/Kg-dry	5	04/04/13 07:22 AM
Cadmium	0.133	0.114	0.342	J	mg/Kg-dry	5	04/04/13 07:22 AM
Chromium	10.3	0.570	2.28		mg/Kg-dry	5	04/04/13 07:22 AM
Copper	2.58	0.570	2.28		mg/Kg-dry	5	04/04/13 07:22 AM
Iron	11200	142	142		mg/Kg-dry	50	04/03/13 07:23 PM
Lead	5.04	0.114	0.342		mg/Kg-dry	5	04/04/13 07:22 AM
Manganese	62.3	0.570	2.28		mg/Kg-dry	5	04/04/13 07:22 AM
Selenium	1.65	0.171	0.570		mg/Kg-dry	5	04/04/13 07:22 AM
Silver	ND	0.114	0.228		mg/Kg-dry	5	04/04/13 07:22 AM
Zinc	20.5	1.14	2.85		mg/Kg-dry	5	04/04/13 07:22 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0113	0.0301	N	mg/Kg-dry	1	04/02/13 05:49 PM
2-Methylnaphthalene	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
Naphthalene	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
Benzo[a]pyrene	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2,3,4,6-Tetrachlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2,4,5-Trichlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2,4,6-Trichlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2,4-Dichlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2,4-Dimethylphenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2,4-Dinitrophenol	ND	0.0566	0.149		mg/Kg-dry	1	04/02/13 05:49 PM
2,6-Dichlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2-Chlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2-Methylphenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
2-Nitrophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
4,6-Dinitro-2-methylphenol	ND	0.0339	0.0747		mg/Kg-dry	1	04/02/13 05:49 PM
4-Chloro-3-methylphenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
4-Methylphenol	ND	0.0226	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
4-Nitrophenol	ND	0.0566	0.149		mg/Kg-dry	1	04/02/13 05:49 PM
Pentachlorophenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
Phenol	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
Total Phenol (Calculated)	ND	0.0113	0.0301		mg/Kg-dry	1	04/02/13 05:49 PM
Surr: 2,4,6-Tribromophenol	89.0	0	45-126		%REC	1	04/02/13 05:49 PM
Surr: 2-Fluorobiphenyl	85.0	0	60-125		%REC	1	04/02/13 05:49 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 7-8.5'
Lab ID: 1303261-15
Collection Date: 03/26/13 11:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	86.0	0	37-125		%REC	1	04/02/13 05:49 PM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	04/02/13 05:49 PM
Surr: Nitrobenzene-d5	81.0	0	45-125		%REC	1	04/02/13 05:49 PM
Surr: Phenol-d6	87.0	0	40-125		%REC	1	04/02/13 05:49 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Aroclor 1221	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Aroclor 1232	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Aroclor 1242	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Aroclor 1248	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Aroclor 1254	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Aroclor 1260	ND	0.0189	0.0377		mg/Kg-dry	1	04/02/13 10:59 PM
Surr: 2-Fluorobiphenyl	77.5	0	43-125		%REC	1	04/02/13 10:59 PM
Surr: 4-Terphenyl-d14	84.4	0	32-125		%REC	1	04/02/13 10:59 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Toluene	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Carbon tetrachloride	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
1,2-Dichloroethane	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
1,1-Dichloroethylene	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Tetrachloroethylene	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Trichloroethylene	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Ethylbenzene	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Total Xylenes	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Methylene chloride	ND	0.00559	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Chloroform	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
1,1-Dichloroethane	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Ethylene bromide	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
1,1,1-Trichloroethane	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
1,1,2-Trichloroethane	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
1,1,2,2-Tetrachloroethane	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Vinyl chloride	ND	0.00112	0.00559		mg/Kg-dry	1	03/28/13 05:29 PM
Surr: 1,2-Dichloroethane-d4	116	0	52-149		%REC	1	03/28/13 05:29 PM
Surr: 4-Bromofluorobenzene	96.3	0	84-118		%REC	1	03/28/13 05:29 PM
Surr: Dibromofluoromethane	105	0	65-135		%REC	1	03/28/13 05:29 PM
Surr: Toluene-d8	94.3	0	84-116		%REC	1	03/28/13 05:29 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 7-8.5'
Lab ID: 1303261-15
Collection Date: 03/26/13 11:10 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.79	11.6	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.211	0.528		mg/Kg-dry	1	04/02/13 10:26 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	7.06	5.77	5.77		mg/Kg-dry	1	04/02/13 01:40 PM
Fluoride	2.91	1.15	1.15		mg/Kg-dry	1	04/02/13 01:40 PM
Nitrate-N	ND	5.77	5.77		mg/Kg-dry	1	04/02/13 01:40 PM
Sulfate	ND	11.5	11.5		mg/Kg-dry	1	04/02/13 01:40 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.86	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	14.0	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 10-12'
Lab ID: 1303261-16
Collection Date: 03/26/13 10:23 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0189	0.0473		mg/Kg-dry	1	04/03/13 01:34 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.45	0.607	1.21		mg/Kg-dry	5	04/04/13 07:28 AM
Barium	48.9	0.607	2.43		mg/Kg-dry	5	04/04/13 07:28 AM
Cadmium	ND	0.121	0.364		mg/Kg-dry	5	04/04/13 07:28 AM
Chromium	12.5	0.607	2.43		mg/Kg-dry	5	04/04/13 07:28 AM
Copper	3.82	0.607	2.43		mg/Kg-dry	5	04/04/13 07:28 AM
Iron	13600	152	152		mg/Kg-dry	50	04/03/13 07:29 PM
Lead	5.98	0.121	0.364		mg/Kg-dry	5	04/04/13 07:28 AM
Manganese	73.3	0.607	2.43		mg/Kg-dry	5	04/04/13 07:28 AM
Selenium	0.932	0.182	0.607		mg/Kg-dry	5	04/04/13 07:28 AM
Silver	ND	0.121	0.243		mg/Kg-dry	5	04/04/13 07:28 AM
Zinc	22.4	1.21	3.04		mg/Kg-dry	5	04/04/13 07:28 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0122	0.0325	N	mg/Kg-dry	1	04/02/13 06:12 PM
2-Methylnaphthalene	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
Naphthalene	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
Benzo[a]pyrene	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2,3,4,6-Tetrachlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2,4,5-Trichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2,4,6-Trichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2,4-Dichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2,4-Dimethylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2,4-Dinitrophenol	ND	0.0610	0.161		mg/Kg-dry	1	04/02/13 06:12 PM
2,6-Dichlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2-Chlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2-Methylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
2-Nitrophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
4,6-Dinitro-2-methylphenol	ND	0.0366	0.0805		mg/Kg-dry	1	04/02/13 06:12 PM
4-Chloro-3-methylphenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
4-Methylphenol	ND	0.0244	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
4-Nitrophenol	ND	0.0610	0.161		mg/Kg-dry	1	04/02/13 06:12 PM
Pentachlorophenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
Phenol	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
Total Phenol (Calculated)	ND	0.0122	0.0325		mg/Kg-dry	1	04/02/13 06:12 PM
Surr: 2,4,6-Tribromophenol	82.0	0	45-126		%REC	1	04/02/13 06:12 PM
Surr: 2-Fluorobiphenyl	79.0	0	60-125		%REC	1	04/02/13 06:12 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 10-12'
Lab ID: 1303261-16
Collection Date: 03/26/13 10:23 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	04/02/13 06:12 PM
Surr: 4-Terphenyl-d14	81.0	0	45-125		%REC	1	04/02/13 06:12 PM
Surr: Nitrobenzene-d5	76.0	0	45-125		%REC	1	04/02/13 06:12 PM
Surr: Phenol-d6	81.0	0	40-125		%REC	1	04/02/13 06:12 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Aroclor 1221	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Aroclor 1232	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Aroclor 1242	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Aroclor 1248	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Aroclor 1254	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Aroclor 1260	ND	0.0203	0.0407		mg/Kg-dry	1	04/02/13 11:30 PM
Surr: 2-Fluorobiphenyl	72.2	0	43-125		%REC	1	04/02/13 11:30 PM
Surr: 4-Terphenyl-d14	80.3	0	32-125		%REC	1	04/02/13 11:30 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Toluene	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Carbon tetrachloride	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
1,2-Dichloroethane	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
1,1-Dichloroethylene	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Tetrachloroethylene	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Trichloroethylene	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Ethylbenzene	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Total Xylenes	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Methylene chloride	ND	0.00606	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Chloroform	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
1,1-Dichloroethane	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Ethylene bromide	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
1,1,1-Trichloroethane	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
1,1,2-Trichloroethane	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
1,1,2,2-Tetrachloroethane	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Vinyl chloride	ND	0.00121	0.00606		mg/Kg-dry	1	03/28/13 06:01 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	03/28/13 06:01 PM
Surr: 4-Bromofluorobenzene	98.1	0	84-118		%REC	1	03/28/13 06:01 PM
Surr: Dibromofluoromethane	102	0	65-135		%REC	1	03/28/13 06:01 PM
Surr: Toluene-d8	95.7	0	84-116		%REC	1	03/28/13 06:01 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-2 10-12'
Lab ID: 1303261-16
Collection Date: 03/26/13 10:23 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	6.09	12.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.194	0.485		mg/Kg-dry	1	04/02/13 10:26 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	ND	6.29	6.29		mg/Kg-dry	1	04/02/13 01:55 PM
Fluoride	2.93	1.26	1.26		mg/Kg-dry	1	04/02/13 01:55 PM
Nitrate-N	ND	6.29	6.29		mg/Kg-dry	1	04/02/13 01:55 PM
Sulfate	ND	12.6	12.6		mg/Kg-dry	1	04/02/13 01:55 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.86	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	21.6	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 2-3'
Lab ID: 1303261-18
Collection Date: 03/26/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.00826	0.0207		mg/Kg-dry	1	04/03/13 01:37 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.05	0.258	0.517		mg/Kg-dry	5	04/04/13 07:34 AM
Barium	15.8	0.258	1.03		mg/Kg-dry	5	04/04/13 07:34 AM
Cadmium	0.0917	0.0517	0.155	J	mg/Kg-dry	5	04/04/13 07:34 AM
Chromium	3.55	0.258	1.03		mg/Kg-dry	5	04/04/13 07:34 AM
Copper	1.16	0.258	1.03		mg/Kg-dry	5	04/04/13 07:34 AM
Iron	4050	64.6	64.6		mg/Kg-dry	50	04/03/13 07:35 PM
Lead	1.93	0.0517	0.155		mg/Kg-dry	5	04/04/13 07:34 AM
Manganese	35.7	0.258	1.03		mg/Kg-dry	5	04/04/13 07:34 AM
Selenium	0.540	0.0775	0.258		mg/Kg-dry	5	04/04/13 07:34 AM
Silver	ND	0.0517	0.103		mg/Kg-dry	5	04/04/13 07:34 AM
Zinc	6.71	0.517	1.29		mg/Kg-dry	5	04/04/13 07:34 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0106	0.0281	N	mg/Kg-dry	1	04/02/13 06:35 PM
2-Methylnaphthalene	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
Naphthalene	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
Benzo[a]pyrene	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2,4-Dichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2,4-Dimethylphenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2,4-Dinitrophenol	ND	0.0529	0.140		mg/Kg-dry	1	04/02/13 06:35 PM
2,6-Dichlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2-Chlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2-Methylphenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
2-Nitrophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
4,6-Dinitro-2-methylphenol	ND	0.0317	0.0698		mg/Kg-dry	1	04/02/13 06:35 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
4-Methylphenol	ND	0.0211	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
4-Nitrophenol	ND	0.0529	0.140		mg/Kg-dry	1	04/02/13 06:35 PM
Pentachlorophenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
Phenol	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
Total Phenol (Calculated)	ND	0.0106	0.0281		mg/Kg-dry	1	04/02/13 06:35 PM
Surr: 2,4,6-Tribromophenol	84.0	0	45-126		%REC	1	04/02/13 06:35 PM
Surr: 2-Fluorobiphenyl	81.0	0	60-125		%REC	1	04/02/13 06:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 2-3'
Lab ID: 1303261-18
Collection Date: 03/26/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	83.0	0	37-125		%REC	1	04/02/13 06:35 PM
Surr: 4-Terphenyl-d14	84.0	0	45-125		%REC	1	04/02/13 06:35 PM
Surr: Nitrobenzene-d5	78.0	0	45-125		%REC	1	04/02/13 06:35 PM
Surr: Phenol-d6	84.0	0	40-125		%REC	1	04/02/13 06:35 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Aroclor 1221	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Aroclor 1232	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Aroclor 1242	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Aroclor 1248	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Aroclor 1254	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Aroclor 1260	ND	0.0176	0.0352		mg/Kg-dry	1	04/03/13 12:01 AM
Surr: 2-Fluorobiphenyl	74.7	0	43-125		%REC	1	04/03/13 12:01 AM
Surr: 4-Terphenyl-d14	78.7	0	32-125		%REC	1	04/03/13 12:01 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Toluene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Carbon tetrachloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
1,2-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
1,1-Dichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Tetrachloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Trichloroethylene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Ethylbenzene	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Total Xylenes	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Methylene chloride	ND	0.00514	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Chloroform	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
1,1-Dichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Ethylene bromide	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
1,1,1-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
1,1,2-Trichloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
1,1,2,2-Tetrachloroethane	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Vinyl chloride	ND	0.00103	0.00514		mg/Kg-dry	1	03/28/13 06:32 PM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	1	03/28/13 06:32 PM
Surr: 4-Bromofluorobenzene	98.6	0	84-118		%REC	1	03/28/13 06:32 PM
Surr: Dibromofluoromethane	104	0	65-135		%REC	1	03/28/13 06:32 PM
Surr: Toluene-d8	97.5	0	84-116		%REC	1	03/28/13 06:32 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 2-3'
Lab ID: 1303261-18
Collection Date: 03/26/13 12:05 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.13	10.3	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.206	0.514		mg/Kg-dry	1	04/02/13 10:26 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	386	52.6	52.6		mg/Kg-dry	10	04/02/13 03:59 PM
Fluoride	2.18	1.05	1.05		mg/Kg-dry	1	04/02/13 02:10 PM
Nitrate-N	8.45	5.26	5.26		mg/Kg-dry	1	04/02/13 02:10 PM
Sulfate	163	10.5	10.5		mg/Kg-dry	1	04/02/13 02:10 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	8.61	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	5.62	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 5-7'
Lab ID: 1303261-19
Collection Date: 03/26/13 12:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0150	0.0375		mg/Kg-dry	1	04/03/13 01:39 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	2.04	0.466	0.932		mg/Kg-dry	5	04/04/13 07:40 AM
Barium	87.8	0.466	1.86		mg/Kg-dry	5	04/04/13 07:40 AM
Cadmium	0.207	0.0932	0.280	J	mg/Kg-dry	5	04/04/13 07:40 AM
Chromium	7.63	0.466	1.86		mg/Kg-dry	5	04/04/13 07:40 AM
Copper	3.31	0.466	1.86		mg/Kg-dry	5	04/04/13 07:40 AM
Iron	8150	117	117		mg/Kg-dry	50	04/03/13 07:41 PM
Lead	4.16	0.0932	0.280		mg/Kg-dry	5	04/04/13 07:40 AM
Manganese	98.2	0.466	1.86		mg/Kg-dry	5	04/04/13 07:40 AM
Selenium	1.21	0.140	0.466		mg/Kg-dry	5	04/04/13 07:40 AM
Silver	ND	0.0932	0.186		mg/Kg-dry	5	04/04/13 07:40 AM
Zinc	15.5	0.932	2.33		mg/Kg-dry	5	04/04/13 07:40 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0106	0.0282	N	mg/Kg-dry	1	04/02/13 07:44 PM
2-Methylnaphthalene	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
Naphthalene	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
Benzo[a]pyrene	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2,3,4,6-Tetrachlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2,4,5-Trichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2,4,6-Trichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2,4-Dichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2,4-Dimethylphenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2,4-Dinitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	04/02/13 07:44 PM
2,6-Dichlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2-Chlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2-Methylphenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
2-Nitrophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
4,6-Dinitro-2-methylphenol	ND	0.0318	0.0701		mg/Kg-dry	1	04/02/13 07:44 PM
4-Chloro-3-methylphenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
4-Methylphenol	ND	0.0212	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
4-Nitrophenol	ND	0.0531	0.140		mg/Kg-dry	1	04/02/13 07:44 PM
Pentachlorophenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
Phenol	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
Total Phenol (Calculated)	ND	0.0106	0.0282		mg/Kg-dry	1	04/02/13 07:44 PM
Surr: 2,4,6-Tribromophenol	88.0	0	45-126		%REC	1	04/02/13 07:44 PM
Surr: 2-Fluorobiphenyl	82.0	0	60-125		%REC	1	04/02/13 07:44 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 5-7'
Lab ID: 1303261-19
Collection Date: 03/26/13 12:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	81.0	0	37-125		%REC	1	04/02/13 07:44 PM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	04/02/13 07:44 PM
Surr: Nitrobenzene-d5	76.0	0	45-125		%REC	1	04/02/13 07:44 PM
Surr: Phenol-d6	84.0	0	40-125		%REC	1	04/02/13 07:44 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Aroclor 1221	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Aroclor 1232	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Aroclor 1242	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Aroclor 1248	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Aroclor 1254	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Aroclor 1260	ND	0.0177	0.0354		mg/Kg-dry	1	04/03/13 12:32 AM
Surr: 2-Fluorobiphenyl	75.8	0	43-125		%REC	1	04/03/13 12:32 AM
Surr: 4-Terphenyl-d14	90.0	0	32-125		%REC	1	04/03/13 12:32 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Toluene	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Carbon tetrachloride	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
1,2-Dichloroethane	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
1,1-Dichloroethylene	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Tetrachloroethylene	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Trichloroethylene	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Ethylbenzene	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Total Xylenes	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Methylene chloride	ND	0.00486	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Chloroform	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
1,1-Dichloroethane	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Ethylene bromide	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
1,1,1-Trichloroethane	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
1,1,2-Trichloroethane	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
1,1,2,2-Tetrachloroethane	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Vinyl chloride	ND	0.000971	0.00486		mg/Kg-dry	1	03/28/13 07:04 PM
Surr: 1,2-Dichloroethane-d4	114	0	52-149		%REC	1	03/28/13 07:04 PM
Surr: 4-Bromofluorobenzene	97.5	0	84-118		%REC	1	03/28/13 07:04 PM
Surr: Dibromofluoromethane	106	0	65-135		%REC	1	03/28/13 07:04 PM
Surr: Toluene-d8	94.7	0	84-116		%REC	1	03/28/13 07:04 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 5-7'
Lab ID: 1303261-19
Collection Date: 03/26/13 12:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.21	10.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.198	0.494		mg/Kg-dry	1	04/02/13 10:28 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	802	53.5	53.5		mg/Kg-dry	10	04/02/13 03:12 PM
Fluoride	1.42	1.07	1.07		mg/Kg-dry	1	04/02/13 02:25 PM
Nitrate-N	8.36	5.35	5.35		mg/Kg-dry	1	04/02/13 02:25 PM
Sulfate	284	10.7	10.7		mg/Kg-dry	1	04/02/13 02:25 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.86	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	6.73	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 7-9'
Lab ID: 1303261-20
Collection Date: 03/26/13 12:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.00822	0.0206		mg/Kg-dry	1	04/03/13 01:41 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	0.822	0.255	0.510		mg/Kg-dry	5	04/04/13 07:46 AM
Barium	40.6	0.255	1.02		mg/Kg-dry	5	04/04/13 07:46 AM
Cadmium	0.0827	0.0510	0.153	J	mg/Kg-dry	5	04/04/13 07:46 AM
Chromium	5.11	0.255	1.02		mg/Kg-dry	5	04/04/13 07:46 AM
Copper	0.929	0.255	1.02	J	mg/Kg-dry	5	04/04/13 07:46 AM
Iron	5120	63.7	63.7		mg/Kg-dry	50	04/03/13 07:47 PM
Lead	2.24	0.0510	0.153		mg/Kg-dry	5	04/04/13 07:46 AM
Manganese	25.8	0.255	1.02		mg/Kg-dry	5	04/04/13 07:46 AM
Selenium	0.731	0.0765	0.255		mg/Kg-dry	5	04/04/13 07:46 AM
Silver	ND	0.0510	0.102		mg/Kg-dry	5	04/04/13 07:46 AM
Zinc	8.20	0.510	1.27		mg/Kg-dry	5	04/04/13 07:46 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.00994	0.0264	N	mg/Kg-dry	1	04/02/13 08:08 PM
2-Methylnaphthalene	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
Naphthalene	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
Benzo[a]pyrene	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2,3,4,6-Tetrachlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2,4,5-Trichlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2,4,6-Trichlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2,4-Dichlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2,4-Dimethylphenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2,4-Dinitrophenol	ND	0.0497	0.131		mg/Kg-dry	1	04/02/13 08:08 PM
2,6-Dichlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2-Chlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2-Methylphenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
2-Nitrophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
4,6-Dinitro-2-methylphenol	ND	0.0298	0.0656		mg/Kg-dry	1	04/02/13 08:08 PM
4-Chloro-3-methylphenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
4-Methylphenol	ND	0.0199	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
4-Nitrophenol	ND	0.0497	0.131		mg/Kg-dry	1	04/02/13 08:08 PM
Pentachlorophenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
Phenol	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
Total Phenol (Calculated)	ND	0.00994	0.0264		mg/Kg-dry	1	04/02/13 08:08 PM
Surr: 2,4,6-Tribromophenol	76.0	0	45-126		%REC	1	04/02/13 08:08 PM
Surr: 2-Fluorobiphenyl	72.0	0	60-125		%REC	1	04/02/13 08:08 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 7-9'
Lab ID: 1303261-20
Collection Date: 03/26/13 12:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	73.0	0	37-125		%REC	1	04/02/13 08:08 PM
Surr: 4-Terphenyl-d14	83.0	0	45-125		%REC	1	04/02/13 08:08 PM
Surr: Nitrobenzene-d5	69.0	0	45-125		%REC	1	04/02/13 08:08 PM
Surr: Phenol-d6	75.0	0	40-125		%REC	1	04/02/13 08:08 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Aroclor 1221	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Aroclor 1232	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Aroclor 1242	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Aroclor 1248	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Aroclor 1254	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Aroclor 1260	ND	0.0166	0.0331		mg/Kg-dry	1	04/03/13 01:03 AM
Surr: 2-Fluorobiphenyl	63.5	0	43-125		%REC	1	04/03/13 01:03 AM
Surr: 4-Terphenyl-d14	77.1	0	32-125		%REC	1	04/03/13 01:03 AM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Toluene	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Carbon tetrachloride	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
1,2-Dichloroethane	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
1,1-Dichloroethylene	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Tetrachloroethylene	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Trichloroethylene	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Ethylbenzene	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Total Xylenes	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Methylene chloride	ND	0.00383	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Chloroform	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
1,1-Dichloroethane	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Ethylene bromide	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
1,1,1-Trichloroethane	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
1,1,2-Trichloroethane	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
1,1,2,2-Tetrachloroethane	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Vinyl chloride	ND	0.000766	0.00383		mg/Kg-dry	1	03/28/13 07:36 PM
Surr: 1,2-Dichloroethane-d4	112	0	52-149		%REC	1	03/28/13 07:36 PM
Surr: 4-Bromofluorobenzene	98.9	0	84-118		%REC	1	03/28/13 07:36 PM
Surr: Dibromofluoromethane	107	0	65-135		%REC	1	03/28/13 07:36 PM
Surr: Toluene-d8	95.7	0	84-116		%REC	1	03/28/13 07:36 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 7-9'
Lab ID: 1303261-20
Collection Date: 03/26/13 12:15 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.09	10.2	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.179	0.447		mg/Kg-dry	1	04/02/13 10:28 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	532	52.4	52.4		mg/Kg-dry	10	04/02/13 03:27 PM
Fluoride	2.76	1.05	1.05		mg/Kg-dry	1	04/02/13 02:39 PM
Nitrate-N	ND	5.24	5.24		mg/Kg-dry	1	04/02/13 02:39 PM
Sulfate	98.1	10.5	10.5		mg/Kg-dry	1	04/02/13 02:39 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.86	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	4.80	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 10-12'
Lab ID: 1303261-21
Collection Date: 03/26/13 12:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0156	0.0391		mg/Kg-dry	1	04/03/13 01:43 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Arsenic	1.03	0.472	0.944		mg/Kg-dry	5	04/04/13 07:52 AM
Barium	61.0	0.472	1.89		mg/Kg-dry	5	04/04/13 07:52 AM
Cadmium	0.160	0.0944	0.283	J	mg/Kg-dry	5	04/04/13 07:52 AM
Chromium	6.88	0.472	1.89		mg/Kg-dry	5	04/04/13 07:52 AM
Copper	1.83	0.472	1.89	J	mg/Kg-dry	5	04/04/13 07:52 AM
Iron	6040	118	118		mg/Kg-dry	50	04/03/13 07:53 PM
Lead	3.39	0.0944	0.283		mg/Kg-dry	5	04/04/13 07:52 AM
Manganese	72.0	0.472	1.89		mg/Kg-dry	5	04/04/13 07:52 AM
Selenium	1.03	0.142	0.472		mg/Kg-dry	5	04/04/13 07:52 AM
Silver	ND	0.0944	0.189		mg/Kg-dry	5	04/04/13 07:52 AM
Zinc	11.0	0.944	2.36		mg/Kg-dry	5	04/04/13 07:52 AM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0104	0.0276	N	mg/Kg-dry	1	04/02/13 08:31 PM
2-Methylnaphthalene	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
Naphthalene	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
Benzo[a]pyrene	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2,3,4,6-Tetrachlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2,4,5-Trichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2,4,6-Trichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2,4-Dichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2,4-Dimethylphenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2,4-Dinitrophenol	ND	0.0519	0.137		mg/Kg-dry	1	04/02/13 08:31 PM
2,6-Dichlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2-Chlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2-Methylphenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
2-Nitrophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
4,6-Dinitro-2-methylphenol	ND	0.0311	0.0685		mg/Kg-dry	1	04/02/13 08:31 PM
4-Chloro-3-methylphenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
4-Methylphenol	ND	0.0208	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
4-Nitrophenol	ND	0.0519	0.137		mg/Kg-dry	1	04/02/13 08:31 PM
Pentachlorophenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
Phenol	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
Total Phenol (Calculated)	ND	0.0104	0.0276		mg/Kg-dry	1	04/02/13 08:31 PM
Surr: 2,4,6-Tribromophenol	89.0	0	45-126		%REC	1	04/02/13 08:31 PM
Surr: 2-Fluorobiphenyl	84.0	0	60-125		%REC	1	04/02/13 08:31 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 10-12'
Lab ID: 1303261-21
Collection Date: 03/26/13 12:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	84.0	0	37-125		%REC	1	04/02/13 08:31 PM
Surr: 4-Terphenyl-d14	89.0	0	45-125		%REC	1	04/02/13 08:31 PM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	04/02/13 08:31 PM
Surr: Phenol-d6	85.0	0	40-125		%REC	1	04/02/13 08:31 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Aroclor 1221	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Aroclor 1232	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Aroclor 1242	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Aroclor 1248	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Aroclor 1254	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Aroclor 1260	ND	0.0173	0.0346		mg/Kg-dry	1	04/02/13 03:51 PM
Surr: 2-Fluorobiphenyl	69.4	0	43-125		%REC	1	04/02/13 03:51 PM
Surr: 4-Terphenyl-d14	78.0	0	32-125		%REC	1	04/02/13 03:51 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Toluene	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Carbon tetrachloride	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
1,2-Dichloroethane	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
1,1-Dichloroethylene	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Tetrachloroethylene	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Trichloroethylene	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Ethylbenzene	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Total Xylenes	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Methylene chloride	ND	0.00490	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Chloroform	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
1,1-Dichloroethane	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Ethylene bromide	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
1,1,1-Trichloroethane	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
1,1,2-Trichloroethane	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
1,1,2,2-Tetrachloroethane	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Vinyl chloride	ND	0.000980	0.00490		mg/Kg-dry	1	03/28/13 08:07 PM
Surr: 1,2-Dichloroethane-d4	110	0	52-149		%REC	1	03/28/13 08:07 PM
Surr: 4-Bromofluorobenzene	100	0	84-118		%REC	1	03/28/13 08:07 PM
Surr: Dibromofluoromethane	106	0	65-135		%REC	1	03/28/13 08:07 PM
Surr: Toluene-d8	96.1	0	84-116		%REC	1	03/28/13 08:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1303261

Client Sample ID: SB-3 10-12'
Lab ID: 1303261-21
Collection Date: 03/26/13 12:25 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRPH		E418.1					Analyst: JAW
Petroleum Hydrocarbons, TR	ND	5.18	10.4	N	mg/Kg-dry	1	04/02/13 04:30 PM
CYANIDE - SOLID SAMPLE		SW9014					Analyst: JCG
Cyanide, Total	ND	0.182	0.454		mg/Kg-dry	1	04/02/13 10:28 AM
ANIONS BY IC METHOD - SOIL		E300					Analyst: JBC
Chloride	488	53.0	53.0		mg/Kg-dry	10	04/02/13 04:13 PM
Fluoride	10.0	1.06	1.06		mg/Kg-dry	1	04/02/13 03:41 PM
Nitrate-N	ND	5.30	5.30		mg/Kg-dry	1	04/02/13 03:41 PM
Sulfate	19.8	10.6	10.6		mg/Kg-dry	1	04/02/13 03:41 PM
PH OF SOLID (CORROSIVITY)		SW9045D					Analyst: MK
pH	7.69	0	0		pH Units	1	04/01/13 10:01 AM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	6.25	0	0		WT%	1	04/02/13 08:50 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates

ANALYTICAL QC SUMMARY REPORT

Work Order: 1303261

Project: R360 Artesia Landfarm

RunID: CETAC_HG_130403A

The QC data in batch 56694 applies to the following samples: 1303261-02C, 1303261-03C, 1303261-04C, 1303261-05C, 1303261-07C, 1303261-08C, 1303261-09C, 1303261-11C, 1303261-13C, 1303261-14C, 1303261-15C, 1303261-16C, 1303261-18C, 1303261-19C, 1303261-20C, 1303261-21C

Sample ID: MB-56694	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg
SampType: MBLK	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:33:38 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.0400								

Sample ID: LCS-56694	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg
SampType: LCS	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:35:39 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.221	0.0400	0.2000	0	110	85	115			

Sample ID: LCSD-56694	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg
SampType: LCSD	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:37:41 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.218	0.0400	0.2000	0	109	85	115	1.37	25	

Sample ID: 1303261-03C SD	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg-dry
SampType: SD	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:41:46 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.210	0	0				0	10	

Sample ID: 1303261-03C PDS	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg-dry
SampType: PDS	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:43:48 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.279	0.0420	0.2626	0	106	85	115			

Sample ID: 1303261-03C MS	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MS	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:45:50 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.234	0.0419	0.2094	0	111	80	120			

Sample ID: 1303261-03C MSD	Batch ID: 56694	TestNo: SW7471B	Units: mg/Kg-dry
SampType: MSD	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:47:53 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.227	0.0421	0.2104	0	108	80	120	2.74	25	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130403A

Sample ID: ICV-130403	Batch ID: R65668	TestNo: SW7471B	Units: mg/Kg
SampType: ICV	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:29:32 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00421	0.0400	0.004000	0	105	90	110			
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Sample ID: CCV1-130403	Batch ID: R65668	TestNo: SW7471B	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 12:54:38 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00206	0.0400	0.002000	0	103	90	110			
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Sample ID: CCV2-130403	Batch ID: R65668	TestNo: SW7471B	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 1:26:17 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00211	0.0400	0.002000	0	106	90	110			
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Sample ID: CCV3-130403	Batch ID: R65668	TestNo: SW7471B	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_130403A	Analysis Date: 4/3/2013 1:46:07 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Mercury	0.00206	0.0400	0.002000	0	103	90	110			
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Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates

Work Order: 1303261

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

The QC data in batch 56693 applies to the following samples: 1303261-02C, 1303261-03C, 1303261-04C, 1303261-05C, 1303261-07C, 1303261-08C, 1303261-09C, 1303261-11C, 1303261-13C, 1303261-14C, 1303261-15C, 1303261-16C, 1303261-18C, 1303261-19C, 1303261-20C, 1303261-21C

Sample ID: MB-56693	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 3:41:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Copper	ND	2.00								
Iron	ND	12.5								
Lead	ND	0.300								
Manganese	ND	2.00								
Selenium	ND	0.500								
Silver	ND	0.200								
Zinc	ND	2.50								

Sample ID: LCS-56693	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 3:47:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.8	1.00	50.00	0	97.6	80	120			
Barium	48.8	2.00	50.00	0	97.5	80	120			
Cadmium	48.6	0.300	50.00	0	97.2	80	120			
Chromium	49.0	2.00	50.00	0	98.0	80	120			
Copper	50.3	2.00	50.00	0	101	80	120			
Iron	266	12.5	250.0	0	107	80	120			
Lead	49.6	0.300	50.00	0	99.2	80	120			
Manganese	51.2	2.00	50.00	0	102	80	120			
Selenium	47.9	0.500	50.00	0	95.9	80	120			
Silver	49.2	0.200	50.00	0	98.5	80	120			
Zinc	49.4	2.50	50.00	0	98.8	80	120			

Sample ID: LCS-56693	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 3:53:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.0	1.00	50.00	0	95.9	80	120	1.71	20	
Barium	47.6	2.00	50.00	0	95.2	80	120	2.39	20	
Cadmium	47.7	0.300	50.00	0	95.4	80	120	1.87	20	
Chromium	48.7	2.00	50.00	0	97.4	80	120	0.512	20	
Copper	50.3	2.00	50.00	0	101	80	120	0	20	
Iron	265	12.5	250.0	0	106	80	120	0.564	20	
Lead	49.2	0.300	50.00	0	98.4	80	120	0.759	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: LCSD-56693	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg							
SampType: LCSD	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 3:53:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Manganese	50.6	2.00	50.00	0	101	80	120	1.08	20	
Selenium	46.6	0.500	50.00	0	93.1	80	120	2.91	20	
Silver	48.1	0.200	50.00	0	96.2	80	120	2.31	20	
Zinc	49.1	2.50	50.00	0	98.2	80	120	0.660	20	

Sample ID: 1303261-03C SD	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: SD	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 4:12:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	52.9	0	0				0	10	
Barium	34.2	106	0	34.67				1.23	10	
Cadmium	0	15.9	0	0				0	10	
Chromium	0	106	0	0				0	10	
Copper	0	106	0	0				0	10	
Iron	3930	662	0	3909				0.540	10	
Lead	0	15.9	0	2.296				0	10	
Manganese	31.2	106	0	27.37				13.1	10	R
Selenium	0	26.5	0	1.796				0	10	
Silver	0	10.6	0	0				0	10	
Zinc	0	132	0	0				0	10	

Sample ID: 1303261-03C PDS	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: PDS	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 5:14:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	536	10.6	529.3	0	101	80	120			
Barium	550	21.2	529.3	34.67	97.4	80	120			
Cadmium	525	3.18	529.3	0	99.2	80	120			
Chromium	537	21.2	529.3	0	101	80	120			
Copper	547	21.2	529.3	0	103	80	120			
Iron	19100	132	13230	3909	115	80	120			
Lead	528	3.18	529.3	2.296	99.3	80	120			
Manganese	589	21.2	529.3	27.37	106	80	120			
Selenium	543	5.29	529.3	1.796	102	80	120			
Silver	522	2.12	529.3	0	98.5	80	120			
Zinc	563	26.5	529.3	0	106	80	120			

Sample ID: 1303261-03C MS	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: MS	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 5:20:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: 1303261-03C MS	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 5:20:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	52.5	10.6	52.93	0	99.1	80	120			
Barium	86.2	21.2	52.93	34.67	97.3	80	120			
Cadmium	52.7	3.18	52.93	0	99.5	80	120			
Chromium	55.5	21.2	52.93	0	105	80	120			
Copper	53.7	21.2	52.93	0	101	80	120			
Iron	4290	132	264.7	3909	143	80	120			S
Lead	54.1	3.18	52.93	2.296	97.9	80	120			
Manganese	77.5	21.2	52.93	27.37	94.7	80	120			
Selenium	53.7	5.29	52.93	1.796	98.1	80	120			
Silver	51.9	2.12	52.93	0	98.0	80	120			
Zinc	60.7	26.5	52.93	0	115	80	120			

Sample ID: 1303261-03C MSD	Batch ID: 56693	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 5:26:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	51.7	10.3	51.41	0	101	80	120	1.47	20	
Barium	83.8	20.6	51.41	34.67	95.6	80	120	2.80	20	
Cadmium	50.3	3.08	51.41	0	97.8	80	120	4.60	20	
Chromium	54.3	20.6	51.41	0	106	80	120	2.21	20	
Copper	52.9	20.6	51.41	0	103	80	120	1.46	20	
Iron	4380	129	257.0	3909	184	80	120	2.19	20	S
Lead	51.9	3.08	51.41	2.296	96.5	80	120	4.11	20	
Manganese	77.3	20.6	51.41	27.37	97.2	80	120	0.231	20	
Selenium	54.8	5.14	51.41	1.796	103	80	120	2.07	20	
Silver	49.7	2.06	51.41	0	96.6	80	120	4.37	20	
Zinc	60.1	25.7	51.41	0	117	80	120	1.03	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: ILCVL-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 12:21:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00560	0.00500	0.00500	0	112	70	130			
Barium	0.00485	0.0100	0.00500	0	96.9	70	130			
Cadmium	0.00115	0.00100	0.00100	0	115	70	130			
Chromium	0.00528	0.00500	0.00500	0	106	70	130			
Copper	0.00546	0.0100	0.00500	0	109	70	130			
Iron	0.118	0.100	0.100	0	118	70	130			
Lead	0.00105	0.00100	0.00100	0	105	70	130			
Manganese	0.00556	0.0100	0.00500	0	111	70	130			
Selenium	0.00610	0.00500	0.00500	0	122	70	130			
Silver	0.00207	0.00200	0.00200	0	103	70	130			
Zinc	0.00567	0.00500	0.00500	0	113	70	130			

Sample ID: LCVL1-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 3:22:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00548	0.00500	0.00500	0	110	70	130			
Barium	0.00500	0.0100	0.00500	0	99.9	70	130			
Cadmium	0.00120	0.00100	0.00100	0	120	70	130			
Chromium	0.00515	0.00500	0.00500	0	103	70	130			
Copper	0.00552	0.0100	0.00500	0	110	70	130			
Iron	0.117	0.100	0.100	0	117	70	130			
Lead	0.00109	0.00100	0.00100	0	109	70	130			
Manganese	0.00555	0.0100	0.00500	0	111	70	130			
Selenium	0.00544	0.00500	0.00500	0	109	70	130			
Silver	0.00211	0.00200	0.00200	0	106	70	130			
Zinc	0.00543	0.00500	0.00500	0	109	70	130			

Sample ID: LCVL2-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 6:09:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00562	0.00500	0.00500	0	112	70	130			
Barium	0.00504	0.0100	0.00500	0	101	70	130			
Cadmium	0.00116	0.00100	0.00100	0	116	70	130			
Chromium	0.00504	0.00500	0.00500	0	101	70	130			
Copper	0.00538	0.0100	0.00500	0	108	70	130			
Iron	0.116	0.100	0.100	0	116	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Manganese	0.00555	0.0100	0.00500	0	111	70	130			
Selenium	0.00546	0.00500	0.00500	0	109	70	130			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: LCVL2-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 6:09:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.00211	0.00200	0.00200	0	106	70	130			
Zinc	0.00533	0.00500	0.00500	0	107	70	130			

Sample ID: LCVL3-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 8:36:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00577	0.00500	0.00500	0	115	70	130			
Barium	0.00518	0.0100	0.00500	0	104	70	130			
Cadmium	0.00122	0.00100	0.00100	0	122	70	130			
Chromium	0.00532	0.00500	0.00500	0	106	70	130			
Copper	0.00579	0.0100	0.00500	0	116	70	130			
Iron	0.122	0.100	0.100	0	122	70	130			
Lead	0.00111	0.00100	0.00100	0	111	70	130			
Manganese	0.00587	0.0100	0.00500	0	117	70	130			
Selenium	0.00625	0.00500	0.00500	0	125	70	130			
Silver	0.00215	0.00200	0.00200	0	108	70	130			
Zinc	0.00567	0.00500	0.00500	0	113	70	130			

Sample ID: LCVL6-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 5:00:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00585	0.00500	0.00500	0	117	70	130			
Barium	0.00531	0.0100	0.00500	0	106	70	130			
Cadmium	0.00126	0.00100	0.00100	0	126	70	130			
Chromium	0.00521	0.00500	0.00500	0	104	70	130			
Copper	0.00538	0.0100	0.00500	0	108	70	130			
Iron	0.118	0.100	0.100	0	118	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			
Manganese	0.00550	0.0100	0.00500	0	110	70	130			
Selenium	0.00531	0.00500	0.00500	0	106	70	130			
Silver	0.00218	0.00200	0.00200	0	109	70	130			
Zinc	0.00564	0.00500	0.00500	0	113	70	130			

Sample ID: LCVL7-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 6:57:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00567	0.00500	0.00500	0	113	70	130			
Barium	0.00503	0.0100	0.00500	0	101	70	130			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: LCVL7-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 6:57:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.00113	0.00100	0.00100	0	113	70	130			
Chromium	0.00524	0.00500	0.00500	0	105	70	130			
Copper	0.00540	0.0100	0.00500	0	108	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			
Manganese	0.00560	0.0100	0.00500	0	112	70	130			
Selenium	0.00574	0.00500	0.00500	0	115	70	130			
Silver	0.00215	0.00200	0.00200	0	107	70	130			
Zinc	0.00557	0.00500	0.00500	0	111	70	130			

Sample ID: LCVL8-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 8:41:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00563	0.00500	0.00500	0	113	70	130			
Barium	0.00508	0.0100	0.00500	0	102	70	130			
Cadmium	0.00123	0.00100	0.00100	0	123	70	130			
Chromium	0.00530	0.00500	0.00500	0	106	70	130			
Copper	0.00550	0.0100	0.00500	0	110	70	130			
Lead	0.00110	0.00100	0.00100	0	110	70	130			
Manganese	0.00591	0.0100	0.00500	0	118	70	130			
Selenium	0.00581	0.00500	0.00500	0	116	70	130			
Silver	0.00219	0.00200	0.00200	0	109	70	130			
Zinc	0.00552	0.00500	0.00500	0	110	70	130			

Sample ID: ICV1-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 12:02:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0953	0.00500	0.100	0	95.3	90	110			
Barium	0.0911	0.0100	0.100	0	91.1	90	110			
Cadmium	0.0958	0.00100	0.100	0	95.8	90	110			
Chromium	0.0909	0.00500	0.100	0	90.9	90	110			
Copper	0.0942	0.0100	0.100	0	94.2	90	110			
Iron	2.57	0.100	2.50	0	103	90	110			
Lead	0.0928	0.00100	0.100	0	92.8	90	110			
Manganese	0.0965	0.0100	0.100	0	96.4	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.0913	0.00200	0.100	0	91.3	90	110			
Zinc	0.100	0.00500	0.100	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: CCV1-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 2:45:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.211	0.00500	0.200	0	106	90	110			
Barium	0.202	0.0100	0.200	0	101	90	110			
Cadmium	0.210	0.00100	0.200	0	105	90	110			
Chromium	0.207	0.00500	0.200	0	103	90	110			
Copper	0.212	0.0100	0.200	0	106	90	110			
Lead	0.207	0.00100	0.200	0	103	90	110			
Manganese	0.213	0.0100	0.200	0	106	90	110			
Selenium	0.218	0.00500	0.200	0	109	90	110			
Silver	0.205	0.00200	0.200	0	102	90	110			
Zinc	0.219	0.00500	0.200	0	109	90	110			

Sample ID: CCV1-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 2:52:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	5.48	0.100	5.00	0	110	90	110			

Sample ID: CCV2-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 5:32:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.204	0.00500	0.200	0	102	90	110			
Barium	0.200	0.0100	0.200	0	100	90	110			
Cadmium	0.207	0.00100	0.200	0	104	90	110			
Chromium	0.198	0.00500	0.200	0	99.1	90	110			
Copper	0.204	0.0100	0.200	0	102	90	110			
Iron	5.46	0.100	5.00	0	109	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Manganese	0.204	0.0100	0.200	0	102	90	110			
Selenium	0.216	0.00500	0.200	0	108	90	110			
Silver	0.204	0.00200	0.200	0	102	90	110			
Zinc	0.211	0.00500	0.200	0	106	90	110			

Sample ID: CCV3-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 8:06:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.197	0.00500	0.200	0	98.6	90	110			
Barium	0.194	0.0100	0.200	0	97.2	90	110			
Cadmium	0.196	0.00100	0.200	0	98.0	90	110			
Chromium	0.194	0.00500	0.200	0	96.9	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: CCV3-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/3/2013 8:06:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.201	0.0100	0.200	0	101	90	110			
Iron	5.48	0.100	5.00	0	110	90	110			
Lead	0.195	0.00100	0.200	0	97.6	90	110			
Manganese	0.204	0.0100	0.200	0	102	90	110			
Selenium	0.203	0.00500	0.200	0	102	90	110			
Silver	0.189	0.00200	0.200	0	94.6	90	110			
Zinc	0.207	0.00500	0.200	0	104	90	110			

Sample ID: CCV6-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 4:23:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.198	0.0100	0.200	0	98.9	90	110			
Cadmium	0.202	0.00100	0.200	0	101	90	110			
Chromium	0.195	0.00500	0.200	0	97.6	90	110			
Copper	0.198	0.0100	0.200	0	99.2	90	110			
Iron	5.51	0.100	5.00	0	110	90	110			
Lead	0.199	0.00100	0.200	0	99.3	90	110			
Manganese	0.208	0.0100	0.200	0	104	90	110			
Selenium	0.207	0.00500	0.200	0	104	90	110			
Silver	0.192	0.00200	0.200	0	96.1	90	110			
Zinc	0.205	0.00500	0.200	0	103	90	110			

Sample ID: CCV7-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 6:26:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	100	90	110			
Barium	0.193	0.0100	0.200	0	96.5	90	110			
Cadmium	0.196	0.00100	0.200	0	98.2	90	110			
Chromium	0.192	0.00500	0.200	0	96.0	90	110			
Copper	0.197	0.0100	0.200	0	98.3	90	110			
Lead	0.195	0.00100	0.200	0	97.6	90	110			
Manganese	0.204	0.0100	0.200	0	102	90	110			
Selenium	0.206	0.00500	0.200	0	103	90	110			
Silver	0.188	0.00200	0.200	0	94.0	90	110			
Zinc	0.207	0.00500	0.200	0	103	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130403A

Sample ID: CCV8-130403	Batch ID: R65658	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130403A	Analysis Date: 4/4/2013 8:04:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.199	0.00500	0.200	0	99.7	90	110			
Barium	0.194	0.0100	0.200	0	97.0	90	110			
Cadmium	0.196	0.00100	0.200	0	97.9	90	110			
Chromium	0.195	0.00500	0.200	0	97.4	90	110			
Copper	0.198	0.0100	0.200	0	98.9	90	110			
Lead	0.197	0.00100	0.200	0	98.3	90	110			
Manganese	0.207	0.0100	0.200	0	104	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.188	0.00200	0.200	0	94.2	90	110			
Zinc	0.206	0.00500	0.200	0	103	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303261

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130402A

The QC data in batch 56701 applies to the following samples: 1303261-02C, 1303261-03C, 1303261-04C, 1303261-05C, 1303261-07C, 1303261-08C, 1303261-09C, 1303261-11C, 1303261-13C, 1303261-14C, 1303261-15C, 1303261-16C, 1303261-18C, 1303261-19C, 1303261-20C, 1303261-21C

Sample ID: LCS-56701	Batch ID: 56701	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS8_130402A	Analysis Date: 4/2/2013 1:14:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.890	0.0500	1.000	0	89.0	41	138			
Aroclor 1260	0.929	0.0500	1.000	0	92.9	61	131			
Surr: 2-Fluorobiphenyl	0.709		1.000		70.9	43	125			
Surr: 4-Terphenyl-d14	0.800		1.000		80.0	32	125			

Sample ID: 1303261-21CMS	Batch ID: 56701	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS8_130402A	Analysis Date: 4/2/2013 1:46:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.622	0.0338	0.6760	0	92.0	41	138			
Aroclor 1260	0.629	0.0338	0.6760	0	93.0	61	131			
Surr: 2-Fluorobiphenyl	0.488		0.6760		72.2	43	125			
Surr: 4-Terphenyl-d14	0.550		0.6760		81.3	32	125			

Sample ID: 1303261-21CMSD	Batch ID: 56701	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS8_130402A	Analysis Date: 4/2/2013 2:17:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.644	0.0345	0.6908	0	93.2	41	138	3.51	50	
Aroclor 1260	0.674	0.0345	0.6908	0	97.5	61	131	6.95	50	
Surr: 2-Fluorobiphenyl	0.531		0.6908		76.8	43	125	0	0	
Surr: 4-Terphenyl-d14	0.597		0.6908		86.4	32	125	0	0	

Sample ID: MB-56701	Batch ID: 56701	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS8_130402A	Analysis Date: 4/2/2013 3:20:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500								
Aroclor 1221	ND	0.0500								
Aroclor 1232	ND	0.0500								
Aroclor 1242	ND	0.0500								
Aroclor 1248	ND	0.0500								
Aroclor 1254	ND	0.0500								
Aroclor 1260	ND	0.0500								
Surr: 2-Fluorobiphenyl	0.732		1.000		73.2	43	125			
Surr: 4-Terphenyl-d14	0.838		1.000		83.8	32	125			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130402A

Sample ID: ICV-130402	Batch ID: R65625	TestNo: SW8270D	Units: mg/Kg							
SampType: ICV	Run ID: GCMS8_130402A	Analysis Date: 4/2/2013 10:38:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.97	0.0500	2.000	0	98.3	80	120			
Aroclor 1260	2.06	0.0500	2.000	0	103	80	120			
Surr: 2-Fluorobiphenyl	1.68		2.000		84.0	80	120			
Surr: 4-Terphenyl-d14	1.89		2.000		94.4	80	120			

Sample ID: ICV2-130402	Batch ID: R65625	TestNo: SW8270D	Units: mg/Kg							
SampType: ICV	Run ID: GCMS8_130402A	Analysis Date: 4/2/2013 4:46:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.97	0.0500	2.000	0	98.6	80	120			
Aroclor 1260	2.06	0.0500	2.000	0	103	80	120			
Surr: 2-Fluorobiphenyl	1.68		2.000		84.1	80	120			
Surr: 4-Terphenyl-d14	1.85		2.000		92.5	80	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303261

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130402C

The QC data in batch 56702 applies to the following samples: 1303261-02C, 1303261-03C, 1303261-04C, 1303261-05C, 1303261-07C, 1303261-08C, 1303261-09C, 1303261-11C, 1303261-13C, 1303261-14C, 1303261-15C, 1303261-16C, 1303261-18C, 1303261-19C, 1303261-20C, 1303261-21C

Sample ID: LCS-56702	Batch ID: 56702	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 9:14:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.19	0.0266	1.340	0	88.8	40	125			N
2,3,4,6-Tetrachlorophenol	1.24	0.0266	1.340	0	92.6	40	125			
2,4,5-Trichlorophenol	1.30	0.0266	1.340	0	97.1	49	125			
2,4,6-Trichlorophenol	1.33	0.0266	1.340	0	99.4	43	125			
2,4-Dichlorophenol	1.28	0.0266	1.340	0	95.5	45	125			
2,4-Dimethylphenol	1.27	0.0266	1.340	0	95.0	32	125			
2,4-Dinitrophenol	1.18	0.132	1.340	0	88.2	25	132			
2,6-Dichlorophenol	1.25	0.0266	1.340	0	93.0	38	125			
2-Chlorophenol	1.22	0.0266	1.340	0	91.1	44	125			
2-Methylnaphthalene	1.16	0.0266	1.340	0	86.5	47	125			
2-Methylphenol	1.20	0.0266	1.340	0	89.6	40	125			
2-Nitrophenol	1.19	0.0266	1.340	0	88.6	42	125			
4,6-Dinitro-2-methylphenol	1.27	0.0660	1.340	0	94.7	29	137			
4-Chloro-3-methylphenol	1.27	0.0266	1.340	0	94.6	46	125			
4-Methylphenol	1.22	0.0266	1.340	0	91.0	41	125			
4-Nitrophenol	1.22	0.132	1.340	0	90.9	25	138			
Benzo[a]pyrene	1.31	0.0266	1.340	0	97.4	50	125			
Naphthalene	1.17	0.0266	1.340	0	87.7	40	125			
Pentachlorophenol	1.34	0.0266	1.340	0	99.9	25	125			
Phenol	1.15	0.0266	1.340	0	86.0	25	125			
Surr: 2,4,6-Tribromophenol	0.680		0.6670		102	45	138			
Surr: 2-Fluorobiphenyl	0.607		0.6670		91.0	60	135			
Surr: 2-Fluorophenol	0.607		0.6670		91.0	37	125			
Surr: 4-Terphenyl-d14	0.633		0.6670		95.0	60	129			
Surr: Nitrobenzene-d5	0.593		0.6670		89.0	45	125			
Surr: Phenol-d6	0.633		0.6670		95.0	40	125			

Sample ID: MB-56702	Batch ID: 56702	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 10:24:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.0266								N
2,3,4,6-Tetrachlorophenol	ND	0.0266								
2,4,5-Trichlorophenol	ND	0.0266								
2,4,6-Trichlorophenol	ND	0.0266								
2,4-Dichlorophenol	ND	0.0266								
2,4-Dimethylphenol	ND	0.0266								
2,4-Dinitrophenol	ND	0.132								
2,6-Dichlorophenol	ND	0.0266								

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130402C

Sample ID: MB-56702	Batch ID: 56702	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 10:24:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Chlorophenol	ND	0.0266								
2-Methylnaphthalene	ND	0.0266								
2-Methylphenol	ND	0.0266								
2-Nitrophenol	ND	0.0266								
4,6-Dinitro-2-methylphenol	ND	0.0660								
4-Chloro-3-methylphenol	ND	0.0266								
4-Methylphenol	ND	0.0266								
4-Nitrophenol	ND	0.132								
Benzo[a]pyrene	ND	0.0266								
Naphthalene	ND	0.0266								
Pentachlorophenol	ND	0.0266								
Phenol	ND	0.0266								
Total Phenol (Calculated)	ND	0.0266								
Surr: 2,4,6-Tribromophenol	0.527		0.6670		79.0	45	138			
Surr: 2-Fluorobiphenyl	0.560		0.6670		84.0	60	135			
Surr: 2-Fluorophenol	0.573		0.6670		86.0	37	125			
Surr: 4-Terphenyl-d14	0.580		0.6670		87.0	60	129			
Surr: Nitrobenzene-d5	0.527		0.6670		79.0	45	125			
Surr: Phenol-d6	0.593		0.6670		89.0	40	125			

Sample ID: 1303261-21CMS	Batch ID: 56702	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 8:54:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.22	0.0279	1.406	0	86.5	40	125			N
2,3,4,6-Tetrachlorophenol	1.26	0.0279	1.406	0	89.4	40	125			
2,4,5-Trichlorophenol	1.32	0.0279	1.406	0	94.2	49	125			
2,4,6-Trichlorophenol	1.31	0.0279	1.406	0	93.0	43	125			
2,4-Dichlorophenol	1.29	0.0279	1.406	0	91.7	45	125			
2,4-Dimethylphenol	1.34	0.0279	1.406	0	95.3	32	125			
2,4-Dinitrophenol	0.703	0.138	1.406	0	50.0	25	132			
2,6-Dichlorophenol	1.28	0.0279	1.406	0	90.7	38	125			
2-Chlorophenol	1.16	0.0279	1.406	0	82.7	44	125			
2-Methylnaphthalene	1.17	0.0279	1.406	0	83.2	47	125			
2-Methylphenol	1.37	0.0279	1.406	0	97.3	40	125			
2-Nitrophenol	1.15	0.0279	1.406	0	81.8	42	125			
4,6-Dinitro-2-methylphenol	0.952	0.0692	1.406	0	67.7	29	137			
4-Chloro-3-methylphenol	1.29	0.0279	1.406	0	91.8	46	125			
4-Methylphenol	1.23	0.0279	1.406	0	87.3	41	125			
4-Nitrophenol	1.23	0.138	1.406	0	87.4	25	138			
Benzo[a]pyrene	1.29	0.0279	1.406	0	92.0	50	125			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130402C

Sample ID: 1303261-21CMS	Batch ID: 56702	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 8:54:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.12	0.0279	1.406	0	80.0	40	125			
Pentachlorophenol	1.38	0.0279	1.406	0	97.9	25	125			
Phenol	1.09	0.0279	1.406	0	77.7	25	125			
Surr: 2,4,6-Tribromophenol	0.657		0.6998		94.0	45	138			
Surr: 2-Fluorobiphenyl	0.574		0.6998		82.0	60	135			
Surr: 2-Fluorophenol	0.581		0.6998		83.0	37	125			
Surr: 4-Terphenyl-d14	0.595		0.6998		85.0	60	129			
Surr: Nitrobenzene-d5	0.567		0.6998		81.0	45	125			
Surr: Phenol-d6	0.588		0.6998		84.0	40	125			

Sample ID: 1303261-21CMSD	Batch ID: 56702	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 9:18:00 PM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.29	0.0279	1.406	0	91.9	40	125	6.13	30	N
2,3,4,6-Tetrachlorophenol	1.37	0.0279	1.406	0	97.5	40	125	8.63	30	
2,4,5-Trichlorophenol	1.44	0.0279	1.406	0	102	49	125	8.11	30	
2,4,6-Trichlorophenol	1.37	0.0279	1.406	0	97.7	43	125	4.96	30	
2,4-Dichlorophenol	1.35	0.0279	1.406	0	96.1	45	125	4.66	30	
2,4-Dimethylphenol	1.40	0.0279	1.406	0	99.3	32	125	4.09	30	
2,4-Dinitrophenol	0.807	0.138	1.406	0	57.4	25	132	13.8	30	
2,6-Dichlorophenol	1.33	0.0279	1.406	0	94.8	38	125	4.40	30	
2-Chlorophenol	1.21	0.0279	1.406	0	85.9	44	125	3.84	30	
2-Methylnaphthalene	1.24	0.0279	1.406	0	88.3	47	125	5.86	30	
2-Methylphenol	1.42	0.0279	1.406	0	101	40	125	4.11	30	
2-Nitrophenol	1.21	0.0279	1.406	0	86.1	42	125	5.10	30	
4,6-Dinitro-2-methylphenol	1.08	0.0692	1.406	0	76.8	29	137	12.6	30	
4-Chloro-3-methylphenol	1.38	0.0279	1.406	0	98.3	46	125	6.80	30	
4-Methylphenol	1.29	0.0279	1.406	0	91.9	41	125	5.22	30	
4-Nitrophenol	1.38	0.138	1.406	0	98.0	25	138	11.4	30	
Benzo[a]pyrene	1.42	0.0279	1.406	0	101	50	125	9.43	30	
Naphthalene	1.20	0.0279	1.406	0	85.1	40	125	6.15	30	
Pentachlorophenol	1.51	0.0279	1.406	0	107	25	125	9.02	30	
Phenol	1.16	0.0279	1.406	0	82.6	25	125	6.15	30	
Surr: 2,4,6-Tribromophenol	0.734		0.6998		105	45	138	0	0	
Surr: 2-Fluorobiphenyl	0.630		0.6998		90.0	60	135	0	0	
Surr: 2-Fluorophenol	0.616		0.6998		88.0	37	125	0	0	
Surr: 4-Terphenyl-d14	0.685		0.6998		98.0	60	129	0	0	
Surr: Nitrobenzene-d5	0.616		0.6998		88.0	45	125	0	0	
Surr: Phenol-d6	0.643		0.6998		92.0	40	125	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130402C

Sample ID: ICV-130402	Batch ID: R65632	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 8:27:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.82	0.0266	4.000	0	95.5	80	120			N
2,3,4,6-Tetrachlorophenol	3.93	0.0266	4.000	0	98.4	80	120			
2,4,5-Trichlorophenol	4.06	0.0266	4.000	0	102	80	120			
2,4,6-Trichlorophenol	4.06	0.0266	4.000	0	102	80	120			
2,4-Dichlorophenol	4.12	0.0266	4.000	0	103	80	120			
2,4-Dimethylphenol	4.01	0.0266	4.000	0	100	80	120			
2,4-Dinitrophenol	3.85	0.132	4.000	0	96.3	80	120			
2,6-Dichlorophenol	3.94	0.0266	4.000	0	98.6	80	120			
2-Chlorophenol	4.30	0.0266	4.000	0	107	80	120			
2-Methylnaphthalene	3.83	0.0266	4.000	0	95.8	80	120			
2-Methylphenol	3.94	0.0266	4.000	0	98.6	80	120			
2-Nitrophenol	3.89	0.0266	4.000	0	97.3	80	120			
4,6-Dinitro-2-methylphenol	3.90	0.0660	4.000	0	97.4	80	120			
4-Chloro-3-methylphenol	4.23	0.0266	4.000	0	106	80	120			
4-Methylphenol	3.82	0.0266	4.000	0	95.4	80	120			
4-Nitrophenol	3.84	0.132	4.000	0	95.9	80	120			
Benzo[a]pyrene	4.13	0.0266	4.000	0	103	80	120			
Naphthalene	3.60	0.0266	4.000	0	89.9	80	120			
Pentachlorophenol	4.00	0.0266	4.000	0	100	80	120			
Phenol	4.11	0.0266	4.000	0	103	80	120			
Total Phenol (Calculated)	59.7	0.0266	0							
Surr: 2,4,6-Tribromophenol	4.00		4.000		100	80	120			
Surr: 2-Fluorobiphenyl	3.59		4.000		89.8	80	120			
Surr: 2-Fluorophenol	4.19		4.000		105	80	120			
Surr: 4-Terphenyl-d14	4.04		4.000		101	80	120			
Surr: Nitrobenzene-d5	4.00		4.000		100	80	120			
Surr: Phenol-d6	4.13		4.000		103	80	120			

Sample ID: ICV2-130402	Batch ID: R65632	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 7:21:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.73	0.0266	4.000	0	93.2	80	120			N
2,3,4,6-Tetrachlorophenol	3.92	0.0266	4.000	0	97.9	80	120			
2,4,5-Trichlorophenol	4.19	0.0266	4.000	0	105	80	120			
2,4,6-Trichlorophenol	4.02	0.0266	4.000	0	101	80	120			
2,4-Dichlorophenol	4.04	0.0266	4.000	0	101	80	120			
2,4-Dimethylphenol	3.88	0.0266	4.000	0	96.9	80	120			
2,4-Dinitrophenol	3.34	0.132	4.000	0	83.5	80	120			
2,6-Dichlorophenol	3.88	0.0266	4.000	0	97.0	80	120			
2-Chlorophenol	3.95	0.0266	4.000	0	98.6	80	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130402C

Sample ID: ICV2-130402	Batch ID: R65632	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS9_130402C	Analysis Date: 4/2/2013 7:21:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylnaphthalene	3.73	0.0266	4.000	0	93.2	80	120			
2-Methylphenol	3.71	0.0266	4.000	0	92.7	80	120			
2-Nitrophenol	3.86	0.0266	4.000	0	96.5	80	120			
4,6-Dinitro-2-methylphenol	3.67	0.0660	4.000	0	91.7	80	120			
4-Chloro-3-methylphenol	4.15	0.0266	4.000	0	104	80	120			
4-Methylphenol	3.45	0.0266	4.000	0	86.3	80	120			
4-Nitrophenol	3.91	0.132	4.000	0	97.7	80	120			
Benzo[a]pyrene	4.06	0.0266	4.000	0	102	80	120			
Naphthalene	3.60	0.0266	4.000	0	90.1	80	120			
Pentachlorophenol	4.19	0.0266	4.000	0	105	80	120			
Phenol	3.62	0.0266	4.000	0	90.5	80	120			
Total Phenol (Calculated)	57.8	0.0266	0							
Surr: 2,4,6-Tribromophenol	4.19		4.000		105	80	120			
Surr: 2-Fluorobiphenyl	3.66		4.000		91.5	80	120			
Surr: 2-Fluorophenol	4.14		4.000		104	80	120			
Surr: 4-Terphenyl-d14	3.86		4.000		96.5	80	120			
Surr: Nitrobenzene-d5	3.99		4.000		99.8	80	120			
Surr: Phenol-d6	3.68		4.000		92.0	80	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1303261

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130328A

The QC data in batch 56669 applies to the following samples: 1303261-02A, 1303261-03A, 1303261-04A, 1303261-05A, 1303261-07A, 1303261-08A, 1303261-09A, 1303261-11A, 1303261-13A, 1303261-14A, 1303261-15A, 1303261-16A, 1303261-18A, 1303261-19A, 1303261-20A, 1303261-21A

Sample ID: LCS-56669	Batch ID: 56669	TestNo: SW8260C	Units: mg/Kg
SampType: LCS	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 11:12:00 AM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0217	0.00500	0.0232	0	93.5	68	130			
1,1,2,2-Tetrachloroethane	0.0249	0.00500	0.0232	0	107	59	140			
1,1,2-Trichloroethane	0.0245	0.00500	0.0232	0	105	62	127			
1,1-Dichloroethane	0.0219	0.00500	0.0232	0	94.2	73	125			
1,1-Dichloroethylene	0.0209	0.00500	0.0232	0	90.3	65	136			
1,2-Dichloroethane	0.0227	0.00500	0.0232	0	97.8	72	137			
Benzene	0.0225	0.00500	0.0232	0	97.1	75	125			
Carbon tetrachloride	0.0216	0.00500	0.0232	0	93.1	67	133			
Chloroform	0.0224	0.00500	0.0232	0	96.4	72	124			
Ethylbenzene	0.0222	0.00500	0.0232	0	95.9	75	125			
Ethylene bromide	0.0226	0.00500	0.0232	0	97.6	70	124			
Methylene chloride	0.0237	0.00500	0.0232	0	102	63	137			
Tetrachloroethylene	0.0220	0.00500	0.0232	0	94.9	67	139			
Toluene	0.0225	0.00500	0.0232	0	97.0	75	125			
Trichloroethylene	0.0214	0.00500	0.0232	0	92.1	77	124			
Vinyl chloride	0.0188	0.00500	0.0232	0	81.1	58	126			
Total Xylenes	0.0682	0.00500	0.0696	0	98.0	75	125			
Surr: 1,2-Dichloroethane-d4	52.7		50.00		105	52	149			
Surr: 4-Bromofluorobenzene	50.1		50.00		100	84	118			
Surr: Dibromofluoromethane	51.2		50.00		102	65	135			
Surr: Toluene-d8	47.6		50.00		95.1	84	116			

Sample ID: MB-56669	Batch ID: 56669	TestNo: SW8260C	Units: mg/Kg
SampType: MBLK	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 11:44:00 AM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00500								
1,1,2,2-Tetrachloroethane	ND	0.00500								
1,1,2-Trichloroethane	ND	0.00500								
1,1-Dichloroethane	ND	0.00500								
1,1-Dichloroethylene	ND	0.00500								
1,2-Dichloroethane	ND	0.00500								
Benzene	ND	0.00500								
Carbon tetrachloride	ND	0.00500								
Chloroform	ND	0.00500								
Ethylbenzene	ND	0.00500								
Ethylene bromide	ND	0.00500								
Methylene chloride	ND	0.00500								
Tetrachloroethylene	ND	0.00500								

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130328A

Sample ID: MB-56669	Batch ID: 56669	TestNo: SW8260C	Units: mg/Kg
SampType: MBLK	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 11:44:00 AM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	0.00500								
Trichloroethylene	ND	0.00500								
Vinyl chloride	ND	0.00500								
Total Xylenes	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	47.6		50.00		95.3	52	149			
Surr: 4-Bromofluorobenzene	48.6		50.00		97.2	84	118			
Surr: Dibromofluoromethane	49.4		50.00		98.7	65	135			
Surr: Toluene-d8	47.9		50.00		95.8	84	116			

Sample ID: 1303261-02AMS	Batch ID: 56669	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 8:38:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0213	0.00484	0.0225	0	95.0	68	130			
1,1,2,2-Tetrachloroethane	0.0193	0.00484	0.0225	0	85.9	59	140			
1,1,2-Trichloroethane	0.0217	0.00484	0.0225	0	96.5	62	127			
1,1-Dichloroethane	0.0205	0.00484	0.0225	0	91.4	73	125			
1,1-Dichloroethylene	0.0188	0.00484	0.0225	0	83.9	65	136			
1,2-Dichloroethane	0.0228	0.00484	0.0225	0	102	72	137			
Benzene	0.0202	0.00484	0.0225	0	89.9	73	126			
Carbon tetrachloride	0.0215	0.00484	0.0225	0	95.6	67	133			
Chloroform	0.0220	0.00484	0.0225	0	98.1	72	124			
Ethylbenzene	0.0208	0.00484	0.0225	0	92.5	74	127			
Ethylene bromide	0.0201	0.00484	0.0225	0	89.5	70	124			
Methylene chloride	0.0208	0.00484	0.0225	0	92.7	63	137			
Tetrachloroethylene	0.0207	0.00484	0.0225	0	92.0	67	139			
Toluene	0.0209	0.00484	0.0225	0	93.0	71	127			
Trichloroethylene	0.0200	0.00484	0.0225	0	89.0	77	124			
Vinyl chloride	0.0174	0.00484	0.0225	0	77.6	58	126			
Total Xylenes	0.0639	0.00484	0.0674	0	94.8	75	125			
Surr: 1,2-Dichloroethane-d4	53.9		48.39		111	52	149			
Surr: 4-Bromofluorobenzene	46.9		48.39		96.9	84	118			
Surr: Dibromofluoromethane	50.4		48.39		104	65	135			
Surr: Toluene-d8	46.4		48.39		96.0	84	116			

Sample ID: 1303261-02AMSD	Batch ID: 56669	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 9:09:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0215	0.00501	0.0232	0	92.8	68	130	1.01	30	
1,1,2,2-Tetrachloroethane	0.0203	0.00501	0.0232	0	87.2	59	140	4.94	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130328A

Sample ID: 1303261-02AMSD	Batch ID: 56669	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 9:09:00 PM	Prep Date: 3/28/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	0.0220	0.00501	0.0232	0	94.8	62	127	1.68	30	
1,1-Dichloroethane	0.0210	0.00501	0.0232	0	90.2	73	125	2.07	30	
1,1-Dichloroethylene	0.0197	0.00501	0.0232	0	84.6	65	136	4.27	30	
1,2-Dichloroethane	0.0230	0.00501	0.0232	0	99.1	72	137	0.904	30	
Benzene	0.0206	0.00501	0.0232	0	88.7	73	126	2.09	30	
Carbon tetrachloride	0.0212	0.00501	0.0232	0	91.3	67	133	1.12	30	
Chloroform	0.0219	0.00501	0.0232	0	94.3	72	124	0.636	30	
Ethylbenzene	0.0210	0.00501	0.0232	0	90.3	74	127	0.945	30	
Ethylene bromide	0.0207	0.00501	0.0232	0	89.1	70	124	2.96	30	
Methylene chloride	0.0209	0.00501	0.0232	0	90.1	63	137	0.566	30	
Tetrachloroethylene	0.0206	0.00501	0.0232	0	88.8	67	139	0.084	30	
Toluene	0.0211	0.00501	0.0232	0	91.0	71	127	1.19	30	
Trichloroethylene	0.0203	0.00501	0.0232	0	87.4	77	124	1.54	30	
Vinyl chloride	0.0182	0.00501	0.0232	0	78.4	58	126	4.45	30	
Total Xylenes	0.0642	0.00501	0.0697	0	92.2	75	125	0.599	30	
Surr: 1,2-Dichloroethane-d4	55.0		50.06		110	52	149	0	0	
Surr: 4-Bromofluorobenzene	48.2		50.06		96.4	84	118	0	0	
Surr: Dibromofluoromethane	51.4		50.06		103	65	135	0	0	
Surr: Toluene-d8	47.5		50.06		94.8	84	116	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130328A

Sample ID: ICV-130328	Batch ID: R65568	TestNo: SW8260C	Units: mg/Kg
SampType: ICV	Run ID: GCMS2_130328A	Analysis Date: 3/28/2013 10:41:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0444	0.00500	0.0464	0	95.8	80	120			
1,1,2,2-Tetrachloroethane	0.0460	0.00500	0.0464	0	99.1	80	120			
1,1,2-Trichloroethane	0.0466	0.00500	0.0464	0	100	80	120			
1,1-Dichloroethane	0.0449	0.00500	0.0464	0	96.7	80	120			
1,1-Dichloroethylene	0.0435	0.00500	0.0464	0	93.8	80	120			
1,2-Dichloroethane	0.0450	0.00500	0.0464	0	96.9	80	120			
Benzene	0.0456	0.00500	0.0464	0	98.4	80	120			
Carbon tetrachloride	0.0441	0.00500	0.0464	0	95.1	80	120			
Chloroform	0.0459	0.00500	0.0464	0	99.0	80	120			
Ethylbenzene	0.0469	0.00500	0.0464	0	101	80	120			
Ethylene bromide	0.0449	0.00500	0.0464	0	96.8	80	120			
Methylene chloride	0.0464	0.00500	0.0464	0	100	80	120			
Tetrachloroethylene	0.0448	0.00500	0.0464	0	96.5	80	120			
Toluene	0.0462	0.00500	0.0464	0	99.5	80	120			
Trichloroethylene	0.0429	0.00500	0.0464	0	92.5	80	120			
Vinyl chloride	0.0402	0.00500	0.0464	0	86.6	80	120			
Total Xylenes	0.142	0.00500	0.139	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	51.1		50.00		102	52	149			
Surr: 4-Bromofluorobenzene	49.1		50.00		98.2	84	118			
Surr: Dibromofluoromethane	49.7		50.00		99.4	65	135			
Surr: Toluene-d8	47.9		50.00		95.8	84	116			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130402A

The QC data in batch 56718 applies to the following samples: 1303261-02B, 1303261-03B, 1303261-04B, 1303261-05B, 1303261-07B, 1303261-08B, 1303261-09B, 1303261-11B, 1303261-13B, 1303261-14B, 1303261-15B, 1303261-16B, 1303261-18B, 1303261-19B, 1303261-20B, 1303261-21B

Sample ID: LCS-56718	Batch ID: 56718	TestNo: E300	Units: mg/Kg
SampType: LCS	Run ID: IC2_130402A	Analysis Date: 4/2/2013 9:22:41 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	51.7	5.00	50.00	0	103	80	120			
Fluoride	20.3	1.00	20.00	0	102	80	120			
Nitrate-N	25.7	5.00	25.00	0	103	80	120			
Sulfate	149	10.0	150.0	0	99.6	80	120			

Sample ID: LCS-56718	Batch ID: 56718	TestNo: E300	Units: mg/Kg
SampType: LCS	Run ID: IC2_130402A	Analysis Date: 4/2/2013 9:37:16 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	51.6	5.00	50.00	0	103	80	120	0.256	20	
Fluoride	20.4	1.00	20.00	0	102	80	120	0.238	20	
Nitrate-N	25.6	5.00	25.00	0	102	80	120	0.286	20	
Sulfate	149	10.0	150.0	0	99.2	80	120	0.339	20	

Sample ID: MB-56718	Batch ID: 56718	TestNo: E300	Units: mg/Kg
SampType: MBLK	Run ID: IC2_130402A	Analysis Date: 4/2/2013 9:51:50 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	5.00								
Fluoride	ND	1.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID: 1303261-02B MS	Batch ID: 56718	TestNo: E300	Units: mg/Kg-dry
SampType: MS	Run ID: IC2_130402A	Analysis Date: 4/2/2013 10:44:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	60.2	5.20	51.96	7.127	102	80	120			
Fluoride	21.7	1.04	20.78	0.7647	101	80	120			
Nitrate-N	26.9	5.20	25.98	0	104	80	120			
Sulfate	170	10.4	155.9	15.69	99.0	80	120			

Sample ID: 1303261-02B MSD	Batch ID: 56718	TestNo: E300	Units: mg/Kg-dry
SampType: MSD	Run ID: IC2_130402A	Analysis Date: 4/2/2013 10:58:35 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	60.0	5.20	51.96	7.127	102	80	120	0.315	20	
Fluoride	21.7	1.04	20.78	0.7647	101	80	120	0.156	20	
Nitrate-N	26.9	5.20	25.98	0	104	80	120	0.131	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130402A

Sample ID: 1303261-02B MSD		Batch ID: 56718		TestNo: E300		Units: mg/Kg-dry				
SampType: MSD		Run ID: IC2_130402A		Analysis Date: 4/2/2013 10:58:35 AM		Prep Date: 4/1/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	169	10.4	155.9	15.69	98.5	80	120	0.439	20	

Sample ID: 1303261-15B MS		Batch ID: 56718		TestNo: E300		Units: mg/Kg-dry				
SampType: MS		Run ID: IC2_130402A		Analysis Date: 4/2/2013 4:28:18 PM		Prep Date: 4/1/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	64.3	5.77	57.66	4.234	104	80	120			
Fluoride	25.7	1.15	23.06	1.744	104	80	120			
Nitrate-N	30.7	5.77	28.83	0	107	80	120			
Sulfate	175	11.5	173.0	0	101	80	120			

Sample ID: 1303261-15B MSD		Batch ID: 56718		TestNo: E300		Units: mg/Kg-dry				
SampType: MSD		Run ID: IC2_130402A		Analysis Date: 4/2/2013 4:42:52 PM		Prep Date: 4/1/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	64.2	5.77	57.66	4.234	104	80	120	0.063	20	
Fluoride	25.7	1.15	23.06	1.744	104	80	120	0.043	20	
Nitrate-N	30.8	5.77	28.83	0	107	80	120	0.097	20	
Sulfate	175	11.5	173.0	0	101	80	120	0.083	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130402A

Sample ID: ICV-130402	Batch ID: R65616	TestNo: E300	Units: mg/Kg							
SampType: ICV	Run ID: IC2_130402A	Analysis Date: 4/2/2013 8:45:54 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	26.1	5.00	25.00	0	105	90	110			
Fluoride	10.3	1.00	10.00	0	103	90	110			
Nitrate-N	13.0	5.00	12.50	0	104	90	110			
Sulfate	77.4	10.0	75.00	0	103	90	110			

Sample ID: CCV1-130402	Batch ID: R65616	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130402A	Analysis Date: 4/2/2013 12:11:27 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	5.00	10.00	0	104	90	110			
Fluoride	4.15	1.00	4.000	0	104	90	110			
Nitrate-N	5.19	5.00	5.000	0	104	90	110			
Sulfate	30.2	10.0	30.00	0	101	90	110			

Sample ID: CCV2-130402	Batch ID: R65616	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130402A	Analysis Date: 4/2/2013 2:54:16 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.5	5.00	10.00	0	105	90	110			
Fluoride	4.18	1.00	4.000	0	105	90	110			
Nitrate-N	5.21	5.00	5.000	0	104	90	110			
Sulfate	30.3	10.0	30.00	0	101	90	110			

Sample ID: CCV3-130402	Batch ID: R65616	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130402A	Analysis Date: 4/2/2013 4:57:27 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.6	5.00	10.00	0	106	90	110			
Fluoride	4.20	1.00	4.000	0	105	90	110			
Nitrate-N	5.28	5.00	5.000	0	106	90	110			
Sulfate	30.5	10.0	30.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130402A

Sample ID: ICV-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: ICV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	232	10.0	250.0	0	92.8	90	110			N

Sample ID: CCV1-130302	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	238	10.0	250.0	0	95.0	85	115			N

Sample ID: CCV2-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	239	10.0	250.0	0	95.5	85	115			N

Sample ID: CCV3-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	241	10.0	250.0	0	96.5	85	115			N

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130402A

The QC data in batch 56729 applies to the following samples: 1303261-02B, 1303261-03B, 1303261-04B, 1303261-05B

Sample ID: MB-56729	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg							
SampType: MBLK	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	10.0								N

Sample ID: LCS1-56729	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg							
SampType: LCS	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	106	10.0	100.0	0	106	80	120			N

Sample ID: 1303223-06BMS	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg-dry							
SampType: MS	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	109	10.8	107.9	6.738	94.4	80	120			N

Sample ID: 1303223-06BMSD	Batch ID: 56729	TestNo: E418.1	Units: mg/Kg-dry							
SampType: MSD	Run ID: IR207_130402A	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	113	10.8	107.9	6.738	98.1	80	120	3.66	20	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130402B

Sample ID: ICV2-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: ICV	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	241	10.0	250.0	0	96.5	90	110			N

Sample ID: CCV4-130302	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	242	10.0	250.0	0	97.0	85	115			N

Sample ID: CCV5-130402	Batch ID: 418_S-04/02/2013	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	243	10.0	250.0	0	97.2	85	115			N

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130402B

The QC data in batch 56733 applies to the following samples: 1303261-07B, 1303261-08B, 1303261-09B, 1303261-11B, 1303261-13B, 1303261-14B, 1303261-15B, 1303261-16B, 1303261-18B, 1303261-19B, 1303261-20B, 1303261-21B

Sample ID: MB-56733	Batch ID: 56733	TestNo: E418.1	Units: mg/Kg
SampType: MBLK	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	10.0								N

Sample ID: LCS-56733	Batch ID: 56733	TestNo: E418.1	Units: mg/Kg
SampType: LCS	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	112	10.0	100.0	0	112	80	120			N

Sample ID: 1303261-09BMS	Batch ID: 56733	TestNo: E418.1	Units: mg/Kg-dry
SampType: MS	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	120	11.3	112.7	0	107	80	120			N

Sample ID: 1303261-09BMSD	Batch ID: 56733	TestNo: E418.1	Units: mg/Kg-dry
SampType: MSD	Run ID: IR207_130402B	Analysis Date: 4/2/2013 4:30:00 PM	Prep Date: 4/2/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	120	11.4	113.6	0	106	80	120	0.388	20	N

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_130401A

The QC data in batch 56707 applies to the following samples: 1303261-02B, 1303261-03B, 1303261-04B, 1303261-05B, 1303261-07B, 1303261-08B, 1303261-09B, 1303261-11B, 1303261-13B, 1303261-14B, 1303261-15B, 1303261-16B, 1303261-18B, 1303261-19B, 1303261-20B, 1303261-21B

Sample ID: 1303258-01A-DUP	Batch ID: 56707	TestNo: SW9045D	Units: pH Units
SampType: DUP	Run ID: PH_130401A	Analysis Date: 4/1/2013 10:01:05 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.7	0	0	10.54				1.17		5

Sample ID: 1303261-21B-DUP	Batch ID: 56707	TestNo: SW9045D	Units: pH Units
SampType: DUP	Run ID: PH_130401A	Analysis Date: 4/1/2013 10:01:05 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.63	0	0	7.691				0.836		5

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_130401A

Sample ID: ICV-130401	Batch ID: PH_S-41365	TestNo: SW9045D	Units: pH Units							
SampType: ICV	Run ID: PH_130401A	Analysis Date: 4/1/2013 10:01:05 AM	Prep Date: 4/1/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	10.0	0	10.00	0	100	99	101			
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Sample ID: CCV1-130401	Batch ID: PH_S-41365	TestNo: SW9045D	Units: pH Units							
SampType: CCV	Run ID: PH_130401A	Analysis Date: 4/1/2013 10:01:05 AM	Prep Date: 4/1/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	7.10	0	7.000	0	101	97.1	102.9			
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Sample ID: CCV-130401	Batch ID: PH_S-41365	TestNo: SW9045D	Units: pH Units							
SampType: CCV	Run ID: PH_130401A	Analysis Date: 4/1/2013 10:01:05 AM	Prep Date: 4/1/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	6.99	0	7.000	0	99.9	97.1	102.9			
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Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_130401A

The QC data in batch 56716 applies to the following samples: 1303261-02C, 1303261-03C, 1303261-04C, 1303261-05C, 1303261-07C, 1303261-08C, 1303261-09C, 1303261-11C, 1303261-13C, 1303261-14C, 1303261-15C, 1303261-16C, 1303261-18C, 1303261-19C, 1303261-20C, 1303261-21C

Sample ID: 1303261-02C-DUP	Batch ID: 56716	TestNo: D2216	Units: WT%
SampType: DUP	Run ID: PMOIST_130401A	Analysis Date: 4/2/2013 8:50:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	3.56	0	0	4.148				15.3	30	

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates

Work Order: 1303261

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130402A

The QC data in batch 56705 applies to the following samples: 1303261-02B, 1303261-03B, 1303261-04B, 1303261-05B, 1303261-07B, 1303261-08B, 1303261-09B, 1303261-11B, 1303261-13B, 1303261-14B, 1303261-15B, 1303261-16B, 1303261-18B, 1303261-19B, 1303261-20B, 1303261-21B

Sample ID: MB-56705	Batch ID: 56705	TestNo: SW9014	Units: mg/Kg
SampType: MBLK	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:21:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.500								

Sample ID: LCS-56705	Batch ID: 56705	TestNo: SW9014	Units: mg/Kg
SampType: LCS	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:21:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	5.36	0.500	5.000	0	107	85	115			

Sample ID: 1303261-02BMS	Batch ID: 56705	TestNo: SW9014	Units: mg/Kg-dry
SampType: MS	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:21:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	4.09	0.411	4.107	0	99.5	75	125			

Sample ID: 1303261-02BMSD	Batch ID: 56705	TestNo: SW9014	Units: mg/Kg-dry
SampType: MSD	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:21:00 AM	Prep Date: 4/1/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	4.90	0.479	4.786	0	102	75	125	18.0	30	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1303261
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130402A

Sample ID: ICV-130402	Batch ID: R65614	TestNo: SW9014	Units: mg/Kg
SampType: ICV	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:19:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Cyanide, Total	0.112	0.500	0.1000	0	112	85	115			
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Sample ID: CCV1-130402	Batch ID: R65614	TestNo: SW9014	Units: mg/Kg
SampType: CCV	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:24:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Cyanide, Total	0.226	0.500	0.2000	0	113	85	115			
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Sample ID: CCV2-130402	Batch ID: R65614	TestNo: SW9014	Units: mg/Kg
SampType: CCV	Run ID: UV/VIS_2_130402A	Analysis Date: 4/2/2013 10:28:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	----	-----------	---------	------	----------	-----------	------	----------	------

Cyanide, Total	0.224	0.500	0.2000	0	112	85	115			
----------------	-------	-------	--------	---	-----	----	-----	--	--	--

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
---	--



April 12, 2013

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Artesia Landfarm

Order No.: 1304037

Dear Mark Larson:

DHL Analytical, Inc. received 2 sample(s) on 4/4/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "John DuPont", is written over a light blue circular background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-12-9



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CHAIN-OF-CUSTODY

LA arson &
Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 4/3/12 PAGE 1 OF 1
PO #: _____ LAB WORK ORDER #: 1304037
PROJECT LOCATION OR NAME: R360 Artesia Landfill
LAI PROJECT #: 11-0109-09 COLLECTOR: LD

Data Reported to:

TRRP report? <input type="checkbox"/> Yes <input type="checkbox"/> No	S=SOIL W=WATER A=AIR		P=PAINT SL=SLUDGE OT=OTHER		# of Containers	PRESERVATION					ANALYSES <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> <input type="checkbox"/> TPH 418 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> <input type="checkbox"/> GASOLINE MOD 8015 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> <input type="checkbox"/> DIESEL - MOD 8015 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> <input type="checkbox"/> VOC 8260 <input type="checkbox"/> <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLDPAH <input type="checkbox"/> <input type="checkbox"/> 8081 PESTICIDES <input type="checkbox"/> 8151 HERBICIDES <input type="checkbox"/> <input type="checkbox"/> 8082 PCBs <input type="checkbox"/> <input type="checkbox"/> TCLP - METALS (RCRA) <input type="checkbox"/> HOLDPAH <input type="checkbox"/> <input type="checkbox"/> TOTAL METALS (RCRA) <input type="checkbox"/> Semi-VOC <input type="checkbox"/> <input type="checkbox"/> LEAD - TOTAL <input type="checkbox"/> HERB <input type="checkbox"/> Semi-VOC <input type="checkbox"/> <input type="checkbox"/> RCU <input type="checkbox"/> TOX <input type="checkbox"/> D.W. 200.8 <input type="checkbox"/> OTHER LIST <input type="checkbox"/> <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> <input type="checkbox"/> PH <input type="checkbox"/> HEXAVALENT CHROMIUM <input type="checkbox"/> CYANIDE <input type="checkbox"/> <input type="checkbox"/> EXPLOSIVES <input type="checkbox"/> PECHLORATE <input type="checkbox"/> <input type="checkbox"/> CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> ALKALINITY <input type="checkbox"/>																				FIELD NOTES
	HCl	HNO ₃	H ₂ SO ₄	NaOH		UNPRESERVED																									
TIME ZONE: Time zone/State:	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO ₃	H ₂ SO ₄	NaOH	UNPRESERVED																					FIELD NOTES
SP-1	01	3/27/13	830	S	3					X																					Contact mark
SP-2	02	3/27/13	830	S	3					X																					Contact mark
TOTAL																															
RELINQUISHED BY: (Signature)					DATE/TIME					RECEIVED BY: (Signature)					TURN AROUND TIME							LABORATORY USE ONLY:									
<i>[Signature]</i>					4/3/13 5:00 PM					Donster					NORMAL <input type="checkbox"/> 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> OTHER <input type="checkbox"/>							RECEIVING TEMP: <u>4.7</u> THERM #: <u>57</u> CUSTODY SEALS - <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED <input checked="" type="checkbox"/> CARRIER BILL # <u>Donster</u> <input type="checkbox"/> HAND DELIVERED									
RELINQUISHED BY: (Signature)					DATE/TIME					RECEIVED BY: (Signature)																					
<i>[Signature]</i>					4/4/13 830					[Signature]																					
RELINQUISHED BY: (Signature)					DATE/TIME					RECEIVED BY: (Signature)																					

Same as rest
 of A360
 Landfill
 I think



WWW.LSO.COM
 Questions? Call 800-800-8984
 Airbill No. 47376952



47376952

© 1991-2009 Lone Star Overnight

1. To: <small>Print Name (Person)</small> <i>Tennifer Barker</i> <small>Phone (Important)</small>		2. From: <small>Print Name (Person)</small> <i>Loty</i> <small>Phone (Important)</small> <i>432-687-0901</i>	
<small>Company Name</small> <i>DHL</i>		<small>Company Name</small> <i>ARSON & ASSOCIATES</i>	
<small>Street Address (No P.O. Box or P.O. Box Zip Code Deliveries)</small> <i>2300 Double Creek Dr.</i>		<small>Street Address</small> <i>607 NORTH MARIENFIELD</i>	
<small>Suite / Floor</small>		<small>Suite / Floor</small> <i>200</i>	
<small>City</small> <i>Round Rock</i> <small>State</small> <i>TX</i> <small>Zip</small> <i>78664</i>		<small>City</small> <i>MIDLAND</i> <small>State</small> <i>TX</i> <small>Zip</small> <i>79701</i>	
3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.		4. Package: <small>Weight</small> <i>36</i>	
<input checked="" type="checkbox"/> By 10:30 am Delivery Check availability at www.lso.com		<input type="checkbox"/> Saturday Delivery Check availability at www.lso.com <small>(Extra charge, not available on Ground)</small>	
<input type="checkbox"/> By 8:30 am Delivery Check availability at www.lso.com <small>(Extra charge, no signature obtained)</small>		<input type="checkbox"/> Other _____	
<input type="checkbox"/> By 3:00 pm Delivery		<small>Assumed 10:30 a.m. service unless otherwise noted.</small>	
<input type="checkbox"/> Ground (next day to most cities)		5. Payment:	
<input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)		<small>Your Company's Billing Reference Information</small> <i>17-1109-07</i>	
<small>Release Signature</small> _____		<small>Ship Date: (mm/dd/yy)</small> <i>4 13 13</i>	
<small>L</small> _____ <small>x</small> <small>W</small> _____ <small>x</small> <small>H</small> _____		FOR COURIER USE ONLY	
		<small>Courier Number</small> <i>3189</i>	
		<input type="checkbox"/> Check here if LSO Supplies are used with Ground Service.	
		<small>Pick-up Location</small> <i>10010</i>	
		<small>Date:</small> <i>4-13-13</i>	
		<small>Time:</small> <i>830</i>	
		<small>City Code:</small> <i>705</i>	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. **NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVSZISE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.**

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 4/4/2013

Work Order Number 1304037

Received by JB

Checklist completed by: [Signature] 4/4/2013
Signature Date

Reviewed by: [Initials] 4/4/2013
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 4.7 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1304037

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW8260C - Volatile Organics
Method SW8270D - Semivolatiles Organics (1-Methylnaphthalene is not NELAC Certified)
Method SW6020A - Metals Analysis
Method SW7471B - Mercury Analysis
Method SW8270D - PCB Analysis
Method E300 - Anions Analysis
Method E418.1 - TRPH Analysis (this parameter not NELAC Certified)
Method SW9014 - Cyanide Analysis
Method SW9045D - pH of a Soil (corrosivity)
Method D2216 - Percent Moisture

LOG IN

The samples were received and log-in performed on 4/4/2013. A total of 2 samples were received and analyzed. The time of collection was Mountain Standard Time. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For Metals Analysis, the recoveries of several analytes for the Matrix Spike and Matrix Spike Duplicate (1304037-01 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These compounds are within method control limits in the associated LCS. No further corrective action was taken.

For Metals Analysis, the recoveries of Aluminum and Barium for the Post Digestion Spike (1304037-01 PDS) were above the method control limits. These are flagged accordingly in the QC Summary Report. These compounds are within method control limits in the associated Serial Dilution. No further corrective action was taken.

For Metals Analysis, the RPDs of a few analytes for the Serial Dilution (1304037-01SD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These compounds are within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

TRPH ANALYSIS

For TRPH Analysis, the recoveries of the Matrix Spike and Matrix Spike Duplicate (1304037-02

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1304037

CASE NARRATIVE

MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. The associated LCS is within method control limits. No further corrective action was taken.

VOLATILES ANALYSIS

For Volatiles Analysis, the recoveries of four compounds for the Matrix Spike and Matrix Spike Duplicate (1304037-01 MS/MSD) were below the method control limits. These are flagged accordingly in the QC Summary Report. These compounds are within method control limits in the associated LCS. No further corrective action was taken.

SEMIVOLATILES ANALYSIS

For Semivolatiles Analysis, the recovery of surrogate 4-Terpheny-d14 for the Laboratory Control Spike (LCS-56850) was above the method control limits. This is flagged accordingly in the QC Summary Report. The remaining surrogates for this sample are within method control limits. No further corrective action was taken.

For Semivolatiles Analysis, the recovery of 2,4-Dinitrophenol for the Matrix Spike and Matrix Spike Duplicate (1304037-01 MS/MSD) was below the method control limits. These are flagged accordingly in the QC Summary Report. This compound is within method control limits in the associated LCS. No further corrective action was taken.

For Semivolatiles Analysis, the recoveries of two compounds for the Initial Calibration Verification (ICV-130411) were slightly below the method control limits. These are flagged accordingly in the QC Summary Report. These compounds are within method control limits in the associated LCS. No further corrective action was taken.

For Semivolatiles Analysis, the response factor of Internal Standard Perylene-d12 for the Matrix Spike and Matrix Spike Duplicate (1304037-01 MS/MSD) was below the method control limits. The recoveries of the affected compounds are within method control limits. No further corrective action was taken.

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1304037

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1304037-01	SP-1		03/27/13 08:30 AM	4/4/2013
1304037-02	SP-2		03/27/13 08:30 AM	4/4/2013

Lab Order: 1304037
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1304037-01A	SP-1	03/27/13 08:30 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	04/08/13 10:25 AM	56822
1304037-01B	SP-1	03/27/13 08:30 AM	Soil	E300	Anion Prep	04/08/13 01:29 PM	56830
	SP-1	03/27/13 08:30 AM	Soil	E300	Anion Prep	04/08/13 01:29 PM	56830
	SP-1	03/27/13 08:30 AM	Soil	SW9010C	Cyanide Soil Prep	04/05/13 10:25 AM	56780
	SP-1	03/27/13 08:30 AM	Soil	SW9045C	pH Preparation	04/08/13 09:00 AM	56815
	SP-1	03/27/13 08:30 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/10/13 10:52 AM	56868
1304037-01C	SP-1	03/27/13 08:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/08/13 08:44 AM	56813
	SP-1	03/27/13 08:30 AM	Soil	D2216	Moisture Preparation	04/04/13 02:40 PM	56770
	SP-1	03/27/13 08:30 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/09/13 12:05 PM	56849
	SP-1	03/27/13 08:30 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/09/13 12:08 PM	56850
	SP-1	03/27/13 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/08/13 08:42 AM	56812
	SP-1	03/27/13 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/08/13 08:42 AM	56812
	SP-1	03/27/13 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/08/13 08:42 AM	56812
1304037-02A	SP-2	03/27/13 08:30 AM	Soil	SW5030A	Purge and Trap Soils GC/MS	04/08/13 10:25 AM	56822
1304037-02B	SP-2	03/27/13 08:30 AM	Soil	E300	Anion Prep	04/08/13 01:29 PM	56830
	SP-2	03/27/13 08:30 AM	Soil	SW9010C	Cyanide Soil Prep	04/05/13 10:25 AM	56780
	SP-2	03/27/13 08:30 AM	Soil	SW9045C	pH Preparation	04/08/13 09:00 AM	56815
	SP-2	03/27/13 08:30 AM	Soil	SW3550B	Soil Prep Sonication: TRPH	04/10/13 10:52 AM	56868
1304037-02C	SP-2	03/27/13 08:30 AM	Soil	SW7471A	Mercury Soil Prep, Total	04/08/13 08:44 AM	56813
	SP-2	03/27/13 08:30 AM	Soil	D2216	Moisture Preparation	04/04/13 02:40 PM	56770
	SP-2	03/27/13 08:30 AM	Soil	SW3550C	Soil Prep Sonication: BNA	04/09/13 12:05 PM	56849
	SP-2	03/27/13 08:30 AM	Soil	SW3550C	Soil Prep Sonication: PCB	04/09/13 12:08 PM	56850
	SP-2	03/27/13 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/08/13 08:42 AM	56812
	SP-2	03/27/13 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/08/13 08:42 AM	56812
	SP-2	03/27/13 08:30 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	04/08/13 08:42 AM	56812

Lab Order: 1304037
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1304037-01A	SP-1	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56822	1	04/08/13 04:41 PM	GCMS2_130408B
1304037-01B	SP-1	Soil	E300	Anions by IC method - Soil	56830	1	04/10/13 11:03 AM	IC2_130410A
	SP-1	Soil	E300	Anions by IC method - Soil	56830	10	04/10/13 12:07 PM	IC2_130410A
	SP-1	Soil	SW9014	Cyanide - Solid Sample	56780	1	04/05/13 05:02 PM	UV/VIS_2_130405A
	SP-1	Soil	SW9045D	pH of Solid (Corrosivity)	56815	1	04/08/13 02:15 PM	PH_130408A
	SP-1	Soil	E418.1	TRPH	56868	10	04/10/13 04:20 PM	IR207_130410A
1304037-01C	SP-1	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56850	1	04/10/13 02:50 PM	GCMS8_130410A
	SP-1	Soil	D2216	Percent Moisture	56770	1	04/05/13 08:35 AM	PMOIST_130404A
	SP-1	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56849	1	04/11/13 06:20 PM	GCMS9_130411D
	SP-1	Soil	SW7471B	Total Mercury: Soil/Solid	56813	1	04/09/13 12:31 PM	CETAC_HG_130409A
	SP-1	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56812	5	04/08/13 06:02 PM	ICP-MS3_130408A
	SP-1	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56812	5	04/09/13 11:51 AM	ICP-MS2_130409B
	SP-1	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56812	50	04/09/13 12:09 PM	ICP-MS2_130409B
1304037-02A	SP-2	Soil	SW8260C	8260 Soil Volatiles by GC/MS	56822	1	04/08/13 05:13 PM	GCMS2_130408B
1304037-02B	SP-2	Soil	E300	Anions by IC method - Soil	56830	1	04/10/13 11:20 AM	IC2_130410A
	SP-2	Soil	SW9014	Cyanide - Solid Sample	56780	1	04/05/13 05:01 PM	UV/VIS_2_130405A
	SP-2	Soil	SW9045D	pH of Solid (Corrosivity)	56815	1	04/08/13 02:15 PM	PH_130408A
	SP-2	Soil	E418.1	TRPH	56868	1	04/10/13 04:20 PM	IR207_130410A
1304037-02C	SP-2	Soil	SW8270D	PCB by GC/MS - Soil/Solid	56850	1	04/10/13 03:21 PM	GCMS8_130410A
	SP-2	Soil	D2216	Percent Moisture	56770	1	04/05/13 08:35 AM	PMOIST_130404A
	SP-2	Soil	SW8270D	Semivolatiles by GC/MS - Soil	56849	1	04/11/13 06:43 PM	GCMS9_130411D
	SP-2	Soil	SW7471B	Total Mercury: Soil/Solid	56813	1	04/09/13 12:43 PM	CETAC_HG_130409A
	SP-2	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56812	5	04/08/13 06:14 PM	ICP-MS3_130408A
	SP-2	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56812	5	04/09/13 11:57 AM	ICP-MS2_130409B
	SP-2	Soil	SW6020A	Trace Metals: ICP-MS - Solid	56812	50	04/09/13 12:21 PM	ICP-MS2_130409B

DHL Analytical, Inc.

Date: 12-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1304037

Client Sample ID: SP-1
Lab ID: 1304037-01
Collection Date: 03/27/13 08:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0154	0.0384		mg/Kg-dry	1	04/09/13 12:31 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Aluminum	11300	126	126		mg/Kg-dry	50	04/09/13 12:09 PM
Arsenic	2.09	0.503	1.01		mg/Kg-dry	5	04/08/13 06:02 PM
Barium	82.2	0.503	2.01		mg/Kg-dry	5	04/08/13 06:02 PM
Boron	7.07	2.52	7.55	J	mg/Kg-dry	5	04/09/13 11:51 AM
Cadmium	0.275	0.101	0.302	J	mg/Kg-dry	5	04/08/13 06:02 PM
Chromium	9.18	0.503	2.01		mg/Kg-dry	5	04/09/13 11:51 AM
Cobalt	2.68	0.503	2.01		mg/Kg-dry	5	04/09/13 11:51 AM
Copper	4.31	0.503	2.01		mg/Kg-dry	5	04/09/13 11:51 AM
Iron	7980	126	126		mg/Kg-dry	50	04/09/13 12:09 PM
Lead	5.39	0.101	0.302		mg/Kg-dry	5	04/08/13 06:02 PM
Manganese	107	0.503	2.01		mg/Kg-dry	5	04/08/13 06:02 PM
Molybdenum	ND	0.503	2.01		mg/Kg-dry	5	04/09/13 11:51 AM
Nickel	6.15	0.503	2.01		mg/Kg-dry	5	04/09/13 11:51 AM
Selenium	1.80	0.151	0.503		mg/Kg-dry	5	04/08/13 06:02 PM
Silver	ND	0.101	0.201		mg/Kg-dry	5	04/08/13 06:02 PM
Zinc	19.5	1.01	2.52		mg/Kg-dry	5	04/08/13 06:02 PM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0102	0.0271	N	mg/Kg-dry	1	04/11/13 06:20 PM
2-Methylnaphthalene	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
Naphthalene	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
Benzo[a]pyrene	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2,3,4,6-Tetrachlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2,4,5-Trichlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2,4,6-Trichlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2,4-Dichlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2,4-Dimethylphenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2,4-Dinitrophenol	ND	0.0510	0.135		mg/Kg-dry	1	04/11/13 06:20 PM
2,6-Dichlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2-Chlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2-Methylphenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
2-Nitrophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
4,6-Dinitro-2-methylphenol	ND	0.0306	0.0673		mg/Kg-dry	1	04/11/13 06:20 PM
4-Chloro-3-methylphenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
4-Methylphenol	ND	0.0204	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
4-Nitrophenol	ND	0.0510	0.135		mg/Kg-dry	1	04/11/13 06:20 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 12-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1304037

Client Sample ID: SP-1
Lab ID: 1304037-01
Collection Date: 03/27/13 08:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Pentachlorophenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
Phenol	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
Total Phenol (Calculated)	ND	0.0102	0.0271		mg/Kg-dry	1	04/11/13 06:20 PM
Surr: 2,4,6-Tribromophenol	103	0	45-126		%REC	1	04/11/13 06:20 PM
Surr: 2-Fluorobiphenyl	81.0	0	60-125		%REC	1	04/11/13 06:20 PM
Surr: 2-Fluorophenol	76.0	0	37-125		%REC	1	04/11/13 06:20 PM
Surr: 4-Terphenyl-d14	86.0	0	45-125		%REC	1	04/11/13 06:20 PM
Surr: Nitrobenzene-d5	80.0	0	45-125		%REC	1	04/11/13 06:20 PM
Surr: Phenol-d6	78.0	0	40-125		%REC	1	04/11/13 06:20 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Aroclor 1221	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Aroclor 1232	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Aroclor 1242	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Aroclor 1248	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Aroclor 1254	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Aroclor 1260	ND	0.0170	0.0340		mg/Kg-dry	1	04/10/13 02:50 PM
Surr: 2-Fluorobiphenyl	72.0	0	43-125		%REC	1	04/10/13 02:50 PM
Surr: 4-Terphenyl-d14	85.9	0	32-125		%REC	1	04/10/13 02:50 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Toluene	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Carbon tetrachloride	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
1,2-Dichloroethane	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
1,1-Dichloroethylene	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Tetrachloroethylene	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Trichloroethylene	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Ethylbenzene	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Total Xylenes	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Methylene chloride	ND	0.00458	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Chloroform	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
1,1-Dichloroethane	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Ethylene bromide	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
1,1,1-Trichloroethane	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
1,1,2-Trichloroethane	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
1,1,2,2-Tetrachloroethane	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM
Vinyl chloride	ND	0.000916	0.00458		mg/Kg-dry	1	04/08/13 04:41 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 12-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1304037

Client Sample ID: SP-1
Lab ID: 1304037-01
Collection Date: 03/27/13 08:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	107	0	52-149		%REC	1	04/08/13 04:41 PM
Surr: 4-Bromofluorobenzene	107	0	84-118		%REC	1	04/08/13 04:41 PM
Surr: Dibromofluoromethane	67.0	0	65-135		%REC	1	04/08/13 04:41 PM
Surr: Toluene-d8	93.1	0	84-116		%REC	1	04/08/13 04:41 PM
TRPH		E418.1		Analyst: JCG			
Petroleum Hydrocarbons, TR	1450	50.6	101	N	mg/Kg-dry	10	04/10/13 04:20 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.200	0.501		mg/Kg-dry	1	04/05/13 05:02 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	205	5.03	5.03		mg/Kg-dry	1	04/10/13 11:03 AM
Fluoride	2.72	1.01	1.01		mg/Kg-dry	1	04/10/13 11:03 AM
Nitrate-N	ND	5.03	5.03		mg/Kg-dry	1	04/10/13 11:03 AM
Sulfate	794	101	101		mg/Kg-dry	10	04/10/13 12:07 PM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: MK			
pH	7.46	0	0		pH Units	1	04/08/13 02:15 PM
PERCENT MOISTURE		D2216		Analyst: JCG			
Percent Moisture	2.57	0	0		WT%	1	04/05/13 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 12-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1304037

Client Sample ID: SP-2
Lab ID: 1304037-02
Collection Date: 03/27/13 08:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		SW7471B			Analyst: LM		
Mercury	ND	0.0160	0.0401		mg/Kg-dry	1	04/09/13 12:43 PM
TRACE METALS: ICP-MS - SOLID		SW6020A			Analyst: SW		
Aluminum	10800	127	127		mg/Kg-dry	50	04/09/13 12:21 PM
Arsenic	2.94	0.508	1.02		mg/Kg-dry	5	04/08/13 06:14 PM
Barium	206	0.508	2.03		mg/Kg-dry	5	04/08/13 06:14 PM
Boron	9.36	2.54	7.62		mg/Kg-dry	5	04/09/13 11:57 AM
Cadmium	0.104	0.102	0.305	J	mg/Kg-dry	5	04/08/13 06:14 PM
Chromium	15.0	0.508	2.03		mg/Kg-dry	5	04/09/13 11:57 AM
Cobalt	3.57	0.508	2.03		mg/Kg-dry	5	04/09/13 11:57 AM
Copper	6.66	0.508	2.03		mg/Kg-dry	5	04/09/13 11:57 AM
Iron	9890	127	127		mg/Kg-dry	50	04/09/13 12:21 PM
Lead	5.69	0.102	0.305		mg/Kg-dry	5	04/08/13 06:14 PM
Manganese	109	0.508	2.03		mg/Kg-dry	5	04/08/13 06:14 PM
Molybdenum	0.670	0.508	2.03	J	mg/Kg-dry	5	04/09/13 11:57 AM
Nickel	8.18	0.508	2.03		mg/Kg-dry	5	04/09/13 11:57 AM
Selenium	1.65	0.152	0.508		mg/Kg-dry	5	04/08/13 06:14 PM
Silver	ND	0.102	0.203		mg/Kg-dry	5	04/08/13 06:14 PM
Zinc	22.0	1.02	2.54		mg/Kg-dry	5	04/08/13 06:14 PM
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.0102	0.0272	N	mg/Kg-dry	1	04/11/13 06:43 PM
2-Methylnaphthalene	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
Naphthalene	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
Benzo[a]pyrene	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2,3,4,6-Tetrachlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2,4,5-Trichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2,4,6-Trichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2,4-Dichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2,4-Dimethylphenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2,4-Dinitrophenol	ND	0.0511	0.135		mg/Kg-dry	1	04/11/13 06:43 PM
2,6-Dichlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2-Chlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2-Methylphenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
2-Nitrophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
4,6-Dinitro-2-methylphenol	ND	0.0307	0.0675		mg/Kg-dry	1	04/11/13 06:43 PM
4-Chloro-3-methylphenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
4-Methylphenol	ND	0.0204	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
4-Nitrophenol	ND	0.0511	0.135		mg/Kg-dry	1	04/11/13 06:43 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1304037

Client Sample ID: SP-2
Lab ID: 1304037-02
Collection Date: 03/27/13 08:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - SOIL		SW8270D			Analyst: CZ		
Pentachlorophenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
Phenol	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
Total Phenol (Calculated)	ND	0.0102	0.0272		mg/Kg-dry	1	04/11/13 06:43 PM
Surr: 2,4,6-Tribromophenol	105	0	45-126		%REC	1	04/11/13 06:43 PM
Surr: 2-Fluorobiphenyl	77.0	0	60-125		%REC	1	04/11/13 06:43 PM
Surr: 2-Fluorophenol	70.0	0	37-125		%REC	1	04/11/13 06:43 PM
Surr: 4-Terphenyl-d14	90.0	0	45-125		%REC	1	04/11/13 06:43 PM
Surr: Nitrobenzene-d5	77.0	0	45-125		%REC	1	04/11/13 06:43 PM
Surr: Phenol-d6	74.0	0	40-125		%REC	1	04/11/13 06:43 PM
PCB BY GC/MS - SOIL/SOLID		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Aroclor 1221	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Aroclor 1232	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Aroclor 1242	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Aroclor 1248	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Aroclor 1254	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Aroclor 1260	ND	0.0170	0.0341		mg/Kg-dry	1	04/10/13 03:21 PM
Surr: 2-Fluorobiphenyl	66.4	0	43-125		%REC	1	04/10/13 03:21 PM
Surr: 4-Terphenyl-d14	80.2	0	32-125		%REC	1	04/10/13 03:21 PM
8260 SOIL VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Toluene	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Carbon tetrachloride	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
1,2-Dichloroethane	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
1,1-Dichloroethylene	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Tetrachloroethylene	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Trichloroethylene	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Ethylbenzene	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Total Xylenes	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Methylene chloride	ND	0.00445	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Chloroform	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
1,1-Dichloroethane	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Ethylene bromide	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
1,1,1-Trichloroethane	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
1,1,2-Trichloroethane	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
1,1,2,2-Tetrachloroethane	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM
Vinyl chloride	ND	0.000890	0.00445		mg/Kg-dry	1	04/08/13 05:13 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 12-Apr-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1304037

Client Sample ID: SP-2
Lab ID: 1304037-02
Collection Date: 03/27/13 08:30 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 SOIL VOLATILES BY GC/MS		SW8260C		Analyst: KL			
Surr: 1,2-Dichloroethane-d4	109	0	52-149		%REC	1	04/08/13 05:13 PM
Surr: 4-Bromofluorobenzene	100	0	84-118		%REC	1	04/08/13 05:13 PM
Surr: Dibromofluoromethane	65.9	0	65-135		%REC	1	04/08/13 05:13 PM
Surr: Toluene-d8	93.1	0	84-116		%REC	1	04/08/13 05:13 PM
TRPH		E418.1		Analyst: JCG			
Petroleum Hydrocarbons, TR	212	5.11	10.2	N	mg/Kg-dry	1	04/10/13 04:20 PM
CYANIDE - SOLID SAMPLE		SW9014		Analyst: JCG			
Cyanide, Total	ND	0.201	0.503		mg/Kg-dry	1	04/05/13 05:01 PM
ANIONS BY IC METHOD - SOIL		E300		Analyst: JBC			
Chloride	95.8	5.25	5.25		mg/Kg-dry	1	04/10/13 11:20 AM
Fluoride	4.13	1.05	1.05		mg/Kg-dry	1	04/10/13 11:20 AM
Nitrate-N	ND	5.25	5.25		mg/Kg-dry	1	04/10/13 11:20 AM
Sulfate	568	10.5	10.5		mg/Kg-dry	1	04/10/13 11:20 AM
PH OF SOLID (CORROSIVITY)		SW9045D		Analyst: MK			
pH	7.83	0	0		pH Units	1	04/08/13 02:15 PM
PERCENT MOISTURE		D2216		Analyst: JCG			
Percent Moisture	5.41	0	0		WT%	1	04/05/13 08:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates

Work Order: 1304037

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130409A

The QC data in batch 56813 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: MB-56813	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg							
SampType: MBLK	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:25:20 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.0400								

Sample ID: LCS-56813	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg							
SampType: LCS	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:27:22 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.203	0.0400	0.2000	0	102	85	115			

Sample ID: LCSD-56813	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg							
SampType: LCSD	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:29:24 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.200	0.0400	0.2000	0	100	85	115	1.49	25	

Sample ID: 1304037-01C SD	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg-dry							
SampType: SD	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:33:29 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.192	0	0				0	10	

Sample ID: 1304037-01C PDS	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg-dry							
SampType: PDS	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:35:30 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.246	0.0384	0.2400	0	102	85	115			

Sample ID: 1304037-01C MS	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg-dry							
SampType: MS	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:37:33 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.199	0.0387	0.1933	0	103	80	120			

Sample ID: 1304037-01C MSD	Batch ID: 56813	TestNo: SW7471B	Units: mg/Kg-dry							
SampType: MSD	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:39:35 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.193	0.0384	0.1921	0	101	80	120	3.06	25	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130409A

Sample ID: ICV-130409	Batch ID: R65755	TestNo: SW7471B	Units: mg/Kg							
SampType: ICV	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:21:14 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00403	0.0400	0.004000	0	101	90	110			

Sample ID: CCV1-130409	Batch ID: R65755	TestNo: SW7471B	Units: mg/Kg							
SampType: CCV	Run ID: CETAC_HG_130409A	Analysis Date: 4/9/2013 12:45:45 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00197	0.0400	0.002000	0	98.5	90	110			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates

Work Order: 1304037

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130409B

The QC data in batch 56812 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: MB-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 11:21:00 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	ND	12.5								
Barium	ND	2.00								
Boron	ND	7.50								
Chromium	ND	2.00								
Cobalt	ND	2.00								
Copper	ND	2.00								
Iron	ND	12.5								
Manganese	ND	2.00								
Molybdenum	ND	2.00								
Nickel	ND	2.00								

Sample ID: LCS-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 11:27:00 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	245	12.5	250.0	0	97.9	80	120			
Barium	45.5	2.00	50.00	0	91.0	80	120			
Boron	49.1	7.50	50.00	0	98.1	80	120			
Chromium	49.4	2.00	50.00	0	98.8	80	120			
Cobalt	50.6	2.00	50.00	0	101	80	120			
Copper	51.0	2.00	50.00	0	102	80	120			
Iron	256	12.5	250.0	0	102	80	120			
Manganese	50.0	2.00	50.00	0	100	80	120			
Molybdenum	50.1	2.00	50.00	0	100	80	120			
Nickel	51.5	2.00	50.00	0	103	80	120			

Sample ID: LCSD-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: LCSD	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 11:33:00 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	241	12.5	250.0	0	96.6	80	120	1.33	20	
Barium	46.1	2.00	50.00	0	92.2	80	120	1.26	20	
Boron	49.8	7.50	50.00	0	99.7	80	120	1.62	20	
Chromium	50.2	2.00	50.00	0	101	80	120	1.71	20	
Cobalt	51.0	2.00	50.00	0	102	80	120	0.738	20	
Copper	51.2	2.00	50.00	0	102	80	120	0.392	20	
Iron	254	12.5	250.0	0	102	80	120	0.392	20	
Manganese	50.2	2.00	50.00	0	100	80	120	0.349	20	
Molybdenum	50.3	2.00	50.00	0	101	80	120	0.399	20	
Nickel	51.4	2.00	50.00	0	103	80	120	0.292	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130409B

Sample ID: 1304037-01C SD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 12:15:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	11500	629	0	11250				2.51	10	
Barium	71.7	101	0	72.38				0.925	10	
Boron	0	377	0	0				0	10	
Chromium	0	101	0	10.00				0	10	
Cobalt	0	101	0	0				0	10	
Copper	0	101	0	0				0	10	
Iron	8170	629	0	7977				2.40	10	
Manganese	121	101	0	121.6				0.633	10	
Molybdenum	0	101	0	0				0	10	
Nickel	0	101	0	6.131				0	10	

Sample ID: 1304037-01C PDS	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 12:51:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	26000	126	12580	11250	117	80	120			
Barium	589	20.1	503.1	72.38	103	80	120			
Boron	520	75.5	503.1	0	103	80	120			
Chromium	551	20.1	503.1	10.00	108	80	120			
Cobalt	570	20.1	503.1	0	113	80	120			
Copper	557	20.1	503.1	0	111	80	120			
Iron	22100	126	12580	7977	113	80	120			
Manganese	685	20.1	503.1	121.6	112	80	120			
Molybdenum	540	20.1	503.1	0	107	80	120			
Nickel	577	20.1	503.1	6.131	113	80	120			

Sample ID: 1304037-01C MS	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 12:56:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	49.2	7.55	50.31	0	97.8	80	120			
Chromium	52.9	2.01	50.31	10.00	85.2	80	120			
Cobalt	48.9	2.01	50.31	0	97.2	80	120			
Copper	49.6	2.01	50.31	0	98.7	80	120			
Iron	7800	12.6	251.6	7977	-72.0	80	120			S
Molybdenum	48.2	2.01	50.31	0	95.8	80	120			
Nickel	52.0	2.01	50.31	6.131	91.1	80	120			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130409B

Sample ID: 1304037-01C MSD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 1:02:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Boron	50.2	7.62	50.81	0	98.9	80	120	2.10	20	
Chromium	53.3	2.03	50.81	10.00	85.2	80	120	0.747	20	
Cobalt	50.5	2.03	50.81	0	99.3	80	120	3.12	20	
Copper	50.7	2.03	50.81	0	99.7	80	120	2.04	20	
Iron	7840	12.7	254.1	7977	-53.9	80	120	0.565	20	S
Molybdenum	50.5	2.03	50.81	0	99.5	80	120	4.78	20	
Nickel	53.1	2.03	50.81	6.131	92.4	80	120	2.14	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130409B

Sample ID: ILCVL-130409	Batch ID: R65766	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 10:57:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.112	0.0300	0.100	0	112	70	130			
Barium	0.00495	0.0100	0.00500	0	98.9	70	130			
Boron	0.0220	0.0300	0.0200	0	110	70	130			
Chromium	0.00533	0.00500	0.00500	0	107	70	130			
Cobalt	0.00586	0.0100	0.00500	0	117	70	130			
Copper	0.00588	0.0100	0.00500	0	118	70	130			
Iron	0.122	0.100	0.100	0	122	70	130			
Manganese	0.00566	0.0100	0.00500	0	113	70	130			
Molybdenum	0.00559	0.00500	0.00500	0	112	70	130			
Nickel	0.00583	0.0100	0.00500	0	117	70	130			

Sample ID: LCVL1-130409	Batch ID: R65766	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 1:31:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.116	0.0300	0.100	0	116	70	130			
Barium	0.00482	0.0100	0.00500	0	96.5	70	130			
Boron	0.0226	0.0300	0.0200	0	113	70	130			
Chromium	0.00525	0.00500	0.00500	0	105	70	130			
Cobalt	0.00559	0.0100	0.00500	0	112	70	130			
Copper	0.00569	0.0100	0.00500	0	114	70	130			
Iron	0.118	0.100	0.100	0	118	70	130			
Manganese	0.00555	0.0100	0.00500	0	111	70	130			
Molybdenum	0.00536	0.00500	0.00500	0	107	70	130			
Nickel	0.00546	0.0100	0.00500	0	109	70	130			

Sample ID: ICV1-130409	Batch ID: R65766	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 10:27:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	2.43	0.0300	2.50	0	97.4	90	110			
Barium	0.0938	0.0100	0.100	0	93.8	90	110			
Boron	0.0972	0.0300	0.100	0	97.2	90	110			
Chromium	0.101	0.00500	0.100	0	101	90	110			
Cobalt	0.106	0.0100	0.100	0	106	90	110			
Copper	0.105	0.0100	0.100	0	105	90	110			
Iron	2.57	0.100	2.50	0	103	90	110			
Manganese	0.103	0.0100	0.100	0	103	90	110			
Molybdenum	0.0975	0.00500	0.100	0	97.5	90	110			
Nickel	0.108	0.0100	0.100	0	108	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130409B

Sample ID: CCV1-130409	Batch ID: R65766	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS2_130409B	Analysis Date: 4/9/2013 1:08:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	5.03	0.0300	5.00	0	101	90	110			
Barium	0.186	0.0100	0.200	0	93.0	90	110			
Boron	0.199	0.0300	0.200	0	99.4	90	110			
Chromium	0.205	0.00500	0.200	0	103	90	110			
Cobalt	0.205	0.0100	0.200	0	103	90	110			
Copper	0.207	0.0100	0.200	0	104	90	110			
Iron	5.17	0.100	5.00	0	103	90	110			
Manganese	0.204	0.0100	0.200	0	102	90	110			
Molybdenum	0.206	0.00500	0.200	0	103	90	110			
Nickel	0.207	0.0100	0.200	0	104	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates

Work Order: 1304037

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408A

The QC data in batch 56812 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: MB-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 5:37:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Cadmium	ND	0.300								
Lead	ND	0.300								
Selenium	ND	0.500								
Silver	ND	0.200								
Zinc	ND	2.50								

Sample ID: LCS-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 5:43:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.6	1.00	50.00	0	91.1	80	120			
Cadmium	47.8	0.300	50.00	0	95.6	80	120			
Lead	49.4	0.300	50.00	0	98.8	80	120			
Selenium	44.7	0.500	50.00	0	89.4	80	120			
Silver	50.6	0.200	50.00	0	101	80	120			
Zinc	46.1	2.50	50.00	0	92.1	80	120			

Sample ID: LCSD-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: LCSD	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 5:49:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.5	1.00	50.00	0	93.0	80	120	2.06	20	
Cadmium	47.6	0.300	50.00	0	95.2	80	120	0.419	20	
Lead	49.2	0.300	50.00	0	98.4	80	120	0.304	20	
Selenium	44.9	0.500	50.00	0	89.9	80	120	0.446	20	
Silver	50.8	0.200	50.00	0	102	80	120	0.345	20	
Zinc	46.8	2.50	50.00	0	93.6	80	120	1.67	20	

Sample ID: 1304037-01C SD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 6:08:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	5.03	0	2.094				0	10	
Cadmium	0	1.51	0	0.2755				0	10	
Lead	5.31	1.51	0	5.389				1.48	10	
Selenium	1.62	2.52	0	1.800				10.7	10	R
Silver	0	1.01	0	0				0	10	
Zinc	21.4	12.6	0	19.50				9.32	10	

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408A

Sample ID: 1304037-01C PDS	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: PDS	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 7:08:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.0	1.01	50.31	2.094	89.3	80	120			
Cadmium	50.2	0.302	50.31	0.2755	99.3	80	120			
Lead	60.4	0.302	50.31	5.389	109	80	120			
Selenium	47.3	0.503	50.31	1.800	90.4	80	120			
Silver	47.9	0.201	50.31	0	95.2	80	120			
Zinc	60.4	2.52	50.31	19.50	81.3	80	120			

Sample ID: 1304037-01C MS	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MS	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 7:14:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	11600	12.6	251.6	11470	48.0	80	120			S
Arsenic	42.8	1.01	50.31	2.094	81.0	80	120			
Barium	133	2.01	50.31	82.16	101	80	120			
Cadmium	45.9	0.302	50.31	0.2755	90.7	80	120			
Lead	53.0	0.302	50.31	5.389	94.6	80	120			
Manganese	142	2.01	50.31	106.6	69.4	80	120			S
Selenium	42.0	0.503	50.31	1.800	79.9	80	120			
Silver	45.9	0.201	50.31	0	91.2	80	120			
Zinc	55.8	2.52	50.31	19.50	72.1	80	120			S

Sample ID: 1304037-01C MSD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: MSD	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 7:20:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	12200	12.7	254.1	11470	285	80	120	5.07	20	S
Arsenic	45.3	1.02	50.81	2.094	85.0	80	120	5.57	20	
Barium	133	2.03	50.81	82.16	101	80	120	0.131	20	
Cadmium	45.9	0.305	50.81	0.2755	89.9	80	120	0.049	20	
Lead	54.8	0.305	50.81	5.389	97.3	80	120	3.38	20	
Manganese	145	2.03	50.81	106.6	76.0	80	120	2.59	20	S
Selenium	44.6	0.508	50.81	1.800	84.2	80	120	5.95	20	
Silver	45.8	0.203	50.81	0	90.2	80	120	0.173	20	
Zinc	58.6	2.54	50.81	19.50	76.9	80	120	4.88	20	S

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected between MDL and RL
ND Not Detected at the Method Detection Limit
RL Reporting Limit
J Analyte detected between SDL and RL
DF Dilution Factor
MDL Method Detection Limit
R RPD outside accepted control limits
S Spike Recovery outside control limits
N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408A

Sample ID: ILCVL-130408	Batch ID: R65722	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 12:23:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.123	0.0300	0.100	0	123	70	130			
Arsenic	0.00559	0.00500	0.00500	0	112	70	130			
Barium	0.00519	0.0100	0.00500	0	104	70	130			
Cadmium	0.00112	0.00100	0.00100	0	112	70	130			
Cobalt	0.00556	0.0100	0.00500	0	111	70	130			
Copper	0.00552	0.0100	0.00500	0	110	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Manganese	0.00522	0.0100	0.00500	0	104	70	130			
Nickel	0.00564	0.0100	0.00500	0	113	70	130			
Selenium	0.00566	0.00500	0.00500	0	113	70	130			
Silver	0.00210	0.00200	0.00200	0	105	70	130			
Zinc	0.00561	0.00500	0.00500	0	112	70	130			

Sample ID: LCVL2-130408	Batch ID: R65722	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 5:19:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.108	0.0300	0.100	0	108	70	130			
Arsenic	0.00552	0.00500	0.00500	0	110	70	130			
Barium	0.00543	0.0100	0.00500	0	109	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			
Manganese	0.00523	0.0100	0.00500	0	105	70	130			
Selenium	0.00560	0.00500	0.00500	0	112	70	130			
Silver	0.00213	0.00200	0.00200	0	107	70	130			
Zinc	0.00560	0.00500	0.00500	0	112	70	130			

Sample ID: LCVL3-130408	Batch ID: R65722	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 8:03:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	0.121	0.0300	0.100	0	121	70	130			
Arsenic	0.00531	0.00500	0.00500	0	106	70	130			
Barium	0.00546	0.0100	0.00500	0	109	70	130			
Cadmium	0.00109	0.00100	0.00100	0	109	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Manganese	0.00519	0.0100	0.00500	0	104	70	130			
Selenium	0.00608	0.00500	0.00500	0	122	70	130			
Silver	0.00207	0.00200	0.00200	0	104	70	130			
Zinc	0.00491	0.00500	0.00500	0	98.2	70	130			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408A

Sample ID: ICV1-130408	Batch ID: R65722	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 12:05:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	2.48	0.0300	2.50	0	99.1	90	110			
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0970	0.0100	0.100	0	97.0	90	110			
Cadmium	0.0995	0.00100	0.100	0	99.5	90	110			
Cobalt	0.101	0.0100	0.100	0	101	90	110			
Copper	0.102	0.0100	0.100	0	102	90	110			
Lead	0.0947	0.00100	0.100	0	94.7	90	110			
Manganese	0.0957	0.0100	0.100	0	95.6	90	110			
Nickel	0.0998	0.0100	0.100	0	99.8	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.0937	0.00200	0.100	0	93.7	90	110			
Zinc	0.105	0.00500	0.100	0	105	90	110			

Sample ID: CCV2-130408	Batch ID: R65722	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 4:42:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	4.90	0.0300	5.00	0	98.1	90	110			
Arsenic	0.194	0.00500	0.200	0	96.8	90	110			
Barium	0.192	0.0100	0.200	0	95.8	90	110			
Cadmium	0.189	0.00100	0.200	0	94.4	90	110			
Lead	0.189	0.00100	0.200	0	94.7	90	110			
Manganese	0.183	0.0100	0.200	0	91.5	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.190	0.00200	0.200	0	95.2	90	110			
Zinc	0.198	0.00500	0.200	0	99.0	90	110			

Sample ID: CCV3-130408	Batch ID: R65722	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130408A	Analysis Date: 4/8/2013 7:26:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	5.13	0.0300	5.00	0	103	90	110			
Arsenic	0.192	0.00500	0.200	0	96.0	90	110			
Barium	0.196	0.0100	0.200	0	98.0	90	110			
Cadmium	0.187	0.00100	0.200	0	93.6	90	110			
Lead	0.187	0.00100	0.200	0	93.4	90	110			
Manganese	0.187	0.0100	0.200	0	93.7	90	110			
Selenium	0.207	0.00500	0.200	0	103	90	110			
Silver	0.186	0.00200	0.200	0	93.2	90	110			
Zinc	0.188	0.00500	0.200	0	94.2	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1304037

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408B

The QC data in batch 56812 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: MB-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: MBLK	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 5:37:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Lead	ND	0.300								
Selenium	ND	0.500								
Silver	ND	0.200								

Sample ID: LCS-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 5:43:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.6	1.00	50.00	0	91.1	80	120			
Barium	49.9	2.00	50.00	0	99.9	80	120			
Cadmium	47.8	0.300	50.00	0	95.6	80	120			
Chromium	47.2	2.00	50.00	0	94.5	80	120			
Lead	49.4	0.300	50.00	0	98.8	80	120			
Selenium	44.7	0.500	50.00	0	89.4	80	120			
Silver	50.6	0.200	50.00	0	101	80	120			

Sample ID: LCS-56812	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg
SampType: LCS	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 5:49:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.5	1.00	50.00	0	93.0	80	120	2.06	25	
Barium	50.1	2.00	50.00	0	100	80	120	0.300	25	
Cadmium	47.6	0.300	50.00	0	95.2	80	120	0.419	25	
Chromium	48.9	2.00	50.00	0	97.9	80	120	3.48	25	
Lead	49.2	0.300	50.00	0	98.4	80	120	0.304	25	
Selenium	44.9	0.500	50.00	0	89.9	80	120	0.446	25	
Silver	50.8	0.200	50.00	0	102	80	120	0.345	25	

Sample ID: 1304037-01C SD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry
SampType: SD	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 6:08:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	5.03	0	0.4187				0	10	
Cadmium	0	1.51	0	0.05509				0	10	
Chromium	9.46	10.1	0	1.775				137	10	R
Lead	5.31	1.51	0	1.078				133	10	R

Qualifiers: B Analyte detected in the associated Method Blank
 J Analyte detected between MDL and RL
 ND Not Detected at the Method Detection Limit
 RL Reporting Limit
 J Analyte detected between SDL and RL

DF Dilution Factor
 MDL Method Detection Limit
 R RPD outside accepted control limits
 S Spike Recovery outside control limits
 N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408B

Sample ID: 1304037-01C SD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: SD	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 6:08:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	1.62	2.52	0	0.3599				127	10	R
Silver	0	1.01	0	0				0	10	

Sample ID: 1304037-01C PDS	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: PDS	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 7:08:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.0	1.01	50.31	0.4187	92.7	80	120			
Cadmium	50.2	0.302	50.31	0.05509	99.7	80	120			
Chromium	51.3	2.01	50.31	1.775	98.5	80	120			
Lead	60.4	0.302	50.31	1.078	118	80	120			
Selenium	47.3	0.503	50.31	0.3599	93.2	80	120			
Silver	47.9	0.201	50.31	0	95.2	80	120			

Sample ID: 1304037-01C MS	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: MS	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 7:14:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	42.8	1.01	50.31	0.4187	84.3	80	120			
Barium	133	2.01	50.31	16.43	232	80	120			S
Cadmium	45.9	0.302	50.31	0.05509	91.1	80	120			
Chromium	47.2	2.01	50.31	1.775	90.3	80	120			
Lead	53.0	0.302	50.31	1.078	103	80	120			
Selenium	42.0	0.503	50.31	0.3599	82.7	80	120			
Silver	45.9	0.201	50.31	0	91.2	80	120			

Sample ID: 1304037-01C MSD	Batch ID: 56812	TestNo: SW6020A	Units: mg/Kg-dry							
SampType: MSD	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 7:20:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.3	1.02	50.81	0.4187	88.3	80	120	5.57	25	
Barium	133	2.03	50.81	16.43	230	80	120	0.131	25	S
Cadmium	45.9	0.305	50.81	0.05509	90.3	80	120	0.049	25	
Chromium	48.8	2.03	50.81	1.775	92.6	80	120	3.36	25	
Lead	54.8	0.305	50.81	1.078	106	80	120	3.38	25	
Selenium	44.6	0.508	50.81	0.3599	87.0	80	120	5.95	25	
Silver	45.8	0.203	50.81	0	90.2	80	120	0.173	25	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408B

Sample ID: ICV1-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 12:05:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.100	0.00500	0.100	0	100	90	110			
Barium	0.0970	0.0100	0.100	0	97.0	90	110			
Cadmium	0.0995	0.00100	0.100	0	99.5	90	110			
Chromium	0.0972	0.00500	0.100	0	97.2	90	110			
Lead	0.0947	0.00100	0.100	0	94.7	90	110			
Selenium	0.102	0.00500	0.100	0	102	90	110			
Silver	0.0937	0.00200	0.100	0	93.7	90	110			

Sample ID: ILCVL-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 12:23:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00559	0.00500	0.00500	0	112	70	130			
Barium	0.00519	0.0100	0.00500	0	104	70	130			
Cadmium	0.00112	0.00100	0.00100	0	112	70	130			
Chromium	0.00527	0.00500	0.00500	0	105	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Selenium	0.00566	0.00500	0.00500	0	113	70	130			
Silver	0.00210	0.00200	0.00200	0	105	70	130			

Sample ID: CCV2-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 4:42:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.194	0.00500	0.200	0	96.8	90	110			
Barium	0.192	0.0100	0.200	0	95.8	90	110			
Cadmium	0.189	0.00100	0.200	0	94.4	90	110			
Chromium	0.186	0.00500	0.200	0	93.1	90	110			
Lead	0.189	0.00100	0.200	0	94.7	90	110			
Selenium	0.202	0.00500	0.200	0	101	90	110			
Silver	0.190	0.00200	0.200	0	95.2	90	110			

Sample ID: LCVL2-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 5:19:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00552	0.00500	0.00500	0	110	70	130			
Barium	0.00543	0.0100	0.00500	0	109	70	130			
Cadmium	0.00107	0.00100	0.00100	0	107	70	130			
Chromium	0.00528	0.00500	0.00500	0	106	70	130			
Lead	0.00106	0.00100	0.00100	0	106	70	130			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130408B

Sample ID: LCVL2-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 5:19:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.00560	0.00500	0.00500	0	112	70	130			
Silver	0.00213	0.00200	0.00200	0	107	70	130			

Sample ID: CCV3-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 7:26:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.192	0.00500	0.200	0	96.0	90	110			
Barium	0.196	0.0100	0.200	0	98.0	90	110			
Cadmium	0.187	0.00100	0.200	0	93.6	90	110			
Lead	0.187	0.00100	0.200	0	93.4	90	110			
Selenium	0.207	0.00500	0.200	0	103	90	110			
Silver	0.186	0.00200	0.200	0	93.2	90	110			

Sample ID: CCV3-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 7:32:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium	0.180	0.00500	0.200	0	89.9	90	110			

Sample ID: LCVL3-130408	Batch ID: R65742	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS3_130408B	Analysis Date: 4/8/2013 8:03:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00531	0.00500	0.00500	0	106	70	130			
Barium	0.00546	0.0100	0.00500	0	109	70	130			
Cadmium	0.00109	0.00100	0.00100	0	109	70	130			
Chromium	0.00470	0.00500	0.00500	0	94.0	70	130			
Lead	0.00108	0.00100	0.00100	0	108	70	130			
Selenium	0.00608	0.00500	0.00500	0	122	70	130			
Silver	0.00207	0.00200	0.00200	0	104	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130410A

The QC data in batch 56850 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: LCS-56850	Batch ID: 56850	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS8_130410A	Analysis Date: 4/10/2013 12:46:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.838	0.0500	1.000	0	83.8	41	138			
Aroclor 1260	0.884	0.0500	1.000	0	88.4	61	131			
Surr: 2-Fluorobiphenyl	0.640		1.000		64.0	43	125			
Surr: 4-Terphenyl-d14	1.64		1.000		164	32	125			S

Sample ID: MB-56850	Batch ID: 56850	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS8_130410A	Analysis Date: 4/10/2013 1:48:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.0500								
Aroclor 1221	ND	0.0500								
Aroclor 1232	ND	0.0500								
Aroclor 1242	ND	0.0500								
Aroclor 1248	ND	0.0500								
Aroclor 1254	ND	0.0500								
Aroclor 1260	ND	0.0500								
Surr: 2-Fluorobiphenyl	0.651		1.000		65.1	43	125			
Surr: 4-Terphenyl-d14	0.789		1.000		78.9	32	125			

Sample ID: 1304037-01CMS	Batch ID: 56850	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS8_130410A	Analysis Date: 4/10/2013 3:52:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.682	0.0331	0.6622	0	103	41	138			
Aroclor 1260	0.711	0.0331	0.6622	0	107	61	131			
Surr: 2-Fluorobiphenyl	0.491		0.6622		74.2	43	125			
Surr: 4-Terphenyl-d14	0.549		0.6622		83.0	32	125			

Sample ID: 1304037-01CMSD	Batch ID: 56850	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS8_130410A	Analysis Date: 4/10/2013 4:23:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.657	0.0331	0.6626	0	99.1	41	138	3.74	50	
Aroclor 1260	0.685	0.0331	0.6626	0	103	61	131	3.76	50	
Surr: 2-Fluorobiphenyl	0.456		0.6626		68.8	43	125	0	0	
Surr: 4-Terphenyl-d14	0.538		0.6626		81.1	32	125	0	0	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130410A

Sample ID: ICV-130410	Batch ID: R65779	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS8_130410A	Analysis Date: 4/10/2013 10:29:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.92	0.0500	2.000	0	96.2	80	120			
Aroclor 1260	2.01	0.0500	2.000	0	100	80	120			
Surr: 2-Fluorobiphenyl	1.75		2.000		87.4	80	120			
Surr: 4-Terphenyl-d14	1.87		2.000		93.3	80	120			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Larson & Associates

Work Order: 1304037

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130411D

The QC data in batch 56849 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: LCS-56849	Batch ID: 56849	TestNo: SW8270D	Units: mg/Kg
SampType: LCS	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 7:50:00 AM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.06	0.0266	1.340	0	79.3	40	125			N
2,3,4,6-Tetrachlorophenol	1.09	0.0266	1.340	0	81.3	40	125			
2,4,5-Trichlorophenol	1.18	0.0266	1.340	0	88.0	49	125			
2,4,6-Trichlorophenol	1.16	0.0266	1.340	0	86.3	43	125			
2,4-Dichlorophenol	1.17	0.0266	1.340	0	87.1	45	125			
2,4-Dimethylphenol	1.20	0.0266	1.340	0	89.4	32	125			
2,4-Dinitrophenol	0.858	0.132	1.340	0	64.0	25	132			
2,6-Dichlorophenol	1.16	0.0266	1.340	0	86.3	38	125			
2-Chlorophenol	1.01	0.0266	1.340	0	75.7	44	125			
2-Methylnaphthalene	1.08	0.0266	1.340	0	80.3	47	125			
2-Methylphenol	0.977	0.0266	1.340	0	72.9	40	125			
2-Nitrophenol	1.06	0.0266	1.340	0	79.1	42	125			
4,6-Dinitro-2-methylphenol	1.14	0.0660	1.340	0	84.8	29	137			
4-Chloro-3-methylphenol	1.21	0.0266	1.340	0	90.4	46	125			
4-Methylphenol	1.02	0.0266	1.340	0	75.9	41	125			
4-Nitrophenol	1.16	0.132	1.340	0	86.5	25	138			
Benzo[a]pyrene	1.30	0.0266	1.340	0	97.3	50	125			
Naphthalene	1.04	0.0266	1.340	0	77.3	40	125			
Pentachlorophenol	1.00	0.0266	1.340	0	74.6	25	125			
Phenol	0.948	0.0266	1.340	0	70.7	25	125			
Surr: 2,4,6-Tribromophenol	0.600		0.6670		90.0	45	138			
Surr: 2-Fluorobiphenyl	0.527		0.6670		79.0	60	135			
Surr: 2-Fluorophenol	0.527		0.6670		79.0	37	125			
Surr: 4-Terphenyl-d14	0.620		0.6670		93.0	60	129			
Surr: Nitrobenzene-d5	0.513		0.6670		77.0	45	125			
Surr: Phenol-d6	0.507		0.6670		76.0	40	125			

Sample ID: MB-56849	Batch ID: 56849	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 9:46:00 AM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.0266								N
2,3,4,6-Tetrachlorophenol	ND	0.0266								
2,4,5-Trichlorophenol	ND	0.0266								
2,4,6-Trichlorophenol	ND	0.0266								
2,4-Dichlorophenol	ND	0.0266								
2,4-Dimethylphenol	ND	0.0266								
2,4-Dinitrophenol	ND	0.132								
2,6-Dichlorophenol	ND	0.0266								
2-Chlorophenol	ND	0.0266								

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130411D

Sample ID: MB-56849	Batch ID: 56849	TestNo: SW8270D	Units: mg/Kg
SampType: MBLK	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 9:46:00 AM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylnaphthalene	ND	0.0266								
2-Methylphenol	ND	0.0266								
2-Nitrophenol	ND	0.0266								
4,6-Dinitro-2-methylphenol	ND	0.0660								
4-Chloro-3-methylphenol	ND	0.0266								
4-Methylphenol	ND	0.0266								
4-Nitrophenol	ND	0.132								
Benzo[a]pyrene	ND	0.0266								
Naphthalene	ND	0.0266								
Pentachlorophenol	ND	0.0266								
Phenol	ND	0.0266								
Total Phenol (Calculated)	ND	0.0266								
Surr: 2,4,6-Tribromophenol	0.467		0.6670		70.0	45	138			
Surr: 2-Fluorobiphenyl	0.507		0.6670		76.0	60	135			
Surr: 2-Fluorophenol	0.493		0.6670		74.0	37	125			
Surr: 4-Terphenyl-d14	0.540		0.6670		81.0	60	129			
Surr: Nitrobenzene-d5	0.467		0.6670		70.0	45	125			
Surr: Phenol-d6	0.513		0.6670		77.0	40	125			

Sample ID: 1304037-01CMS	Batch ID: 56849	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 7:06:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.05	0.0268	1.349	0	78.1	40	125			N
2,3,4,6-Tetrachlorophenol	1.13	0.0268	1.349	0	84.1	40	125			
2,4,5-Trichlorophenol	1.19	0.0268	1.349	0	88.5	49	125			
2,4,6-Trichlorophenol	1.21	0.0268	1.349	0	89.4	43	125			
2,4-Dichlorophenol	1.10	0.0268	1.349	0	81.7	45	125			
2,4-Dimethylphenol	1.13	0.0268	1.349	0	84.1	32	125			
2,4-Dinitrophenol	0.318	0.133	1.349	0	23.5	25	132			S
2,6-Dichlorophenol	1.09	0.0268	1.349	0	80.7	38	125			
2-Chlorophenol	0.950	0.0268	1.349	0	70.4	44	125			
2-Methylnaphthalene	1.04	0.0268	1.349	0	76.9	47	125			
2-Methylphenol	0.879	0.0268	1.349	0	65.1	40	125			
2-Nitrophenol	1.04	0.0268	1.349	0	76.9	42	125			
4,6-Dinitro-2-methylphenol	0.511	0.0665	1.349	0	37.9	29	137			
4-Chloro-3-methylphenol	1.19	0.0268	1.349	0	88.3	46	125			
4-Methylphenol	0.942	0.0268	1.349	0	69.8	41	125			
4-Nitrophenol	1.39	0.133	1.349	0	103	25	138			
Benzo[a]pyrene	1.20	0.0268	1.349	0	88.8	50	125			
Naphthalene	0.995	0.0268	1.349	0	73.7	40	125			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130411D

Sample ID: 1304037-01CMS	Batch ID: 56849	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 7:06:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Pentachlorophenol	1.24	0.0268	1.349	0	92.2	25	125			
Phenol	0.881	0.0268	1.349	0	65.3	25	125			
Surr: 2,4,6-Tribromophenol	0.718		0.6716		107	45	138			
Surr: 2-Fluorobiphenyl	0.517		0.6716		77.0	60	135			
Surr: 2-Fluorophenol	0.477		0.6716		71.0	37	125			
Surr: 4-Terphenyl-d14	0.571		0.6716		85.0	60	129			
Surr: Nitrobenzene-d5	0.530		0.6716		79.0	45	125			
Surr: Phenol-d6	0.483		0.6716		72.0	40	125			

Sample ID: 1304037-01CMSD	Batch ID: 56849	TestNo: SW8270D	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 7:30:00 PM	Prep Date: 4/9/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	1.03	0.0266	1.342	0	77.0	40	125	1.87	30	N
2,3,4,6-Tetrachlorophenol	1.12	0.0266	1.342	0	83.3	40	125	1.41	30	
2,4,5-Trichlorophenol	1.15	0.0266	1.342	0	85.8	49	125	3.60	30	
2,4,6-Trichlorophenol	1.19	0.0266	1.342	0	89.0	43	125	0.912	30	
2,4-Dichlorophenol	1.11	0.0266	1.342	0	83.0	45	125	0.988	30	
2,4-Dimethylphenol	1.14	0.0266	1.342	0	84.7	32	125	0.186	30	
2,4-Dinitrophenol	0.287	0.132	1.342	0	21.4	25	132	10.0	30	S
2,6-Dichlorophenol	1.10	0.0266	1.342	0	81.7	38	125	0.703	30	
2-Chlorophenol	0.978	0.0266	1.342	0	72.8	44	125	2.88	30	
2-Methylnaphthalene	1.04	0.0266	1.342	0	77.3	47	125	0.059	30	
2-Methylphenol	0.891	0.0266	1.342	0	66.4	40	125	1.37	30	
2-Nitrophenol	1.06	0.0266	1.342	0	78.8	42	125	1.97	30	
4,6-Dinitro-2-methylphenol	0.448	0.0661	1.342	0	33.4	29	137	13.1	30	
4-Chloro-3-methylphenol	1.18	0.0266	1.342	0	87.7	46	125	1.20	30	
4-Methylphenol	0.948	0.0266	1.342	0	70.6	41	125	0.683	30	
4-Nitrophenol	1.34	0.132	1.342	0	100	25	138	3.36	30	
Benzo[a]pyrene	1.17	0.0266	1.342	0	87.1	50	125	2.44	30	
Naphthalene	1.00	0.0266	1.342	0	74.8	40	125	0.952	30	
Pentachlorophenol	1.16	0.0266	1.342	0	86.1	25	125	7.33	30	
Phenol	0.896	0.0266	1.342	0	66.8	25	125	1.74	30	
Surr: 2,4,6-Tribromophenol	0.701		0.6681		105	45	138	0	0	
Surr: 2-Fluorobiphenyl	0.508		0.6681		76.0	60	135	0	0	
Surr: 2-Fluorophenol	0.494		0.6681		74.0	37	125	0	0	
Surr: 4-Terphenyl-d14	0.561		0.6681		84.0	60	129	0	0	
Surr: Nitrobenzene-d5	0.541		0.6681		81.0	45	125	0	0	
Surr: Phenol-d6	0.487		0.6681		73.0	40	125	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130411D

Sample ID: ICV-130411	Batch ID: R65800	TestNo: SW8270D	Units: mg/Kg
SampType: ICV	Run ID: GCMS9_130411D	Analysis Date: 4/11/2013 7:04:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.69	0.0266	4.000	0	92.2	80	120			N
2,3,4,6-Tetrachlorophenol	4.01	0.0266	4.000	0	100	80	120			
2,4,5-Trichlorophenol	4.01	0.0266	4.000	0	100	80	120			
2,4,6-Trichlorophenol	4.18	0.0266	4.000	0	105	80	120			
2,4-Dichlorophenol	4.07	0.0266	4.000	0	102	80	120			
2,4-Dimethylphenol	3.58	0.0266	4.000	0	89.5	80	120			
2,4-Dinitrophenol	3.60	0.132	4.000	0	89.9	80	120			
2,6-Dichlorophenol	3.91	0.0266	4.000	0	97.8	80	120			
2-Chlorophenol	3.73	0.0266	4.000	0	93.3	80	120			
2-Methylnaphthalene	3.71	0.0266	4.000	0	92.7	80	120			
2-Methylphenol	3.14	0.0266	4.000	0	78.5	80	120			S
2-Nitrophenol	3.89	0.0266	4.000	0	97.4	80	120			
4,6-Dinitro-2-methylphenol	4.00	0.0660	4.000	0	100	80	120			
4-Chloro-3-methylphenol	4.04	0.0266	4.000	0	101	80	120			
4-Methylphenol	2.96	0.0266	4.000	0	74.0	80	120			S
4-Nitrophenol	4.09	0.132	4.000	0	102	80	120			
Benzo[a]pyrene	4.23	0.0266	4.000	0	106	80	120			
Naphthalene	3.55	0.0266	4.000	0	88.8	80	120			
Pentachlorophenol	3.69	0.0266	4.000	0	92.3	80	120			
Phenol	3.25	0.0266	4.000	0	81.3	80	120			
Total Phenol (Calculated)	56.4	0.0266	0							
Surr: 2,4,6-Tribromophenol	4.13		4.000		103	80	120			
Surr: 2-Fluorobiphenyl	3.71		4.000		92.8	80	120			
Surr: 2-Fluorophenol	3.98		4.000		99.5	80	120			
Surr: 4-Terphenyl-d14	4.05		4.000		101	80	120			
Surr: Nitrobenzene-d5	4.01		4.000		100	80	120			
Surr: Phenol-d6	3.33		4.000		83.2	80	120			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130408B

The QC data in batch 56822 applies to the following samples: 1304037-01A, 1304037-02A

Sample ID: LCS-56822	Batch ID: 56822	TestNo: SW8260C	Units: mg/Kg
SampType: LCS	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 10:57:00 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0233	0.00500	0.0232	0	101	68	130			
1,1,2,2-Tetrachloroethane	0.0221	0.00500	0.0232	0	95.2	59	140			
1,1,2-Trichloroethane	0.0248	0.00500	0.0232	0	107	62	127			
1,1-Dichloroethane	0.0221	0.00500	0.0232	0	95.3	73	125			
1,1-Dichloroethylene	0.0221	0.00500	0.0232	0	95.3	65	136			
1,2-Dichloroethane	0.0245	0.00500	0.0232	0	105	72	137			
Benzene	0.0223	0.00500	0.0232	0	95.9	75	125			
Carbon tetrachloride	0.0230	0.00500	0.0232	0	99.1	67	133			
Chloroform	0.0236	0.00500	0.0232	0	102	72	124			
Ethylbenzene	0.0208	0.00500	0.0232	0	89.7	75	125			
Ethylene bromide	0.0214	0.00500	0.0232	0	92.1	70	124			
Methylene chloride	0.0240	0.00500	0.0232	0	104	63	137			
Tetrachloroethylene	0.0209	0.00500	0.0232	0	90.2	67	139			
Toluene	0.0227	0.00500	0.0232	0	97.9	75	125			
Trichloroethylene	0.0220	0.00500	0.0232	0	94.8	77	124			
Vinyl chloride	0.0245	0.00500	0.0232	0	106	58	126			
Total Xylenes	0.0634	0.00500	0.0696	0	91.0	75	125			
Surr: 1,2-Dichloroethane-d4	57.3		50.00		115	52	149			
Surr: 4-Bromofluorobenzene	48.8		50.00		97.7	84	118			
Surr: Dibromofluoromethane	52.8		50.00		106	65	135			
Surr: Toluene-d8	45.8		50.00		91.7	84	116			

Sample ID: MB-56822	Batch ID: 56822	TestNo: SW8260C	Units: mg/Kg
SampType: MBLK	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 12:00:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00500								
1,1,2,2-Tetrachloroethane	ND	0.00500								
1,1,2-Trichloroethane	ND	0.00500								
1,1-Dichloroethane	ND	0.00500								
1,1-Dichloroethylene	ND	0.00500								
1,2-Dichloroethane	ND	0.00500								
Benzene	ND	0.00500								
Carbon tetrachloride	ND	0.00500								
Chloroform	ND	0.00500								
Ethylbenzene	ND	0.00500								
Ethylene bromide	ND	0.00500								
Methylene chloride	ND	0.00500								
Tetrachloroethylene	ND	0.00500								
Toluene	ND	0.00500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
 Work Order: 1304037
 Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130408B

Sample ID: MB-56822	Batch ID: 56822	TestNo: SW8260C	Units: mg/Kg
SampType: MBLK	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 12:00:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Trichloroethylene	ND	0.00500								
Vinyl chloride	ND	0.00500								
Total Xylenes	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	49.9		50.00		99.9	52	149			
Surr: 4-Bromofluorobenzene	48.8		50.00		97.5	84	118			
Surr: Dibromofluoromethane	50.9		50.00		102	65	135			
Surr: Toluene-d8	46.8		50.00		93.7	84	116			

Sample ID: 1304037-01AMS	Batch ID: 56822	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 6:15:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0165	0.00482	0.0224	0	73.8	68	130			
1,1,2,2-Tetrachloroethane	0.0197	0.00482	0.0224	0	87.8	59	140			
1,1,2-Trichloroethane	0.0209	0.00482	0.0224	0	93.5	62	127			
1,1-Dichloroethane	0.0191	0.00482	0.0224	0	85.5	73	125			
1,1-Dichloroethylene	0.0172	0.00482	0.0224	0	76.6	65	136			
1,2-Dichloroethane	0.0207	0.00482	0.0224	0	92.4	72	137			
Benzene	0.0193	0.00482	0.0224	0	86.3	73	126			
Carbon tetrachloride	0.0152	0.00482	0.0224	0	67.8	67	133			
Chloroform	0.0191	0.00482	0.0224	0	85.4	72	124			
Ethylbenzene	0.0137	0.00482	0.0224	0	61.4	74	127			S
Ethylene bromide	0.0196	0.00482	0.0224	0	87.5	70	124			
Methylene chloride	0.0213	0.00482	0.0224	0	95.1	63	137			
Tetrachloroethylene	0.0123	0.00482	0.0224	0	55.1	67	139			S
Toluene	0.0174	0.00482	0.0224	0	77.9	71	127			
Trichloroethylene	0.0170	0.00482	0.0224	0	76.1	77	124			S
Vinyl chloride	0.0203	0.00482	0.0224	0	90.8	58	126			
Total Xylenes	0.0416	0.00482	0.0671	0	61.9	75	125			S
Surr: 1,2-Dichloroethane-d4	49.9		48.23		103	52	149			
Surr: 4-Bromofluorobenzene	49.6		48.23		103	84	118			
Surr: Dibromofluoromethane	32.3		48.23		66.9	65	135			
Surr: Toluene-d8	46.4		48.23		96.2	84	116			

Sample ID: 1304037-01AMSD	Batch ID: 56822	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 6:47:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0157	0.00456	0.0211	0	74.4	68	130	4.79	30	
1,1,2,2-Tetrachloroethane	0.0219	0.00456	0.0211	0	103	59	140	10.7	30	
1,1,2-Trichloroethane	0.0203	0.00456	0.0211	0	95.9	62	127	3.16	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130408B

Sample ID: 1304037-01AMSD	Batch ID: 56822	TestNo: SW8260C	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 6:47:00 PM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethane	0.0183	0.00456	0.0211	0	86.4	73	125	4.66	30	
1,1-Dichloroethylene	0.0166	0.00456	0.0211	0	78.7	65	136	3.00	30	
1,2-Dichloroethane	0.0193	0.00456	0.0211	0	91.1	72	137	7.02	30	
Benzene	0.0184	0.00456	0.0211	0	87.0	73	126	4.87	30	
Carbon tetrachloride	0.0142	0.00456	0.0211	0	67.4	67	133	6.24	30	
Chloroform	0.0182	0.00456	0.0211	0	86.0	72	124	4.96	30	
Ethylbenzene	0.0137	0.00456	0.0211	0	64.6	74	127	0.668	30	S
Ethylene bromide	0.0196	0.00456	0.0211	0	92.6	70	124	0.016	30	
Methylene chloride	0.0208	0.00456	0.0211	0	98.6	63	137	2.06	30	
Tetrachloroethylene	0.0127	0.00456	0.0211	0	60.1	67	139	3.02	30	S
Toluene	0.0167	0.00456	0.0211	0	78.8	71	127	4.51	30	
Trichloroethylene	0.0164	0.00456	0.0211	0	77.7	77	124	3.59	30	
Vinyl chloride	0.0196	0.00456	0.0211	0	92.7	58	126	3.55	30	
Total Xylenes	0.0424	0.00456	0.0634	0	66.9	75	125	2.06	30	S
Surr: 1,2-Dichloroethane-d4	46.9		45.58		103	52	149	0	0	
Surr: 4-Bromofluorobenzene	50.9		45.58		112	84	118	0	0	
Surr: Dibromofluoromethane	31.6		45.58		69.3	65	135	0	0	
Surr: Toluene-d8	43.7		45.58		95.8	84	116	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130408B

Sample ID: ICV-130408	Batch ID: R65746	TestNo: SW8260C	Units: mg/Kg
SampType: ICV	Run ID: GCMS2_130408B	Analysis Date: 4/8/2013 10:26:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0492	0.00500	0.0464	0	106	80	120			
1,1,2,2-Tetrachloroethane	0.0427	0.00500	0.0464	0	92.0	80	120			
1,1,2-Trichloroethane	0.0471	0.00500	0.0464	0	102	80	120			
1,1-Dichloroethane	0.0463	0.00500	0.0464	0	99.9	80	120			
1,1-Dichloroethylene	0.0455	0.00500	0.0464	0	98.0	80	120			
1,2-Dichloroethane	0.0496	0.00500	0.0464	0	107	80	120			
Benzene	0.0455	0.00500	0.0464	0	98.0	80	120			
Carbon tetrachloride	0.0491	0.00500	0.0464	0	106	80	120			
Chloroform	0.0481	0.00500	0.0464	0	104	80	120			
Ethylbenzene	0.0444	0.00500	0.0464	0	95.6	80	120			
Ethylene bromide	0.0422	0.00500	0.0464	0	90.9	80	120			
Methylene chloride	0.0486	0.00500	0.0464	0	105	80	120			
Tetrachloroethylene	0.0446	0.00500	0.0464	0	96.1	80	120			
Toluene	0.0469	0.00500	0.0464	0	101	80	120			
Trichloroethylene	0.0445	0.00500	0.0464	0	96.0	80	120			
Vinyl chloride	0.0515	0.00500	0.0464	0	111	80	120			
Total Xylenes	0.137	0.00500	0.139	0	98.2	80	120			
Surr: 1,2-Dichloroethane-d4	58.0		50.00		116	52	149			
Surr: 4-Bromofluorobenzene	48.8		50.00		97.7	84	118			
Surr: Dibromofluoromethane	52.3		50.00		105	65	135			
Surr: Toluene-d8	46.4		50.00		92.8	84	116			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130410A

The QC data in batch 56830 applies to the following samples: 1304037-01B, 1304037-02B

Sample ID: LCS-56830	Batch ID: 56830	TestNo: E300	Units: mg/Kg
SampType: LCS	Run ID: IC2_130410A	Analysis Date: 4/10/2013 10:03:15 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	50.0	5.00	50.00	0	99.9	80	120			
Fluoride	20.0	1.00	20.00	0	100	80	120			
Nitrate-N	25.4	5.00	25.00	0	102	80	120			
Sulfate	149	10.0	150.0	0	99.1	80	120			

Sample ID: LCSD-56830	Batch ID: 56830	TestNo: E300	Units: mg/Kg
SampType: LCSD	Run ID: IC2_130410A	Analysis Date: 4/10/2013 10:17:50 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	49.7	5.00	50.00	0	99.5	80	120	0.460	20	
Fluoride	19.9	1.00	20.00	0	99.6	80	120	0.404	20	
Nitrate-N	25.4	5.00	25.00	0	102	80	120	0.063	20	
Sulfate	148	10.0	150.0	0	98.6	80	120	0.474	20	

Sample ID: MB-56830	Batch ID: 56830	TestNo: E300	Units: mg/Kg
SampType: MBLK	Run ID: IC2_130410A	Analysis Date: 4/10/2013 10:32:24 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	5.00								
Fluoride	ND	1.00								
Nitrate-N	ND	5.00								
Sulfate	ND	10.0								

Sample ID: 1304037-02B MS	Batch ID: 56830	TestNo: E300	Units: mg/Kg-dry
SampType: MS	Run ID: IC2_130410A	Analysis Date: 4/10/2013 11:37:58 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	107	5.25	52.55	57.51	95.0	80	120			
Fluoride	23.3	1.05	21.02	2.480	98.8	80	120			
Nitrate-N	26.8	5.25	26.27	0	102	80	120			
Sulfate	501	10.5	157.6	340.9	102	80	120			

Sample ID: 1304037-02B MSD	Batch ID: 56830	TestNo: E300	Units: mg/Kg-dry
SampType: MSD	Run ID: IC2_130410A	Analysis Date: 4/10/2013 11:52:33 AM	Prep Date: 4/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	108	5.25	52.55	57.51	95.3	80	120	0.183	20	
Fluoride	23.2	1.05	21.02	2.480	98.4	80	120	0.390	20	
Nitrate-N	26.7	5.25	26.27	0	102	80	120	0.332	20	
Sulfate	502	10.5	157.6	340.9	102	80	120	0.115	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130410A

Sample ID: 1304038-11A MS	Batch ID: 56830	TestNo: E300	Units: mg/Kg-dry							
SampType: MS	Run ID: IC2_130410A	Analysis Date: 4/10/2013 5:04:23 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1040	50.4	503.9	554.3	97.2	80	120			

Sample ID: 1304038-11A MSD	Batch ID: 56830	TestNo: E300	Units: mg/Kg-dry							
SampType: MSD	Run ID: IC2_130410A	Analysis Date: 4/10/2013 5:18:57 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1050	50.4	503.9	554.3	97.5	80	120	0.137	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130410A

Sample ID: ICV-130410	Batch ID: R65774	TestNo: E300	Units: mg/Kg							
SampType: ICV	Run ID: IC2_130410A	Analysis Date: 4/10/2013 9:32:16 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.6	5.00	25.00	0	102	90	110			
Fluoride	10.3	1.00	10.00	0	103	90	110			
Nitrate-N	13.0	5.00	12.50	0	104	90	110			
Sulfate	76.9	10.0	75.00	0	103	90	110			

Sample ID: CCV1-130410	Batch ID: R65774	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130410A	Analysis Date: 4/10/2013 12:51:42 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.99	5.00	10.00	0	99.9	90	110			
Fluoride	3.98	1.00	4.000	0	99.4	90	110			
Nitrate-N	5.06	5.00	5.000	0	101	90	110			
Sulfate	29.6	10.0	30.00	0	98.8	90	110			

Sample ID: CCV2-130410	Batch ID: R65774	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130410A	Analysis Date: 4/10/2013 4:35:14 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.2	5.00	10.00	0	102	90	110			

Sample ID: CCV3-130410	Batch ID: R65774	TestNo: E300	Units: mg/Kg							
SampType: CCV	Run ID: IC2_130410A	Analysis Date: 4/10/2013 5:33:32 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.3	5.00	10.00	0	103	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130410A

The QC data in batch 56868 applies to the following samples: 1304037-01B, 1304037-02B

Sample ID: ICV-130410	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg							
SampType: ICV	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	254	10.0	250.0	0	102	90	110			N

Sample ID: MB-56868	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg							
SampType: MBLK	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date: 4/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	10.0								N

Sample ID: LCS1-56868	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg							
SampType: LCS	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date: 4/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	97.5	10.0	100.0	0	97.5	80	120			N

Sample ID: CCV1-130410	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	254	10.0	250.0	0	102	85	115			N

Sample ID: CCV2-130410	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	247	10.0	250.0	0	98.8	85	115			N

Sample ID: 1304037-02BMS	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg-dry							
SampType: MS	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date: 4/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	172	10.2	102.0	211.5	-38.5	80	120			SN

Sample ID: 1304037-02BMSD	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg-dry							
SampType: MSD	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date: 4/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	156	10.4	103.7	211.5	-53.9	80	120	10.1	20	SN

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IR207_130410A

Sample ID: CCV3-130410	Batch ID: 56868	TestNo: E418.1	Units: mg/Kg							
SampType: CCV	Run ID: IR207_130410A	Analysis Date: 4/10/2013 4:20:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	256	10.0	250.0	0	102	85	115			N

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_130408A

The QC data in batch 56815 applies to the following samples: 1304037-01B, 1304037-02B

Sample ID: 1304039-01A-DUP	Batch ID: 56815	TestNo: SW9045D	Units: pH Units							
SampType: DUP	Run ID: PH_130408A	Analysis Date: 4/8/2013 2:15:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	8.92	0	0	8.893				0.348		5

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PH_130408A

Sample ID: ICV1-130408	Batch ID: PH_S-41372	TestNo: SW9045D	Units: pH Units							
SampType: ICV	Run ID: PH_130408A	Analysis Date: 4/8/2013 2:15:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	3.99	0	4.000	0	99.8	99	101				
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Sample ID: ICV2-130408	Batch ID: PH_S-41372	TestNo: SW9045D	Units: pH Units							
SampType: ICV	Run ID: PH_130408A	Analysis Date: 4/8/2013 2:15:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	6.98	0	7.000	0	99.8	99	101				
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Sample ID: ICV-130408	Batch ID: PH_S-41372	TestNo: SW9045D	Units: pH Units							
SampType: ICV	Run ID: PH_130408A	Analysis Date: 4/8/2013 2:15:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	10.0	0	10.00	0	100	99	101				
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Sample ID: CCV-130408	Batch ID: PH_S-41372	TestNo: SW9045D	Units: pH Units							
SampType: CCV	Run ID: PH_130408A	Analysis Date: 4/8/2013 2:15:00 PM	Prep Date: 4/8/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

pH	7.09	0	7.000	0	101	97.1	102.9				
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Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_130404A

The QC data in batch 56770 applies to the following samples: 1304037-01C, 1304037-02C

Sample ID: 1304042-01B-DUP	Batch ID: 56770	TestNo: D2216	Units: WT%							
SampType: DUP	Run ID: PMOIST_130404A	Analysis Date: 4/5/2013 8:35:00 AM	Prep Date: 4/4/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	5.38	0	0	6.190				14.0	30	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
---	--

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130405A

The QC data in batch 56780 applies to the following samples: 1304037-01B, 1304037-02B

Sample ID: LCS-56780	Batch ID: 56780	TestNo: SW9014	Units: mg/Kg							
SampType: LCS	Run ID: UV/VIS_2_130405A	Analysis Date: 4/5/2013 5:01:00 PM	Prep Date: 4/5/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	5.00	0.500	5.000	0	100	85	115			

Sample ID: 1304037-02BMS	Batch ID: 56780	TestNo: SW9014	Units: mg/Kg-dry							
SampType: MS	Run ID: UV/VIS_2_130405A	Analysis Date: 4/5/2013 5:01:00 PM	Prep Date: 4/5/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	5.27	0.511	5.107	0	103	75	125			

Sample ID: 1304037-02BMSD	Batch ID: 56780	TestNo: SW9014	Units: mg/Kg-dry							
SampType: MSD	Run ID: UV/VIS_2_130405A	Analysis Date: 4/5/2013 5:01:00 PM	Prep Date: 4/5/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	5.33	0.499	4.987	0	107	75	125	1.24	30	

Sample ID: MB-56780	Batch ID: 56780	TestNo: SW9014	Units: mg/Kg							
SampType: MBLK	Run ID: UV/VIS_2_130405A	Analysis Date: 4/5/2013 5:03:00 PM	Prep Date: 4/5/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.500								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1304037
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130405A

Sample ID: ICV-130405	Batch ID: R65702	TestNo: SW9014	Units: mg/Kg							
SampType: ICV	Run ID: UV/VIS_2_130405A	Analysis Date: 4/5/2013 4:59:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.104	0.500	0.1000	0	104	85	115			

Sample ID: CCV1-130405	Batch ID: R65702	TestNo: SW9014	Units: mg/Kg							
SampType: CCV	Run ID: UV/VIS_2_130405A	Analysis Date: 4/5/2013 5:03:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.206	0.500	0.2000	0	103	85	115			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified



June 05, 2013

Coty Woolf
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Landfarm

Order No.: 1305076

Dear Coty Woolf:

DHL Analytical, Inc. received 10 sample(s) on 5/7/2013 for the analyses presented in the following report.

Revision Number 1 for Work Order 1305076: This revision consists of changing the metals analyte target list, deleting subsection C per the client's request. Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over the word "Sincerely,".

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-10



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2300 Double Creek Dr. ■ Round Rock, TX 78664
 Phone (512) 388-8222 ■ FAX (512) 388-8229
 Web: www.dhlanalytical.com
 E-Mail: login@dhlanalytical.com



No 58673
CHAIN-OF-CUSTODY

CLIENT: LAT DATE: 5-6-13 PAGE 1 OF 1
 ADDRESS: 507 N Marenfeld Ste 200 PO #: _____ DHL WORK ORDER #: 1225074
 PHONE: 432-687-0901 FAX/E-MAIL: Cecole@latenvironmental.com PROJECT LOCATION OR NAME: R360 Landfarm
 DATA REPORTED TO: Coty Woolf CLIENT PROJECT #: 11-0109-09 COLLECTOR: [Signature]
 ADDITIONAL REPORT COPIES TO: _____

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION				UNPRESERVED	ANALYSES	FIELD NOTES
							HCl	HNO ₃	H ₂ SO ₄ □ NaOH	ICE			
MW-4	01	5-6-13	1200	L		10	X	X	X	X			
MW-6	02		1230	L		10	X	X	X	X			
MW-5	03		1300	L		10	X	X	X	X			
MW-2	04		1320	L		8	X	X	X	X			
S-40 MW-210	05		1400	L		6	X	X	X	X			
60-40 MW-5100			1430	L		20	X	X	X	X			
AW-40 MW-410	07		1500	L		20	X	X	X	X			
Trip Blank	08					22							

All Coty 5/8/13

See attached 1/4

Per Coty
 5/8/13

TOTAL

RELINQUISHED BY: (Signature) <u>[Signature]</u> DATE/TIME <u>5-6-13 600pm</u> RECEIVED BY: (Signature) <u>Xonesta</u>	TURN AROUND TIME RUSH <input type="checkbox"/> CALL FIRST 1 DAY <input type="checkbox"/> CALL FIRST 2 DAY <input type="checkbox"/> NORMAL <input type="checkbox"/> OTHER <input type="checkbox"/>	LABORATORY USE ONLY: RECEIVING TEMP: <u>47.4-3</u> THERM #: <u>57</u> CUSTODY SEALS: <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED CARRIER BILL #: <u>Xonesta</u> <input type="checkbox"/> APC DELIVERY <input type="checkbox"/> HAND DELIVERED
RELINQUISHED BY: (Signature) <u>Xonesta</u> DATE/TIME <u>5/7/13 830</u> RECEIVED BY: (Signature) <u>[Signature]</u>		
RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____		

DHL DISPOSAL @ \$5.00 each Return

CHAIN-OF-CUSTODY

Arson & Associates, Inc.
Environmental Consultants

507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 5-7-13 PAGE 1 OF 2
PO #: _____ LAB WORK ORDER #: 1335076
PROJECT LOCATION OR NAME: R360 Landfarm
LAI PROJECT #: 11-0109-09 COLLECTOR: _____

Data Reported to: Coty Wolff

TRRP report?
 Yes No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

TIME ZONE:
Time zone/State:

PRESERVATION

HCl
HNO₃
H₂SO₄ NaOH
ICE
UNPRESERVED

- ANALYSES**
- BTEX MBE
 - TPH 418.17
 - GASOLINE MOD 8015 TPH 1005 TPH 1006
 - DIESEL MOD 8015
 - VOC 8280
 - SVOC 8270 PAH 8270 HOLDPAH
 - 8081 PESTICIDES 8161 HERBICIDES
 - 8082 PCBs
 - TCUP - METALS
 - TCUP - PEST
 - TOTAL METALS (RCRA) TCLP VOC
 - LEAD - TOTAL MERC SEMI-VOC
 - RCM - TOTAL DW-200.8 OTHER LIST
 - TDS TOX FLASHPOINT
 - pH % MOISTURE TOLP
 - EXPLOSIVES CHROMIUM
 - CHLORIDE ANIONS ALKALINITY

see attached list of analyses

FIELD NOTES

Per Coty Wolff

Field Sample ID	Lab #	Date	Time	Matrix	# of Containers
5-40	10	5/7/13	1230	W	2
MW-2	09	5/7/13	1200	W	1

TOTAL					
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	TURN AROUND TIME		
<i>[Signature]</i>	5/7/13 1600	<i>[Signature]</i>	NORMAL <input type="checkbox"/>	LABORATORY USE ONLY:	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	1 DAY <input type="checkbox"/>	RECEIVING TEMP: <u>6.0</u>	THERM #: <u>57</u>
<i>[Signature]</i>	5/8/13 830	<i>[Signature]</i>	2 DAY <input type="checkbox"/>	CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	OTHER <input type="checkbox"/>	CARRIER BILL <i>[Signature]</i>	
				<input type="checkbox"/> HAND DELIVERED	

A. Human Health Standards-Ground water shall meet the standards of Subsection A and B of this section unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria as set forth in the definition of toxic pollutant in Section 20.6.2.1101 NMAC for the combination of contaminants, or the Human Health Standard of Subsection A of Section 20.6.2.3103 NMAC for each contaminant shall apply, whichever is more stringent. Non-aqueous phase liquid shall not be present floating atop of or immersed within ground water, as can be reasonably measured.

(1)	Arsenic (As)	0.1 mg/l
(2)	Barium (Ba)	1.0 mg/l
(3)	Cadmium (Cd)	0.01 mg/l
(4)	Chromium (Cr)	0.05 mg/l
(5)	Cyanide (CN)	0.2 mg/l
(6)	Fluoride (F)	1.6 mg/l
(7)	Lead (Pb)	0.05 mg/l
(8)	Total Mercury (Hg)	0.002 mg/l
(9)	Nitrate (NO ₃ as N)	10.0 mg/l
(10)	Selenium (Se)	0.05 mg/l
(11)	Silver (Ag)	0.05 mg/l
(12)	Uranium (U)	0.05 mg/l
(13)	Radioactivity - Combined Radium-226 & Radium-228	30 pCi/l
(14)	Benzene	0.01 mg/l
(15)	Polychlorinated biphenyls (PCB's)	0.001 mg/l
(16)	Toluene	0.75 mg/l
(17)	Carbon Tetrachloride	0.01 mg/l
(18)	1,2-dichloroethane (EDC)	0.01 mg/l
(19)	1,1-dichloroethylene (1,1-DCE)	0.005 mg/l
(20)	1,1,2-tetrachloroethylene (PCE)	0.02 mg/l
(21)	1,1,2-trichloroethylene (TCE)	0.1 mg/l
(22)	ethylbenzene	0.75 mg/l
(23)	total xylenes	0.62 mg/l
(24)	methylene chloride	0.1 mg/l
(25)	chloroform	0.1 mg/l
(26)	1,1-dichloroethane	0.025 mg/l
(27)	ethylene dibromide (EDB)	0.0001 mg/l
(28)	1,1,1-trichloroethane	0.06 mg/l
(29)	1,1,2-trichloroethane	0.01 mg/l
(30)	1,1,2,2-tetrachloroethane	0.01 mg/l
(31)	vinyl chloride	0.001 mg/l
(32)	PAHs: total naphthalene plus monomethylnaphthalenes	0.03 mg/l
(33)	benzo-a-pyrene	0.0007 mg/l

B. Other Standards for Domestic Water Supply

(1)	Chloride (Cl)	250.0 mg/l
(2)	Copper (Cu)	1.0 mg/l
(3)	Iron (Fe)	1.0 mg/l
(4)	Manganese (Mn)	0.2 mg/l
(6)	Phenols	0.005 mg/l
(7)	Sulfate (SO ₄)	600.0 mg/l
(8)	Total Dissolved Solids (TDS)	1000.0 mg/l
(9)	Zinc (Zn)	10.0 mg/l
(10)	pH	between 6 and 9

C. Standards for Irrigation Use - Ground water shall meet the standards of Subsection A, B, and C of this section unless otherwise provided.

(1)	Aluminum (Al)	5.0 mg/l
(2)	Boron (B)	0.75 mg/l
(3)	Cobalt (Co)	0.05 mg/l
(4)	Molybdenum (Mo)	1.0 mg/l
(5)	Nickel (Ni)	0.2 mg/l

[2-18-77, 1-29-82, 11-17-83, 3-3-86, 12-1-95; 20.6.2.3103 NMAC - Rn, 20 NMAC 6.2.III.3103, 1-15-01; A, 9-26-04]

[Note: For purposes of application of the amended numeric uranium standard to past and current water discharges (as of 9-26-04), the new standard will not become effective until June 1, 2007. For any new water discharges, the uranium standard is effective 9-26-04.]



WWW.LSO.COM
Questions? Call 800-800-8984



Airbill No. 43387785

43387785

1. To: <small>Print Name (Person)</small> <u>James R. Kicker</u> <small>Phone (Important)</small> <u>512-358-8224</u>		2. From: <small>Print Name (Person)</small> <u>PARSONS & BRINCKERHOFF</u> <small>Phone (Important)</small> <u>714-941-1111</u>	
<small>Company Name</small> <u>DAI</u>		<small>Company Name</small> <u>PARSONS & BRINCKERHOFF</u>	
<small>Street Address (No P.O. Box or P.O. Box Zip Code Deliveries)</small> <u>2100 Double Creek Dr.</u>		<small>Street Address</small> <u>501 W. WASHINGTON</u>	
<small>Suite / Floor</small> _____		<small>Suite / Floor</small> _____	
<small>City</small> <u>Round Rock</u> <small>State</small> <u>TX</u> <small>Zip</small> <u>78664</u>	<small>City</small> <u>MIDDLEBURY</u> <small>State</small> _____ <small>Zip</small> _____	FOR COURIER USE ONLY	
3. Service:			
<input type="checkbox"/> By 10:30am Delivery <input checked="" type="checkbox"/> By 8:30am Delivery (Most Cities) (Noon to select zip codes.) <input type="checkbox"/> Saturday Delivery - By 12 Noon (Extra Charge) <input type="checkbox"/> Other _____ <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)			
<small>Release Signature</small> <u>[Signature]</u>			
4. Package: <small>Weight:</small> <u>6.2</u>		<small>Courier Number</small> <u>9895</u>	
<small>Your Company's Billing Reference Information</small> <u>11-9169-09</u>		<small>Pick-up Location</small> <u>15010</u>	
<small>Ship Date: (mm/dd/yy)</small> <u>5-6-13</u>		<small>Date:</small> <u>5-6-13</u>	
5. Payment:		<small>Time:</small> _____ <small>City Code:</small> _____	
<u>15.01 x W 15 x H 15</u>		<u>AC15</u>	

MIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.



WWW.LSO.COM
Questions? Call 800-800-8984



Airbill No. 43387786

43387786

1. To: <small>Print Name (Person)</small> <u>Jonathan Butler</u> <small>Phone (Important)</small> _____		2. From: <small>Print Name (Person)</small> _____ <small>Phone (Important)</small> _____	
<small>Company Name</small> <u>DLI</u>		<small>Company Name</small> <u>LAYDON & BUSHSTINEWELL, INC.</u>	
<small>Street Address (No P.O. Box or P.O. Box Zip Code® Delivertes)</small> <u>2300 Double Creek Dr.</u>		<small>Street Address</small> <u>507 W. MIDLAND</u>	
<small>Suite / Floor</small> _____		<small>Suite / Floor</small> <u>200</u>	
<small>City</small> <u>Round Rock</u>	<small>State</small> <u>TX</u>	<small>City</small> <u>MIDLAND</u>	<small>State</small> <u>TX</u>
<small>Zip</small> <u>78664</u>		<small>Zip</small> <u>79709</u>	
3. Service:		4. Package: <small>Weight:</small> <u>10</u>	
<input checked="" type="checkbox"/> By 10:30am Delivery <small>(Noon to select zip codes.)</small>		<small>Your Company's Billing Reference Information</small> <u>11-0109-09</u>	
<input type="checkbox"/> By 8:30am Delivery (Most Cities) <small>(Extra Charge, No Signature Obtained)</small>		<small>Ship Date: (mm/dd/yy)</small> <u>5-17-13</u>	
<input type="checkbox"/> Saturday Delivery - By 12 Noon <small>(Extra Charge)</small>		5. Payment: <u>AOS</u>	
<input type="checkbox"/> Other _____		FOR COURIER USE ONLY	
<input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below)		<small>Courier Number</small> <u>3184</u>	
<small>Release Signature</small> _____		<small>Pick-up Location</small> <u>10010</u>	
<small>L</small> _____ <small>x</small> <small>W</small> _____ <small>x</small> <small>H</small> _____		<small>Date:</small> <u>5-7-13</u>	
		<small>Time:</small> <u>1830</u>	
		<small>City Code:</small> <u>AOS</u>	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. **NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES.** DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 5/7/2013

Work Order Number 1305076

Received by JB

Checklist completed by: [Signature] 5/7/2013
Signature Date

Reviewed by: [Initials] 5/7/2013
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 4.7 °C, 4.3
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? NO Checked by [Signature]

Any No response must be detailed in the comments section below.

Client contacted Larson Date contacted: 5/7/13 Person contacted Coty

Contacted by: [Signature] Regarding Air Bubbles

Comments: Per Coty, proceed with analysis
is aware of the air bubbles in VOA
vials.

Corrective Action Added trip blanks to COC per
Client's request.

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1305076

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW8260C - Volatile Organics
Method SW8270D - Semivolatile Organics
Method SW8270D - PCB Analysis
Method SW6020A - Metals Analysis
Method SW7470A - Mercury Analysis
Method E300 - Anions Analysis
Method M4500-H+ B - pH of A Water

LOG IN

The samples were received and log-in performed on 5/7/13. On 5/8/13 samples MW-2 and MW-E40 arrived at DHL Analytical and were added on to this work order as per the client. A total of 10 samples were received. The VOA vials arrived with air bubbles larger than pea-size. Proceeded with analysis as per the client. The Trip Blanks arrived in the cooler but were not listed on the Chain-of-Custody (COC). Added the Trip Blanks to the COC as per the client.

ANIONS ANALYSIS

For Anions analysis performed on 5/7/13 the matrix spike and matrix spike duplicate recoveries were slightly below control limits for most analytes. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

VOLATILE ORGANICS ANALYSIS

For Volatiles analysis performed on 5/10/13 the matrix spike and matrix spike duplicate had the RPD slightly above control limits for Vinyl chloride. This is flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The percent recoveries were within control limits for this compound. No further corrective actions were taken.

For Volatiles analysis, the recovery of one compound for the Initial Calibration Verification (ICV-130510) was slightly below the method control limits specified in SW8260C (80-120% recovery). This is flagged accordingly in the QC summary report. The number of target compounds outside of the method control limits for the ICV are less than 20% of the total number of compounds being reported; this is allowed in SW8260C specifications. This compound was within control limits in the associated LCS. No further corrective actions were taken.

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1305076

CASE NARRATIVE

For Volatiles analysis performed on 5/10/13 the surrogate recovery for sample MW-4 was slightly above control limits for Dibromofluoromethane. This is flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

SEMIVOLATILE ORGANICS ANALYSIS

For Semivolatiles analysis performed on 5/13/13 2-Methylnaphthalene and Benzo[a]pyrene were detected below the reporting limit in the method blank (MB-57381). Samples MW-4, MW-6, MW-5, MW-2 and MW-E40 may be biased high for one or both of these compounds.

For Semivolatiles analysis an MS/MSD was not performed due to insufficient sample volume. An LCSD was performed instead.

For Semivolatiles analysis performed on 5/13/13 the surrogate recoveries for sample MW-5 were slightly below control limits for 2-Fluorophenol and Phenol-d6. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

PCB ANALYSIS

For PCB analysis an MS/MSD was not performed due to insufficient sample volume. An LCS was analyzed.

CLIENT: Larson & Associates
Project: R360 Landfarm
Lab Order: 1305076

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1305076-01	MW-4		05/06/13 12:00 PM	5/7/2013
1305076-02	MW-6		05/06/13 12:30 PM	5/7/2013
1305076-03	MW-5		05/06/13 01:00 PM	5/7/2013
1305076-04	MW-2		05/06/13 01:30 PM	5/7/2013
1305076-05	MW-E40		05/06/13 02:00 PM	5/7/2013
1305076-06	MW-S40		05/06/13 02:30 PM	5/7/2013
1305076-07	MW-W40		05/06/13 03:00 PM	5/7/2013
1305076-08	Trip Blank		05/06/13	5/7/2013
1305076-09	MW-2		05/07/13 12:00 PM	5/8/2013
1305076-10	MW-E40		05/07/13 02:00 PM	5/8/2013

Lab Order: 1305076
Client: Larson & Associates
Project: R360 Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1305076-01A	MW-4	05/06/13 12:00 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-01B	MW-4	05/06/13 12:00 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-4	05/06/13 12:00 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-4	05/06/13 12:00 PM	Liquid	SW7470A	Mercury Aq Prep, Total	05/10/13 07:41 AM	57373
1305076-01C	MW-4	05/06/13 12:00 PM	Liquid	M4500-CN E	Cyanide Water Prep	05/10/13 10:30 AM	57377
1305076-01D	MW-4	05/06/13 12:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: BNA	05/10/13 12:45 AM	57381
1305076-01E	MW-4	05/06/13 12:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: PCB	05/08/13 10:17 AM	57324
1305076-01F	MW-4	05/06/13 12:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-4	05/06/13 12:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-4	05/06/13 12:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-4	05/06/13 12:00 PM	Liquid	M4500-H+ B	pH Preparation	05/07/13 01:45 PM	57307
1305076-02A	MW-6	05/06/13 12:30 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-02B	MW-6	05/06/13 12:30 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-6	05/06/13 12:30 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-6	05/06/13 12:30 PM	Liquid	SW7470A	Mercury Aq Prep, Total	05/10/13 07:41 AM	57373
1305076-02C	MW-6	05/06/13 12:30 PM	Liquid	M4500-CN E	Cyanide Water Prep	05/10/13 10:30 AM	57377
1305076-02D	MW-6	05/06/13 12:30 PM	Liquid	SW3510C	Aq Prep Sep Funnel: BNA	05/10/13 12:45 AM	57381
1305076-02E	MW-6	05/06/13 12:30 PM	Liquid	SW3510C	Aq Prep Sep Funnel: PCB	05/08/13 10:17 AM	57324
1305076-02F	MW-6	05/06/13 12:30 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-6	05/06/13 12:30 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-6	05/06/13 12:30 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-6	05/06/13 12:30 PM	Liquid	M4500-H+ B	pH Preparation	05/07/13 01:45 PM	57307
1305076-03A	MW-5	05/06/13 01:00 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-03B	MW-5	05/06/13 01:00 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-5	05/06/13 01:00 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-5	05/06/13 01:00 PM	Liquid	SW7470A	Mercury Aq Prep, Total	05/10/13 07:41 AM	57373
1305076-03C	MW-5	05/06/13 01:00 PM	Liquid	M4500-CN E	Cyanide Water Prep	05/10/13 10:30 AM	57377
1305076-03D	MW-5	05/06/13 01:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: BNA	05/10/13 12:45 AM	57381

Lab Order: 1305076
 Client: Larson & Associates
 Project: R360 Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1305076-03E	MW-5	05/06/13 01:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: PCB	05/08/13 10:17 AM	57324
1305076-03F	MW-5	05/06/13 01:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-5	05/06/13 01:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-5	05/06/13 01:00 PM	Liquid	M4500-H+ B	pH Preparation	05/07/13 01:45 PM	57307
1305076-04A	MW-2	05/06/13 01:30 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-04B	MW-2	05/06/13 01:30 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-2	05/06/13 01:30 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-2	05/06/13 01:30 PM	Liquid	SW7470A	Mercury Aq Prep, Total	05/10/13 07:41 AM	57373
1305076-04C	MW-2	05/06/13 01:30 PM	Liquid	M4500-CN E	Cyanide Water Prep	05/10/13 10:30 AM	57377
1305076-04D	MW-2	05/06/13 01:30 PM	Liquid	SW3510C	Aq Prep Sep Funnel: BNA	05/10/13 12:45 AM	57381
1305076-04F	MW-2	05/06/13 01:30 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-2	05/06/13 01:30 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-2	05/06/13 01:30 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-2	05/06/13 01:30 PM	Liquid	M4500-H+ B	pH Preparation	05/07/13 01:45 PM	57307
1305076-05A	MW-E40	05/06/13 02:00 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-05B	MW-E40	05/06/13 02:00 PM	Liquid	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57369
	MW-E40	05/06/13 02:00 PM	Liquid	SW7470A	Mercury Aq Prep, Total	05/10/13 07:41 AM	57373
1305076-05C	MW-E40	05/06/13 02:00 PM	Liquid	M4500-CN E	Cyanide Water Prep	05/10/13 10:30 AM	57377
1305076-05D	MW-E40	05/06/13 02:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-E40	05/06/13 02:00 PM	Liquid	E300	Anion Preparation	05/07/13 01:30 PM	57287
	MW-E40	05/06/13 02:00 PM	Liquid	M4500-H+ B	pH Preparation	05/07/13 01:45 PM	57307
1305076-06A	MW-S40	05/06/13 02:30 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-07A	MW-W40	05/06/13 03:00 PM	Liquid	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-08A	Trip Blank	05/06/13	Trip Blank	SW5030C	Purge and Trap Water GC/MS	05/10/13 10:24 AM	57380
1305076-09A	MW-2	05/07/13 12:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: PCB	05/08/13 10:17 AM	57324
1305076-10A	MW-E40	05/07/13 02:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: BNA	05/10/13 12:45 AM	57381
1305076-10B	MW-E40	05/07/13 02:00 PM	Liquid	SW3510C	Aq Prep Sep Funnel: PCB	05/08/13 10:17 AM	57324

Lab Order: 1305076
 Client: Larson & Associates
 Project: R360 Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1305076-01A	MW-4	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 05:59 PM	GCMS7_130510A
1305076-01B	MW-4	Liquid	SW7470A	Total Mercury: Aqueous	57373	1	05/13/13 09:24 AM	CETAC_HG_130513A
	MW-4	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	10	05/14/13 12:50 PM	ICP-MS3_130514A
	MW-4	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	1	05/14/13 01:15 PM	ICP-MS3_130514A
1305076-01C	MW-4	Liquid	M4500-CN E	Cyanide - Water Sample	57377	1	05/13/13 02:19 PM	UV/VIS_2_130513B
1305076-01D	MW-4	Liquid	SW8270D	Semivolatiles by GC/MS - Water	57381	1	05/13/13 12:59 PM	GCMS9_130513A
1305076-01E	MW-4	Liquid	SW8270D	PCB by GC/MS - Aqueous	57324	1	05/08/13 08:14 PM	GCMS8_130508A
1305076-01F	MW-4	Liquid	E300	Anions by IC method - Water	57287	10	05/07/13 02:44 PM	IC2_130507A
	MW-4	Liquid	E300	Anions by IC method - Water	57287	100	05/07/13 03:57 PM	IC2_130507A
	MW-4	Liquid	E300	Anions by IC method - Water	57287	1	05/07/13 05:40 PM	IC2_130507A
	MW-4	Liquid	M4500-H+ B	pH	57307	1	05/07/13 02:02 PM	TITRATOR_130507A
1305076-02A	MW-6	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 06:23 PM	GCMS7_130510A
1305076-02B	MW-6	Liquid	SW7470A	Total Mercury: Aqueous	57373	1	05/13/13 09:26 AM	CETAC_HG_130513A
	MW-6	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	10	05/14/13 12:38 PM	ICP-MS3_130514A
	MW-6	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	1	05/14/13 01:21 PM	ICP-MS3_130514A
1305076-02C	MW-6	Liquid	M4500-CN E	Cyanide - Water Sample	57377	1	05/13/13 02:20 PM	UV/VIS_2_130513B
1305076-02D	MW-6	Liquid	SW8270D	Semivolatiles by GC/MS - Water	57381	1	05/13/13 01:23 PM	GCMS9_130513A
1305076-02E	MW-6	Liquid	SW8270D	PCB by GC/MS - Aqueous	57324	1	05/08/13 08:46 PM	GCMS8_130508A
1305076-02F	MW-6	Liquid	E300	Anions by IC method - Water	57287	10	05/07/13 02:58 PM	IC2_130507A
	MW-6	Liquid	E300	Anions by IC method - Water	57287	100	05/07/13 04:27 PM	IC2_130507A
	MW-6	Liquid	E300	Anions by IC method - Water	57287	1	05/07/13 05:55 PM	IC2_130507A
	MW-6	Liquid	M4500-H+ B	pH	57307	1	05/07/13 02:05 PM	TITRATOR_130507A
1305076-03A	MW-5	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 06:47 PM	GCMS7_130510A
1305076-03B	MW-5	Liquid	SW7470A	Total Mercury: Aqueous	57373	1	05/13/13 09:32 AM	CETAC_HG_130513A
	MW-5	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	10	05/14/13 12:56 PM	ICP-MS3_130514A
	MW-5	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	1	05/14/13 01:27 PM	ICP-MS3_130514A
1305076-03C	MW-5	Liquid	M4500-CN E	Cyanide - Water Sample	57377	1	05/13/13 02:21 PM	UV/VIS_2_130513B
1305076-03D	MW-5	Liquid	SW8270D	Semivolatiles by GC/MS - Water	57381	1	05/13/13 01:46 PM	GCMS9_130513A

Lab Order: 1305076
 Client: Larson & Associates
 Project: R360 Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1305076-03E	MW-5	Liquid	SW8270D	PCB by GC/MS - Aqueous	57324	1	05/08/13 10:22 PM	GCMS8_130508A
1305076-03F	MW-5	Liquid	E300	Anions by IC method - Water	57287	100	05/07/13 04:42 PM	IC2_130507A
	MW-5	Liquid	E300	Anions by IC method - Water	57287	1	05/07/13 06:09 PM	IC2_130507A
	MW-5	Liquid	M4500-H+ B	pH	57307	1	05/07/13 02:07 PM	TITRATOR_130507A
1305076-04A	MW-2	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 03:58 PM	GCMS7_130510A
1305076-04B	MW-2	Liquid	SW7470A	Total Mercury: Aqueous	57373	1	05/13/13 09:34 AM	CETAC_HG_130513A
	MW-2	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	10	05/14/13 01:03 PM	ICP-MS3_130514A
	MW-2	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	1	05/14/13 01:33 PM	ICP-MS3_130514A
1305076-04C	MW-2	Liquid	M4500-CN E	Cyanide - Water Sample	57377	1	05/13/13 02:21 PM	UV/VIS_2_130513B
1305076-04D	MW-2	Liquid	SW8270D	Semivolatiles by GC/MS - Water	57381	1	05/13/13 02:09 PM	GCMS9_130513A
1305076-04F	MW-2	Liquid	E300	Anions by IC method - Water	57287	1	05/07/13 06:24 PM	IC2_130507A
	MW-2	Liquid	E300	Anions by IC method - Water	57287	10	05/07/13 03:27 PM	IC2_130507A
	MW-2	Liquid	E300	Anions by IC method - Water	57287	100	05/07/13 04:56 PM	IC2_130507A
	MW-2	Liquid	M4500-H+ B	pH	57307	1	05/07/13 02:09 PM	TITRATOR_130507A
1305076-05A	MW-E40	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 04:22 PM	GCMS7_130510A
1305076-05B	MW-E40	Liquid	SW7470A	Total Mercury: Aqueous	57373	1	05/13/13 09:37 AM	CETAC_HG_130513A
	MW-E40	Liquid	SW6020A	Trace Metals: ICP-MS - Water	57369	1	05/14/13 01:09 PM	ICP-MS3_130514A
1305076-05C	MW-E40	Liquid	M4500-CN E	Cyanide - Water Sample	57377	1	05/13/13 02:21 PM	UV/VIS_2_130513B
1305076-05D	MW-E40	Liquid	E300	Anions by IC method - Water	57287	10	05/07/13 03:42 PM	IC2_130507A
	MW-E40	Liquid	E300	Anions by IC method - Water	57287	1	05/07/13 06:38 PM	IC2_130507A
	MW-E40	Liquid	M4500-H+ B	pH	57307	1	05/07/13 02:11 PM	TITRATOR_130507A
1305076-06A	MW-S40	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 04:46 PM	GCMS7_130510A
1305076-07A	MW-W40	Liquid	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 05:11 PM	GCMS7_130510A
1305076-08A	Trip Blank	Trip Blank	SW8260C	8260 Water Volatiles by GC/MS	57380	1	05/10/13 05:35 PM	GCMS7_130510A
1305076-09A	MW-2	Liquid	SW8270D	PCB by GC/MS - Aqueous	57324	1	05/08/13 09:18 PM	GCMS8_130508A
1305076-10A	MW-E40	Liquid	SW8270D	Semivolatiles by GC/MS - Water	57381	1	05/13/13 02:32 PM	GCMS9_130513A
1305076-10B	MW-E40	Liquid	SW8270D	PCB by GC/MS - Aqueous	57324	1	05/08/13 09:50 PM	GCMS8_130508A

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-4
Lab ID: 1305076-01
Collection Date: 05/06/13 12:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: AQUEOUS		SW7470A			Analyst: LM		
Mercury	ND	0.0000800	0.000200		mg/L	1	05/13/13 09:24 AM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Arsenic	0.00790	0.00200	0.00500		mg/L	1	05/14/13 01:15 PM
Barium	0.0460	0.00300	0.0100		mg/L	1	05/14/13 01:15 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	05/14/13 01:15 PM
Chromium	ND	0.00200	0.00500		mg/L	1	05/14/13 01:15 PM
Copper	0.00651	0.00200	0.0100	J	mg/L	1	05/14/13 01:15 PM
Iron	0.372	0.0300	0.100		mg/L	1	05/14/13 01:15 PM
Lead	0.00343	0.000300	0.00100		mg/L	1	05/14/13 01:15 PM
Manganese	0.159	0.00300	0.0100		mg/L	1	05/14/13 01:15 PM
Selenium	0.00358	0.00200	0.00500	J	mg/L	1	05/14/13 01:15 PM
Silver	ND	0.00100	0.00200		mg/L	1	05/14/13 01:15 PM
Zinc	0.00421	0.00200	0.00500	J	mg/L	1	05/14/13 01:15 PM
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.000200	0.000800	N	mg/L	1	05/13/13 12:59 PM
2-Methylnaphthalene	0.000420	0.000200	0.000800	J	mg/L	1	05/13/13 12:59 PM
Naphthalene	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
Benzo[a]pyrene	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2,3,4,6-Tetrachlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2,4,5-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2,4,6-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2,4-Dichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2,4-Dimethylphenol	ND	0.000400	0.000800		mg/L	1	05/13/13 12:59 PM
2,4-Dinitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 12:59 PM
2,6-Dichlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 12:59 PM
2-Chlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
2-Nitrophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 12:59 PM
4,6-Dinitro-2-methylphenol	ND	0.000500	0.00200		mg/L	1	05/13/13 12:59 PM
4-Chloro-3-methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
4-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 12:59 PM
4-Nitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 12:59 PM
Pentachlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 12:59 PM
Phenol	ND	0.000400	0.000800		mg/L	1	05/13/13 12:59 PM
Total Phenol (Calculated)	ND	0.000200	0.000800	N	mg/L	1	05/13/13 12:59 PM
Surr: 2,4,6-Tribromophenol	110	0	42-124		%REC	1	05/13/13 12:59 PM
Surr: 2-Fluorobiphenyl	97.0	0	48-120		%REC	1	05/13/13 12:59 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-4
Lab ID: 1305076-01
Collection Date: 05/06/13 12:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	84.0	0	20-120		%REC	1	05/13/13 12:59 PM
Surr: 4-Terphenyl-d14	114	0	51-135		%REC	1	05/13/13 12:59 PM
Surr: Nitrobenzene-d5	109	0	41-120		%REC	1	05/13/13 12:59 PM
Surr: Phenol-d6	59.0	0	20-120		%REC	1	05/13/13 12:59 PM
PCB BY GC/MS - AQUEOUS		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Aroclor 1221	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Aroclor 1232	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Aroclor 1242	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Aroclor 1248	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Aroclor 1254	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Aroclor 1260	ND	0.000100	0.000250		mg/L	1	05/08/13 08:14 PM
Surr: 2-Fluorobiphenyl	99.2	0	40-140		%REC	1	05/08/13 08:14 PM
Surr: 4-Terphenyl-d14	136	0	40-140		%REC	1	05/08/13 08:14 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:59 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 05:59 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:59 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:59 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 05:59 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 05:59 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 05:59 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 05:59 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:59 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 05:59 PM
Surr: 1,2-Dichloroethane-d4	107	0	72-119		%REC	1	05/10/13 05:59 PM
Surr: 4-Bromofluorobenzene	104	0	76-119		%REC	1	05/10/13 05:59 PM
Surr: Dibromofluoromethane	117	0	85-115	S	%REC	1	05/10/13 05:59 PM
Surr: Toluene-d8	99.7	0	81-120		%REC	1	05/10/13 05:59 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-4
Lab ID: 1305076-01
Collection Date: 05/06/13 12:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Chloride	658	30.0	100		mg/L	100	05/07/13 03:57 PM
Fluoride	1.67	0.100	0.400		mg/L	1	05/07/13 05:40 PM
Nitrate-N	1.41	0.100	0.500		mg/L	1	05/07/13 05:40 PM
Sulfate	1390	10.0	30.0		mg/L	10	05/07/13 02:44 PM
CYANIDE - WATER SAMPLE		M4500-CN E		Analyst: JCG			
Cyanide, Total	ND	0.0100	0.0200		mg/L	1	05/13/13 02:19 PM
PH		M4500-H+ B		Analyst: JBC			
pH	7.09	0	0		pH units	1	05/07/13 02:02 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-6
Lab ID: 1305076-02
Collection Date: 05/06/13 12:30 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: AQUEOUS		SW7470A			Analyst: LM		
Mercury	ND	0.0000800	0.000200		mg/L	1	05/13/13 09:26 AM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Arsenic	0.00700	0.00200	0.00500		mg/L	1	05/14/13 01:21 PM
Barium	0.0297	0.00300	0.0100		mg/L	1	05/14/13 01:21 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	05/14/13 01:21 PM
Chromium	ND	0.00200	0.00500		mg/L	1	05/14/13 01:21 PM
Copper	0.00404	0.00200	0.0100	J	mg/L	1	05/14/13 01:21 PM
Iron	0.324	0.0300	0.100		mg/L	1	05/14/13 01:21 PM
Lead	0.00118	0.000300	0.00100		mg/L	1	05/14/13 01:21 PM
Manganese	0.193	0.00300	0.0100		mg/L	1	05/14/13 01:21 PM
Selenium	0.0160	0.00200	0.00500		mg/L	1	05/14/13 01:21 PM
Silver	ND	0.00100	0.00200		mg/L	1	05/14/13 01:21 PM
Zinc	0.00348	0.00200	0.00500	J	mg/L	1	05/14/13 01:21 PM
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.000200	0.000800	N	mg/L	1	05/13/13 01:23 PM
2-Methylnaphthalene	0.000340	0.000200	0.000800	J	mg/L	1	05/13/13 01:23 PM
Naphthalene	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
Benzo[a]pyrene	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2,3,4,6-Tetrachlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2,4,5-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2,4,6-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2,4-Dichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2,4-Dimethylphenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:23 PM
2,4-Dinitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 01:23 PM
2,6-Dichlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:23 PM
2-Chlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
2-Nitrophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:23 PM
4,6-Dinitro-2-methylphenol	ND	0.000500	0.00200		mg/L	1	05/13/13 01:23 PM
4-Chloro-3-methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
4-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:23 PM
4-Nitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 01:23 PM
Pentachlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:23 PM
Phenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:23 PM
Total Phenol (Calculated)	ND	0.000200	0.000800	N	mg/L	1	05/13/13 01:23 PM
Surr: 2,4,6-Tribromophenol	116	0	42-124		%REC	1	05/13/13 01:23 PM
Surr: 2-Fluorobiphenyl	102	0	48-120		%REC	1	05/13/13 01:23 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-6
Lab ID: 1305076-02
Collection Date: 05/06/13 12:30 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	90.0	0	20-120		%REC	1	05/13/13 01:23 PM
Surr: 4-Terphenyl-d14	116	0	51-135		%REC	1	05/13/13 01:23 PM
Surr: Nitrobenzene-d5	117	0	41-120		%REC	1	05/13/13 01:23 PM
Surr: Phenol-d6	65.5	0	20-120		%REC	1	05/13/13 01:23 PM
PCB BY GC/MS - AQUEOUS		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Aroclor 1221	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Aroclor 1232	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Aroclor 1242	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Aroclor 1248	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Aroclor 1254	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Aroclor 1260	ND	0.000100	0.000250		mg/L	1	05/08/13 08:46 PM
Surr: 2-Fluorobiphenyl	73.6	0	40-140		%REC	1	05/08/13 08:46 PM
Surr: 4-Terphenyl-d14	92.4	0	40-140		%REC	1	05/08/13 08:46 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 06:23 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 06:23 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 06:23 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 06:23 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 06:23 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 06:23 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 06:23 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 06:23 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:23 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 06:23 PM
Surr: 1,2-Dichloroethane-d4	103	0	72-119		%REC	1	05/10/13 06:23 PM
Surr: 4-Bromofluorobenzene	107	0	76-119		%REC	1	05/10/13 06:23 PM
Surr: Dibromofluoromethane	108	0	85-115		%REC	1	05/10/13 06:23 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	05/10/13 06:23 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-6
Lab ID: 1305076-02
Collection Date: 05/06/13 12:30 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Chloride	844	30.0	100		mg/L	100	05/07/13 04:27 PM
Fluoride	1.68	0.100	0.400		mg/L	1	05/07/13 05:55 PM
Nitrate-N	3.68	0.100	0.500		mg/L	1	05/07/13 05:55 PM
Sulfate	1360	10.0	30.0		mg/L	10	05/07/13 02:58 PM
CYANIDE - WATER SAMPLE		M4500-CN E		Analyst: JCG			
Cyanide, Total	ND	0.0100	0.0200		mg/L	1	05/13/13 02:20 PM
PH		M4500-H+ B		Analyst: JBC			
pH	7.30	0	0		pH units	1	05/07/13 02:05 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-5
Lab ID: 1305076-03
Collection Date: 05/06/13 01:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: AQUEOUS		SW7470A			Analyst: LM		
Mercury	ND	0.0000800	0.000200		mg/L	1	05/13/13 09:32 AM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Arsenic	0.00718	0.00200	0.00500		mg/L	1	05/14/13 01:27 PM
Barium	0.0384	0.00300	0.0100		mg/L	1	05/14/13 01:27 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	05/14/13 01:27 PM
Chromium	0.00248	0.00200	0.00500	J	mg/L	1	05/14/13 01:27 PM
Copper	0.00471	0.00200	0.0100	J	mg/L	1	05/14/13 01:27 PM
Iron	0.609	0.0300	0.100		mg/L	1	05/14/13 01:27 PM
Lead	0.00154	0.000300	0.00100		mg/L	1	05/14/13 01:27 PM
Manganese	0.128	0.00300	0.0100		mg/L	1	05/14/13 01:27 PM
Selenium	0.00854	0.00200	0.00500		mg/L	1	05/14/13 01:27 PM
Silver	ND	0.00100	0.00200		mg/L	1	05/14/13 01:27 PM
Zinc	0.00456	0.00200	0.00500	J	mg/L	1	05/14/13 01:27 PM
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.000200	0.000800	N	mg/L	1	05/13/13 01:46 PM
2-Methylnaphthalene	0.000380	0.000200	0.000800	J	mg/L	1	05/13/13 01:46 PM
Naphthalene	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
Benzo[a]pyrene	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2,3,4,6-Tetrachlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2,4,5-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2,4,6-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2,4-Dichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2,4-Dimethylphenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:46 PM
2,4-Dinitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 01:46 PM
2,6-Dichlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:46 PM
2-Chlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
2-Nitrophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:46 PM
4,6-Dinitro-2-methylphenol	ND	0.000500	0.00200		mg/L	1	05/13/13 01:46 PM
4-Chloro-3-methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
4-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 01:46 PM
4-Nitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 01:46 PM
Pentachlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:46 PM
Phenol	ND	0.000400	0.000800		mg/L	1	05/13/13 01:46 PM
Total Phenol (Calculated)	ND	0.000200	0.000800	N	mg/L	1	05/13/13 01:46 PM
Surr: 2,4,6-Tribromophenol	124	0	42-124		%REC	1	05/13/13 01:46 PM
Surr: 2-Fluorobiphenyl	103	0	48-120		%REC	1	05/13/13 01:46 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-5
Lab ID: 1305076-03
Collection Date: 05/06/13 01:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	10.0	0	20-120	S	%REC	1	05/13/13 01:46 PM
Surr: 4-Terphenyl-d14	122	0	51-135		%REC	1	05/13/13 01:46 PM
Surr: Nitrobenzene-d5	116	0	41-120		%REC	1	05/13/13 01:46 PM
Surr: Phenol-d6	17.8	0	20-120	S	%REC	1	05/13/13 01:46 PM
PCB BY GC/MS - AQUEOUS		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Aroclor 1221	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Aroclor 1232	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Aroclor 1242	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Aroclor 1248	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Aroclor 1254	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Aroclor 1260	ND	0.000100	0.000250		mg/L	1	05/08/13 10:22 PM
Surr: 2-Fluorobiphenyl	78.0	0	40-140		%REC	1	05/08/13 10:22 PM
Surr: 4-Terphenyl-d14	101	0	40-140		%REC	1	05/08/13 10:22 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 06:47 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 06:47 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 06:47 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 06:47 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 06:47 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 06:47 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 06:47 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 06:47 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 06:47 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 06:47 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	05/10/13 06:47 PM
Surr: 4-Bromofluorobenzene	107	0	76-119		%REC	1	05/10/13 06:47 PM
Surr: Dibromofluoromethane	112	0	85-115		%REC	1	05/10/13 06:47 PM
Surr: Toluene-d8	99.2	0	81-120		%REC	1	05/10/13 06:47 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-5
Lab ID: 1305076-03
Collection Date: 05/06/13 01:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Chloride	901	30.0	100		mg/L	100	05/07/13 04:42 PM
Fluoride	1.45	0.100	0.400		mg/L	1	05/07/13 06:09 PM
Nitrate-N	2.06	0.100	0.500		mg/L	1	05/07/13 06:09 PM
Sulfate	1650	100	300		mg/L	100	05/07/13 04:42 PM
CYANIDE - WATER SAMPLE		M4500-CN E		Analyst: JCG			
Cyanide, Total	ND	0.0100	0.0200		mg/L	1	05/13/13 02:21 PM
PH		M4500-H+ B		Analyst: JBC			
pH	7.03	0	0		pH units	1	05/07/13 02:07 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-2
Lab ID: 1305076-04
Collection Date: 05/06/13 01:30 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: AQUEOUS		SW7470A			Analyst: LM		
Mercury	ND	0.0000800	0.000200		mg/L	1	05/13/13 09:34 AM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Arsenic	0.0142	0.00200	0.00500		mg/L	1	05/14/13 01:33 PM
Barium	0.0438	0.00300	0.0100		mg/L	1	05/14/13 01:33 PM
Cadmium	0.000358	0.000300	0.00100	J	mg/L	1	05/14/13 01:33 PM
Chromium	ND	0.00200	0.00500		mg/L	1	05/14/13 01:33 PM
Copper	0.00747	0.00200	0.0100	J	mg/L	1	05/14/13 01:33 PM
Iron	0.708	0.0300	0.100		mg/L	1	05/14/13 01:33 PM
Lead	0.00349	0.000300	0.00100		mg/L	1	05/14/13 01:33 PM
Manganese	0.138	0.00300	0.0100		mg/L	1	05/14/13 01:33 PM
Selenium	0.00216	0.00200	0.00500	J	mg/L	1	05/14/13 01:33 PM
Silver	ND	0.00100	0.00200		mg/L	1	05/14/13 01:33 PM
Zinc	0.0159	0.00200	0.00500		mg/L	1	05/14/13 01:33 PM
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.000200	0.000800	N	mg/L	1	05/13/13 02:09 PM
2-Methylnaphthalene	0.000280	0.000200	0.000800	J	mg/L	1	05/13/13 02:09 PM
Naphthalene	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
Benzo[a]pyrene	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2,3,4,6-Tetrachlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2,4,5-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2,4,6-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2,4-Dichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2,4-Dimethylphenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:09 PM
2,4-Dinitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 02:09 PM
2,6-Dichlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:09 PM
2-Chlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
2-Nitrophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:09 PM
4,6-Dinitro-2-methylphenol	ND	0.000500	0.00200		mg/L	1	05/13/13 02:09 PM
4-Chloro-3-methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
4-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:09 PM
4-Nitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 02:09 PM
Pentachlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:09 PM
Phenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:09 PM
Total Phenol (Calculated)	ND	0.000200	0.000800	N	mg/L	1	05/13/13 02:09 PM
Surr: 2,4,6-Tribromophenol	109	0	42-124		%REC	1	05/13/13 02:09 PM
Surr: 2-Fluorobiphenyl	98.0	0	48-120		%REC	1	05/13/13 02:09 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL		Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL		Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-2
Lab ID: 1305076-04
Collection Date: 05/06/13 01:30 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
Surr: 2-Fluorophenol	82.5	0	20-120		%REC	1	05/13/13 02:09 PM
Surr: 4-Terphenyl-d14	113	0	51-135		%REC	1	05/13/13 02:09 PM
Surr: Nitrobenzene-d5	112	0	41-120		%REC	1	05/13/13 02:09 PM
Surr: Phenol-d6	59.0	0	20-120		%REC	1	05/13/13 02:09 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 03:58 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 03:58 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 03:58 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 03:58 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 03:58 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 03:58 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 03:58 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 03:58 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 03:58 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 03:58 PM
Surr: 1,2-Dichloroethane-d4	98.4	0	72-119		%REC	1	05/10/13 03:58 PM
Surr: 4-Bromofluorobenzene	105	0	76-119		%REC	1	05/10/13 03:58 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	05/10/13 03:58 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	05/10/13 03:58 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Chloride	539	30.0	100		mg/L	100	05/07/13 04:56 PM
Fluoride	1.77	0.100	0.400		mg/L	1	05/07/13 06:24 PM
Nitrate-N	0.670	0.100	0.500		mg/L	1	05/07/13 06:24 PM
Sulfate	1310	10.0	30.0		mg/L	10	05/07/13 03:27 PM
CYANIDE - WATER SAMPLE		M4500-CN E			Analyst: JCG		
Cyanide, Total	ND	0.0100	0.0200		mg/L	1	05/13/13 02:21 PM
PH		M4500-H+ B			Analyst: JBC		
pH	7.40	0	0		pH units	1	05/07/13 02:09 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-E40
Lab ID: 1305076-05
Collection Date: 05/06/13 02:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: AQUEOUS		SW7470A			Analyst: LM		
Mercury	ND	0.0000800	0.000200		mg/L	1	05/13/13 09:37 AM
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Arsenic	0.00487	0.00200	0.00500	J	mg/L	1	05/14/13 01:09 PM
Barium	0.337	0.00300	0.0100		mg/L	1	05/14/13 01:09 PM
Cadmium	ND	0.000300	0.00100		mg/L	1	05/14/13 01:09 PM
Chromium	ND	0.00200	0.00500		mg/L	1	05/14/13 01:09 PM
Copper	0.0137	0.00200	0.0100		mg/L	1	05/14/13 01:09 PM
Iron	0.308	0.0300	0.100		mg/L	1	05/14/13 01:09 PM
Lead	0.000302	0.000300	0.00100	J	mg/L	1	05/14/13 01:09 PM
Manganese	0.650	0.00300	0.0100		mg/L	1	05/14/13 01:09 PM
Selenium	ND	0.00200	0.00500		mg/L	1	05/14/13 01:09 PM
Silver	ND	0.00100	0.00200		mg/L	1	05/14/13 01:09 PM
Zinc	ND	0.00200	0.00500		mg/L	1	05/14/13 01:09 PM
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 04:22 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 04:22 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 04:22 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 04:22 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 04:22 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 04:22 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 04:22 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 04:22 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:22 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 04:22 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	05/10/13 04:22 PM
Surr: 4-Bromofluorobenzene	103	0	76-119		%REC	1	05/10/13 04:22 PM
Surr: Dibromofluoromethane	112	0	85-115		%REC	1	05/10/13 04:22 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	05/10/13 04:22 PM
ANIONS BY IC METHOD - WATER		E300			Analyst: JBC		
Chloride	436	3.00	10.0		mg/L	10	05/07/13 03:42 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-E40
Lab ID: 1305076-05
Collection Date: 05/06/13 02:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		E300		Analyst: JBC			
Fluoride	1.02	0.100	0.400		mg/L	1	05/07/13 06:38 PM
Nitrate-N	ND	0.100	0.500		mg/L	1	05/07/13 06:38 PM
Sulfate	561	10.0	30.0		mg/L	10	05/07/13 03:42 PM
CYANIDE - WATER SAMPLE		M4500-CN E		Analyst: JCG			
Cyanide, Total	ND	0.0100	0.0200		mg/L	1	05/13/13 02:21 PM
PH		M4500-H+ B		Analyst: JBC			
pH	7.40	0	0		pH units	1	05/07/13 02:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-S40
Lab ID: 1305076-06
Collection Date: 05/06/13 02:30 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 04:46 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 04:46 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 04:46 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 04:46 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 04:46 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 04:46 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 04:46 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 04:46 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 04:46 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 04:46 PM
Surr: 1,2-Dichloroethane-d4	105	0	72-119		%REC	1	05/10/13 04:46 PM
Surr: 4-Bromofluorobenzene	105	0	76-119		%REC	1	05/10/13 04:46 PM
Surr: Dibromofluoromethane	109	0	85-115		%REC	1	05/10/13 04:46 PM
Surr: Toluene-d8	99.9	0	81-120		%REC	1	05/10/13 04:46 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-W40
Lab ID: 1305076-07
Collection Date: 05/06/13 03:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:11 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 05:11 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:11 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:11 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 05:11 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 05:11 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 05:11 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 05:11 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:11 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 05:11 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	05/10/13 05:11 PM
Surr: 4-Bromofluorobenzene	106	0	76-119		%REC	1	05/10/13 05:11 PM
Surr: Dibromofluoromethane	109	0	85-115		%REC	1	05/10/13 05:11 PM
Surr: Toluene-d8	99.9	0	81-120		%REC	1	05/10/13 05:11 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
	C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
	E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
	MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
	RL	Reporting Limit	S	Spike Recovery outside control limits
	N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: Trip Blank
Lab ID: 1305076-08
Collection Date: 05/06/13
Matrix: TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		SW8260C			Analyst: KL		
Benzene	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
Toluene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:35 PM
Carbon tetrachloride	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
1,2-Dichloroethane	ND	0.000300	0.00100		mg/L	1	05/10/13 05:35 PM
1,1-Dichloroethylene	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
Tetrachloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:35 PM
Trichloroethylene	ND	0.000600	0.00200		mg/L	1	05/10/13 05:35 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	05/10/13 05:35 PM
Total Xylenes	ND	0.000300	0.00100		mg/L	1	05/10/13 05:35 PM
Methylene chloride	ND	0.00250	0.00250		mg/L	1	05/10/13 05:35 PM
Chloroform	ND	0.000300	0.00100		mg/L	1	05/10/13 05:35 PM
1,1-Dichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
Ethylene dibromide	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
1,1,1-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
1,1,2-Trichloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
1,1,2,2-Tetrachloroethane	ND	0.000200	0.00100		mg/L	1	05/10/13 05:35 PM
Vinyl chloride	ND	0.000100	0.00100		mg/L	1	05/10/13 05:35 PM
Surr: 1,2-Dichloroethane-d4	99.3	0	72-119		%REC	1	05/10/13 05:35 PM
Surr: 4-Bromofluorobenzene	107	0	76-119		%REC	1	05/10/13 05:35 PM
Surr: Dibromofluoromethane	105	0	85-115		%REC	1	05/10/13 05:35 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	05/10/13 05:35 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-2
Lab ID: 1305076-09
Collection Date: 05/07/13 12:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB BY GC/MS - AQUEOUS		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Aroclor 1221	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Aroclor 1232	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Aroclor 1242	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Aroclor 1248	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Aroclor 1254	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Aroclor 1260	ND	0.000100	0.000250		mg/L	1	05/08/13 09:18 PM
Surr: 2-Fluorobiphenyl	77.4	0	40-140		%REC	1	05/08/13 09:18 PM
Surr: 4-Terphenyl-d14	100	0	40-140		%REC	1	05/08/13 09:18 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 05-Jun-13

CLIENT: Larson & Associates
Project: R360 Landfarm
Project No: 11-0109-09
Lab Order: 1305076

Client Sample ID: MW-E40
Lab ID: 1305076-10
Collection Date: 05/07/13 02:00 PM
Matrix: LIQUID

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS - WATER		SW8270D			Analyst: CZ		
1-Methylnaphthalene	ND	0.000200	0.000800	N	mg/L	1	05/13/13 02:32 PM
2-Methylnaphthalene	0.000320	0.000200	0.000800	J	mg/L	1	05/13/13 02:32 PM
Naphthalene	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
Benzo[a]pyrene	0.000720	0.000200	0.000800	J	mg/L	1	05/13/13 02:32 PM
2,3,4,6-Tetrachlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
2,4,5-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
2,4,6-Trichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
2,4-Dichlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
2,4-Dimethylphenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:32 PM
2,4-Dinitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 02:32 PM
2,6-Dichlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:32 PM
2-Chlorophenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
2-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
2-Nitrophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:32 PM
4,6-Dinitro-2-methylphenol	ND	0.000500	0.00200		mg/L	1	05/13/13 02:32 PM
4-Chloro-3-methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
4-Methylphenol	ND	0.000200	0.000800		mg/L	1	05/13/13 02:32 PM
4-Nitrophenol	ND	0.00100	0.00400		mg/L	1	05/13/13 02:32 PM
Pentachlorophenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:32 PM
Phenol	ND	0.000400	0.000800		mg/L	1	05/13/13 02:32 PM
Total Phenol (Calculated)	ND	0.000200	0.000800	N	mg/L	1	05/13/13 02:32 PM
Surr: 2,4,6-Tribromophenol	99.8	0	42-124		%REC	1	05/13/13 02:32 PM
Surr: 2-Fluorobiphenyl	93.5	0	48-120		%REC	1	05/13/13 02:32 PM
Surr: 2-Fluorophenol	64.8	0	20-120		%REC	1	05/13/13 02:32 PM
Surr: 4-Terphenyl-d14	101	0	51-135		%REC	1	05/13/13 02:32 PM
Surr: Nitrobenzene-d5	104	0	41-120		%REC	1	05/13/13 02:32 PM
Surr: Phenol-d6	45.2	0	20-120		%REC	1	05/13/13 02:32 PM
PCB BY GC/MS - AQUEOUS		SW8270D			Analyst: AJR		
Aroclor 1016	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Aroclor 1221	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Aroclor 1232	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Aroclor 1242	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Aroclor 1248	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Aroclor 1254	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Aroclor 1260	ND	0.000100	0.000250		mg/L	1	05/08/13 09:50 PM
Surr: 2-Fluorobiphenyl	80.9	0	40-140		%REC	1	05/08/13 09:50 PM
Surr: 4-Terphenyl-d14	95.8	0	40-140		%REC	1	05/08/13 09:50 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130513A

The QC data in batch 57373 applies to the following samples: 1305076-01B, 1305076-02B, 1305076-03B, 1305076-04B, 1305076-05B

Sample ID: MB-57373	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: MBLK	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:33:20 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID: LCS-57373	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: LCS	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:37:24 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00198	0.000200	0.00200	0	99.0	85	115			

Sample ID: LCSD-57373	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: LCSD	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:39:26 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00201	0.000200	0.00200	0	101	85	115	1.50	15	

Sample ID: 1305055-03A SD	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: SD	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:48:02 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.00100	0	0				0	10	

Sample ID: 1305055-03A PDS	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: PDS	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:50:06 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00226	0.000200	0.00250	0	90.4	85	115			

Sample ID: 1305055-03A MS	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: MS	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:52:12 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00182	0.000200	0.00200	0	91.0	80	120			

Sample ID: 1305055-03A MSD	Batch ID: 57373	TestNo: SW7470A	Units: mg/L							
SampType: MSD	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:54:18 AM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00187	0.000200	0.00200	0	93.5	80	120	2.71	15	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130513A

Sample ID: ICV-130513	Batch ID: R66343	TestNo: SW7470A	Units: mg/L							
SampType: ICV	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 8:29:14 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00410	0.000200	0.00400	0	103	90	110			
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Sample ID: CCV1-130513	Batch ID: R66343	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 9:03:46 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00198	0.000200	0.00200	0	99.0	90	110			
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Sample ID: CCV2-130513	Batch ID: R66343	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 9:28:24 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00204	0.000200	0.00200	0	102	90	110			
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Sample ID: CCV3-130513	Batch ID: R66343	TestNo: SW7470A	Units: mg/L							
SampType: CCV	Run ID: CETAC_HG_130513A	Analysis Date: 5/13/2013 9:49:45 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Mercury	0.00199	0.000200	0.00200	0	99.5	90	110			
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Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130515B

Sample ID: ICV1-130515	Batch ID: R66432	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS2_130515B	Analysis Date: 5/15/2013 12:49:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.0991	0.00500	0.100	0	99.1	90	110			
Barium	0.0933	0.0100	0.100	0	93.3	90	110			
Cadmium	0.0927	0.00100	0.100	0	92.7	90	110			
Chromium	0.102	0.00500	0.100	0	102	90	110			
Lead	0.0911	0.00100	0.100	0	91.1	90	110			
Selenium	0.101	0.00500	0.100	0	101	90	110			
Silver	0.0974	0.00200	0.100	0	97.4	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130514A

The QC data in batch 57369 applies to the following samples: 1305076-01B, 1305076-02B, 1305076-03B, 1305076-04B, 1305076-05B

Sample ID: MB-57369	Batch ID: 57369	TestNo: SW6020A	Units: mg/L
SampType: MBLK	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 12:14:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Chromium	ND	0.00500								
Copper	ND	0.0100								
Iron	ND	0.100								
Lead	ND	0.00100								
Manganese	ND	0.0100								
Selenium	ND	0.00500								
Silver	ND	0.00200								
Zinc	ND	0.00500								

Sample ID: LCS-57369	Batch ID: 57369	TestNo: SW6020A	Units: mg/L
SampType: LCS	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 12:20:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.198	0.00500	0.200	0	99.1	80	120			
Barium	0.190	0.0100	0.200	0	95.0	80	120			
Cadmium	0.188	0.00100	0.200	0	94.0	80	120			
Chromium	0.198	0.00500	0.200	0	98.8	80	120			
Copper	0.196	0.0100	0.200	0	98.0	80	120			
Iron	5.21	0.100	5.00	0	104	80	120			
Lead	0.191	0.00100	0.200	0	95.4	80	120			
Manganese	0.197	0.0100	0.200	0	98.7	80	120			
Selenium	0.199	0.00500	0.200	0	99.4	80	120			
Silver	0.194	0.00200	0.200	0	97.2	80	120			
Zinc	0.202	0.00500	0.200	0	101	80	120			

Sample ID: LCSD-57369	Batch ID: 57369	TestNo: SW6020A	Units: mg/L
SampType: LCSD	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 12:26:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0	102	80	120	2.49	15	
Barium	0.193	0.0100	0.200	0	96.6	80	120	1.67	15	
Cadmium	0.191	0.00100	0.200	0	95.3	80	120	1.32	15	
Chromium	0.196	0.00500	0.200	0	98.2	80	120	0.609	15	
Copper	0.197	0.0100	0.200	0	98.6	80	120	0.712	15	
Iron	5.30	0.100	5.00	0	106	80	120	1.68	15	
Lead	0.190	0.00100	0.200	0	95.2	80	120	0.157	15	
Manganese	0.197	0.0100	0.200	0	98.4	80	120	0.355	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130514A

Sample ID: LCSD-57369	Batch ID: 57369	TestNo: SW6020A	Units: mg/L							
SampType: LCSD	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 12:26:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	0.198	0.00500	0.200	0	98.8	80	120	0.706	15	
Silver	0.198	0.00200	0.200	0	98.8	80	120	1.63	15	
Zinc	0.205	0.00500	0.200	0	103	80	120	1.62	15	

Sample ID: 1305076-02B SD	Batch ID: 57369	TestNo: SW6020A	Units: mg/L							
SampType: SD	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 12:44:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.250	0	0				0	10	
Barium	0	0.500	0	0				0	10	
Cadmium	0	0.0500	0	0				0	10	
Chromium	0	0.250	0	0				0	10	
Copper	0	0.500	0	0				0	10	
Iron	0	5.00	0	0.387				0	10	
Lead	0	0.0500	0	0				0	10	
Manganese	0.210	0.500	0	0.201				4.38	10	
Selenium	0	0.250	0	0.0200				0	10	
Silver	0	0.100	0	0				0	10	
Zinc	0	0.250	0	0				0	10	

Sample ID: 1305076-02B PDS	Batch ID: 57369	TestNo: SW6020A	Units: mg/L							
SampType: PDS	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 1:39:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.95	0.0500	2.00	0	97.4	80	120			
Barium	1.93	0.100	2.00	0	96.5	80	120			
Cadmium	1.83	0.0100	2.00	0	91.4	80	120			
Chromium	1.90	0.0500	2.00	0	95.0	80	120			
Copper	1.81	0.100	2.00	0	90.5	80	120			
Iron	50.1	1.00	50.0	0.387	99.4	80	120			
Lead	1.86	0.0100	2.00	0	93.0	80	120			
Manganese	2.12	0.100	2.00	0.201	96.0	80	120			
Selenium	1.87	0.0500	2.00	0.0200	92.4	80	120			
Silver	1.83	0.0200	2.00	0	91.4	80	120			
Zinc	1.91	0.0500	2.00	0	95.3	80	120			

Sample ID: 1305076-02B MS	Batch ID: 57369	TestNo: SW6020A	Units: mg/L							
SampType: MS	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 1:45:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.212	0.0500	0.200	0	106	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130514A

Sample ID: 1305076-02B MS	Batch ID: 57369	TestNo: SW6020A	Units: mg/L
SampType: MS	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 1:45:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.222	0.100	0.200	0	111	80	120			
Cadmium	0.194	0.0100	0.200	0	97.2	80	120			
Chromium	0.197	0.0500	0.200	0	98.7	80	120			
Copper	0.197	0.100	0.200	0	98.4	80	120			
Iron	5.29	1.00	5.00	0.387	98.1	80	120			
Lead	0.197	0.0100	0.200	0	98.6	80	120			
Manganese	0.392	0.100	0.200	0.201	95.7	80	120			
Selenium	0.218	0.0500	0.200	0.0200	98.7	80	120			
Silver	0.195	0.0200	0.200	0	97.4	80	120			
Zinc	0.194	0.0500	0.200	0	96.8	80	120			

Sample ID: 1305076-02B MSD	Batch ID: 57369	TestNo: SW6020A	Units: mg/L
SampType: MSD	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 1:52:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.212	0.0500	0.200	0	106	80	120	0	15	
Barium	0.217	0.100	0.200	0	108	80	120	2.05	15	
Cadmium	0.185	0.0100	0.200	0	92.5	80	120	5.01	15	
Chromium	0.195	0.0500	0.200	0	97.4	80	120	1.33	15	
Copper	0.192	0.100	0.200	0	95.9	80	120	2.52	15	
Iron	5.16	1.00	5.00	0.387	95.5	80	120	2.49	15	
Lead	0.191	0.0100	0.200	0	95.4	80	120	3.30	15	
Manganese	0.388	0.100	0.200	0.201	93.7	80	120	1.02	15	
Selenium	0.212	0.0500	0.200	0.0200	96.2	80	120	2.37	15	
Silver	0.190	0.0200	0.200	0	95.2	80	120	2.28	15	
Zinc	0.194	0.0500	0.200	0	96.9	80	120	0.051	15	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130514A

Sample ID: ILCVL-130514	Batch ID: R66390	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 12:01:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00534	0.00500	0.00500	0	107	70	130			
Barium	0.00481	0.0100	0.00500	0	96.2	70	130			
Cadmium	0.00101	0.00100	0.00100	0	101	70	130			
Chromium	0.00485	0.00500	0.00500	0	97.0	70	130			
Copper	0.00476	0.0100	0.00500	0	95.2	70	130			
Iron	0.116	0.100	0.100	0	116	70	130			
Lead	0.000976	0.00100	0.00100	0	97.6	70	130			
Manganese	0.00503	0.0100	0.00500	0	101	70	130			
Selenium	0.00488	0.00500	0.00500	0	97.7	70	130			
Silver	0.00192	0.00200	0.00200	0	96.0	70	130			
Zinc	0.00467	0.00500	0.00500	0	93.5	70	130			

Sample ID: LCVL1-130514	Batch ID: R66390	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 2:41:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.00507	0.00500	0.00500	0	101	70	130			
Barium	0.00476	0.0100	0.00500	0	95.3	70	130			
Cadmium	0.000907	0.00100	0.00100	0	90.7	70	130			
Chromium	0.00473	0.00500	0.00500	0	94.5	70	130			
Copper	0.00470	0.0100	0.00500	0	93.9	70	130			
Iron	0.104	0.100	0.100	0	104	70	130			
Lead	0.000944	0.00100	0.00100	0	94.4	70	130			
Manganese	0.00509	0.0100	0.00500	0	102	70	130			
Selenium	0.00512	0.00500	0.00500	0	102	70	130			
Silver	0.00192	0.00200	0.00200	0	96.0	70	130			
Zinc	0.00460	0.00500	0.00500	0	92.1	70	130			

Sample ID: ICV1-130514	Batch ID: R66390	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 11:42:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.108	0.00500	0.100	0	108	90	110			
Barium	0.0931	0.0100	0.100	0	93.1	90	110			
Cadmium	0.0981	0.00100	0.100	0	98.1	90	110			
Chromium	0.0970	0.00500	0.100	0	97.0	90	110			
Copper	0.0972	0.0100	0.100	0	97.2	90	110			
Iron	2.60	0.100	2.50	0	104	90	110			
Lead	0.0928	0.00100	0.100	0	92.8	90	110			
Manganese	0.0967	0.0100	0.100	0	96.7	90	110			
Selenium	0.0977	0.00500	0.100	0	97.7	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130514A

Sample ID: ICV1-130514	Batch ID: R66390	TestNo: SW6020A	Units: mg/L							
SampType: ICV	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 11:42:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Silver	0.0951	0.00200	0.100	0	95.1	90	110			
Zinc	0.109	0.00500	0.100	0	109	90	110			

Sample ID: CCV1-130514	Batch ID: R66390	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS3_130514A	Analysis Date: 5/14/2013 1:58:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.206	0.00500	0.200	0	103	90	110			
Barium	0.193	0.0100	0.200	0	96.6	90	110			
Cadmium	0.194	0.00100	0.200	0	96.8	90	110			
Chromium	0.200	0.00500	0.200	0	100	90	110			
Copper	0.198	0.0100	0.200	0	98.8	90	110			
Iron	5.30	0.100	5.00	0	106	90	110			
Lead	0.192	0.00100	0.200	0	96.2	90	110			
Manganese	0.196	0.0100	0.200	0	98.0	90	110			
Selenium	0.201	0.00500	0.200	0	101	90	110			
Silver	0.200	0.00200	0.200	0	100	90	110			
Zinc	0.208	0.00500	0.200	0	104	90	110			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130508A

The QC data in batch 57324 applies to the following samples: 1305076-01E, 1305076-02E, 1305076-03E, 1305076-09A, 1305076-10B

Sample ID: MB-57324	Batch ID: 57324	TestNo: SW8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS8_130508A	Analysis Date: 5/8/2013 3:58:00 PM	Prep Date: 5/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.000250								
Aroclor 1221	ND	0.000250								
Aroclor 1232	ND	0.000250								
Aroclor 1242	ND	0.000250								
Aroclor 1248	ND	0.000250								
Aroclor 1254	ND	0.000250								
Aroclor 1260	ND	0.000250								
Surr: 2-Fluorobiphenyl	2.84		4.000		71.1	40	140			
Surr: 4-Terphenyl-d14	3.72		4.000		92.9	40	140			

Sample ID: LCSD-57324	Batch ID: 57324	TestNo: SW8270D	Units: mg/L
SampType: LCS	Run ID: GCMS8_130508A	Analysis Date: 5/8/2013 5:34:00 PM	Prep Date: 5/8/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	0.00321	0.000250	0.00400	0	80.1	53	113			
Aroclor 1260	0.00357	0.000250	0.00400	0	89.3	37	131			
Surr: 2-Fluorobiphenyl	3.58		4.000		89.6	40	140			
Surr: 4-Terphenyl-d14	4.41		4.000		110	40	140			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_130508A

Sample ID: ICV-130508	Batch ID: R66285	TestNo: SW8270D	Units: mg/L
SampType: ICV	Run ID: GCMS8_130508A	Analysis Date: 5/8/2013 12:29:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1.98	0.000250	2.00	0	99.2	80	120			
Aroclor 1260	2.09	0.000250	2.00	0	104	80	120			
Surr: 2-Fluorobiphenyl	1800		2000		90.0	80	120			
Surr: 4-Terphenyl-d14	1900		2000		95.0	80	120			

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130513A

The QC data in batch 57381 applies to the following samples: 1305076-01D, 1305076-02D, 1305076-03D, 1305076-04D, 1305076-10A

Sample ID: LCS-57381	Batch ID: 57381	TestNo: SW8270D	Units: mg/L
SampType: LCS	Run ID: GCMS9_130513A	Analysis Date: 5/13/2013 10:16:00 AM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.0345	0.000800	0.0400	0	86.2	45	125			N
2,3,4,6-Tetrachlorophenol	0.0333	0.000800	0.0400	0	83.3	45	125			
2,4,5-Trichlorophenol	0.0340	0.000800	0.0400	0	84.9	49	120			
2,4,6-Trichlorophenol	0.0367	0.000800	0.0400	0	91.8	49	126			
2,4-Dichlorophenol	0.0365	0.000800	0.0400	0	91.2	48	120			
2,4-Dimethylphenol	0.0382	0.000800	0.0400	0	95.4	28	120			
2,4-Dinitrophenol	0.0335	0.00400	0.0400	0	83.9	25	130			
2,6-Dichlorophenol	0.0384	0.000800	0.0400	0	95.9	35	120			
2-Chlorophenol	0.0383	0.000800	0.0400	0	95.8	37	120			
2-Methylnaphthalene	0.0356	0.000800	0.0400	0	89.0	46	120			
2-Methylphenol	0.0338	0.000800	0.0400	0	84.4	38	120			
2-Nitrophenol	0.0376	0.000800	0.0400	0	94.0	39	123			
4,6-Dinitro-2-methylphenol	0.0349	0.00200	0.0400	0	87.2	40	130			
4-Chloro-3-methylphenol	0.0355	0.000800	0.0400	0	88.8	47	120			
4-Methylphenol	0.0346	0.000800	0.0400	0	86.5	32	120			
4-Nitrophenol	0.0340	0.00400	0.0400	0	85.0	20	120			
Benzo[a]pyrene	0.0380	0.000800	0.0400	0	95.1	53	120			
Naphthalene	0.0337	0.000800	0.0400	0	84.2	39	120			
Pentachlorophenol	0.0364	0.000800	0.0400	0	91.1	38	120			
Phenol	0.0270	0.000800	0.0400	0	67.4	20	120			
Surr: 2,4,6-Tribromophenol	85.6		80.00		107	42	124			
Surr: 2-Fluorobiphenyl	75.0		80.00		93.8	48	120			
Surr: 2-Fluorophenol	77.4		80.00		96.8	20	120			
Surr: 4-Terphenyl-d14	92.4		80.00		116	51	135			
Surr: Nitrobenzene-d5	88.4		80.00		110	41	120			
Surr: Phenol-d6	56.4		80.00		70.5	20	120			

Sample ID: LCS-57381	Batch ID: 57381	TestNo: SW8270D	Units: mg/L
SampType: LCS	Run ID: GCMS9_130513A	Analysis Date: 5/13/2013 10:40:00 AM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	0.0351	0.000800	0.0400	0	87.8	45	125	1.84	20	N
2,3,4,6-Tetrachlorophenol	0.0335	0.000800	0.0400	0	83.7	45	125	0.539	20	
2,4,5-Trichlorophenol	0.0366	0.000800	0.0400	0	91.6	49	120	7.59	20	
2,4,6-Trichlorophenol	0.0371	0.000800	0.0400	0	92.6	49	126	0.922	20	
2,4-Dichlorophenol	0.0363	0.000800	0.0400	0	90.7	48	120	0.495	20	
2,4-Dimethylphenol	0.0375	0.000800	0.0400	0	93.6	28	120	1.90	20	
2,4-Dinitrophenol	0.0323	0.00400	0.0400	0	80.8	25	130	3.77	20	
2,6-Dichlorophenol	0.0380	0.000800	0.0400	0	95.1	35	120	0.890	20	
2-Chlorophenol	0.0370	0.000800	0.0400	0	92.5	37	120	3.56	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130513A

Sample ID: LCSD-57381	Batch ID: 57381	TestNo: SW8270D	Units: mg/L
SampType: LCSD	Run ID: GCMS9_130513A	Analysis Date: 5/13/2013 10:40:00 AM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylnaphthalene	0.0354	0.000800	0.0400	0	88.4	46	120	0.620	20	
2-Methylphenol	0.0337	0.000800	0.0400	0	84.2	38	120	0.237	20	
2-Nitrophenol	0.0376	0.000800	0.0400	0	93.9	39	123	0.053	20	
4,6-Dinitro-2-methylphenol	0.0345	0.00200	0.0400	0	86.2	40	130	1.10	20	
4-Chloro-3-methylphenol	0.0361	0.000800	0.0400	0	90.2	47	120	1.56	20	
4-Methylphenol	0.0339	0.000800	0.0400	0	84.9	32	120	1.93	20	
4-Nitrophenol	0.0332	0.00400	0.0400	0	82.9	20	120	2.56	20	
Benzo[a]pyrene	0.0399	0.000800	0.0400	0	99.8	53	120	4.83	20	
Naphthalene	0.0349	0.000800	0.0400	0	87.2	39	120	3.50	20	
Pentachlorophenol	0.0387	0.000800	0.0400	0	96.7	38	120	5.91	20	
Phenol	0.0264	0.000800	0.0400	0	66.0	20	120	2.10	20	
Surr: 2,4,6-Tribromophenol	87.2		80.00		109	42	124	0	0	
Surr: 2-Fluorobiphenyl	77.8		80.00		97.3	48	120	0	0	
Surr: 2-Fluorophenol	74.8		80.00		93.5	20	120	0	0	
Surr: 4-Terphenyl-d14	95.8		80.00		120	51	135	0	0	
Surr: Nitrobenzene-d5	89.4		80.00		112	41	120	0	0	
Surr: Phenol-d6	55.0		80.00		68.8	20	120	0	0	

Sample ID: MB-57381	Batch ID: 57381	TestNo: SW8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS9_130513A	Analysis Date: 5/13/2013 12:13:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	ND	0.000800								N
2,3,4,6-Tetrachlorophenol	ND	0.000800								
2,4,5-Trichlorophenol	ND	0.000800								
2,4,6-Trichlorophenol	ND	0.000800								
2,4-Dichlorophenol	ND	0.000800								
2,4-Dimethylphenol	ND	0.000800								
2,4-Dinitrophenol	ND	0.00400								
2,6-Dichlorophenol	ND	0.000800								
2-Chlorophenol	ND	0.000800								
2-Methylnaphthalene	0.000380	0.000800								
2-Methylphenol	ND	0.000800								
2-Nitrophenol	ND	0.000800								
4,6-Dinitro-2-methylphenol	ND	0.00200								
4-Chloro-3-methylphenol	ND	0.000800								
4-Methylphenol	ND	0.000800								
4-Nitrophenol	ND	0.00400								
Benzo[a]pyrene	0.000720	0.000800								
Naphthalene	ND	0.000800								
Pentachlorophenol	ND	0.000800								

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130513A

Sample ID: MB-57381	Batch ID: 57381	TestNo: SW8270D	Units: mg/L
SampType: MBLK	Run ID: GCMS9_130513A	Analysis Date: 5/13/2013 12:13:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phenol	ND	0.000800								
Total Phenol (Calculated)	ND	0.000800								N
Surr: 2,4,6-Tribromophenol	87.2		80.00		109	42	124			
Surr: 2-Fluorobiphenyl	78.2		80.00		97.8	48	120			
Surr: 2-Fluorophenol	68.0		80.00		85.0	20	120			
Surr: 4-Terphenyl-d14	92.4		80.00		116	51	135			
Surr: Nitrobenzene-d5	89.6		80.00		112	41	120			
Surr: Phenol-d6	46.6		80.00		58.2	20	120			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_130513A

Sample ID: ICV-130513	Batch ID: R66369	TestNo: SW8270D	Units: mg/L
SampType: ICV	Run ID: GCMS9_130513A	Analysis Date: 5/13/2013 9:53:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1-Methylnaphthalene	3.86	0.000800	4.00	0	96.5	80	120			N
2,3,4,6-Tetrachlorophenol	3.52	0.000800	4.00	0	87.9	80	120			
2,4,5-Trichlorophenol	3.98	0.000800	4.00	0	99.6	80	120			
2,4,6-Trichlorophenol	3.92	0.000800	4.00	0	98.0	80	120			
2,4-Dichlorophenol	4.06	0.000800	4.00	0	101	80	120			
2,4-Dimethylphenol	3.94	0.000800	4.00	0	98.5	80	120			
2,4-Dinitrophenol	3.78	0.00400	4.00	0	94.5	80	120			
2,6-Dichlorophenol	4.19	0.000800	4.00	0	105	80	120			
2-Chlorophenol	4.27	0.000800	4.00	0	107	80	120			
2-Methylnaphthalene	3.91	0.000800	4.00	0	97.7	80	120			
2-Methylphenol	3.69	0.000800	4.00	0	92.2	80	120			
2-Nitrophenol	4.08	0.000800	4.00	0	102	80	120			
4,6-Dinitro-2-methylphenol	3.74	0.00200	4.00	0	93.4	80	120			
4-Chloro-3-methylphenol	4.16	0.000800	4.00	0	104	80	120			
4-Methylphenol	3.92	0.000800	4.00	0	98.0	80	120			
4-Nitrophenol	3.81	0.00400	4.00	0	95.3	80	120			
Benzo[a]pyrene	3.78	0.000800	4.00	0	94.5	80	120			
Naphthalene	3.84	0.000800	4.00	0	95.9	80	120			
Pentachlorophenol	3.84	0.000800	4.00	0	96.0	80	120			
Phenol	4.11	0.000800	4.00	0	103	80	120			
Total Phenol (Calculated)	63.0	0.000800	0							N
Surr: 2,4,6-Tribromophenol	4030		4000		101	80	120			
Surr: 2-Fluorobiphenyl	3680		4000		92.0	80	120			
Surr: 2-Fluorophenol	4460		4000		112	80	120			
Surr: 4-Terphenyl-d14	3730		4000		93.2	80	120			
Surr: Nitrobenzene-d5	4550		4000		114	80	120			
Surr: Phenol-d6	3890		4000		97.2	80	120			

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
J Analyte detected between MDL and RL MDL Method Detection Limit
ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
RL Reporting Limit S Spike Recovery outside control limits
J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130510A

The QC data in batch 57380 applies to the following samples: 1305076-01A, 1305076-02A, 1305076-03A, 1305076-04A, 1305076-05A, 1305076-06A, 1305076-07A, 1305076-08A

Sample ID: LCS-57380	Batch ID: 57380	TestNo: SW8260C	Units: mg/L
SampType: LCS	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 11:32:00 AM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0232	0.00100	0.0232	0	100	67	132			
1,1,2,2-Tetrachloroethane	0.0241	0.00100	0.0232	0	104	63	128			
1,1,2-Trichloroethane	0.0236	0.00100	0.0232	0	102	75	125			
1,1-Dichloroethane	0.0200	0.00100	0.0232	0	86.3	69	133			
1,1-Dichloroethylene	0.0181	0.00100	0.0232	0	77.9	68	130			
1,2-Dichloroethane	0.0208	0.00100	0.0232	0	89.6	69	132			
Benzene	0.0227	0.00100	0.0232	0	97.8	81	122			
Carbon tetrachloride	0.0239	0.00100	0.0232	0	103	66	138			
Chloroform	0.0207	0.00100	0.0232	0	89.2	69	128			
Ethylbenzene	0.0228	0.00100	0.0232	0	98.4	80	120			
Ethylene dibromide	0.0240	0.00100	0.0232	0	103	80	121			
Methylene chloride	0.0214	0.00250	0.0232	0	92.2	63	137			
Tetrachloroethylene	0.0230	0.00200	0.0232	0	99.4	66	128			
Toluene	0.0225	0.00200	0.0232	0	97.1	80	120			
Trichloroethylene	0.0242	0.00200	0.0232	0	104	70	127			
Vinyl chloride	0.0224	0.00100	0.0232	0	96.4	50	134			
Total Xylenes	0.0676	0.00100	0.0696	0	97.1	80	120			
Surr: 1,2-Dichloroethane-d4	177		200.0		88.5	72	119			
Surr: 4-Bromofluorobenzene	202		200.0		101	76	119			
Surr: Dibromofluoromethane	192		200.0		95.9	85	115			
Surr: Toluene-d8	204		200.0		102	81	120			

Sample ID: MB-57380	Batch ID: 57380	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 11:56:00 AM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	0.00100								
1,1,2,2-Tetrachloroethane	ND	0.00100								
1,1,2-Trichloroethane	ND	0.00100								
1,1-Dichloroethane	ND	0.00100								
1,1-Dichloroethylene	ND	0.00100								
1,2-Dichloroethane	ND	0.00100								
Benzene	ND	0.00100								
Carbon tetrachloride	ND	0.00100								
Chloroform	ND	0.00100								
Ethylbenzene	ND	0.00100								
Ethylene dibromide	ND	0.00100								
Methylene chloride	ND	0.00250								
Tetrachloroethylene	ND	0.00200								

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
 Work Order: 1305076
 Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS7_130510A**

Sample ID: MB-57380	Batch ID: 57380	TestNo: SW8260C	Units: mg/L
SampType: MBLK	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 11:56:00 AM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	0.00200								
Trichloroethylene	ND	0.00200								
Vinyl chloride	ND	0.00100								
Total Xylenes	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	191		200.0		95.6	72	119			
Surr: 4-Bromofluorobenzene	215		200.0		107	76	119			
Surr: Dibromofluoromethane	205		200.0		102	85	115			
Surr: Toluene-d8	199		200.0		99.5	81	120			

Sample ID: 1305120-02AMS	Batch ID: 57380	TestNo: SW8260C	Units: mg/L
SampType: MS	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 7:12:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0258	0.00100	0.0232	0	111	67	132			
1,1,2,2-Tetrachloroethane	0.0255	0.00100	0.0232	0	110	63	128			
1,1,2-Trichloroethane	0.0259	0.00100	0.0232	0	112	75	125			
1,1-Dichloroethane	0.0240	0.00100	0.0232	0	103	69	133			
1,1-Dichloroethylene	0.0218	0.00100	0.0232	0	93.8	68	130			
1,2-Dichloroethane	0.0255	0.00100	0.0232	0	110	68	132			
Benzene	0.0254	0.00100	0.0232	0	109	81	120			
Carbon tetrachloride	0.0250	0.00100	0.0232	0	108	66	138			
Chloroform	0.0256	0.00100	0.0232	0	111	69	128			
Ethylbenzene	0.0255	0.00100	0.0232	0	110	80	120			
Ethylene dibromide	0.0255	0.00100	0.0232	0	110	80	121			
Methylene chloride	0.0255	0.00250	0.0232	0	110	63	137			
Tetrachloroethylene	0.0242	0.00200	0.0232	0	104	66	128			
Toluene	0.0262	0.00200	0.0232	0.000820	109	80	120			
Trichloroethylene	0.0262	0.00200	0.0232	0	113	70	127			
Vinyl chloride	0.0259	0.00100	0.0232	0	112	50	134			
Total Xylenes	0.0774	0.00100	0.0696	0	111	80	120			
Surr: 1,2-Dichloroethane-d4	197		200.0		98.4	72	119			
Surr: 4-Bromofluorobenzene	198		200.0		99.0	76	119			
Surr: Dibromofluoromethane	207		200.0		103	85	115			
Surr: Toluene-d8	202		200.0		101	81	120			

Sample ID: 1305120-02AMSD	Batch ID: 57380	TestNo: SW8260C	Units: mg/L
SampType: MSD	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 7:36:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0222	0.00100	0.0232	0	95.6	67	132	15.0	20	
1,1,2,2-Tetrachloroethane	0.0247	0.00100	0.0232	0	107	63	128	3.14	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130510A

Sample ID: 1305120-02AMSD	Batch ID: 57380	TestNo: SW8260C	Units: mg/L
SampType: MSD	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 7:36:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	0.0240	0.00100	0.0232	0	103	75	125	7.74	20	
1,1-Dichloroethane	0.0202	0.00100	0.0232	0	86.9	69	133	17.3	20	
1,1-Dichloroethylene	0.0182	0.00100	0.0232	0	78.4	68	130	17.8	20	
1,2-Dichloroethane	0.0220	0.00100	0.0232	0	95.0	68	132	14.6	20	
Benzene	0.0228	0.00100	0.0232	0	98.1	81	120	10.8	20	
Carbon tetrachloride	0.0231	0.00100	0.0232	0	99.4	66	138	7.95	20	
Chloroform	0.0213	0.00100	0.0232	0	91.8	69	128	18.6	20	
Ethylbenzene	0.0229	0.00100	0.0232	0	98.8	80	120	10.5	20	
Ethylene dibromide	0.0240	0.00100	0.0232	0	104	80	121	6.02	20	
Methylene chloride	0.0214	0.00250	0.0232	0	92.5	63	137	17.3	20	
Tetrachloroethylene	0.0223	0.00200	0.0232	0	96.1	66	128	8.18	20	
Toluene	0.0227	0.00200	0.0232	0.000820	94.4	80	120	14.0	20	
Trichloroethylene	0.0239	0.00200	0.0232	0	103	70	127	9.15	20	
Vinyl chloride	0.0209	0.00100	0.0232	0	90.1	50	134	21.3	20	R
Total Xylenes	0.0689	0.00100	0.0696	0	99.0	80	120	11.7	20	
Surr: 1,2-Dichloroethane-d4	187		200.0		93.3	72	119	0	0	
Surr: 4-Bromofluorobenzene	203		200.0		102	76	119	0	0	
Surr: Dibromofluoromethane	191		200.0		95.3	85	115	0	0	
Surr: Toluene-d8	204		200.0		102	81	120	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130510A

Sample ID: ICV-130510	Batch ID: R66337	TestNo: SW8260C	Units: mg/L
SampType: ICV	Run ID: GCMS7_130510A	Analysis Date: 5/10/2013 11:08:00 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.0451	0.00100	0.0464	0	97.2	80	120			
1,1,2,2-Tetrachloroethane	0.0523	0.00100	0.0464	0	113	80	120			
1,1,2-Trichloroethane	0.0506	0.00100	0.0464	0	109	80	120			
1,1-Dichloroethane	0.0380	0.00100	0.0464	0	81.8	80	120			
1,1-Dichloroethylene	0.0361	0.00100	0.0464	0	77.8	80	120			S
1,2-Dichloroethane	0.0416	0.00100	0.0464	0	89.7	80	120			
Benzene	0.0460	0.00100	0.0464	0	99.2	80	120			
Carbon tetrachloride	0.0489	0.00100	0.0464	0	105	80	120			
Chloroform	0.0407	0.00100	0.0464	0	87.8	80	120			
Ethylbenzene	0.0464	0.00100	0.0464	0	100	80	120			
Ethylene dibromide	0.0529	0.00100	0.0464	0	114	80	120			
Methylene chloride	0.0423	0.00250	0.0464	0	91.3	80	120			
Tetrachloroethylene	0.0476	0.00200	0.0464	0	103	80	120			
Toluene	0.0450	0.00200	0.0464	0	97.0	80	120			
Trichloroethylene	0.0496	0.00200	0.0464	0	107	80	120			
Vinyl chloride	0.0391	0.00100	0.0464	0	84.3	80	120			
Total Xylenes	0.139	0.00100	0.139	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	172		200.0		86.1	72	119			
Surr: 4-Bromofluorobenzene	199		200.0		99.4	76	119			
Surr: Dibromofluoromethane	182		200.0		91.0	85	115			
Surr: Toluene-d8	204		200.0		102	81	120			

Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130507A

The QC data in batch 57287 applies to the following samples: 1305076-01F, 1305076-02F, 1305076-03F, 1305076-04F, 1305076-05D

Sample ID: LCS-57287	Batch ID: 57287	TestNo: E300	Units: mg/L							
SampType: LCS	Run ID: IC2_130507A	Analysis Date: 5/7/2013 9:34:19 AM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	1.00	10.00	0	104	90	110			
Fluoride	4.08	0.400	4.000	0	102	90	110			
Nitrate-N	5.15	0.500	5.000	0	103	90	110			
Sulfate	30.6	3.00	30.00	0	102	90	110			

Sample ID: LCSD-57287	Batch ID: 57287	TestNo: E300	Units: mg/L							
SampType: LCSD	Run ID: IC2_130507A	Analysis Date: 5/7/2013 9:48:54 AM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	1.00	10.00	0	104	90	110	0.523	20	
Fluoride	4.10	0.400	4.000	0	103	90	110	0.430	20	
Nitrate-N	5.24	0.500	5.000	0	105	90	110	1.62	20	
Sulfate	30.6	3.00	30.00	0	102	90	110	0.095	20	

Sample ID: MB-57287	Batch ID: 57287	TestNo: E300	Units: mg/L							
SampType: MBLK	Run ID: IC2_130507A	Analysis Date: 5/7/2013 10:03:28 AM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.00								
Fluoride	ND	0.400								
Nitrate-N	ND	0.500								
Sulfate	ND	3.00								

Sample ID: 1305033-05D MS	Batch ID: 57287	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC2_130507A	Analysis Date: 5/7/2013 11:04:52 AM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	254	10.0	200.0	57.50	98.5	90	110			
Fluoride	240	4.00	200.0	49.65	95.0	90	110			

Sample ID: 1305033-05D MSD	Batch ID: 57287	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC2_130507A	Analysis Date: 5/7/2013 11:19:27 AM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	260	10.0	200.0	57.50	101	90	110	2.01	20	
Fluoride	244	4.00	200.0	49.65	97.2	90	110	1.85	20	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130507A

Sample ID: 1305076-05D MS		Batch ID: 57287		TestNo: E300		Units: mg/L				
SampType: MS		Run ID: IC2_130507A		Analysis Date: 5/7/2013 5:11:22 PM		Prep Date: 5/7/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	606	10.0	200.0	435.5	85.4	90	110			S
Sulfate	776	30.0	200.0	561.4	107	90	110			

Sample ID: 1305076-05D MSD		Batch ID: 57287		TestNo: E300		Units: mg/L				
SampType: MSD		Run ID: IC2_130507A		Analysis Date: 5/7/2013 5:25:57 PM		Prep Date: 5/7/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	606	10.0	200.0	435.5	85.0	90	110	0.145	20	S
Sulfate	773	30.0	200.0	561.4	106	90	110	0.427	20	

Sample ID: 1305076-05D MS		Batch ID: 57287		TestNo: E300		Units: mg/L				
SampType: MS		Run ID: IC2_130507A		Analysis Date: 5/7/2013 7:22:32 PM		Prep Date: 5/7/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	17.5	0.400	20.00	1.025	82.3	90	110			S
Nitrate-N	3.75	0.500	4.516	0	83.0	90	110			S

Sample ID: 1305076-05D MSD		Batch ID: 57287		TestNo: E300		Units: mg/L				
SampType: MSD		Run ID: IC2_130507A		Analysis Date: 5/7/2013 7:37:07 PM		Prep Date: 5/7/2013				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	17.4	0.400	20.00	1.025	81.9	90	110	0.492	20	S
Nitrate-N	3.75	0.500	4.516	0	83.0	90	110	0.029	20	S

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_130507A

Sample ID: ICV-130507	Batch ID: R66228	TestNo: E300	Units: mg/L							
SampType: ICV	Run ID: IC2_130507A	Analysis Date: 5/7/2013 9:06:12 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	27.1	1.00	25.00	0	108	90	110			
Fluoride	10.6	0.400	10.00	0	106	90	110			
Nitrate-N	13.5	0.500	12.50	0	108	90	110			
Sulfate	81.0	3.00	75.00	0	108	90	110			

Sample ID: CCV1-130507	Batch ID: R66228	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_130507A	Analysis Date: 5/7/2013 12:33:38 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.94	1.00	10.00	0	99.4	90	110			
Fluoride	4.05	0.400	4.000	0	101	90	110			
Nitrate-N	4.78	0.500	5.000	0	95.6	90	110			
Sulfate	30.6	3.00	30.00	0	102	90	110			

Sample ID: CCV2-130507	Batch ID: R66228	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_130507A	Analysis Date: 5/7/2013 4:11:34 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	1.00	10.00	0	104	90	110			
Fluoride	4.08	0.400	4.000	0	102	90	110			
Nitrate-N	5.12	0.500	5.000	0	102	90	110			
Sulfate	30.7	3.00	30.00	0	102	90	110			

Sample ID: CCV3-130507	Batch ID: R66228	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_130507A	Analysis Date: 5/7/2013 7:07:58 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.4	1.00	10.00	0	104	90	110			
Fluoride	4.09	0.400	4.000	0	102	90	110			
Nitrate-N	5.23	0.500	5.000	0	105	90	110			
Sulfate	30.6	3.00	30.00	0	102	90	110			

Sample ID: CCV4-130507	Batch ID: R66228	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC2_130507A	Analysis Date: 5/7/2013 8:06:16 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4.07	0.400	4.000	0	102	90	110			
Nitrate-N	4.80	0.500	5.000	0	96.0	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_130507A

The QC data in batch 57307 applies to the following samples: 1305076-01F, 1305076-02F, 1305076-03F, 1305076-04F, 1305076-05D

Sample ID: 1305076-01F DUP	Batch ID: 57307	TestNo: M4500-H+ B	Units: pH units
SampType: DUP	Run ID: TITRATOR_130507A	Analysis Date: 5/7/2013 2:04:00 PM	Prep Date: 5/7/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.11	0	0	7.090				0.282		5

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_130507A

Sample ID: ICV-130507	Batch ID: R66229	TestNo: M4500-H+ B	Units: pH units							
SampType: ICV	Run ID: TITRATOR_130507A	Analysis Date: 5/7/2013 2:01:00 PM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.0	0	10.00	0	100	99	101			

Sample ID: CCV-130507	Batch ID: R66229	TestNo: M4500-H+ B	Units: pH units							
SampType: CCV	Run ID: TITRATOR_130507A	Analysis Date: 5/7/2013 2:12:00 PM	Prep Date: 5/7/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130513B

The QC data in batch 57377 applies to the following samples: 1305076-01C, 1305076-02C, 1305076-03C, 1305076-04C, 1305076-05C

Sample ID: MB-57377	Batch ID: 57377	TestNo: M4500-CN E	Units: mg/L							
SampType: MBLK	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 2:13:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	ND	0.0200								

Sample ID: LCS-57377	Batch ID: 57377	TestNo: M4500-CN E	Units: mg/L							
SampType: LCS	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 2:13:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.183	0.0200	0.2000	0	91.7	85	115			

Sample ID: 1305081-01AMS	Batch ID: 57377	TestNo: M4500-CN E	Units: mg/L							
SampType: MS	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 2:13:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.177	0.0200	0.2000	0	88.6	79	114			

Sample ID: 1305081-01AMSD	Batch ID: 57377	TestNo: M4500-CN E	Units: mg/L							
SampType: MSD	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 2:13:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	0.186	0.0200	0.2000	0	93.2	79	114	4.95	20	

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: Larson & Associates
Work Order: 1305076
Project: R360 Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_130513B

Sample ID: ICV-130513	Batch ID: R66356	TestNo: M4500-CN E	Units: mg/L							
SampType: ICV	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 10:32:00 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.0955	0.0200	0.1000	0	95.5	85	115			
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Sample ID: CCV1-130513	Batch ID: R66356	TestNo: M4500-CN E	Units: mg/L							
SampType: CCV	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 2:16:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.202	0.0200	0.2000	0	101	85	115			
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Sample ID: CCV2-130513	Batch ID: R66356	TestNo: M4500-CN E	Units: mg/L							
SampType: CCV	Run ID: UV/VIS_2_130513B	Analysis Date: 5/13/2013 2:21:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Cyanide, Total	0.214	0.0200	0.2000	0	107	85	115			
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Qualifiers:	<p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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June 06, 2013

Mark Larson
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: R360 Artesia Landfarm

Order No.: 1306004

Dear Mark Larson:

DHL Analytical, Inc. received 5 sample(s) on 6/4/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read 'John DuPont', written in a cursive style.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-10



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2300 Double Creek Dr. ■ Round Rock, TX 78664
 Phone (512) 388-8222 ■ FAX (512) 388-8229
 Web: www.dhlanalytical.com
 E-Mail: login@dhlanalytical.com



№ 58673
CHAIN-OF-CUSTODY

CLIENT: LAE
 ADDRESS: 507 N Marienfeld Ste 200
 PHONE: 432 687 0901 FAX/E-MAIL: CWoolf@laenvironmental.com
 DATA REPORTED TO: Coty Woolf
 ADDITIONAL REPORT COPIES TO:

DATE: 5-6-13 PAGE 1 OF 1
 PO #: _____ DHL WORK ORDER #: 1235276-1326004
 PROJECT LOCATION OR NAME: R360 Landfarm
 CLIENT PROJECT #: 11-0109-09 COLLECTOR: [Signature]

Authorize 5% surcharge for TRRP Report?
 Yes No

S=SOIL P=PAINT
 W=WATER SL=SLUDGE
 A=AIR O=OTHER
 L=LIQUID SO=SOLID

Field Sample I.D. DHL Lab # Date Time Matrix Container Type # of Containers

PRESERVATION

HCl HNO₃ H₂SO₄ NaOH ICE UNPRESERVED

ANALYSES

8TEX MTBE [METHOD 8021]
 TPH 1005 TPH 1006 HOLD 1006
 GRO [METHOD 8015] DRO [METHOD 8105]
 VOC 8260 VOC 624 VOC 8260/5025
 SVOC 8270 PAH 8270 HOLD PAH SVOC 625
 8081 PEST 8082 PCB 8270 PEST
 8270 O-P PEST 8082 PCB 8270 PCB
 8321 HERB METALS 5 2008 DISS. METALS
 METALS 6020 METALS 5 2008 DISS. METALS
 RCRA TX11
 PHO HEX CHROM ALKALINITY
 TCLP SVOC ANIONS
 TCLP-METALS VOC PEST HERB
 RCRA 8 TX-11 PBI
 TDS TSS % MOISTURE CYANIDE
 ALK, Mg, Ca, K, Ni

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
MW-4	01	5-6-13	1200	L		10	X	X	X	X			X	X
MW-6	02		1230	L		10	X	X	X	X			X	X
MW-5	03		1300	L		10	X	X	X	X			X	X
MW-2	04		1330	L		8	X	X	X	X			X	X
S-40 MW-240	05		1400	L		6	X	X	X	X			X	X
W-40 MW-5100	06		1430	L		2	X	X	X	X			X	X
AV-40 MW-1040	07		1500	L		2	X	X	X	X			X	X
Trip Blank	08					22							X	See attached 1/4

TOTAL

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 5-6-13 600pm RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) [Signature] DATE/TIME 5/7/13 830 RECEIVED BY: (Signature) [Signature]

RELINQUISHED BY: (Signature) _____ DATE/TIME _____ RECEIVED BY: (Signature) _____

DHL DISPOSAL @ \$5.00 each Return

TURN AROUND TIME
 RUSH CALL FIRST
 1 DAY CALL FIRST
 2 DAY
 NORMAL
 OTHER

LABORATORY USE ONLY:
 RECEIVING TEMP: 47.4.3 THERM #: 57
 CUSTODY SEALS: BROKEN INTACT NOT USED
 CARRIER BILL # [Signature]
 APC DELIVERY
 HAND DELIVERED

Sample Receipt Checklist

Client Name Larson & Associates

Date Received: 6/4/2013

Work Order Number 1306004

Received by JB

Checklist completed by: [Signature] 6/4/2013
Signature Date

Reviewed by: [Initials] 6/4/2013
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 4.7 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 7179
Adjusted? no Checked by [Signature]
- Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? Yes No NA LOT #
Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Client is aware alk is out of hold
proceed with analysis

Corrective Action _____

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1306004

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

- Method SW6020A - Metals Analysis
- Method M2320 B - Alkalinity Analysis

LOG IN

The samples were added on and log-in performed on 6/4/13. A total of 5 samples were received. For Alkalinity analysis the samples were added on outside of HoldTime. Proceeded with analysis as per the client. All Alkalinity results are flagged with a "C" to designate this.

METALS ANALYSIS

For Metals analysis performed on 6/4/13 the matrix spike and matrix spike duplicate recoveries were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Lab Order: 1306004

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1306004-01	MW-4		05/06/13 12:00 PM	6/4/2013
1306004-02	MW-6		05/06/13 12:30 PM	6/4/2013
1306004-03	MW-5		05/06/13 01:00 PM	6/4/2013
1306004-04	MW-2		05/06/13 01:30 PM	6/4/2013
1306004-05	MW-E40		05/06/13 02:00 PM	6/4/2013

Lab Order: 1306004
Client: Larson & Associates
Project: R360 Artesia Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1306004-01A	MW-4	05/06/13 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
	MW-4	05/06/13 12:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
1306004-01B	MW-4	05/06/13 12:00 PM	Aqueous	M2320 B	Alkalinity Preparation	06/04/13 01:45 PM	57766
1306004-02A	MW-6	05/06/13 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
	MW-6	05/06/13 12:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
1306004-02B	MW-6	05/06/13 12:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/04/13 01:45 PM	57766
1306004-03A	MW-5	05/06/13 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
	MW-5	05/06/13 01:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
1306004-03B	MW-5	05/06/13 01:00 PM	Aqueous	M2320 B	Alkalinity Preparation	06/04/13 01:45 PM	57766
1306004-04A	MW-2	05/06/13 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
	MW-2	05/06/13 01:30 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
1306004-04B	MW-2	05/06/13 01:30 PM	Aqueous	M2320 B	Alkalinity Preparation	06/04/13 01:45 PM	57766
1306004-05A	MW-E40	05/06/13 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
	MW-E40	05/06/13 02:00 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/10/13 07:34 AM	57754
1306004-05B	MW-E40	05/06/13 02:00 PM	Aqueous	M2320 B	Alkalinity Preparation	06/04/13 01:45 PM	57766

Lab Order: 1306004
 Client: Larson & Associates
 Project: R360 Artesia Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1306004-01A	MW-4	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	10	06/04/13 02:32 PM	ICP-MS2_130604A
	MW-4	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	25	06/04/13 02:09 PM	ICP-MS2_130604A
1306004-01B	MW-4	Aqueous	M2320 B	Alkalinity	57766	1	06/04/13 02:09 PM	TITRATOR_130604C
1306004-02A	MW-6	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	10	06/04/13 02:38 PM	ICP-MS2_130604A
	MW-6	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	25	06/04/13 01:57 PM	ICP-MS2_130604A
1306004-02B	MW-6	Aqueous	M2320 B	Alkalinity	57766	1	06/04/13 02:13 PM	TITRATOR_130604C
1306004-03A	MW-5	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	10	06/04/13 02:44 PM	ICP-MS2_130604A
	MW-5	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	25	06/04/13 02:15 PM	ICP-MS2_130604A
1306004-03B	MW-5	Aqueous	M2320 B	Alkalinity	57766	1	06/04/13 02:17 PM	TITRATOR_130604C
1306004-04A	MW-2	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	10	06/04/13 02:49 PM	ICP-MS2_130604A
	MW-2	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	25	06/04/13 02:20 PM	ICP-MS2_130604A
1306004-04B	MW-2	Aqueous	M2320 B	Alkalinity	57766	1	06/04/13 02:22 PM	TITRATOR_130604C
1306004-05A	MW-E40	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	10	06/04/13 02:55 PM	ICP-MS2_130604A
	MW-E40	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	57754	25	06/04/13 02:26 PM	ICP-MS2_130604A
1306004-05B	MW-E40	Aqueous	M2320 B	Alkalinity	57766	1	06/04/13 02:39 PM	TITRATOR_130604C

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1306004

Client Sample ID: MW-4
Lab ID: 1306004-01
Collection Date: 05/06/13 12:00 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Calcium	334	2.50	7.50		mg/L	25	06/04/13 02:09 PM
Magnesium	246	2.50	7.50		mg/L	25	06/04/13 02:09 PM
Potassium	14.4	1.00	3.00		mg/L	10	06/04/13 02:32 PM
Sodium	432	2.50	7.50		mg/L	25	06/04/13 02:09 PM
ALKALINITY		M2320 B			Analyst: JBC		
Alkalinity, Bicarbonate (As CaCO3)	428	25.0	50.0	C	mg/L	1	06/04/13 02:09 PM
Alkalinity, Carbonate (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:09 PM
Alkalinity, Hydroxide (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:09 PM
Alkalinity, Total (As CaCO3)	428	25.0	50.0	C	mg/L	1	06/04/13 02:09 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1306004

Client Sample ID: MW-6
Lab ID: 1306004-02
Collection Date: 05/06/13 12:30 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Calcium	316	2.50	7.50		mg/L	25	06/04/13 01:57 PM
Magnesium	273	2.50	7.50		mg/L	25	06/04/13 01:57 PM
Potassium	18.0	1.00	3.00		mg/L	10	06/04/13 02:38 PM
Sodium	424	2.50	7.50		mg/L	25	06/04/13 01:57 PM
ALKALINITY		M2320 B			Analyst: JBC		
Alkalinity, Bicarbonate (As CaCO3)	307	25.0	50.0	C	mg/L	1	06/04/13 02:13 PM
Alkalinity, Carbonate (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:13 PM
Alkalinity, Hydroxide (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:13 PM
Alkalinity, Total (As CaCO3)	307	25.0	50.0	C	mg/L	1	06/04/13 02:13 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1306004

Client Sample ID: MW-5
Lab ID: 1306004-03
Collection Date: 05/06/13 01:00 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Calcium	416	2.50	7.50		mg/L	25	06/04/13 02:15 PM
Magnesium	338	2.50	7.50		mg/L	25	06/04/13 02:15 PM
Potassium	18.2	1.00	3.00		mg/L	10	06/04/13 02:44 PM
Sodium	446	2.50	7.50		mg/L	25	06/04/13 02:15 PM
ALKALINITY		M2320 B			Analyst: JBC		
Alkalinity, Bicarbonate (As CaCO3)	376	25.0	50.0	C	mg/L	1	06/04/13 02:17 PM
Alkalinity, Carbonate (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:17 PM
Alkalinity, Hydroxide (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:17 PM
Alkalinity, Total (As CaCO3)	376	25.0	50.0	C	mg/L	1	06/04/13 02:17 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1306004

Client Sample ID: MW-2
Lab ID: 1306004-04
Collection Date: 05/06/13 01:30 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Calcium	340	2.50	7.50		mg/L	25	06/04/13 02:20 PM
Magnesium	209	1.00	3.00		mg/L	10	06/04/13 02:49 PM
Potassium	10.0	1.00	3.00		mg/L	10	06/04/13 02:49 PM
Sodium	409	2.50	7.50		mg/L	25	06/04/13 02:20 PM
ALKALINITY		M2320 B			Analyst: JBC		
Alkalinity, Bicarbonate (As CaCO3)	285	25.0	50.0	C	mg/L	1	06/04/13 02:22 PM
Alkalinity, Carbonate (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:22 PM
Alkalinity, Hydroxide (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:22 PM
Alkalinity, Total (As CaCO3)	285	25.0	50.0	C	mg/L	1	06/04/13 02:22 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 06-Jun-13

CLIENT: Larson & Associates
Project: R360 Artesia Landfarm
Project No: 11-0109-09
Lab Order: 1306004

Client Sample ID: MW-E40
Lab ID: 1306004-05
Collection Date: 05/06/13 02:00 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - WATER		SW6020A			Analyst: SW		
Calcium	265	2.50	7.50		mg/L	25	06/04/13 02:26 PM
Magnesium	179	1.00	3.00		mg/L	10	06/04/13 02:55 PM
Potassium	11.2	1.00	3.00		mg/L	10	06/04/13 02:55 PM
Sodium	230	1.00	3.00		mg/L	10	06/04/13 02:55 PM
ALKALINITY		M2320 B			Analyst: JBC		
Alkalinity, Bicarbonate (As CaCO3)	613	25.0	50.0	C	mg/L	1	06/04/13 02:39 PM
Alkalinity, Carbonate (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:39 PM
Alkalinity, Hydroxide (As CaCO3)	ND	25.0	50.0	C	mg/L	1	06/04/13 02:39 PM
Alkalinity, Total (As CaCO3)	613	25.0	50.0	C	mg/L	1	06/04/13 02:39 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: Larson & Associates

Work Order: 1306004

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130604A

The QC data in batch 57754 applies to the following samples: 1306004-01A, 1306004-02A, 1306004-03A, 1306004-04A, 1306004-05A

Sample ID: MB-57754	Batch ID: 57754	TestNo: SW6020A	Units: mg/L
SampType: MBLK	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 1:34:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	0.300								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Sodium	ND	0.300								

Sample ID: LCS-57754	Batch ID: 57754	TestNo: SW6020A	Units: mg/L
SampType: LCS	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 1:40:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	5.28	0.300	5.00	0	106	80	120			
Magnesium	5.27	0.300	5.00	0	105	80	120			
Potassium	5.17	0.300	5.00	0	103	80	120			
Sodium	5.23	0.300	5.00	0	105	80	120			

Sample ID: LCS-57754	Batch ID: 57754	TestNo: SW6020A	Units: mg/L
SampType: LCS	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 1:46:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	5.05	0.300	5.00	0	101	80	120	4.32	15	
Magnesium	5.16	0.300	5.00	0	103	80	120	2.17	15	
Potassium	5.07	0.300	5.00	0	101	80	120	1.85	15	
Sodium	5.16	0.300	5.00	0	103	80	120	1.50	15	

Sample ID: 1306004-02A SD	Batch ID: 57754	TestNo: SW6020A	Units: mg/L
SampType: SD	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 2:03:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	312	37.5	0	316				1.31	10	
Magnesium	274	37.5	0	273				0.548	10	
Potassium	18.6	37.5	0	18.2				2.32	10	
Sodium	418	37.5	0	424				1.60	10	

Sample ID: 1306004-02A PDS	Batch ID: 57754	TestNo: SW6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 3:01:00 PM	Prep Date: 5/10/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	435	7.50	125	316	95.2	80	120			
Magnesium	419	7.50	125	273	117	80	120			
Potassium	147	7.50	125	18.2	103	80	120			

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1306004
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130604A

Sample ID: 1306004-02A PDS	Batch ID: 57754	TestNo: SW6020A	Units: mg/L							
SampType: PDS	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 3:01:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	561	7.50	125	424	109	80	120			

Sample ID: 1306004-02A MS	Batch ID: 57754	TestNo: SW6020A	Units: mg/L							
SampType: MS	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 3:07:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	314	7.50	5.00	316	-45.0	80	120			S
Magnesium	276	7.50	5.00	273	60.0	80	120			S
Potassium	23.2	7.50	5.00	18.2	100	80	120			
Sodium	426	7.50	5.00	424	40.0	80	120			S

Sample ID: 1306004-02A MSD	Batch ID: 57754	TestNo: SW6020A	Units: mg/L							
SampType: MSD	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 3:12:00 PM	Prep Date: 5/10/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	315	7.50	5.00	316	-25.0	80	120	0.318	15	S
Magnesium	269	7.50	5.00	273	-75.0	80	120	2.48	15	S
Potassium	22.5	7.50	5.00	18.2	85.4	80	120	3.26	15	
Sodium	420	7.50	5.00	424	-90.0	80	120	1.54	15	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1306004
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130604A

Sample ID: ILCVL-130604	Batch ID: R66749	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 1:22:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0838	0.300	0.100	0	83.8	70	130			
Magnesium	0.108	0.300	0.100	0	108	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Sodium	0.103	0.300	0.100	0	103	70	130			

Sample ID: LCVL1-130604	Batch ID: R66749	TestNo: SW6020A	Units: mg/L							
SampType: LCVL	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 3:58:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.0702	0.300	0.100	0	70.2	70	130			
Magnesium	0.103	0.300	0.100	0	103	70	130			
Potassium	0.0930	0.300	0.100	0	93.0	70	130			
Sodium	0.0953	0.300	0.100	0	95.3	70	130			

Sample ID: ICV1-130604	Batch ID: R66749	TestNo: SW6020A	Units: mg/L							
SampType: ICV	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 1:05:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2.54	0.300	2.50	0	102	90	110			
Magnesium	2.57	0.300	2.50	0	103	90	110			
Potassium	2.54	0.300	2.50	0	102	90	110			
Sodium	2.57	0.300	2.50	0	103	90	110			

Sample ID: CCV1-130604	Batch ID: R66749	TestNo: SW6020A	Units: mg/L							
SampType: CCV	Run ID: ICP-MS2_130604A	Analysis Date: 6/4/2013 3:30:00 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	5.27	0.300	5.00	0	105	90	110			
Magnesium	5.32	0.300	5.00	0	106	90	110			
Potassium	5.19	0.300	5.00	0	104	90	110			
Sodium	5.36	0.300	5.00	0	107	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1306004

Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_130604C

The QC data in batch 57766 applies to the following samples: 1306004-01B, 1306004-02B, 1306004-03B, 1306004-04B, 1306004-05B

Sample ID: LCS-57766	Batch ID: 57766	TestNo: M2320 B	Units: mg/L							
SampType: LCS	Run ID: TITRATOR_130604C	Analysis Date: 6/4/2013 1:48:00 PM	Prep Date: 6/4/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	52.1	20.0	50.00	0	104	74	129			

Sample ID: MB-57766	Batch ID: 57766	TestNo: M2320 B	Units: mg/L							
SampType: MBLK	Run ID: TITRATOR_130604C	Analysis Date: 6/4/2013 1:51:00 PM	Prep Date: 6/4/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	20.0								
Alkalinity, Carbonate (As CaCO3)	ND	20.0								
Alkalinity, Hydroxide (As CaCO3)	ND	20.0								
Alkalinity, Total (As CaCO3)	ND	20.0								

Sample ID: 1306002-01D DUP	Batch ID: 57766	TestNo: M2320 B	Units: mg/L							
SampType: DUP	Run ID: TITRATOR_130604C	Analysis Date: 6/4/2013 1:57:00 PM	Prep Date: 6/4/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	74.3	25.0	0	75.30				1.34	20	
Alkalinity, Carbonate (As CaCO3)	0	25.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	0	25.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	74.3	25.0	0	75.30				1.34	20	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1306004
Project: R360 Artesia Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_130604C

Sample ID: ICV-130604	Batch ID: R66742	TestNo: M2320 B	Units: mg/L
SampType: ICV	Run ID: TITRATOR_130604C	Analysis Date: 6/4/2013 1:45:00 PM	Prep Date: 6/4/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	8.48	20.0	0							
Alkalinity, Carbonate (As CaCO3)	89.9	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.4	20.0	100.0	0	98.4	98	102			

Sample ID: CCV1-130604	Batch ID: R66742	TestNo: M2320 B	Units: mg/L
SampType: CCV	Run ID: TITRATOR_130604C	Analysis Date: 6/4/2013 2:28:00 PM	Prep Date: 6/4/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	19.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	81.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID: CCV2-130604	Batch ID: R66742	TestNo: M2320 B	Units: mg/L
SampType: CCV	Run ID: TITRATOR_130604C	Analysis Date: 6/4/2013 2:44:00 PM	Prep Date: 6/4/2013

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	17.4	20.0	0							
Alkalinity, Carbonate (As CaCO3)	80.6	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	0	20.0	0							
Alkalinity, Total (As CaCO3)	98.1	20.0	100.0	0	98.1	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified



June 24, 2013

Coty Woolf
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701
TEL: (432) 687-0901
FAX (432) 687-0456
RE: Artesia Aeration Landfarm

Order No.: 1306190

Dear Coty Woolf:

DHL Analytical, Inc. received 1 sample(s) on 6/21/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-11



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2300 Double Creek Dr. ■ Round Rock, TX 78664
 Phone (512) 388-8222 ■ FAX (512) 388-8229
 Web: www.dhlanalytical.com
 E-Mail: login@dhlanalytical.com



No 54990
CHAIN-OF-CUSTODY

CLIENT: LARSON & ASSOCIATES
 ADDRESS: _____
 PHONE: _____ FAX/E-MAIL: _____
 DATA REPORTED TO: COTY WOOLF
 ADDITIONAL REPORT COPIES TO: _____

DATE: 6-19-13 PAGE 1 OF 1
 PO #: _____ DHL WORK ORDER #: 1306190
 PROJECT LOCATION OR NAME: ARTESIA AERATION LANDFARM
 CLIENT PROJECT #: 11-0109-09 COLLECTOR: R. BROOKS

Authorize 5% surcharge for TRRP Report? <input type="checkbox"/> Yes <input type="checkbox"/> No	S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR O=OTHER L=LIQUID SO=SOLID	PRESERVATION		# of Containers HCl HNO ₃ H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ICE UNPRESERVED	ANALYSES BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> (METHOD 8021) TPH 1005 <input type="checkbox"/> TPH 1006 <input type="checkbox"/> HOLD 1006 <input type="checkbox"/> GRO (METHOD 8015) <input type="checkbox"/> DRO (METHOD 8105) <input type="checkbox"/> VOC 8260 <input type="checkbox"/> VOC 624 <input type="checkbox"/> VOC 8260/5035 <input type="checkbox"/> SVOC 8270 <input type="checkbox"/> PAH 8270 <input type="checkbox"/> HOLD PAH <input type="checkbox"/> SVOC 8230 <input type="checkbox"/> 8081 PEST <input type="checkbox"/> 8082 PCB <input type="checkbox"/> 8270 PCB <input type="checkbox"/> 8270 C-P PEST <input type="checkbox"/> 8082 PCB <input type="checkbox"/> 8270 PCB <input type="checkbox"/> METALS 6020 <input type="checkbox"/> METALS 5200 <input type="checkbox"/> DES. METALS <input type="checkbox"/> PH <input type="checkbox"/> HEX CHROM <input type="checkbox"/> ALKALINITY <input type="checkbox"/> CHLORIDE <input type="checkbox"/> ANIONS <input type="checkbox"/> TCLP-METALS <input type="checkbox"/> VOC <input type="checkbox"/> PEST <input type="checkbox"/> RC10 <input type="checkbox"/> TOX <input type="checkbox"/> RCRA 8 <input type="checkbox"/> TX-11 <input type="checkbox"/> P6 <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> % MOISTURE <input type="checkbox"/> CYANIDE <input type="checkbox"/> <u>CHRYM / W</u>
Field Sample I.D.	DHL Lab #	Date	Time		

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO ₃	H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/>	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
<u>CLIPPINGS</u>	<u>01</u>	<u>6-19-13</u>	<u>1430</u>	<u>S</u>	<u>402</u>	<u>1</u>					<input checked="" type="checkbox"/>		

TOTAL	RELINQUISHED BY: (Signature) <u>R.W. Brooks</u> DATE/TIME <u>6-20-13 10:00</u> RELINQUISHED BY: (Signature) <u>Reneeta</u> DATE/TIME <u>6/24/13</u> RELINQUISHED BY: (Signature) _____ DATE/TIME _____	RECEIVED BY: (Signature) <u>Reneeta</u> RECEIVED BY: (Signature) <u>83) [Signature]</u> RECEIVED BY: (Signature) _____	TURN AROUND TIME RUSH <input checked="" type="checkbox"/> CALL FIRST 1 DAY <input type="checkbox"/> CALL FIRST 2 DAY <input type="checkbox"/> <u>per coty</u> NORMAL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	LABORATORY USE ONLY: RECEIVING TEMP: <u>2-7</u> THERM #: <u>57</u> CUSTODY SEALS: <input type="checkbox"/> BROKEN <input checked="" type="checkbox"/> INTACT <input type="checkbox"/> NOT USED CARRIER BILL #: <u>Felix [Signature]</u> <input type="checkbox"/> APC DELIVERY <input type="checkbox"/> HAND DELIVERED
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DHL DISPOSAL @ \$5.00 each Return 3



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1. To: Print Name (Person) _____ Phone (Important) <u>572-388-8222</u>		2. From: Print Name (Person) <u>MARSHALL C. GREEN</u> Phone (Important) _____	
Company Name _____		Company Name _____	
Street Address (No P.O. Box or P.O. Box Zip Code Deliveries) <u>DHL Analytical</u>		Street Address <u>LANSON W. RELOCATED</u>	
<u>2300 Double Creek Drive</u>		<u>507 W. MARSHALL</u>	
Suite / Floor _____		Suite / Floor _____	
City <u>Round Rock Texas</u> State _____ Zip <u>78664</u>		City <u>MIDLAND</u> State _____ Zip <u>79701</u>	
3. Service: <input checked="" type="checkbox"/> By 10:30am Delivery (Noon to select zip codes.) <input type="checkbox"/> By 8:30am Delivery (Most Cities) (Extra Charge, No Signature Obtained) <input type="checkbox"/> Saturday Delivery - By 12 Noon (Extra Charge) <input type="checkbox"/> Other _____ <input type="checkbox"/> Deliver Without Delivery Signature (See Limits of Liability below) Release Signature _____ L _____ x W _____ x H _____		4. Package: Weight: <u>2.8</u> Your Company's Billing Reference Information <u>11-0109-09 x 6-1127</u> Ship Date: (mm/dd/yy) <u>06-20-13</u>	
		FOR COURIER USE ONLY Courier Number <u>103695</u> Pick-up Location <u>10010</u> Date: <u>6-20-13</u> Time: <u>1630</u> City Code: _____ <u>AWS</u>	
		5. Payment:	

LIMIT OF LIABILITY: We are not responsible for claims in excess of \$100 for any reason unless you: 1) declare a greater value (not to exceed \$25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

CUSTODY SEAL
DATE 6-20-13
SIGNATURE R W Torrey


QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

Sample Receipt Checklist

Client Name **Larson & Associates**
Work Order Number **1306190**

Date Received: **6/21/2013**
Received by **JB**

Checklist completed by:  6/21/2013
Signature Date

Reviewed by  6/21/2013
Initials Date

Carrier name LoneStar

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 2.7 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT #
Adjusted? _____ Checked by _____
- Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? Yes No NA LOT #
Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: Larson & Associates
Project: Artesia Aeration Landfarm
Lab Order: 1306190

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW6020A - Metals Analysis

LOG IN

The samples were received and log-in performed on 6/19/2013. A total of 1 sample was received and analyzed. The Time of Collection was Mountain Standard Time. The sample arrived in good condition and was properly packaged.

CLIENT: Larson & Associates
Project: Artesia Aeration Landfarm
Lab Order: 1306190

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1306190-01	Clippings		06/19/13 02:30 PM	6/21/2013

Lab Order: 1306190
Client: Larson & Associates
Project: Artesia Aeration Landfarm

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1306190-01A	Clippings	06/19/13 02:30 PM	Soil	D2216	Moisture Preparation	06/21/13 04:15 PM	58050
	Clippings	06/19/13 02:30 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	06/21/13 08:36 AM	58044

Lab Order: 1306190
Client: Larson & Associates
Project: Artesia Aeration Landfarm

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1306190-01A	Clippings	Soil	D2216	Percent Moisture	58050	1	06/24/13 08:50 AM	PMOIST_130621A
	Clippings	Soil	SW6020A	Trace Metals: ICP-MS - Solid	58044	5	06/21/13 08:11 PM	ICP-MS3_130621A

DHL Analytical, Inc.

Date: 24-Jun-13

CLIENT: Larson & Associates
Project: Artesia Aeration Landfarm
Project No: 11-0109-09
Lab Order: 1306190

Client Sample ID: Clippings
Lab ID: 1306190-01
Collection Date: 06/19/13 02:30 PM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		SW6020A					Analyst: SW
Chromium	53.1	0.504	2.02		mg/Kg-dry	5	06/21/13 08:11 PM
PERCENT MOISTURE		D2216					Analyst: JCG
Percent Moisture	3.64	0	0		WT%	1	06/24/13 08:50 AM

- Qualifiers:**
- * Value exceeds TCLP Maximum Concentration Level
 - C Sample Result or QC discussed in the Case Narrative
 - E TPH pattern not Gas or Diesel Range Pattern
 - MDL Method Detection Limit
 - RL Reporting Limit
 - N Parameter not NELAC certified
 - B Analyte detected in the associated Method Blank
 - DF Dilution Factor
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - S Spike Recovery outside control limits

CLIENT: Larson & Associates

ANALYTICAL QC SUMMARY REPORT

Work Order: 1306190

Project: Artesia Aeration Landfarm

RunID: ICP-MS3_130621A

The QC data in batch 58044 applies to the following samples: 1306190-01A

Sample ID: MB-58044	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: MBLK	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 7:35:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	ND	2.00								
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Sample ID: LCS-58044	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: LCS	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 7:41:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	45.1	2.00	50.00	0	90.2	80	120			
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Sample ID: LCSD-58044	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: LCSD	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 7:47:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	45.8	2.00	50.00	0	91.6	80	120	1.54	20	
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Sample ID: 1306177-04A SD	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: SD	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 8:05:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	12.7	9.80	0	12.17				4.36	10	
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Sample ID: 1306177-04A PDS	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: PDS	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 9:04:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	60.3	1.96	49.02	12.17	98.1	80	120			
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Sample ID: 1306177-04A MS	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: MS	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 9:10:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	56.0	1.94	48.54	12.17	90.2	80	120			
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Sample ID: 1306177-04A MSD	Batch ID: 58044	TestNo: SW6020A	Units: mg/Kg							
SampType: MSD	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 9:16:00 PM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Chromium	56.7	1.98	49.50	12.17	89.9	80	120	1.22	20	
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- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 1306190
Project: Artesia Aeration Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_130621A

Sample ID: LCVL3-130621	Batch ID: R67064	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 7:17:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chromium	0.00434	0.00500	0.00500	0	86.8	70	130			
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Sample ID: LCVL4-130621	Batch ID: R67064	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 9:58:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chromium	0.00428	0.00500	0.00500	0	85.6	70	130			
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Sample ID: ICV1-130621	Batch ID: R67064	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 2:33:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chromium	0.100	0.00500	0.100	0	100	90	110			
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Sample ID: CCV3-130621	Batch ID: R67064	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 6:41:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chromium	0.181	0.00500	0.200	0	90.5	90	110			
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Sample ID: CCV4-130621	Batch ID: R67064	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_130621A	Analysis Date: 6/21/2013 9:22:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Chromium	0.182	0.00500	0.200	0	91.0	90	110			
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Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: Larson & Associates

Work Order: 1306190

Project: Artesia Aeration Landfarm

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_130621A

The QC data in batch 58050 applies to the following samples: 1306190-01A

Sample ID: 1306190-01A-DUP	Batch ID: 58050	TestNo: D2216	Units: WT%							
SampType: DUP	Run ID: PMOIST_130621A	Analysis Date: 6/24/2013 8:50:00 AM	Prep Date: 6/21/2013							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	3.78	0	0	3.645				3.52	30	

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



October 22, 2014

Tony Schmitz
T-n-T Environmental, Inc.
HCR 74 Box 113
Lindrith, New Mexico 87029

**RE: Request To Use Fertilizer For Enhanced Bio-Remediation
T-n-T Environmental, Inc.
Permit NM1-008 (Evaporation Ponds and Landfarm)
Location: SE/4 of Section 7 and SW/4 of Section 8 (evaporation ponds) and the
SW/4 SE/4 and SE/4 NW/4 of Section 5 and NE/4 NW/4 of 8 (landfarm), Township
25 North, Range 3 West, NMPM, Rio Arriba County, New Mexico**

Dear Mr. Schmitz:

The Oil Conservation Division (OCD) has received and completed the review of an email request, submitted by Souder, Miller, & Associates on T-n-T Environmental, Inc.'s (T-n-T) behalf dated October 14, 2014, to apply fertilizer to landfarm Cells 3-14 for enhanced bio-remediation. Based upon the information provided, the above-referenced request is hereby approved with the following understandings and conditions:

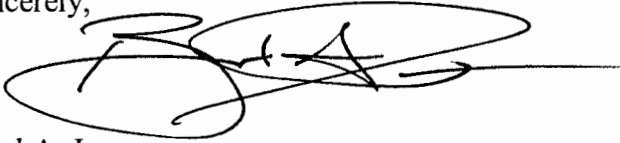
1. T-n-T is approved to utilize and apply fertilizer to landfarm Cells 3-14 for enhanced bio-remediation at an application rate not to exceed two (2) pounds of nitrogen per 1000 square feet in the treatment zone (soils to be remediated);
2. T-n-T shall apply the fertilizer by the method of a commercial spreader, followed by tilling; and
3. T-n-T is approved to apply the fertilizer "once annually until remediation levels are achieved," as proposed in the October 14, 2014 request.

Please be advised that approval of this request does not relieve T-n-T of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve T-n-T of its responsibility to comply with any other applicable governmental authority's rules and regulations.

Mr. Schmitz
T-n-T Environmental, Inc.
Permit NM1-008
October 22, 2014
Page 2 of 2

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a horizontal line extending to the right from the end of the signature.

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District III Office, Aztec
Denny Foust, Souder, Miller, & Associates, 401 W. Broadway, Farmington, NM 87401

Jones, Brad A., EMNRD

From: Denny Foust <denny.foust@soudermiller.com>
Sent: Tuesday, October 14, 2014 10:09 AM
To: Jones, Brad A., EMNRD
Cc: Griswold, Jim, EMNRD; 'Craig Schmitz'
Subject: Fertilizer Ammendment to TnT Landfarm
Attachments: BAJ 2nd Revison Reply October 14 2014 TnT.pdf

Mr. Jones:

I hope this clarifies the original request to add fertilizer once a year to cells 3-14 at the TnT Landfarm.

A signature line has been provided for your convenience.

Denny Foust
Senior Geologist
Souder, Miller & Associates
denny.foust@soudermiller.com
505-325-5667 (office)
505-801-9727 (cell)
505-327-1496 (fax)



October 14, 2014

Brad A. Jones
Environmental Engineer
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, New Mexico 87505

Submitted via email to:
brad.a.jones@state.nm.us

RE: T-n-T Environmental Landfarm NMOCD Permit #NM1-008, Fertilizer Application.

Dear Mr. Jones:

As authorized in the NMOCD letter dated October 1, 2013, T-n-T Environmental (TnT) will continue to remediate oilfield contaminated soils located outside Cells 1 and 2. To aid in remediation, TnT intends to add 2 pounds of nitrogen per 1000 square feet in a fall fertilization program, based on recommended rates for late fall application to grasses. This will be accomplished using the preferred granular 24-4-12 fertilizer at an application rate of 363 pounds per acre. The selected granular fertilizer contains 24 pounds of nitrogen, with 4 pounds of phosphorus and 12 pounds of potassium per hundred weight of fertilizer. The 24-4-12 analysis meets the preferred agronomy profile for soil health and is the preferred application. If it is unavailable another high nitrogen granular fertilizer will be used at a rate of 2 pounds of nitrogen per 1,000 square feet. The nitrogen should take advantage of the winter moisture to spread throughout the remediating soils and be in place to aid the growth of bacteria that will breakdown hydrocarbons as the soil temperature increases in the spring. Application rates may be adjusted to obtain the targeted rate of 2 pounds nitrogen per 1000 square feet based on the composition of the available fertilizer.

Example 1: A 46-0-0 granular fertilizer contains 46 pounds of nitrogen per hundred weight of fertilizer and will cover 23,000 square feet at 2 pounds of nitrogen per thousand square feet. The applications rate will be 190 pounds per acre to for a rate of 2 pounds of nitrogen per 1000 square feet.

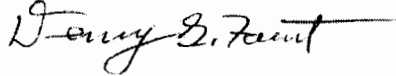
Example 2: A 20-5-10 granular fertilizer contains 20 pounds of nitrogen, 5 pounds of phosphorus and 10 pounds of potassium per 100 hundred weight of fertilizer and will cover 10,000 square feet at 2 pounds of nitrogen per 1000 square feet. The application rate will be 436 pounds per acre for a rate of 2 pounds of nitrogen per acre.

A commercial fertilizer spreader will be used for application followed by tilling. Application is anticipated once annually for cells 3-14 until remediation levels are achieved. The 2 pounds of nitrogen per 1000 square feet application rate was selected because that concentration will be absorbed in the soil and not readily leach.

Since addition of remediation amendments requires a signature from NMOCD we have provided an approval statement and signature line below for your convenience.

Testing and lab analysis of the treatment and vadose zone will continue as approved in the October 1, 2013 letter cited above.

Sincerely
Souder Miller and Associates



Denny G. Foust
Geologist

NMOCD approves the application of granular fertilizer at a rate of approximately 2 pounds of nitrogen per 1,000 square feet.

Acknowledged By: _____ Date: _____

Title: _____

EC: Craig Schmitz, TnT

Jim Griswold, NMOCD

Attachment: Brad Jones E-MAIL Reply to October 1, 2014 Electronic request

ATTACHMENT:

Denny,

OCD has completed the review of the request, dated and emailed to OCD on October 1, 2014, to use nitrogen/fertilizer to enhance remediation at the T-n-T Environmental Landfarm (Permit NM1-008). Condition 9, page 5 of the 2001 permit under the heading *Landfarm Operation*, states “Enhanced bio-remediation through the application of microbes (bugs) and/or fertilizers may only be permitted after prior approval from the OCD. Requests for application of microbes or fertilizers must include the location of the area designated for the program, the composition of additives, and the method, amount and frequency of application.” Please include the application method of the proposed fertilizer and the frequency of application, as required by the condition. The proposed “fall fertilization program based on rates for late fall application to grasses” does not clarify the frequency of application. Please specific. OCD is unsure if one or two considerations are being proposed. The second paragraph of the request proposes “2# nitrogen /1000 square feet” (no other additives identified for composition) and/or “363#/acre of granular 24-4-12 fertilizer or adjusted for a rate of 2# nitrogen /1000 square feet...” The approval statement proposes “granular fertilizer at a rate of approximately 2# of nitrogen per 1000 square feet or approximately 363# of granular fertilizer per acre.” Please clarify if the “granular fertilizer” discussed throughout the proposal will only have a fertilizer grade of 24-4-12 (N-P-K). Please resubmit the request via email for OCD’s consideration of approval. If you have any questions regarding this matter, please do not hesitate to contact me.

Brad

Brad A. Jones

Environmental Engineer

EMNRD Oil Conservation Division

1220 S. Saint Francis Drive

Santa Fe, New Mexico 87505

E-mail: brad.a.jones@state.nm.us

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Monday, July 01, 2013 1:06 PM
To: 'Mark Larson'
Cc: Zach Davis
Subject: RE: Proposed Background Composite Soil Sample Locations, R360 Artesia LLC Landfarm, Lea County, New Mexico, NM-1-0030

Mark,

The Oil Conservation Division (OCD) has reviewed the sampling proposal and has determined that the background sampling plan is adequate and satisfies the background testing requirements of Subsection B of 19.15.36.15 NMAC. Please provide OCD a copy of the background testing analytical results for the facility permit administrative record.

Brad

Brad A. Jones
Environmental Engineer
Environmental Bureau
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: Mark Larson [<mailto:Mark@laenvironmental.com>]
Sent: Friday, June 28, 2013 7:36 AM
To: Jones, Brad A., EMNRD
Cc: Zach Davis
Subject: Re: Proposed Background Composite Soil Sample Locations, R360 Artesia LLC Landfarm, Lea County, New Mexico, NM-1-0030

Dear Brad,

Here's the revised sample location drawing showing 16 discrete samples within each of 12 grids. The discrete samples will be collected from at least 6 inches below ground surface from the unimpacted areas located north of landfarm Cells 5 and 6. The composite samples will be analyzed for TPH by method 418.1, BTEX by method SW-846-8021B, chloride by method E300 and the constituents listed in Subsection A and B of 20.6.2.3103 NMAC. Your approval of the sample locations is requested. Please contact Zack Davis with R360 at (972) 768-3359 or me if you have questions.

Sincerely,

Mark J. Larson, P.G.
Sr. Project Manager / President
507 N. Marienfeld Street, Ste. 200
Midland, Texas 79701
(432) 687-0901 (office)

(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com



Jones, Brad A., EMNRD

From: Mark Larson <Mark@laenvironmental.com>
Sent: Friday, June 28, 2013 7:36 AM
To: Jones, Brad A., EMNRD
Cc: Zach Davis
Subject: Re: Proposed Background Composite Soil Sample Locations, R360 Artesia LLC Landfarm, Lea County, New Mexico, NM-1-0030
Attachments: Figure 11 - Proposed Sample Location Map.pdf

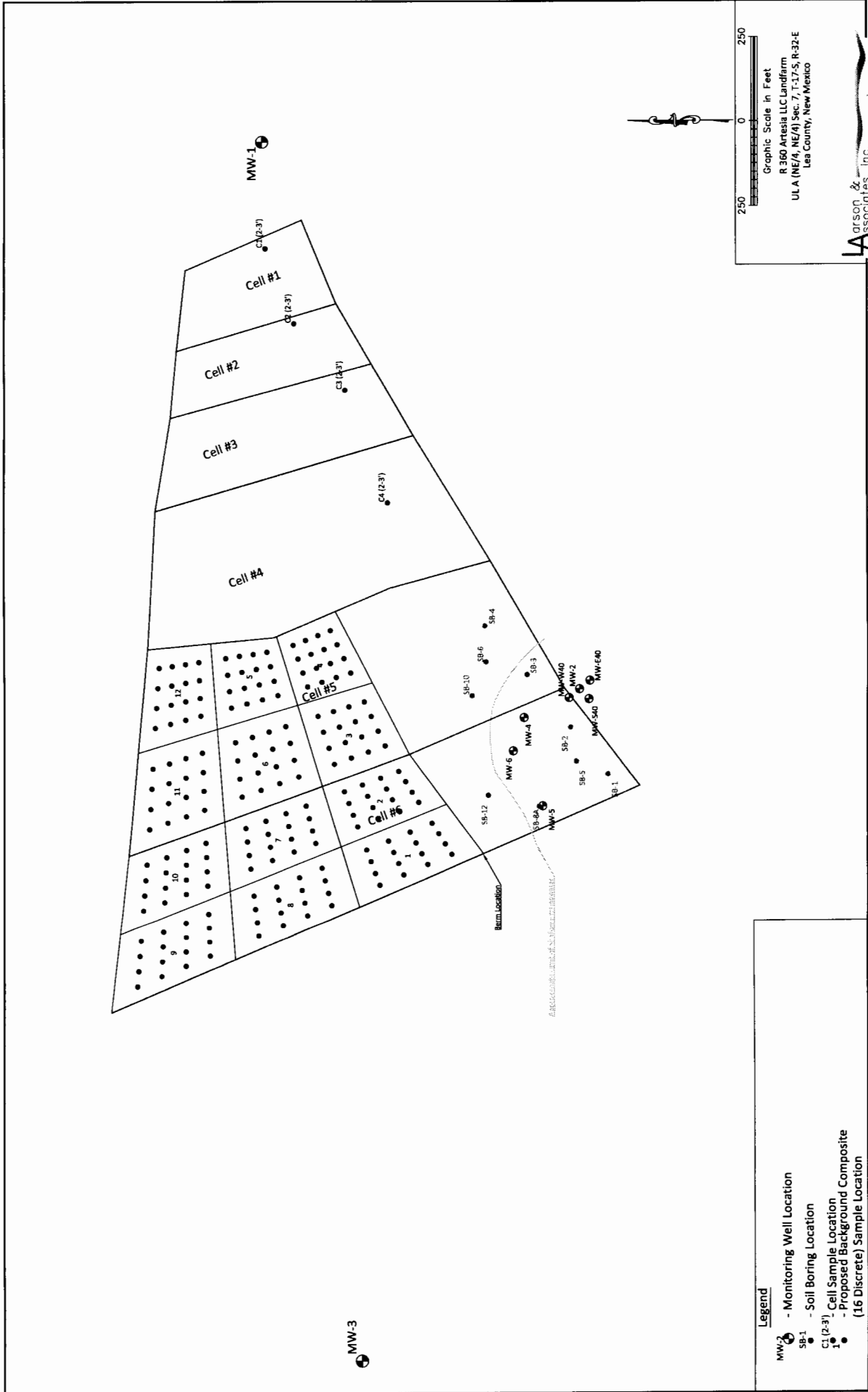
Dear Brad,

Here's the revised sample location drawing showing 16 discrete samples within each of 12 grids. The discrete samples will be collected from at least 6 inches below ground surface from the unimpacted areas located north of landfarm Cells 5 and 6. The composite samples will be analyzed for TPH by method 418.1, BTEX by method SW-846-8021B, chloride by method E300 and the constituents listed in Subsection A and B of 20.6.2.3103 NMAC. Your approval of the sample locations is requested. Please contact Zack Davis with R360 at (972) 768-3359 or me if you have questions.

Sincerely,

Mark J. Larson, P.G.
Sr. Project Manager / President
507 N. Marienfeld Street, Ste. 200
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com





Larson &
Associates, Inc.
Environmental Consultants

Graphic Scale in Feet
0 250
R 360 Artesia LLC Landfarm
ULA (NE/4, NE/4) Sec. 7, T-17-S, R-32-E
Lear County, New Mexico