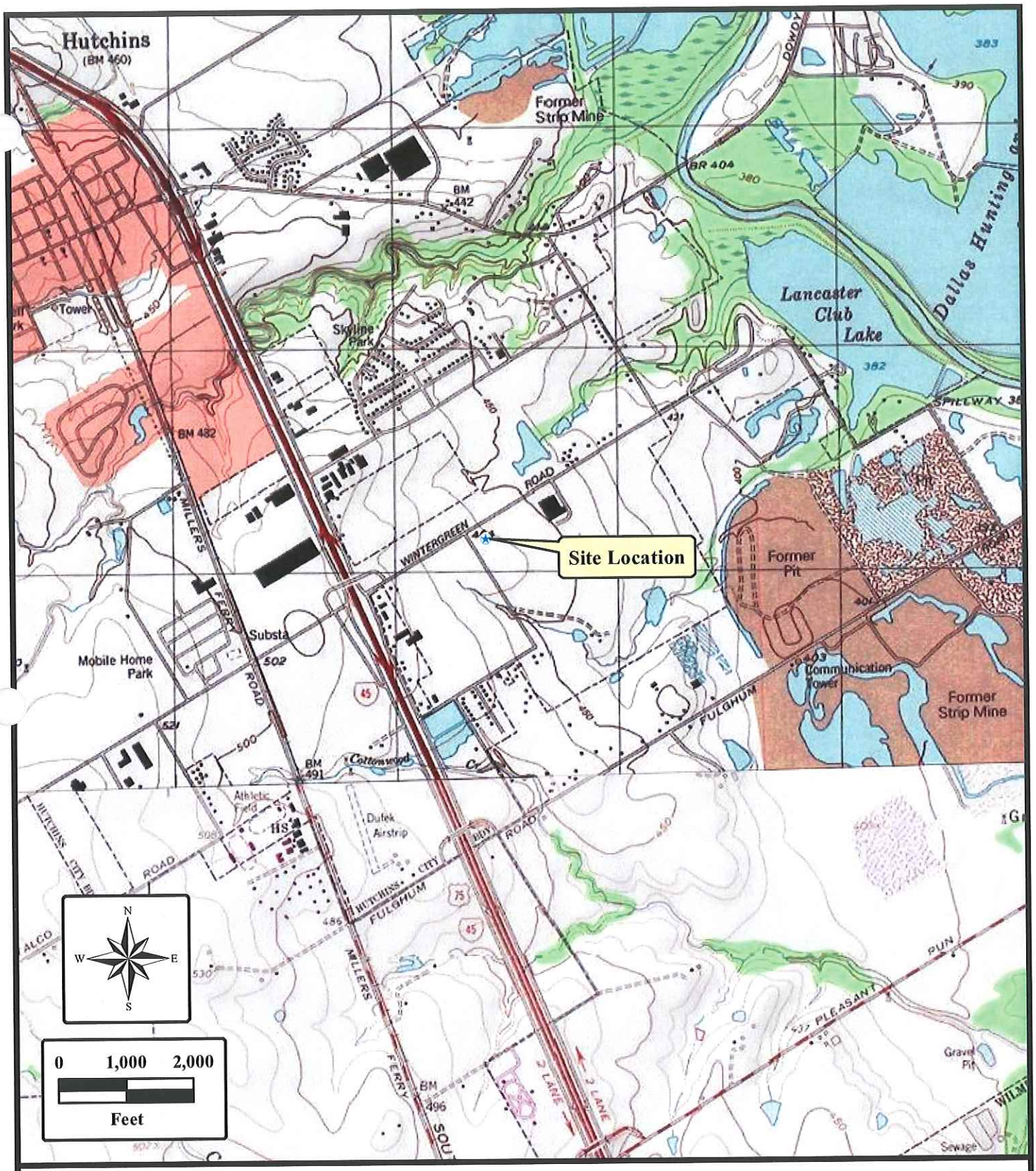
FIGURES

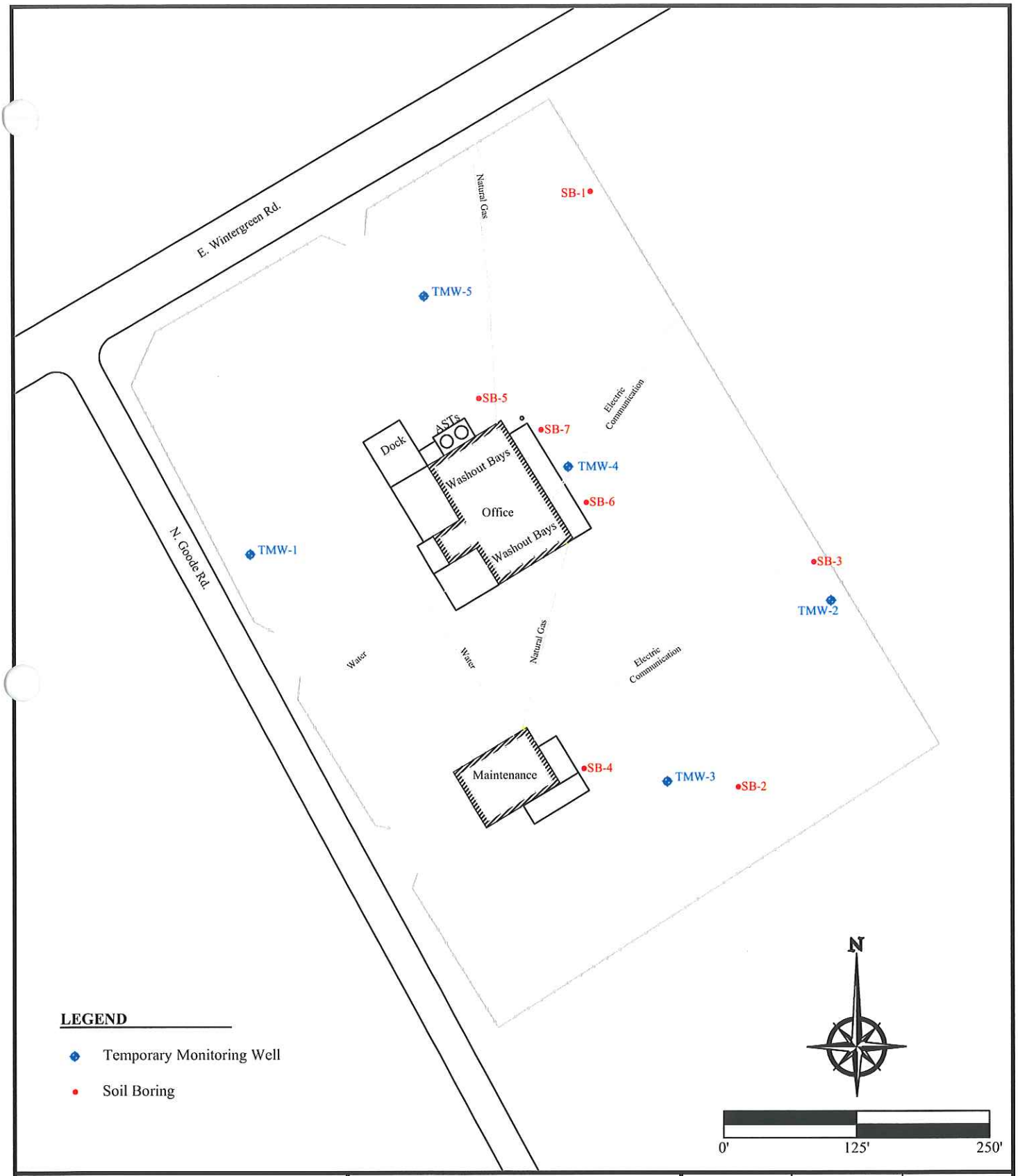
FIGURES



TITAN Engineering, Inc.
2801 Network Boulevard, Suite 200
Frisco, Texas 75034
Phone: (469) 365-1100 Fax: (469) 365-1199
www.titanengineering.com www.apexcos.com
A Division of Apex Companies, LLC

SITE LOCATION MAP
Al-Kel Alliance, Inc.
2012 North Goode Road
Wilmer, Texas
TITAN Project No. 84800583-01
March 2012

from USGS Quadrangle, Hutchins, Texas.
Digital Data Courtesy of ESRI Online



LEGEND

- Temporary Monitoring Well
- Soil Boring

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FIGURE 2
SITE MAP
AL-KEL ALLIANCE, INC.

2012 N. GOODE RD.
WILMER, TEXAS

DESIGNED BY:	DETAILED BY:	CHECKED BY:
LA	LA	BS
FILE NAME: T:/Al-Kel 583-01/Task 02/4.2 Figures/Site Map.dwg		
DATE: 5/29/2012	PROJECT NO.: 583-01.002	PLOT SCALE: 1"=125'
DRAWING NO.: TEI-583-01	REVISION: 0	FIGURE: 2

TABLES

TABLES

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)	Screened from PCL Development	MQL (mg/kg)	Critical PCL	SB-1 1 feet 5/16/10	SB-1 4.5 feet 5/16/10	SB-2 1 feet 5/17/10	SB-2 4 feet 5/17/10	SB-2 9.5 feet 5/17/10	SB-3 1 feet 5/17/12	SB-3 4.5 feet 5/17/12	SB-4 1 feet 5/17/12	SB-4 4 feet 5/17/12	SB-5 1 feet 5/17/12	SB-5 5 feet 5/17/12
pH SW-846 9045C - Unitless																
pH	N/A	N/A —	N/A —	—	N/A —	11.1	9.11	8.08	8.28	—	8.15	8.21	9.79	8.37	8.3	8.25
RCRA Metals SW-846 6020 & 7471A - mg/Kg																
Arsenic	7440-38-2	TSMBC 5.9	No —	—	Tier 2 Calc 12.4	3.69	2.93	3.44	6.31	—	3.17	3.23	3.88	5.29	4.03	2.18
Barium	7440-39-3	Tier 1 $^{GW}Soil_{Ing}$ 444	Yes 350.71(k)(1)	—	— —	150	172	157	129	—	121	87.8	166	71.5	169	149
Cadmium	7440-43-9	Tier 1 $^{GW}Soil_{Ing}$ 1.5	No —	—	Tier 1 $^{Tot}Soil_{Comb}$ 52	0.218 J	0.103 J	0.224 J	0.21 J	—	0.199 J	0.266 J	0.222 J	0.258 J	0.235 J	0.148 J
Chromium	7440-47-3	Tier 1 $^{GW}Soil_{Ing}$ 2400	Yes 350.71(k)(1)	—	— —	15.2	13.3	17.7	10	—	16.4	12.9	17.2	8.58	17.6	18.4
Lead	7439-92-1	TSMBC 15	No —	—	Tier 3 SPLP 49.5	16.7	14.9	11.7	9.13	—	23.2	6.43	11.3	4.85	18.3	16.3
Selenium	7782-49-2	Tier 1 $^{GW}Soil_{Ing}$ 2.30	Yes 350.71(k)(1)	—	— —	<0.232	0.288 J	<0.216	<0.175	—	<0.213	<0.224	<0.207	<0.217	<0.18	0.243 J
Silver	7440-22-4	Tier 1 $^{GW}Soil_{Ing}$ 0.479	Yes 350.71(k)(3)(A)	—	— —	<0.149	<0.157	<0.139	<0.113	—	<0.137	<0.144	<0.133	<0.14	<0.116	<0.148
Mercury	7439-97-6	TSMBC 0.040	Yes 350.71(k)(1)	—	— —	0.0117 J	<0.00832	<0.00771	<0.00749	—	0.0111 J	0.0173 J	<0.00744	<0.00769	0.0154 J	<0.00732
SPLP RCRA Metals SW-846 6020 & 7471A mg/L																
Arsenic	7440-38-2	Tier 1 $^{GW}GW_{Ing}$ 0.010	N/A —	—	N/A —	—	—	—	—	—	—	—	—	—	—	—
Cadmium	7440-43-9	Tier 1 $^{GW}GW_{Ing}$ 0.005	N/A —	—	N/A —	—	—	—	—	—	—	—	—	—	—	—
Lead	7439-92-1	Tier 1 $^{GW}GW_{Ing}$ 0.015	N/A —	—	N/A —	—	—	—	—	—	—	—	—	—	—	—
Herbicides SW-846 8151A - mg/L																
2,4-D	94-75-7	Tier 1 $^{GW}Soil_{Ing}$ 2.63	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.000404	—	—	—	—	—	—	<0.000422	<0.000425
Dalapon	75-99-0	Tier 1 $^{GW}Soil_{Ing}$ 0.584	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.0190	—	—	—	—	—	—	<0.0198	<0.0200
2,4-DB	94-82-6	Tier 1 $^{GW}Soil_{Ing}$ 0.389	Yes 350.71(k)(1)	—	— —	—	—	<0.000784	—	—	—	—	—	—	0.0193	0.00127 J
Dicamba	1918-00-9	Tier 1 $^{GW}Soil_{Ing}$ 1.47	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.000546	—	—	—	—	—	—	<0.000571	<0.000575
Dichlorprop	120-36-5	Tier 1 $^{GW}Soil_{Ing}$ 0.469	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.000534	—	—	—	—	—	—	<0.000558	<0.000563
Dinoseb	88-85-7	Tier 1 $^{GW}Soil_{Ing}$ 0.350	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.000380	—	—	—	—	—	—	<0.000397	<0.000400
Mecoprop	93-65-2	Tier 1 $^{GW}Soil_{Ing}$ 0.047	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.0545	—	—	—	—	—	—	<0.0569	<0.0574
MCPA	94-74-6	Tier 1 $^{GW}Soil_{Ing}$ 0.023	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.0772	—	—	—	—	—	—	<0.0807	<0.0813
2,4,5-T	93-76-5	Tier 1 $^{GW}Soil_{Ing}$ 0.987	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.000523	—	—	—	—	—	—	<0.000546	<0.000550
Silvex (2,4,5-TP)	93-72-1	Tier 1 $^{GW}Soil_{Ing}$ 5.30	Yes 350.71(k)(3)(A)	—	— —	—	—	<0.000511	—	—	—	—	—	—	<0.000534	<0.000538
VOCs SW-846 8260B - mg/Kg																
1,1,1,2-Tetrachloroethane	630-20-6	Tier 1 $^{GW}Soil_{Ing}$ 1.42	Yes 350.71(k)(3)(A)	—	— —	<0.00206	<0.00214	<0.00197	<0.00198	<0.00197	<0.00205	<0.00201	<0.00192	<0.00191	<0.002	<0.00214
1,1,1-Trichloroethane	71-55-6	Tier 1 $^{GW}Soil_{Ing}$ 1.62	Yes 350.71(k)(3)(A)	—	— —	<0.0016	<0.00166	<0.00154	<0.00154	<0.00153	<0.00159	<0.00157	<0.0015	<0.00149	<0.00156	<0.00166
1,1,2,2-Tetrachloroethane	79-34-5	Tier 1 $^{GW}Soil_{Ing}$ 0.023	Yes 350.71(k)(3)(A)	—	— —	<0.00395	<0.0041	<0.00378	<0.00379	<0.00378	<0.00393	<0.00386	<0.00369	<0.00367	<0.00384	<0.0041
1,1,2-Trichloroethane	79-00-5	Tier 1 $^{GW}Soil_{Ing}$ 0.020	Yes 350.71(k)(3)(A)	—	— —	<0.00275	<0.00285	<0.00263	<0.00264	<0.00263	<0.00273	<0.00269	<0.00257	<0.00255	<0.00267	<0.00285
1,1-Dichloroethane	75-34-3	Tier 1 $^{GW}Soil_{Ing}$ 18.5	Yes 350.71(k)(3)(A)	—	— —	<0.000837	<0.000869	<0.000801	<0.000804	<0.0008	<0.000832	<0.000818	<0.000782	<0.000778	<0.000814	<0.000868
1,1-Dichloroethene	75-35-4	Tier 1 $^{GW}Soil_{Ing}$ 0.050	Yes 350.71(k)(3)(A)	—	— —	<0.00107	<0.00111	<0.00102	<0.00103	<0.00102	<0.00106	<0.00105	<0.000999	<0.000993	<0.00104	<0.00111
1,2,4-Trimethylbenzene	95-63-6	Tier 1 $^{GW}Soil_{Ing}$ 9.71	Yes 350.71(k)(3)(A)	—	— —	<0.00249	<0.00259	<0.00239	<0.0024	<0.00238	<0.00248	<0.00244	<0.00233	<0.00232	<0.00242	<0.00259
1,2-Dibromoethane (EDB)	106-93-4	Tier 1 $^{GW}Soil_{Ing}$ 0.00021	Yes 350.71(k)(3)(B)	0.00648	— —	<0.00187	<0.00194	<0.00179	<0.00179	<0.00179	<0.00186	<0.00183	<0.00175	<0.00174	<0.00182	<0.00194
1,2-Dichlorobenzene	95-50-1	Tier 1 $^{GW}Soil_{Ing}$ 17.9	Yes 350.71(k)(3)(A)	—	— —	<0.00303	<0.00314	<0.0029	<0.00291	<0.00289	<0.00301	<0.00296	<0.00283	<0.00281	<0.00294	<0.00314
1,2-Dichloroethane	107-06-2	Tier 1 $^{GW}Soil_{Ing}$ 0.014	Yes 350.71(k)(3)(A)	—	— —	<0.00107	<0.00111	<0.00102	<0.00103	<0.00102	<0.00106	<0.00104	<0.000997	<0.000992	<0.00104	<0.00111
1,2-Dichloropropane	78-87-5	Tier 1 $^{GW}Soil_{Ing}$ 0.023	Yes 350.71(k)(3)(A)	—	— —	<0.000845	<0.000877	<0.000809	<0.000811	<0.000807	<0.00084	<0.000826	<0.000789	<0.000784	<0.000821	<0.000876
1,3-Dichlorobenzene	541-73-1	Tier 1 $^{GW}Soil_{Ing}$ 6.75	Yes 350.71(k)(3)(A)	—	— —	<0.0024	<0.00249	<0.0023	<0.00231	<0.0023	<0.00239	<0.00235	<0.00224	<0.00223	<0.00234	<0.00249
1,4-Dichlorobenzene	106-46-7	Tier 1 $^{GW}Soil_{Ing}$ 2.10	Yes 350.71(k)(3)(A)	—	— —	<0.00234	<0.00243	<0.00224	<0.00225	<0.00224	<0.00233	<0.00229	<0.00219	<0.00217	<0.00227	<0.00243

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VOCs SW-846 8260B - mg/Kg (continued)																			
2-Butanone (MEK)	78-93-3	Tier 1 $^{GW}Soil_{ing}$	29.3	Yes	350.71(k)(1)	---	---	---	**0.0113 J**	**0.00598 J**	<0.00546	<0.00547	<0.00545	<0.00567	<0.00557	<0.00533	<0.0053	**0.0159**	**0.00852 J**
2-Hexanone	591-78-6	Tier 1 $^{GW}Soil_{ing}$	0.323	Yes	350.71(k)(3)(A)	---	---	---	<0.00425	<0.00442	<0.00407	<0.00409	<0.00407	<0.00423	<0.00416	<0.00397	<0.00395	<0.00414	<0.00441
4-Isopropyltoluene	99-87-6	Tier 1 $^{GW}Soil_{ing}$	232	Yes	350.71(k)(3)(A)	---	---	---	<0.0021	<0.00218	<0.00201	<0.00201	<0.002	<0.00208	<0.00205	<0.00196	<0.00195	<0.00204	<0.00217
4-Methyl-2-pentanone (MIBK)	108-10-1	Tier 1 $^{GW}Soil_{ing}$	4.95	Yes	350.71(k)(3)(A)	---	---	---	<0.00317	<0.00329	<0.00303	<0.00304	<0.00303	<0.00315	<0.0031	<0.00296	<0.00294	<0.00308	<0.00329
Acetone	67-64-1	Tier 1 $^{GW}Soil_{ing}$	42.7	Yes	350.71(k)(1)	---	---	---	**0.0445 J**	**0.0181 J**	<0.00565	<0.00567	<0.00564	<0.00587	<0.00577	<0.00552	<0.00548	**0.0503 J**	**0.0264 J**
Benzene	71-43-2	Tier 1 $^{GW}Soil_{ing}$	0.026	Yes	350.71(k)(3)(A)	---	---	---	<0.000967	<0.001	<0.000926	<0.000929	<0.000925	<0.000962	<0.000946	<0.000904	<0.000899	<0.00094	<0.001
Bromobenzene	108-86-1	Tier 1 $^{GW}Soil_{ing}$	2.31	Yes	350.71(k)(3)(A)	---	---	---	<0.00287	<0.00298	<0.00274	<0.00275	<0.00274	<0.00285	<0.0028	<0.00268	<0.00266	<0.00279	<0.00297
Bromochloromethane	74-97-5	Tier 1 $^{GW}Soil_{ing}$	3.04	Yes	350.71(k)(3)(A)	---	---	---	<0.000988	<0.00103	<0.000946	<0.000949	<0.000945	<0.000983	<0.000966	<0.000923	<0.000918	<0.000961	<0.00103
Bromodichloromethane	75-27-4	Tier 1 $^{GW}Soil_{ing}$	0.065	Yes	350.71(k)(3)(A)	---	---	---	<0.000847	<0.000879	<0.000811	<0.000813	<0.00081	<0.000842	<0.000828	<0.000791	<0.000787	<0.000823	<0.000879
Bromoethane	74-96-4	Tier 1 $^{GW}Soil_{ing}$	N/A	Yes	350.71(k)(3)(A)	---	---	---	<0.00139	<0.00145	<0.00133	<0.00134	<0.00133	<0.00138	<0.00136	<0.0013	<0.00129	<0.00135	<0.00144
Bromoform	75-25-2	Tier 1 $^{GW}Soil_{ing}$	0.631	Yes	350.71(k)(3)(A)	---	---	---	<0.00153	<0.00159	<0.00147	<0.00147	<0.00146	<0.00152	<0.0015	<0.00143	<0.00142	<0.00149	<0.00159
Bromomethane	74-83-9	Tier 1 $^{GW}Soil_{ing}$	0.131	Yes	350.71(k)(3)(A)	---	---	---	<0.00114	<0.00119	<0.00109	<0.0011	<0.00109	<0.00114	<0.00112	<0.00107	<0.00106	<0.00111	<0.00118
Carbon disulfide	75-15-0	Tier 1 $^{GW}Soil_{ing}$	13.6	Yes	350.71(k)(3)(A)	---	---	---	<0.00124	<0.00128	<0.00118	<0.00119	<0.00118	<0.00123	<0.00121	<0.00115	<0.00115	<0.0012	<0.00128
Carbon tetrachloride	56-23-5	Tier 1 $^{GW}Soil_{ing}$	0.062	Yes	350.71(k)(3)(A)	---	---	---	<0.00141	<0.00147	<0.00135	<0.00136	<0.00135	<0.00141	<0.00138	<0.00132	<0.00131	<0.00137	<0.00147
Chlorobenzene	108-90-7	Tier 1 $^{GW}Soil_{ing}$	1.09	Yes	350.71(k)(3)(A)	---	---	---	<0.00107	<0.00111	<0.00102	<0.00103	<0.00102	<0.00106	<0.00105	<0.001	<0.000994	<0.00104	<0.00111
Chlorodibromomethane	124-48-1	Tier 1 $^{GW}Soil_{ing}$	0.049	Yes	350.71(k)(3)(A)	---	---	---	<0.0022	<0.00229	<0.00211	<0.00212	<0.00211	<0.00219	<0.00215	<0.00206	<0.00205	<0.00214	<0.00229
Chloroethane	75-00-3	Tier 1 $^{GW}Soil_{ing}$	30.9	Yes	350.71(k)(3)(A)	---	---	---	<0.0019	<0.00197	<0.00182	<0.00183	<0.00182	<0.00189	<0.00186	<0.00178	<0.00177	<0.00185	<0.00197
Chloroform	67-66-3	Tier 1 $^{GW}Soil_{ing}$	1.02	Yes	350.71(k)(3)(A)	---	---	---	<0.000905	<0.00094	<0.000867	<0.000869	<0.000865	<0.0009	<0.000885	<0.000846	<0.000841	<0.00088	<0.000939
Chloromethane	74-87-3	Tier 1 $^{GW}Soil_{ing}$	0.405	Yes	350.71(k)(3)(A)	---	---	---	<0.00374	<0.00389	<0.00358	<0.00359	<0.00358	<0.00372	<0.00366	<0.0035	<0.00348	<0.00364	<0.00388
cis-1,2-Dichloroethene	156-59-2	Tier 1 $^{GW}Soil_{ing}$	0.248	Yes	350.71(k)(3)(A)	---	---	---	<0.000787	<0.000817	<0.000754	<0.000756	<0.000753	<0.000783	<0.00077	<0.000736	<0.000731	<0.000765	<0.000817
cis-1,3-Dichloropropene	10061-01-5	Tier 1 $^{GW}Soil_{ing}$	0.0066	Yes	350.71(k)(3)(A)	---	---	---	<0.00162	<0.00168	<0.00155	<0.00156	<0.00155	<0.00161	<0.00158	<0.00151	<0.0015	<0.00157	<0.00168
Dibromomethane	74-95-3	Tier 1 $^{GW}Soil_{ing}$	1.13	Yes	350.71(k)(3)(A)	---	---	---	<0.0011	<0.00114	<0.00105	<0.00106	<0.00105	<0.00109	<0.00108	<0.00103	<0.00102	<0.00107	<0.00114
Dichlorodifluoromethane	75-71-8	Tier 1 $^{GW}Soil_{ing}$	239	Yes	350.71(k)(3)(A)	---	---	---	<0.0124	<0.0129	<0.0119	<0.0119	<0.0119	<0.0123	<0.0121	<0.0116	<0.0115	<0.0121	<0.0129
Ethylbenzene	100-41-4	Tier 1 $^{GW}Soil_{ing}$	7.63	Yes	350.71(k)(3)(A)	---	---	---	<0.0015	<0.00156	<0.00144	<0.00144	<0.00144	<0.00149	<0.00147	<0.0014	<0.0014	<0.00146	<0.00156
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}Soil_{ing}$	3.29	Yes	350.71(k)(3)(A)	---	---	---	<0.00225	<0.00234	<0.00216	<0.00216	<0.00215	<0.00224	<0.0022	<0.0021	<0.00209	<0.00219	<0.00234
Isopropylbenzene	98-82-8	Tier 1 $^{GW}Soil_{ing}$	347	Yes	350.71(k)(3)(A)	---	---	---	<0.00225	<0.00234	<0.00215	<0.00216	<0.00215	<0.00224	<0.0022	<0.0021	<0.00209	<0.00219	<0.00233
Methyl tert-Butyl Ether	1634-04-4	Tier 1 $^{GW}Soil_{ing}$	0.621	Yes	350.71(k)(3)(A)	---	---	---	<0.00107	<0.00111	<0.00103	<0.00103	<0.00102	<0.00107	<0.00105	<0.001	<0.000995	<0.00104	<0.00111
Methylene chloride	75-09-2	Tier 1 $^{GW}Soil_{ing}$	0.013	Yes	350.71(k)(3)(A)	---	---	---	<0.00131	<0.00136	<0.00126	<0.00126	<0.00126	<0.00131	<0.00128	<0.00123	<0.00122	<0.00128	<0.00136
n-Butylbenzene	104-51-8	Tier 1 $^{GW}Soil_{ing}$	121	Yes	350.71(k)(3)(A)	---	---	---	<0.00205	<0.00213	<0.00197	<0.00197	<0.00196	<0.00204	<0.00201	<0.00192	<0.00191	<0.002	<0.00213
n-Propylbenzene	103-65-1	Tier 1 $^{GW}Soil_{ing}$	45	Yes	350.71(k)(3)(A)	---	---	---	<0.00227	<0.00235	<0.00217	<0.00218	<0.00217	<0.00226	<0.00222	<0.00212	<0.00211	<0.0022	<0.00235
sec-Butylbenzene	135-98-8	Tier 1 $^{GW}Soil_{ing}$	85	Yes	350.71(k)(3)(A)	---	---	---	<0.00261	<0.00271	<0.0025	<0.00251	<0.0025	<0.0026	<0.00255	<0.00244	<0.00243	<0.00254	<0.00271
Styrene	100-42-5	Tier 1 $^{GW}Soil_{ing}$	3.25	Yes	350.71(k)(3)(A)	---	---	---	<0.00204	<0.00211	<0.00195	<0.00196	<0.00195	<0.00203	<0.00199	<0.0019	<0.00189	<0.00198	<0.00211
tert-Butylbenzene	98-06-6	Tier 1 $^{GW}Soil_{ing}$	100	Yes	350.71(k)(3)(A)	---	---	---	<0.00235	<0.00244	<0.00225	<0.00226	<0.00225	<0.00234	<0.0023	<0.0022	<0.00219	<0.00229	<0.00244
Tetrachloroethene	127-18-4	Tier 1 $^{GW}Soil_{ing}$	0.050	Yes	350.71(k)(3)(A)	---	---	---	<0.00195	<0.00203	<0.00187	<0.00188	<0.00187	<0.00194	<0.00191	<0.00183	<0.00182	<0.0019	<0.00203
Toluene	108-88-3	Tier 1 $^{GW}Soil_{ing}$	8.21	Yes	350.71(k)(3)(A)	---	---	---	<0.00123	<0.00128	<0.00118	<0.00118	<0.00118	<0.00122	<0.0012	<0.00115	<0.00114	<0.0012	<0.00128
trans-1,2-Dichloroethene	156-60-5	Tier 1 $^{GW}Soil_{ing}$	0.490	Yes	350.71(k)(3)(A)	---	---	---	<0.00105	<0.00109	<0.00101	<0.00101	<0.00101	<0.00105	<0.00103	<0.000983	<0.000978	<0.00102	<0.00109
trans-1,3-Dichloropropene	10061-02-6	Tier 1 $^{GW}Soil_{ing}$	0.036	Yes	350.71(k)(3)(A)	---	---	---	<0.00205	<0.00213	<0.00196	<0.00197	<0.00196	<0.00204	<0.002	<0.00191	<0.0019	<0.00199	<0.00212
Trichloroethene	79-01-6	Tier 1 $^{GW}Soil_{ing}$	0.034	Yes	350.71(k)(3)(A)	---	---	---	<0.00117	<0.00122	<0.00112	<0.00113	<0.00112	<0.00117	<0.00115	<0.0011	<0.00109	<0.00114	<0.00122
Trichlorofluoromethane	75-69-4	Tier 1 $^{GW}Soil_{ing}$	128	Yes	350.71(k)(3)(A)	---	---	---	<0.00128	<0.00133	<0.00123	<0.00123	<0.00123	<0.00128	<0.00126	<0.0012	<0.00119	<0.00125	<0.00133
Vinyl chloride	75-01-4	Tier 1 $^{GW}Soil_{ing}$	0.022	Yes	350.71(k)(3)(A)	---	---	---	<0.00182	<0.00189	<0.00175	<0.00175	<0.00174	<0.00181	<0.00178	<0.0017	<0.00169	<0.00177	<0.00189
Xylenes, total	1330-20-7	Tier 1 $^{GW}Soil_{ing}$	N/A	Yes	350.71(k)(3)(A)	---	---	---	<0.00372	<0.00386	<0.00356	<0.00357	<0.00356	<0.0037	<0.00364	<0.00347	<0.00345	<0.00361	<0.00386

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)	Screened from PCL Development	MQL (mg/kg)	Critical PCL	SB-1 1 feet 5/16/10	SB-1 4.5 feet 5/16/10	SB-2 1 feet 5/17/10	SB-2 4 feet 5/17/10	SB-2 9.5 feet 5/17/10	SB-3 1 feet 5/17/12	SB-3 4.5 feet 5/17/12	SB-4 1 feet 5/17/12	SB-4 4 feet 5/17/12	SB-5 1 feet 5/17/12	SB-5 5 feet 5/17/12
SVOCs SW-846 8270C - mg/Kg																
1,2,4-Trichlorobenzene	120-82-1	Tier 1 $^{GW}Soil_{Ing}$ 4.79	Yes 350.71(k)(3)(A)	---	---	<0.0558	<0.0585	<0.0543	<0.0536	<0.0539	<0.0549	---	<0.0524	<0.0524	<0.0551	<0.0579
1,2-Diphenylhydrazine	122-66-7	Tier 1 $^{GW}Soil_{Ing}$ 0.032	Yes 350.71(k)(3)(B)	0.432	---	<0.0523	<0.0549	<0.0509	<0.0503	<0.0506	<0.0516	---	<0.0492	<0.0492	<0.0517	<0.0544
2,4,5-Trichlorophenol	95-95-4	Tier 1 $^{GW}Soil_{Ing}$ 34	Yes 350.71(k)(3)(A)	---	---	<0.0426 J	<0.0447 J	<0.0414	<0.0409	<0.0412	<0.0419	---	<0.04	<0.04	<0.0421	<0.0442
2,4,6-Trichlorophenol	88-06-2	Tier 1 $^{GW}Soil_{Ing}$ 0.175	Yes 350.71(k)(3)(A)	---	---	<0.0545 J	<0.0572 J	<0.053	<0.0524	<0.0527	<0.0537	---	<0.0513	<0.0512	<0.0539	<0.0567
2,4-Dichlorophenol	120-83-2	Tier 1 $^{GW}Soil_{Ing}$ 0.352	Yes 350.71(k)(3)(A)	---	---	<0.0539	<0.0565	<0.0524	<0.0517	<0.0521	<0.0531	---	<0.0506	<0.0506	<0.0532	<0.056
2,4-Dimethylphenol	105-67-9	Tier 1 $^{GW}Soil_{Ing}$ 3.23	Yes 350.71(k)(3)(A)	---	---	<0.0976	<0.102	<0.095	<0.0938	<0.0944	<0.0961	---	<0.0918	<0.0917	<0.0964	<0.101
2,4-Dinitrophenol	51-28-5	Tier 1 $^{GW}Soil_{Ing}$ 0.094	Yes 350.71(k)(3)(B)	2.19	---	<0.829	<0.87	<0.806	<0.796	<0.801	<0.816	---	<0.779	<0.779	<0.818	<0.861
2,4-Dinitrotoluene	121-14-2	Tier 1 $^{GW}Soil_{Ing}$ 0.005	Yes 350.71(k)(3)(B)	0.432	---	<0.195	<0.205	<0.19	<0.188	<0.189	<0.192	---	<0.184	<0.184	<0.193	<0.203
2,6-Dinitrotoluene	606-20-2	Tier 1 $^{GW}Soil_{Ing}$ 0.005	Yes 350.71(k)(3)(B)	0.432	---	<0.0509	<0.0534	<0.0495	<0.0489	<0.0492	<0.0501	---	<0.0478	<0.0478	<0.0503	<0.0529
2-Chloronaphthalene	91-58-7	Tier 1 $^{GW}Soil_{Ing}$ 670	Yes 350.71(k)(3)(A)	---	---	<0.0389	<0.0408	<0.0378	<0.0373	<0.0376	<0.0383	---	<0.0365	<0.0365	<0.0384	<0.0404
2-Chlorophenol	95-57-8	Tier 1 $^{GW}Soil_{Ing}$ 1.63	Yes 350.71(k)(3)(A)	---	---	<0.0362	<0.038	<0.0352	<0.0348	<0.035	<0.0356	---	<0.034	<0.034	<0.0357	<0.0376
2-Methylnaphthalene	91-57-6	Tier 1 $^{GW}Soil_{Ing}$ 17.1	Yes 350.71(k)(3)(A)	---	---	<0.0399	<0.0419	<0.0388	<0.0383	<0.0386	<0.0393	---	<0.0375	<0.0375	<0.0394	<0.0414
2-Methylphenol	95-48-7	Tier 1 $^{GW}Soil_{Ing}$ 7.12	Yes 350.71(k)(3)(A)	---	---	<0.0495	<0.0519	<0.0481	<0.0475	<0.0478	<0.0487	---	<0.0465	<0.0465	<0.0489	<0.0514
2-Nitroaniline	88-74-4	Tier 1 $^{GW}Soil_{Ing}$ 0.022	Yes 350.71(k)(3)(A)	---	---	<0.0528	<0.0554	<0.0513	<0.0507	<0.051	<0.052	---	<0.0496	<0.0496	<0.0521	<0.0548
2-Nitrophenol	88-75-5	Tier 1 $^{GW}Soil_{Ing}$ 0.135	Yes 350.71(k)(3)(A)	---	---	<0.0783	<0.0821	<0.0761	<0.0752	<0.0756	<0.0771	---	<0.0736	<0.0735	<0.0773	<0.0813
3 & 4 Methylphenol	106-44-5	Tier 1 $^{GW}Soil_{Ing}$ 0.632	Yes 350.71(k)(3)(A)	---	---	<0.0805	<0.0845	<0.0783	<0.0773	<0.0778	<0.0793	---	<0.0756	<0.0756	<0.0795	<0.0836
3,3'-Dichlorobenzidine	91-94-1	Tier 1 $^{GW}Soil_{Ing}$ 0.063	Yes 350.71(k)(3)(A)	---	---	<0.0664	<0.0697	<0.0646 JL	<0.0638 JL	<0.0642 JL	<0.0654 JL	---	<0.0625 JL	<0.0624 JL	<0.0656 JL	<0.069 JL
3-Nitroaniline	99-09-2	Tier 1 $^{GW}Soil_{Ing}$ 0.026	Yes 350.71(k)(3)(B)	0.432	---	<0.0396	<0.0416	<0.0385 JL	<0.038 JL	<0.0383 JL	<0.039 JL	---	<0.0372 JL	<0.0372 JL	<0.0391 JL	<0.0411 JL
4,6-Dinitro-2-methylphenol	534-52-1	Tier 1 $^{GW}Soil_{Ing}$ 0.005	Yes 350.71(k)(3)(B)	2.19	---	<0.248	<0.261	<0.242	<0.239	<0.24	<0.245	---	<0.234	<0.233	<0.245	<0.258
4-Bromophenyl phenyl ether	101-55-3	Tier 1 $^{GW}Soil_{Ing}$ 0.276	Yes 350.71(k)(3)(A)	---	---	<0.0375	<0.0394	<0.0365	<0.036	<0.0363	<0.0369	---	<0.0353	<0.0353	<0.0371	<0.039
4-Chloro-3-methylphenol	59-50-7	Tier 1 $^{GW}Soil_{Ing}$ 4.53	Yes 350.71(k)(3)(A)	---	---	<0.0655	<0.0687	<0.0637	<0.0629	<0.0633	<0.0645	---	<0.0616	<0.0615	<0.0647	<0.068
4-Chloroaniline	106-47-8	Tier 1 $^{GW}Soil_{Ing}$ 0.021	Yes 350.71(k)(3)(A)	0.432	---	<0.0466	<0.0489	<0.0453 JL	<0.0447 JL	<0.045 JL	<0.0459 JL	---	<0.0438 JL	<0.0438 JL	<0.046 JL	<0.0484 JL
4-Chlorophenyl phenyl ether	7005-72-3	Tier 1 $^{GW}Soil_{Ing}$ 0.032	Yes 350.71(k)(3)(A)	0.432	---	<0.0317	<0.0333	<0.0309	<0.0305	<0.0307	<0.0313	---	<0.0298	<0.0298	<0.0313	<0.033
4-Nitroaniline	100-01-6	Tier 1 $^{GW}Soil_{Ing}$ 0.108	Yes 350.71(k)(3)(B)	2.19	---	<0.124	<0.13	<0.121	<0.119	<0.12	<0.122	---	<0.117	<0.117	<0.123	<0.129
4-Nitrophenol	100-02-7	Tier 1 $^{GW}Soil_{Ing}$ 0.100	Yes 350.71(k)(3)(B)	0.432	---	<0.188	<0.197	<0.182	<0.18	<0.181	<0.185	---	<0.176	<0.176	<0.185	<0.195
Acenaphthene	83-32-9	Tier 1 $^{GW}Soil_{Ing}$ 236	Yes 350.71(k)(3)(A)	---	---	<0.0431	<0.0452	<0.0419	<0.0414	<0.0416	<0.0424	---	<0.0405	<0.0405	<0.0426	<0.0448
Acenaphthylene	208-96-8	Tier 1 $^{GW}Soil_{Ing}$ 409	Yes 350.71(k)(3)(A)	---	---	<0.0407	<0.0427	<0.0396	<0.0391	<0.0393	<0.0401	---	<0.0382	<0.0382	<0.0402	<0.0423
Anthracene	120-12-7	Tier 1 $^{GW}Soil_{Ing}$ 6890	Yes 350.71(k)(3)(A)	---	---	<0.0306	<0.0321	<0.0298	<0.0294	<0.0296	<0.0302	---	<0.0288	<0.0288	<0.0302	<0.0318
Benzo[a]anthracene	56-55-3	Tier 1 $^{GW}Soil_{Ing}$ 5.65	Yes 350.71(k)(1)	---	---	<0.0247	<0.0259	<0.024	<0.0237	<0.0239	<0.0243	---	**0.0312 J**	<0.0232	<0.0244	<0.0257
Benzo[a]pyrene	50-32-8	Tier 1 $^{GW}Soil_{Ing}$ 0.564	Yes 350.71(k)(3)(A)	---	---	<0.0283	<0.0297	<0.0275	<0.0271	<0.0273	<0.0278	---	<0.0266	<0.0266	<0.0279	<0.0294
Benzo[b]fluoranthene	205-99-2	Tier 1 $^{GW}Soil_{Ing}$ 5.71	Yes 350.71(k)(3)(A)	---	---	<0.0648	<0.068	<0.063	<0.0622	<0.0626	<0.0638	---	<0.0609	<0.0609	<0.064	<0.0673
Benzo[g,h,i]perylene	191-24-2	Tier 1 $^{GW}Soil_{Ing}$ 1780	Yes 350.71(k)(1)	---	---	<0.0333	<0.035	<0.0324	<0.032	<0.0322	<0.0328	---	**0.0369 J**	<0.0313	<0.0329	<0.0346
Benzo[k]fluoranthene	207-08-9	Tier 1 $^{GW}Soil_{Ing}$ 57	Yes 350.71(k)(3)(A)	---	---	<0.0493	<0.0518	<0.048	<0.0474	<0.0477	<0.0486	---	<0.0464	<0.0464	<0.0487	<0.0513
Bis(2-chloroethoxy)methane	111-91-1	Tier 1 $^{GW}Soil_{Ing}$ 0.012	Yes 350.71(k)(3)(B)	0.432	---	<0.0404	<0.0424	<0.0393	<0.0388	<0.039	<0.0397	---	<0.0379	<0.0379	<0.0399	<0.0419
Bis(2-chloroethyl)ether	111-44-4	Tier 1 $^{GW}Soil_{Ing}$ 0.0021	Yes 350.71(k)(2)(A) 350.71(k)(3)(B)	0.432	---	<0.0426	<0.0447	<0.0414	<0.0409	<0.0411	<0.0419	---	<0.04	<0.04	<0.042	<0.0442
Bis(2-chloroisopropyl) ether	108-60-1	Tier 1 $^{GW}Soil_{Ing}$ 0.190	Yes 350.71(k)(3)(A)	---	---	<0.0338	<0.0355	<0.0329	<0.0325	<0.0327	<0.0333	---	<0.0318	<0.0318	<0.0334	<0.0351
Bis(2-ethylhexyl) phthalate	117-81-7	Tier 1 $^{GW}Soil_{Ing}$ 43.2	Yes 350.71(k)(1)	---	---	<0.052	**0.243 J**	<0.0506	<0.05	<0.0503	<0.0512	---	<0.0489	<0.0489	<0.0514	**0.102 J**
Butyl benzyl phthalate	85-68-7	Tier 1 $^{GW}Soil_{Ing}$ 265	Yes 350.71(k)(1)	---	---	<0.0324	<0.034	<0.0315	<0.0311	<0.0313	<0.0319	---	<0.0305	<0.0305	<0.032	<0.0337
Chrysene	218-01-9	Tier 1 $^{GW}Soil_{Ing}$ 561	Yes 350.71(k)(1)	---	---	<0.0281	<0.0295	<0.0273	<0.027	<0.0271	<0.0277	---	**0.0339 J**	<0.0264	<0.0277	<0.0292

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)		Screened from PCL Development		MQL (mg/kg)	Critical PCL	SB-1 1 feet 5/16/10	SB-1 4.5 feet 5/16/10	SB-2 1 feet 5/17/10	SB-2 4 feet 5/17/10	SB-2 9.5 feet 5/17/10	SB-3 1 feet 5/17/12	SB-3 4.5 feet 5/17/12	SB-4 1 feet 5/17/12	SB-4 4 feet 5/17/12	SB-5 1 feet 5/17/12	SB-5 5 feet 5/17/12
SVOCs SW-846 8270C - mg/Kg (continued)																		
Dibenz[a,h]anthracene	53-70-3	Tier 1 $^{GW}Soil_{Ing}$	0.550	Yes	350.71(k)(3)(A)	---	---	---	<0.104	<0.109	<0.101	<0.1	<0.101	<0.103	---	<0.0981	<0.098	<0.103	<0.108
Dibenzofuran	132-64-9	Tier 1 $^{GW}Soil_{Ing}$	33.4	Yes	350.71(k)(3)(A)	---	---	---	<0.0445	<0.0467	<0.0433	<0.0428	<0.043	<0.0439	---	<0.0419	<0.0418	<0.044	<0.0463
Diethyl phthalate	84-66-2	Tier 1 $^{GW}Soil_{Ing}$	156	Yes	350.71(k)(3)(A)	---	---	---	<0.0267	<0.028	<0.026	<0.0256	<0.0258	<0.0263	---	<0.0251	<0.0251	<0.0264	<0.0277
Dimethyl phthalate	131-11-3	Tier 1 $^{GW}Soil_{Ing}$	62	Yes	350.71(k)(3)(A)	---	---	---	<0.0296	<0.0311	<0.0288	<0.0284	<0.0286	<0.0291	---	<0.0278	<0.0278	<0.0292	<0.0307
Di-n-butyl phthalate	84-74-2	Tier 1 $^{GW}Soil_{Ing}$	3317	Yes	350.71(k)(3)(A)	---	---	---	<0.0305	<0.032	<0.0297	<0.0293	<0.0295	<0.0301	---	<0.0287	<0.0287	<0.0301	<0.0317
Di-n-octyl phthalate	117-84-0	Tier 1 $^{GW}Soil_{Ing}$	1286	Yes	350.71(k)(3)(A)	---	---	---	<0.15	<0.158	<0.146	<0.144	<0.145	<0.148	---	<0.141	<0.141	<0.148	<0.156
Diphenylamine	122-39-4	Tier 1 $^{GW}Soil_{Ing}$	9.65	Yes	350.71(k)(3)(A)	---	---	---	<0.0282	<0.0296	<0.0274	<0.0271	<0.0273	<0.0278	---	<0.0265	<0.0265	<0.0279	<0.0293
Fluoranthene	206-44-0	Tier 1 $^{GW}Soil_{Ing}$	1917	Yes	350.71(k)(1)	---	---	---	<0.0303	<0.0318	<0.0295	<0.0291	<0.0293	<0.0298	---	**0.0894 J**	<0.0285	<0.0299	<0.0315
Fluorene	86-73-7	Tier 1 $^{GW}Soil_{Ing}$	299	Yes	350.71(k)(3)(A)	---	---	---	<0.0287	<0.0301	<0.0279	<0.0275	<0.0277	<0.0282	---	<0.027	<0.027	<0.0283	<0.0298
Hexachlorobenzene	118-74-1	Tier 1 $^{GW}Soil_{Ing}$	1.07	Yes	350.71(k)(3)(A)	---	---	---	<0.0348	<0.0365	<0.0339	<0.0334	<0.0336	<0.0343	---	<0.0327	<0.0327	<0.0344	<0.0362
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}Soil_{Ing}$	3.29	Yes	350.71(k)(3)(A)	---	---	---	<0.0504	<0.0529	<0.049	<0.0484	<0.0487	<0.0496	---	<0.0474	<0.0473	<0.0498	<0.0523
Hexachlorocyclopentadiene	77-47-4	Tier 1 $^{GW}Soil_{Ing}$	13.7	Yes	350.71(k)(3)(A)	---	---	---	<0.21 JL	<0.22 JL	<0.204	<0.202	<0.203	<0.207	---	<0.197	<0.197	<0.207	<0.218
Hexachloroethane	67-72-1	Tier 1 $^{GW}Soil_{Ing}$	1.84	Yes	350.71(k)(3)(A)	---	---	---	<0.0534	<0.0561	<0.052	<0.0513	<0.0517	<0.0526	---	<0.0502	<0.0502	<0.0528	<0.0555
Isophorone	78-59-1	Tier 1 $^{GW}Soil_{Ing}$	3.00	Yes	350.71(k)(3)(A)	---	---	---	<0.053	<0.0557	<0.0516	<0.0509	<0.0513	<0.0522	---	<0.0499	<0.0498	<0.0524	<0.0551
Naphthalene	91-20-3	Tier 1 $^{GW}Soil_{Ing}$	31	Yes	350.71(k)(3)(A)	---	---	---	<0.0395	<0.0414	<0.0384	<0.0379	<0.0382	<0.0389	---	<0.0371	<0.0371	<0.039	<0.041
Nitrobenzene	98-95-3	Tier 1 $^{GW}Soil_{Ing}$	0.352	Yes	350.71(k)(3)(A)	---	---	---	<0.061	<0.064	<0.0593	<0.0586	<0.0589	<0.0601	---	<0.0573	<0.0573	<0.0602	<0.0633
N-Nitrosodi-n-propylamine	621-64-7	Tier 1 $^{GW}Soil_{Ing}$	0.00035	Yes	350.71(k)(3)(A)	---	---	---	<0.0302	<0.0317	<0.0294	<0.029	<0.0292	<0.0297	---	<0.0284	<0.0284	<0.0298	<0.0314
N-Nitrosodiphenylamine	86-30-6	Tier 1 $^{GW}Soil_{Ing}$	2.82	Yes	350.71(k)(3)(A)	---	---	---	<0.0282	<0.0296	<0.0274	<0.0271	<0.0273	<0.0278	---	<0.0265	<0.0265	<0.0279	<0.0293
Pentachloroethane	76-01-7	Tier 1 $^{GW}Soil_{Ing}$	0.097	Yes	350.71(k)(3)(A)	---	---	---	<0.0377	<0.0396	<0.0367	<0.0362	<0.0364	<0.0371	---	<0.0354	<0.0354	<0.0372	<0.0392
Pentachlorophenol	87-86-5	Tier 1 $^{GW}Soil_{Ing}$	0.018	Yes	350.71(k)(3)(B)	**2.19**	---	---	<0.0626 J	<0.0657 J	<0.0609	<0.0601	<0.0605	<0.0616	---	<0.0588	<0.0588	<0.0618	<0.065
Phenanthrene	85-01-8	Tier 1 $^{GW}Soil_{Ing}$	416	Yes	350.71(k)(3)(A)	---	---	---	<0.0275	<0.0288	<0.0267	<0.0264	<0.0266	<0.0271	---	<0.0258	<0.0258	<0.0271	<0.0285
Phenol	108-95-2	Tier 1 $^{GW}Soil_{Ing}$	19.1	Yes	350.71(k)(3)(A)	---	---	---	<0.0407	<0.0427	<0.0396	<0.0391	<0.0394	<0.0401	---	<0.0383	<0.0383	<0.0402	<0.0423
Pyrene	129-00-0	Tier 1 $^{GW}Soil_{Ing}$	1117	Yes	350.71(k)(3)(A)	---	---	---	<0.029	<0.0304	<0.0282	<0.0278	<0.028	<0.0285	---	**0.097 J**	<0.0272	<0.0286	<0.0301
Pyridine	110-86-1	Tier 1 $^{GW}Soil_{Ing}$	0.069	Yes	350.71(k)(3)(A)	---	---	---	<0.0479	<0.0503	<0.0466	<0.046	<0.0463	<0.0472	---	<0.045	<0.045	<0.0473	<0.0498

Notes:
N/A - Not Applicable.
J - estimated concentration >SQL but <MQL.
Red Bold indicates concentration against which analytical data is compared for TRRP assessment purposes.
Bold indicates constituent concentration in sample > SQL.
MQLs only shown for constituents that are screened from PCL development where SQLs > RAL.

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)	Screened from PCL Development	MQL (mg/kg)	Critical PCL	SB-5	SB-6	SB-6	SB-7	SB-7	SB-7	TMW-1	TMW-1	TMW-2	TMW-2	TMW-3
						9 feet	1 feet	2.5 feet	1 feet	5 feet	7.5 feet	1 feet	4.5 feet	0.5 feet	4.5 feet	1 feet
						5/17/12	5/17/12	5/17/12	5/17/12	5/17/12	5/17/12	5/16/12	5/16/12	5/16/12	5/16/12	5/16/12
pH SW-846 9045C - Unitless																
pH	N/A	N/A ---	N/A ---	—	N/A ---	—	8.17	8.11	8.32	8.2	—	11.1	8.4	8.32	8.61	8.56
RCRA Metals SW-846 6020 & 7471A - mg/Kg																
Arsenic	7440-38-2	TSMBC 5.9	No —	—	Tier 2 Calc 12.4	—	4.88	3.32	5.06	3.58	—	4.29	2.74	2.34	3.74	6.05
Barium	7440-39-3	Tier 1 $^{GW}Soil_{Ing}$ 444	Yes 350.71(k)(1)	—	--- ---	—	164	146	188	210	—	154	143	109	241	76.9
Cadmium	7440-43-9	Tier 1 $^{GW}Soil_{Ing}$ 1.5	No ---	—	Tier 1 $^{Tot}Soil_{Comb}$ 52	—	0.274 J	0.217 J	4	0.209 J	—	0.228 J	0.195 J	0.199 J	0.289 J	0.212 J
Chromium	7440-47-3	Tier 1 $^{GW}Soil_{Ing}$ 2400	Yes 350.71(k)(1)	—	--- ---	—	17.7	21.2	23.9	20	—	23.7	18.6	15.7	9.28	7.06
Lead	7439-92-1	TSMBC 15	No ---	—	Tier 3 SPLP 49.5	—	24.8	20.1	49.5	15.3	—	18.2	16	15.4	9.06	4.75
Selenium	7782-49-2	Tier 1 $^{GW}Soil_{Ing}$ 2.30	Yes 350.71(k)(1)	—	--- ---	—	<0.227	<0.236	<0.211	<0.186	—	<0.223	0.278 J	0.327 J	<0.223	0.244 J
Silver	7440-22-4	Tier 1 $^{GW}Soil_{Ing}$ 0.479	Yes 350.71(k)(3)(A)	—	--- ---	—	<0.147	<0.152	<0.136	<0.12	—	<0.144	<0.141	<0.134	<0.144	<0.129
Mercury	7439-97-6	TSMBC 0.040	Yes 350.71(k)(1)	—	--- ---	—	0.0124 J	<0.00724	0.0159 J	0.0126 J	—	0.0152 J	<0.00892	0.0131 J	<0.00816	<0.0075
SPLP RCRA Metals SW-846 6020 & 7471A mg/L																
Arsenic	7440-38-2	Tier 1 $^{GW}GW_{Ing}$ 0.010	N/A ---	—	N/A ---	—	<0.01	—	<0.01	—	—	—	—	—	—	<0.001
Cadmium	7440-43-9	Tier 1 $^{GW}GW_{Ing}$ 0.005	N/A ---	—	N/A ---	—	<0.002	—	<0.002	—	—	—	—	—	—	<0.002
Lead	7439-92-1	Tier 1 $^{GW}GW_{Ing}$ 0.015	N/A ---	—	N/A ---	—	0.0039	—	0.0035	—	—	—	—	—	—	<0.003
Herbicides SW-846 8151A - mg/L																
2,4-D	94-75-7	Tier 1 $^{GW}Soil_{Ing}$ 2.63	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
Dalapon	75-99-0	Tier 1 $^{GW}Soil_{Ing}$ 0.584	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
2,4-DB	94-82-6	Tier 1 $^{GW}Soil_{Ing}$ 0.389	Yes 350.71(k)(1)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
Dicamba	1918-00-9	Tier 1 $^{GW}Soil_{Ing}$ 1.47	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
Dichlorprop	120-36-5	Tier 1 $^{GW}Soil_{Ing}$ 0.469	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
Dinoseb	88-85-7	Tier 1 $^{GW}Soil_{Ing}$ 0.350	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
Mecoprop	93-65-2	Tier 1 $^{GW}Soil_{Ing}$ 0.047	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
MCPA	94-74-6	Tier 1 $^{GW}Soil_{Ing}$ 0.023	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
2,4,5-T	93-76-5	Tier 1 $^{GW}Soil_{Ing}$ 0.987	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
Silvex (2,4,5-TP)	93-72-1	Tier 1 $^{GW}Soil_{Ing}$ 5.30	Yes 350.71(k)(3)(A)	—	--- ---	—	—	—	—	—	—	—	—	—	—	—
VOCs SW-846 8260B - mg/Kg																
1,1,1,2-Tetrachloroethane	630-20-6	Tier 1 $^{GW}Soil_{Ing}$ 1.42	Yes 350.71(k)(3)(A)	—	--- ---	<0.00203	<0.00204	<0.00213	<0.00202	<0.00203	<0.00197	<0.00215	<0.00215	<0.002	<0.00199	<0.00192
1,1,1-Trichloroethane	71-55-6	Tier 1 $^{GW}Soil_{Ing}$ 1.62	Yes 350.71(k)(3)(A)	—	--- ---	<0.00158	<0.00159	<0.00166	<0.00158	<0.00158	<0.00153	<0.00167	<0.00168	<0.00156	<0.00155	<0.0015
1,1,2,2-Tetrachloroethane	79-34-5	Tier 1 $^{GW}Soil_{Ing}$ 0.023	Yes 350.71(k)(3)(A)	—	--- ---	<0.00389	<0.00392	<0.00409	<0.00388	<0.00389	<0.00377	<0.00412	<0.00413	<0.00383	<0.00381	<0.00369
1,1,2-Trichloroethane	79-00-5	Tier 1 $^{GW}Soil_{Ing}$ 0.020	Yes 350.71(k)(3)(A)	—	--- ---	<0.00271	<0.00273	<0.00284	<0.0027	<0.0027	<0.00262	<0.00286	<0.00287	<0.00267	<0.00265	<0.00257
1,1-Dichloroethane	75-34-3	Tier 1 $^{GW}Soil_{Ing}$ 18.5	Yes 350.71(k)(3)(A)	—	--- ---	<0.000825	<0.000831	<0.000866	<0.000822	<0.000823	<0.000799	<0.000872	<0.000875	<0.000812	<0.000807	<0.000781
1,1-Dichloroethene	75-35-4	Tier 1 $^{GW}Soil_{Ing}$ 0.050	Yes 350.71(k)(3)(A)	—	--- ---	<0.00105	<0.00106	<0.00111	<0.00105	<0.00105	<0.00102	<0.00111	<0.00112	<0.00104	<0.00103	<0.000998
1,2,4-Trimethylbenzene	95-63-6	Tier 1 $^{GW}Soil_{Ing}$ 9.71	Yes 350.71(k)(3)(A)	—	--- ---	<0.00246	<0.00248	<0.00258	<0.00245	<0.00245	<0.00238	<0.0026	<0.00261	<0.00242	<0.0024	<0.00233
1,2-Dibromoethane (EDB)	106-93-4	Tier 1 $^{GW}Soil_{Ing}$ 0.00021	Yes 350.71(k)(3)(B)	0.00648	--- ---	<0.00184	<0.00186	<0.00193	<0.00184	<0.00184	<0.00178	<0.00195	<0.00195	<0.00181	<0.0018	<0.00174
1,2-Dichlorobenzene	95-50-1	Tier 1 $^{GW}Soil_{Ing}$ 17.9	Yes 350.71(k)(3)(A)	—	--- ---	<0.00298	<0.00301	<0.00313	<0.00297	<0.00298	<0.00289	<0.00316	<0.00317	<0.00294	<0.00292	<0.00283
1,2-Dichloroethane	107-06-2	Tier 1 $^{GW}Soil_{Ing}$ 0.014	Yes 350.71(k)(3)(A)	—	--- ---	<0.00105	<0.00106	<0.0011	<0.00105	<0.00105	<0.00102	<0.00111	<0.00112	<0.00104	<0.00103	<0.000996
1,2-Dichloropropane	78-87-5	Tier 1 $^{GW}Soil_{Ing}$ 0.023	Yes 350.71(k)(3)(A)	—	--- ---	<0.000832	<0.000838	<0.000873	<0.00083	<0.000831	<0.000806	<0.00088	<0.000883	<0.00082	<0.000814	<0.000788
1,3-Dichlorobenzene	541-73-1	Tier 1 $^{GW}Soil_{Ing}$ 6.75	Yes 350.71(k)(3)(A)	—	--- ---	<0.00237	<0.00239	<0.00249	<0.00236	<0.00236	<0.00229	<0.0025	<0.00251	<0.00233	<0.00232	<0.00224
1,4-Dichlorobenzene	106-46-7	Tier 1 $^{GW}Soil_{Ing}$ 2.10	Yes 350.71(k)(3)(A)	—	--- ---	<0.00231	<0.00232	<0.00242	<0.0023	<0.0023	<0.00223	<0.00244	<0.00245	<0.00227	<0.00226	<0.00218

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)	Screened from PCL Development	MQL (mg/kg)	Critical PCL	SB-5 9 feet 5/17/12	SB-6 1 feet 5/17/12	SB-6 2.5 feet 5/17/12	SB-7 1 feet 5/17/12	SB-7 5 feet 5/17/12	SB-7 7.5 feet 5/17/12	TMW-1 1 feet 5/16/12	TMW-1 4.5 feet 5/16/12	TMW-2 0.5 feet 5/16/12	TMW-2 4.5 feet 5/16/12	TMW-3 1 feet 5/16/12
VOCs SW-846 8260B - mg/Kg (continued)																
2-Butanone (MEK)	78-93-3	Tier 1 $^{GW}Soil_{Ing}$ 29.3	Yes 350.71(k)(1)	—	---	<0.00562	<0.00566	0.0347	<0.0056	0.011 J	0.00587 J	0.0282	0.00599 J	<0.00553	<0.0055	<0.00532
2-Hexanone	591-78-6	Tier 1 $^{GW}Soil_{Ing}$ 0.323	Yes 350.71(k)(3)(A)	—	---	<0.00419	<0.00422	<0.0044	<0.00418	<0.00418	<0.00406	<0.00443	<0.00445	<0.00413	<0.0041	<0.00397
4-Isopropyltoluene	99-87-6	Tier 1 $^{GW}Soil_{Ing}$ 232	Yes 350.71(k)(3)(A)	—	---	<0.00206	<0.00208	<0.00217	<0.00206	<0.00206	<0.002	<0.00218	<0.00219	<0.00203	<0.00202	<0.00196
4-Methyl-2-pentanone (MIBK)	108-10-1	Tier 1 $^{GW}Soil_{Ing}$ 4.95	Yes 350.71(k)(3)(A)	—	---	<0.00312	<0.00315	<0.00328	<0.00311	<0.00312	<0.00302	<0.0033	<0.00331	<0.00308	<0.00305	<0.00296
Acetone	67-64-1	Tier 1 $^{GW}Soil_{Ing}$ 42.7	Yes 350.71(k)(1)	—	---	0.00952 J	<0.00586	0.111	<0.0058	0.0383 J	0.0188 J	0.0951	0.021 J	0.0134 J	<0.00569	<0.00551
Benzene	71-43-2	Tier 1 $^{GW}Soil_{Ing}$ 0.026	Yes 350.71(k)(3)(A)	—	---	<0.000953	<0.00096	<0.001	<0.00095	<0.000951	<0.000923	<0.00101	<0.00101	<0.000939	<0.000933	<0.000903
Bromobenzene	108-86-1	Tier 1 $^{GW}Soil_{Ing}$ 2.31	Yes 350.71(k)(3)(A)	—	---	<0.00282	<0.00284	<0.00296	<0.00282	<0.00282	<0.00274	<0.00299	<0.003	<0.00278	<0.00276	<0.00267
Bromochloromethane	74-97-5	Tier 1 $^{GW}Soil_{Ing}$ 3.04	Yes 350.71(k)(3)(A)	—	---	<0.000974	<0.000981	<0.00102	<0.000971	<0.000972	<0.000943	<0.00103	<0.00103	<0.000959	<0.000953	<0.000922
Bromodichloromethane	75-27-4	Tier 1 $^{GW}Soil_{Ing}$ 0.065	Yes 350.71(k)(3)(A)	—	---	<0.000834	<0.000841	<0.000876	<0.000832	<0.000833	<0.000808	<0.000883	<0.000886	<0.000822	<0.000817	<0.00079
Bromoethane	74-96-4	Tier 1 $^{GW}Soil_{Ing}$ N/A	Yes 350.71(k)(3)(A)	—	---	<0.00137	<0.00138	<0.00144	<0.00137	<0.00137	<0.00133	<0.00145	<0.00146	<0.00135	<0.00134	<0.0013
Bromoform	75-25-2	Tier 1 $^{GW}Soil_{Ing}$ 0.631	Yes 350.71(k)(3)(A)	—	---	<0.00151	<0.00152	<0.00158	<0.0015	<0.00151	<0.00146	<0.00159	<0.0016	<0.00149	<0.00148	<0.00143
Bromomethane	74-83-9	Tier 1 $^{GW}Soil_{Ing}$ 0.131	Yes 350.71(k)(3)(A)	—	---	<0.00113	<0.00113	<0.00118	<0.00112	<0.00112	<0.00109	<0.00119	<0.00119	<0.00111	<0.0011	<0.00107
Carbon disulfide	75-15-0	Tier 1 $^{GW}Soil_{Ing}$ 13.6	Yes 350.71(k)(3)(A)	—	---	<0.00122	<0.00123	<0.00128	<0.00121	<0.00121	<0.00118	<0.00129	<0.00129	<0.0012	<0.00119	<0.00115
Carbon tetrachloride	56-23-5	Tier 1 $^{GW}Soil_{Ing}$ 0.062	Yes 350.71(k)(3)(A)	—	---	<0.00139	<0.0014	<0.00146	<0.00139	<0.00139	<0.00135	<0.00147	<0.00148	<0.00137	<0.00136	<0.00132
Chlorobenzene	108-90-7	Tier 1 $^{GW}Soil_{Ing}$ 1.09	Yes 350.71(k)(3)(A)	—	---	<0.00105	<0.00106	<0.00111	<0.00105	<0.00105	<0.00102	<0.00112	<0.00112	<0.00104	<0.00103	<0.000999
Chlorodibromomethane	124-48-1	Tier 1 $^{GW}Soil_{Ing}$ 0.049	Yes 350.71(k)(3)(A)	—	---	<0.00217	<0.00219	<0.00228	<0.00216	<0.00217	<0.0021	<0.00229	<0.0023	<0.00214	<0.00212	<0.00206
Chloroethane	75-00-3	Tier 1 $^{GW}Soil_{Ing}$ 30.9	Yes 350.71(k)(3)(A)	—	---	<0.00187	<0.00189	<0.00197	<0.00187	<0.00187	<0.00181	<0.00198	<0.00199	<0.00185	<0.00183	<0.00177
Chloroform	67-66-3	Tier 1 $^{GW}Soil_{Ing}$ 1.02	Yes 350.71(k)(3)(A)	—	---	<0.000892	<0.000899	<0.000936	<0.000889	<0.00089	<0.000864	<0.000943	<0.000946	<0.000879	<0.000873	<0.000845
Chloromethane	74-87-3	Tier 1 $^{GW}Soil_{Ing}$ 0.405	Yes 350.71(k)(3)(A)	—	---	<0.00369	<0.00372	<0.00387	<0.00368	<0.00368	<0.00357	<0.0039	<0.00391	<0.00363	<0.00361	<0.00349
cis-1,2-Dichloroethene	156-59-2	Tier 1 $^{GW}Soil_{Ing}$ 0.248	Yes 350.71(k)(3)(A)	—	---	<0.000776	<0.000782	<0.000814	<0.000774	<0.000774	<0.000752	<0.00082	<0.000823	<0.000764	<0.000759	<0.000735
cis-1,3-Dichloropropene	10061-01-5	Tier 1 $^{GW}Soil_{Ing}$ 0.0066	Yes 350.71(k)(3)(A)	—	---	<0.0016	<0.00161	<0.00167	<0.00159	<0.00159	<0.00155	<0.00169	<0.00169	<0.00157	<0.00156	<0.00151
Dibromomethane	74-95-3	Tier 1 $^{GW}Soil_{Ing}$ 1.13	Yes 350.71(k)(3)(A)	—	---	<0.00108	<0.00109	<0.00114	<0.00108	<0.00108	<0.00105	<0.00115	<0.00115	<0.00107	<0.00106	<0.00103
Dichlorodifluoromethane	75-71-8	Tier 1 $^{GW}Soil_{Ing}$ 239	Yes 350.71(k)(3)(A)	—	---	<0.0122	<0.0123	<0.0128	<0.0122	<0.0122	<0.0118	<0.0129	<0.013	<0.012	<0.012	<0.0116
Ethylbenzene	100-41-4	Tier 1 $^{GW}Soil_{Ing}$ 7.63	Yes 350.71(k)(3)(A)	—	---	<0.00148	<0.00149	<0.00155	<0.00148	<0.00148	<0.00143	<0.00157	<0.00157	<0.00146	<0.00145	<0.0014
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}Soil_{Ing}$ 3.29	Yes 350.71(k)(3)(A)	—	---	<0.00222	<0.00224	<0.00233	<0.00221	<0.00221	<0.00215	<0.00235	<0.00235	<0.00219	<0.00217	<0.0021
Isopropylbenzene	98-82-8	Tier 1 $^{GW}Soil_{Ing}$ 347	Yes 350.71(k)(3)(A)	—	---	<0.00222	<0.00223	<0.00233	<0.00221	<0.00221	<0.00215	<0.00234	<0.00235	<0.00218	<0.00217	<0.0021
Methyl tert-Butyl Ether	1634-04-4	Tier 1 $^{GW}Soil_{Ing}$ 0.621	Yes 350.71(k)(3)(A)	—	---	<0.00106	<0.00106	<0.00111	<0.00105	<0.00105	<0.00102	<0.00112	<0.00112	<0.00104	<0.00103	<0.001
Methylene chloride	75-09-2	Tier 1 $^{GW}Soil_{Ing}$ 0.013	Yes 350.71(k)(3)(A)	—	---	<0.00129	<0.0013	<0.00136	<0.00129	<0.00129	<0.00125	<0.00137	<0.00137	<0.00127	<0.00127	<0.00123
n-Butylbenzene	104-51-8	Tier 1 $^{GW}Soil_{Ing}$ 121	Yes 350.71(k)(3)(A)	—	---	<0.00202	<0.00204	<0.00213	<0.00202	<0.00202	<0.00196	<0.00214	<0.00215	<0.00199	<0.00198	<0.00192
n-Propylbenzene	103-65-1	Tier 1 $^{GW}Soil_{Ing}$ 45	Yes 350.71(k)(3)(A)	—	---	<0.00223	<0.00225	<0.00235	<0.00223	<0.00223	<0.00217	<0.00236	<0.00237	<0.0022	<0.00219	<0.00212
sec-Butylbenzene	135-98-8	Tier 1 $^{GW}Soil_{Ing}$ 85	Yes 350.71(k)(3)(A)	—	---	<0.00257	<0.00259	<0.0027	<0.00257	<0.00257	<0.00249	<0.00272	<0.00273	<0.00253	<0.00252	<0.00244
Styrene	100-42-5	Tier 1 $^{GW}Soil_{Ing}$ 3.25	Yes 350.71(k)(3)(A)	—	---	<0.00201	<0.00202	<0.00211	<0.002	<0.002	<0.00194	<0.00212	<0.00213	<0.00198	<0.00196	<0.0019
tert-Butylbenzene	98-06-6	Tier 1 $^{GW}Soil_{Ing}$ 100	Yes 350.71(k)(3)(A)	—	---	<0.00232	<0.00234	<0.00243	<0.00231	<0.00231	<0.00225	<0.00245	<0.00246	<0.00228	<0.00227	<0.0022
Tetrachloroethene	127-18-4	Tier 1 $^{GW}Soil_{Ing}$ 0.050	Yes 350.71(k)(3)(A)	—	---	<0.00193	<0.00194	<0.00202	<0.00192	<0.00192	<0.00187	<0.00204	<0.00204	<0.0019	<0.00188	<0.00182
Toluene	108-88-3	Tier 1 $^{GW}Soil_{Ing}$ 8.21	Yes 350.71(k)(3)(A)	—	---	<0.00121	<0.00122	<0.00127	<0.00121	<0.00121	<0.00117	<0.00128	<0.00129	<0.00119	<0.00119	<0.00115
trans-1,2-Dichloroethene	156-60-5	Tier 1 $^{GW}Soil_{Ing}$ 0.490	Yes 350.71(k)(3)(A)	—	---	<0.00104	<0.00105	<0.00109	<0.00103	<0.00104	<0.001	<0.0011	<0.0011	<0.00102	<0.00102	<0.000982
trans-1,3-Dichloropropene	10061-02-6	Tier 1 $^{GW}Soil_{Ing}$ 0.036	Yes 350.71(k)(3)(A)	—	---	<0.00202	<0.00203	<0.00212	<0.00201	<0.00201	<0.00195	<0.00213	<0.00214	<0.00199	<0.00197	<0.00191
Trichloroethene	79-01-6	Tier 1 $^{GW}Soil_{Ing}$ 0.034	Yes 350.71(k)(3)(A)	—	---	<0.00116	<0.00116	<0.00121	<0.00115	<0.00115	<0.00112	<0.00122	<0.00123	<0.00114	<0.00113	<0.00109
Trichlorofluoromethane	75-69-4	Tier 1 $^{GW}Soil_{Ing}$ 128	Yes 350.71(k)(3)(A)	—	---	<0.00127	<0.00128	<0.00133	<0.00126	<0.00126	<0.00123	<0.00134	<0.00134	<0.00125	<0.00124	<0.0012
Vinyl chloride	75-01-4	Tier 1 $^{GW}Soil_{Ing}$ 0.022	Yes 350.71(k)(3)(A)	—	---	<0.0018	<0.00181	<0.00189	<0.00179	<0.00179	<0.00174	<0.0019	<0.00191	<0.00177	<0.00176	<0.0017
Xylenes, total	1330-20-7	Tier 1 $^{GW}Soil_{Ing}$ N/A	Yes 350.71(k)(3)(A)	—	---	<0.00366	<0.00369	<0.00385	<0.00365	<0.00366	<0.00355	<0.00388	<0.00389	<0.00361	<0.00359	<0.00347

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)		Screened from PCL Development		MQL (mg/kg)	Critical PCL		SB-5 9 feet 5/17/12	SB-6 1 feet 5/17/12	SB-6 2.5 feet 5/17/12	SB-7 1 feet 5/17/12	SB-7 5 feet 5/17/12	SB-7 7.5 feet 5/17/12	TMW-1 1 feet 5/16/12	TMW-1 4.5 feet 5/16/12	TMW-2 0.5 feet 5/16/12	TMW-2 4.5 feet 5/16/12	TMW-3 1 feet 5/16/12
SVOCs SW-846 8270C - mg/Kg																			
1,2,4-Trichlorobenzene	120-82-1	Tier 1 $^{GW}Soil_{Ing}$	4.79	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0554	<0.0581	<0.0554	<0.0547	—	<0.0581	<0.0588	<0.0545	<0.0539	<0.0528
1,2-Diphenylhydrazine	122-66-7	Tier 1 $^{GW}Soil_{Ing}$	0.032	Yes	350.71(k)(3)(B)	0.432	—	—	—	<0.052	<0.0545	<0.052	<0.0513	—	<0.0545	<0.0552	<0.0512	<0.0506	<0.0495
2,4,5-Trichlorophenol	95-95-4	Tier 1 $^{GW}Soil_{Ing}$	34	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0423	<0.0443	<0.0423	<0.0417	—	<0.0444	<0.0449	<0.0416	<0.0411	<0.0403
2,4,6-Trichlorophenol	88-06-2	Tier 1 $^{GW}Soil_{Ing}$	0.175	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0541	<0.0568	<0.0542	<0.0534	—	<0.0568	<0.0575	<0.0533	<0.0527	<0.0516
2,4-Dichlorophenol	120-83-2	Tier 1 $^{GW}Soil_{Ing}$	0.352	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0535	<0.0561	<0.0536	<0.0528	—	<0.0561	<0.0568	<0.0527	<0.052	<0.051
2,4-Dimethylphenol	105-67-9	Tier 1 $^{GW}Soil_{Ing}$	3.23	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0969	<0.102	<0.097	<0.0957	—	<0.102	<0.103	<0.0954	<0.0943	<0.0924
2,4-Dinitrophenol	51-28-5	Tier 1 $^{GW}Soil_{Ing}$	0.094	Yes	350.71(k)(3)(B)	2.19	—	—	—	<0.822	<0.863	<0.824	<0.812	—	<0.863	<0.874	<0.81	<0.8	<0.784
2,4-Dinitrotoluene	121-14-2	Tier 1 $^{GW}Soil_{Ing}$	0.005	Yes	350.71(k)(3)(B)	0.432	—	—	—	<0.194	<0.203	<0.194	<0.191	—	<0.203	<0.206	<0.191	<0.189	<0.185
2,6-Dinitrotoluene	606-20-2	Tier 1 $^{GW}Soil_{Ing}$	0.005	Yes	350.71(k)(3)(B)	0.432	—	—	—	<0.0505	<0.053	<0.0506	<0.0499	—	<0.053	<0.0537	<0.0497	<0.0492	<0.0481
2-Chloronaphthalene	91-58-7	Tier 1 $^{GW}Soil_{Ing}$	670	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0386	<0.0405	<0.0386	<0.0381	—	<0.0405	<0.041	<0.038	<0.0376	<0.0368
2-Chlorophenol	95-57-8	Tier 1 $^{GW}Soil_{Ing}$	1.63	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0359	<0.0377	<0.036	<0.0355	—	<0.0377	<0.0382	<0.0354	<0.035	<0.0342
2-Methylnaphthalene	91-57-6	Tier 1 $^{GW}Soil_{Ing}$	17.1	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0396	<0.0415	<0.0397	<0.0391	—	<0.0416	<0.0421	<0.039	<0.0385	<0.0378
2-Methylphenol	95-48-7	Tier 1 $^{GW}Soil_{Ing}$	7.12	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0491	<0.0515	<0.0492	<0.0485	—	<0.0515	<0.0522	<0.0484	<0.0478	<0.0468
2-Nitroaniline	88-74-4	Tier 1 $^{GW}Soil_{Ing}$	0.022	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0524	<0.0549	<0.0525	<0.0517	—	<0.055	<0.0557	<0.0516	<0.051	<0.0499
2-Nitrophenol	88-75-5	Tier 1 $^{GW}Soil_{Ing}$	0.135	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0777	<0.0815	<0.0778	<0.0767	—	<0.0815	<0.0825	<0.0765	<0.0756	<0.074
3 & 4 Methylphenol	106-44-5	Tier 1 $^{GW}Soil_{Ing}$	0.632	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0799	<0.0838	<0.08	<0.0788	—	<0.0838	<0.0849	<0.0787	<0.0777	<0.0761
3,3'-Dichlorobenzidine	91-94-1	Tier 1 $^{GW}Soil_{Ing}$	0.063	Yes	350.71(k)(3)(A)	—	—	—	—	<0.066 JL	<0.0692 JL	<0.066 JL	<0.0651 JL	—	<0.0692	<0.0701	<0.065	<0.0642	<0.0629
3-Nitroaniline	99-09-2	Tier 1 $^{GW}Soil_{Ing}$	0.026	Yes	350.71(k)(3)(B)	0.432	—	—	—	<0.0393 JL	<0.0412 JL	<0.0394 JL	<0.0388 JL	—	<0.0412	<0.0418	<0.0387	<0.0383	<0.0375
4,6-Dinitro-2-methylphenol	534-52-1	Tier 1 $^{GW}Soil_{Ing}$	0.005	Yes	350.71(k)(3)(B)	2.19	—	—	—	<0.247	<0.259	<0.247	<0.243	—	<0.259	<0.262	<0.243	<0.24	<0.235
4-Bromophenyl phenyl ether	101-55-3	Tier 1 $^{GW}Soil_{Ing}$	0.276	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0372	<0.0391	<0.0373	<0.0368	—	<0.0391	<0.0396	<0.0367	<0.0362	<0.0355
4-Chloro-3-methylphenol	59-50-7	Tier 1 $^{GW}Soil_{Ing}$	4.53	Yes	350.71(k)(3)(A)	—	—	—	—	<0.065	<0.0682	<0.0651	<0.0642	—	<0.0682	<0.0691	<0.064	<0.0633	<0.062
4-Chloroaniline	106-47-8	Tier 1 $^{GW}Soil_{Ing}$	0.021	Yes	350.71(k)(3)(A)	0.432	—	—	—	<0.0462 JL	<0.0485 JL	<0.0463 JL	<0.0456 JL	—	<0.0485	<0.0491	<0.0455	<0.045	<0.0441
4-Chlorophenyl phenyl ether	7005-72-3	Tier 1 $^{GW}Soil_{Ing}$	0.032	Yes	350.71(k)(3)(A)	0.432	—	—	—	<0.0315	<0.033	<0.0315	<0.0311	—	<0.0331	<0.0335	<0.031	<0.0307	<0.03
4-Nitroaniline	100-01-6	Tier 1 $^{GW}Soil_{Ing}$	0.108	Yes	350.71(k)(3)(B)	2.19	—	—	—	<0.123	<0.129	<0.123	<0.122	—	<0.129	<0.131	<0.121	<0.12	<0.118
4-Nitrophenol	100-02-7	Tier 1 $^{GW}Soil_{Ing}$	0.100	Yes	350.71(k)(3)(B)	0.432	—	—	—	<0.186	<0.195	<0.186	<0.184	—	<0.195	<0.198	<0.183	<0.181	<0.177
Acenaphthene	83-32-9	Tier 1 $^{GW}Soil_{Ing}$	236	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0428	<0.0448	<0.0428	<0.0422	—	<0.0449	<0.0454	<0.0421	<0.0416	<0.0408
Acenaphthylene	208-96-8	Tier 1 $^{GW}Soil_{Ing}$	409	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0404	<0.0424	<0.0404	<0.0399	—	<0.0424	<0.0429	<0.0398	<0.0393	<0.0385
Anthracene	120-12-7	Tier 1 $^{GW}Soil_{Ing}$	6890	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0304	<0.0319	<0.0304	<0.03	—	<0.0319	<0.0323	<0.0299	<0.0296	<0.029
Benzo[a]anthracene	56-55-3	Tier 1 $^{GW}Soil_{Ing}$	5.65	Yes	350.71(k)(1)	—	—	—	—	<0.0245	<0.0257	<0.0245	<0.0242	—	<0.0257	<0.026	<0.0241	<0.0239	<0.0234
Benzo[a]pyrene	50-32-8	Tier 1 $^{GW}Soil_{Ing}$	0.564	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0281	<0.0294	<0.0281	<0.0277	—	<0.0294	<0.0298	<0.0276	<0.0273	<0.0267
Benzo[b]fluoranthene	205-99-2	Tier 1 $^{GW}Soil_{Ing}$	5.71	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0643	<0.0675	<0.0644	<0.0635	—	<0.0675	<0.0684	<0.0634	<0.0626	<0.0613
Benzo[g,h,i]perylene	191-24-2	Tier 1 $^{GW}Soil_{Ing}$	1780	Yes	350.71(k)(1)	—	—	—	—	<0.0331	<0.0347	<0.0331	<0.0326	—	<0.0347	<0.0351	<0.0326	<0.0322	<0.0315
Benzo[k]fluoranthene	207-08-9	Tier 1 $^{GW}Soil_{Ing}$	57	Yes	350.71(k)(3)(A)	—	—	—	—	<0.049	<0.0514	<0.049	<0.0483	—	<0.0514	<0.052	<0.0482	<0.0477	<0.0467
Bis(2-chloroethoxy)methane	111-91-1	Tier 1 $^{GW}Soil_{Ing}$	0.012	Yes	350.71(k)(3)(B)	0.432	—	—	—	<0.0401	<0.042	<0.0401	<0.0395	—	<0.042	<0.0426	<0.0395	<0.039	<0.0382
Bis(2-chloroethyl)ether	111-44-4	Tier 1 $^{GW}Soil_{Ing}$	0.0021	Yes	350.71(k)(2)(A) 350.71(k)(3)(B)	0.432	—	—	—	<0.0423	<0.0443	<0.0423	<0.0417	—	<0.0443	<0.0449	<0.0416	<0.0411	<0.0403
Bis(2-chloroisopropyl) ether	108-60-1	Tier 1 $^{GW}Soil_{Ing}$	0.190	Yes	350.71(k)(3)(A)	—	—	—	—	<0.0336	<0.0352	<0.0336	<0.0331	—	<0.0352	<0.0357	<0.033	<0.0327	<0.032
Bis(2-ethylhexyl) phthalate	117-81-7	Tier 1 $^{GW}Soil_{Ing}$	43.2	Yes	350.71(k)(1)	—	—	—	—	<0.0516	<0.0542	<0.0517	<0.051	—	0.0895 J	<0.0549	0.0557 J	<0.0503	<0.0492
Butyl benzyl phthalate	85-68-7	Tier 1 $^{GW}Soil_{Ing}$	265	Yes	350.71(k)(1)	—	—	—	—	<0.0322	<0.0337	<0.0322	<0.0318	—	<0.0338	<0.0342	<0.0317	<0.0313	<0.0307
Chrysene	218-01-9	Tier 1 $^{GW}Soil_{Ing}$	561	Yes	350.71(k)(1)	—	—	—	—	<0.0279	<0.0292	<0.0279	<0.0275	—	<0.0293	<0.0296	<0.0275	<0.0271	<0.0266

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)		Screened from PCL Development		MQL (mg/kg)	Critical PCL		SB-5 9 feet 5/17/12	SB-6 1 feet 5/17/12	SB-6 2.5 feet 5/17/12	SB-7 1 feet 5/17/12	SB-7 5 feet 5/17/12	SB-7 7.5 feet 5/17/12	TMW-1 1 feet 5/16/12	TMW-1 4.5 feet 5/16/12	TMW-2 0.5 feet 5/16/12	TMW-2 4.5 feet 5/16/12	TMW-3 1 feet 5/16/12
SVOCs SW-846 8270C - mg/Kg (continued)																			
Dibenz[a,h]anthracene	53-70-3	Tier 1 $^{GW}Soil_{Ing}$	0.550	Yes	350.71(k)(3)(A)	---	---	---	---	<0.104	<0.109	<0.104	<0.102	---	<0.109	<0.11	<0.102	<0.101	<0.0987
Dibenzofuran	132-64-9	Tier 1 $^{GW}Soil_{Ing}$	33.4	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0442	<0.0464	<0.0443	<0.0436	---	<0.0464	<0.047	<0.0435	<0.043	<0.0421
Diethyl phthalate	84-66-2	Tier 1 $^{GW}Soil_{Ing}$	156	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0265	<0.0278	<0.0265	<0.0261	---	<0.0278	<0.0281	<0.0261	<0.0258	<0.0252
Dimethyl phthalate	131-11-3	Tier 1 $^{GW}Soil_{Ing}$	62	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0294	<0.0308	<0.0294	<0.029	---	<0.0308	<0.0312	<0.0289	<0.0286	<0.028
Di-n-butyl phthalate	84-74-2	Tier 1 $^{GW}Soil_{Ing}$	3317	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0303	<0.0318	<0.0303	<0.0299	---	<0.0318	<0.0322	<0.0298	<0.0295	<0.0289
Di-n-octyl phthalate	117-84-0	Tier 1 $^{GW}Soil_{Ing}$	1286	Yes	350.71(k)(3)(A)	---	---	---	---	<0.149	<0.156	<0.149	<0.147	---	<0.157	<0.159	<0.147	<0.145	<0.142
Diphenylamine	122-39-4	Tier 1 $^{GW}Soil_{Ing}$	9.65	Yes	350.71(k)(3)(A)	---	---	---	---	<0.028	<0.0294	<0.028	<0.0276	---	<0.0294	<0.0297	<0.0276	<0.0272	<0.0267
Fluoranthene	206-44-0	Tier 1 $^{GW}Soil_{Ing}$	1917	Yes	350.71(k)(1)	---	---	---	---	<0.0301	<0.0315	<0.0301	<0.0297	---	<0.0316	<0.032	<0.0296	<0.0293	<0.0287
Fluorene	86-73-7	Tier 1 $^{GW}Soil_{Ing}$	299	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0285	<0.0299	<0.0285	<0.0281	---	<0.0299	<0.0303	<0.028	<0.0277	<0.0271
Hexachlorobenzene	118-74-1	Tier 1 $^{GW}Soil_{Ing}$	1.07	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0346	<0.0362	<0.0346	<0.0341	---	<0.0363	<0.0367	<0.034	<0.0336	<0.0329
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}Soil_{Ing}$	3.29	Yes	350.71(k)(3)(A)	---	---	---	---	<0.05	<0.0525	<0.0501	<0.0494	---	<0.0525	<0.0531	<0.0493	<0.0487	<0.0477
Hexachlorocyclopentadiene	77-47-4	Tier 1 $^{GW}Soil_{Ing}$	13.7	Yes	350.71(k)(3)(A)	---	---	---	---	<0.208	<0.218	<0.209	<0.206	---	<0.219	<0.221	<0.205	<0.203	<0.199
Hexachloroethane	67-72-1	Tier 1 $^{GW}Soil_{Ing}$	1.84	Yes	350.71(k)(3)(A)	---	---	---	---	<0.053	<0.0556	<0.0531	<0.0524	---	<0.0557	<0.0564	<0.0522	<0.0516	<0.0506
Isophorone	78-59-1	Tier 1 $^{GW}Soil_{Ing}$	3.00	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0527	<0.0552	<0.0527	<0.052	---	<0.0552	<0.056	<0.0519	<0.0512	<0.0502
Naphthalene	91-20-3	Tier 1 $^{GW}Soil_{Ing}$	31	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0392	<0.0411	<0.0393	<0.0387	---	<0.0411	<0.0417	<0.0386	<0.0381	<0.0374
Nitrobenzene	98-95-3	Tier 1 $^{GW}Soil_{Ing}$	0.352	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0605	<0.0635	<0.0606	<0.0598	---	<0.0635	<0.0643	<0.0596	<0.0589	<0.0577
N-Nitrosodi-n-propylamine	621-64-7	Tier 1 $^{GW}Soil_{Ing}$	0.00035	Yes	350.71(k)(3)(A)	---	---	---	---	<0.03	<0.0314	<0.03	<0.0296	---	<0.0315	<0.0319	<0.0295	<0.0292	<0.0286
N-Nitrosodiphenylamine	86-30-6	Tier 1 $^{GW}Soil_{Ing}$	2.82	Yes	350.71(k)(3)(A)	---	---	---	---	<0.028	<0.0294	<0.028	<0.0276	---	<0.0294	<0.0297	<0.0276	<0.0272	<0.0267
Pentachloroethane	76-01-7	Tier 1 $^{GW}Soil_{Ing}$	0.097	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0374	<0.0392	<0.0375	<0.0369	---	<0.0393	<0.0398	<0.0369	<0.0364	<0.0357
Pentachlorophenol	87-86-5	Tier 1 $^{GW}Soil_{Ing}$	0.018	Yes	350.71(k)(3)(B)	2.19	---	---	---	<0.0621	<0.0652	<0.0622	<0.0613	---	<0.0652	<0.066	<0.0612	<0.0605	<0.0592
Phenanthrene	85-01-8	Tier 1 $^{GW}Soil_{Ing}$	416	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0273	<0.0286	<0.0273	<0.0269	---	<0.0286	<0.029	<0.0269	<0.0265	<0.026
Phenol	108-95-2	Tier 1 $^{GW}Soil_{Ing}$	19.1	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0404	<0.0424	<0.0405	<0.0399	---	<0.0424	<0.043	<0.0398	<0.0393	<0.0385
Pyrene	129-00-0	Tier 1 $^{GW}Soil_{Ing}$	1117	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0287	<0.0301	<0.0288	<0.0284	---	<0.0302	<0.0305	<0.0283	<0.028	<0.0274
Pyridine	110-86-1	Tier 1 $^{GW}Soil_{Ing}$	0.069	Yes	350.71(k)(3)(A)	---	---	---	---	<0.0475	<0.0499	<0.0476	<0.0469	---	<0.0499	<0.0505	<0.0468	<0.0463	<0.0453

Notes:
N/A - Not Applicable.
J - estimated concentration >SQL but <MQL.
Red Bold indicates concentration against which analytical data is compared for TRRP assessment purposes.
Bold indicates constituent concentration in sample > SQL.
MQLs only shown for constituents that are screened from PCL development where SQLs > RAL.

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)		Screened from PCL Development		MQL (mg/kg)	Critical PCL		TMW-3 4.5 feet 5/16/12	TMW-3 6.5 feet 5/16/12	TMW-4 1 feet 5/16/12	TMW-4 4.5 feet 5/16/12	TMW-5 1 feet 5/16/12	TMW-5 4.5 feet 5/16/12	TMW-5 6 feet 5/16/12
pH SW-846 9045C - Unitless															
pH	N/A	N/A	---	N/A	---	---	N/A	---	8.31	---	9.03	8.33	8.19	8.22	---
RCRA Metals SW-846 6020 & 7471A - mg/Kg															
Arsenic	7440-38-2	TSMBC	5.9	No	---	---	Tier 2 Calc	12.4	2.59	---	4.61	3.53	2.76	2	---
Barium	7440-39-3	Tier 1 $^{GW}Soil_{Ing}$	444	Yes	350.71(k)(1)	---	---	---	89	---	175	154	120	155	---
Cadmium	7440-43-9	Tier 1 $^{GW}Soil_{Ing}$	1.5	No	---	---	Tier 1 $^{Tot}Soil_{Comb}$	52	0.214 J	---	0.4 J	0.203 J	0.205 J	0.189 J	---
Chromium	7440-47-3	Tier 1 $^{GW}Soil_{Ing}$	2400	Yes	350.71(k)(1)	---	---	---	9.08	---	18.1	17.2	14.9	18.4	---
Lead	7439-92-1	TSMBC	15	No	---	---	Tier 3 SPLP	49.5	4.32	---	44.5	16.1	16.4	14.1	---
Selenium	7782-49-2	Tier 1 $^{GW}Soil_{Ing}$	2.30	Yes	350.71(k)(1)	---	---	---	<0.192	---	<0.216	<0.233	0.285 J	0.214 J	---
Silver	7440-22-4	Tier 1 $^{GW}Soil_{Ing}$	0.479	Yes	350.71(k)(3)(A)	---	---	---	<0.124	---	<0.139	<0.15	<0.123	<0.137	---
Mercury	7439-97-6	TSMBC	0.040	Yes	350.71(k)(1)	---	---	---	<0.00792	---	0.0124 J	0.00861 J	0.0174 J	<0.00763	---
SPLP RCRA Metals SW-846 6020 & 7471A mg/L															
Arsenic	7440-38-2	Tier 1 $^{GW}GW_{Ing}$	0.010	N/A	---	---	N/A	---	---	---	---	---	---	---	---
Cadmium	7440-43-9	Tier 1 $^{GW}GW_{Ing}$	0.005	N/A	---	---	N/A	---	---	---	---	---	---	---	---
Lead	7439-92-1	Tier 1 $^{GW}GW_{Ing}$	0.015	N/A	---	---	N/A	---	---	---	---	---	---	---	---
Herbicides SW-846 8151A - mg/L															
2,4-D	94-75-7	Tier 1 $^{GW}Soil_{Ing}$	2.63	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
Dalapon	75-99-0	Tier 1 $^{GW}Soil_{Ing}$	0.584	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
2,4-DB	94-82-6	Tier 1 $^{GW}Soil_{Ing}$	0.389	Yes	350.71(k)(1)	---	---	---	---	---	---	---	---	---	---
Dicamba	1918-00-9	Tier 1 $^{GW}Soil_{Ing}$	1.47	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
Dichlorprop	120-36-5	Tier 1 $^{GW}Soil_{Ing}$	0.469	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
Dinoseb	88-85-7	Tier 1 $^{GW}Soil_{Ing}$	0.350	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
Mecoprop	93-65-2	Tier 1 $^{GW}Soil_{Ing}$	0.047	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
MCPA	94-74-6	Tier 1 $^{GW}Soil_{Ing}$	0.023	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
2,4,5-T	93-76-5	Tier 1 $^{GW}Soil_{Ing}$	0.987	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
Silvex (2,4,5-TP)	93-72-1	Tier 1 $^{GW}Soil_{Ing}$	5.30	Yes	350.71(k)(3)(A)	---	---	---	---	---	---	---	---	---	---
VOCs SW-846 8260B - mg/Kg															
1,1,1,2-Tetrachloroethane	630-20-6	Tier 1 $^{GW}Soil_{Ing}$	1.42	Yes	350.71(k)(3)(A)	---	---	---	<0.00193	<0.00197	<0.00203	<0.00207	<0.00203	<0.00207	<0.00197
1,1,1-Trichloroethane	71-55-6	Tier 1 $^{GW}Soil_{Ing}$	1.62	Yes	350.71(k)(3)(A)	---	---	---	<0.0015	<0.00154	<0.00158	<0.00162	<0.00158	<0.00161	<0.00153
1,1,2,2-Tetrachloroethane	79-34-5	Tier 1 $^{GW}Soil_{Ing}$	0.023	Yes	350.71(k)(3)(A)	---	---	---	<0.0037	<0.00379	<0.0039	<0.00398	<0.00389	<0.00397	<0.00378
1,1,2-Trichloroethane	79-00-5	Tier 1 $^{GW}Soil_{Ing}$	0.020	Yes	350.71(k)(3)(A)	---	---	---	<0.00257	<0.00263	<0.00271	<0.00277	<0.00271	<0.00276	<0.00263
1,1-Dichloroethane	75-34-3	Tier 1 $^{GW}Soil_{Ing}$	18.5	Yes	350.71(k)(3)(A)	---	---	---	<0.000783	<0.000802	<0.000825	<0.000843	<0.000824	<0.000841	<0.0008
1,1-Dichloroethene	75-35-4	Tier 1 $^{GW}Soil_{Ing}$	0.050	Yes	350.71(k)(3)(A)	---	---	---	<0.001	<0.00102	<0.00105	<0.00108	<0.00105	<0.00107	<0.00102
1,2,4-Trimethylbenzene	95-63-6	Tier 1 $^{GW}Soil_{Ing}$	9.71	Yes	350.71(k)(3)(A)	---	---	---	<0.00233	<0.00239	<0.00246	<0.00251	<0.00246	<0.00251	<0.00238
1,2-Dibromoethane (EDB)	106-93-4	Tier 1 $^{GW}Soil_{Ing}$	0.00021	Yes	350.71(k)(3)(B)	0.00648	---	---	<0.00175	<0.00179	<0.00184	<0.00188	<0.00184	<0.00188	<0.00179
1,2-Dichlorobenzene	95-50-1	Tier 1 $^{GW}Soil_{Ing}$	17.9	Yes	350.71(k)(3)(A)	---	---	---	<0.00283	<0.0029	<0.00299	<0.00305	<0.00298	<0.00304	<0.00289
1,2-Dichloroethane	107-06-2	Tier 1 $^{GW}Soil_{Ing}$	0.014	Yes	350.71(k)(3)(A)	---	---	---	<0.000999	<0.00102	<0.00105	<0.00108	<0.00105	<0.00107	<0.00102
1,2-Dichloropropane	78-87-5	Tier 1 $^{GW}Soil_{Ing}$	0.023	Yes	350.71(k)(3)(A)	---	---	---	<0.00079	<0.000809	<0.000833	<0.000851	<0.000831	<0.000848	<0.000807
1,3-Dichlorobenzene	541-73-1	Tier 1 $^{GW}Soil_{Ing}$	6.75	Yes	350.71(k)(3)(A)	---	---	---	<0.00225	<0.0023	<0.00237	<0.00242	<0.00237	<0.00241	<0.0023
1,4-Dichlorobenzene	106-46-7	Tier 1 $^{GW}Soil_{Ing}$	2.10	Yes	350.71(k)(3)(A)	---	---	---	<0.00219	<0.00224	<0.00231	<0.00236	<0.0023	<0.00235	<0.00224

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VOCs SW-846 8260B - mg/Kg (continued)															
2-Butanone (MEK)	78-93-3	Tier 1 $^{GW}Soil_{Ing}$	29.3	Yes	350.71(k)(1)	—	---	---	<0.00534	<0.00546	**0.00857 J**	**0.0147**	<0.00561	<0.00573	0.0135
2-Hexanone	591-78-6	Tier 1 $^{GW}Soil_{Ing}$	0.323	Yes	350.71(k)(3)(A)	—	---	---	<0.00398	<0.00408	<0.0042	<0.00429	<0.00419	<0.00427	<0.00407
4-Isopropyltoluene	99-87-6	Tier 1 $^{GW}Soil_{Ing}$	232	Yes	350.71(k)(3)(A)	—	---	---	<0.00196	<0.00201	<0.00207	<0.00211	<0.00206	<0.00211	<0.002
4-Methyl-2-pentanone (MIBK)	108-10-1	Tier 1 $^{GW}Soil_{Ing}$	4.95	Yes	350.71(k)(3)(A)	—	---	---	<0.00297	<0.00304	<0.00312	<0.00319	<0.00312	<0.00318	<0.00303
Acetone	67-64-1	Tier 1 $^{GW}Soil_{Ing}$	42.7	Yes	350.71(k)(1)	—	---	---	<0.00553	<0.00566	**0.0241 J**	**0.0418 J**	<0.00581	<0.00593	**0.0423 J**
Benzene	71-43-2	Tier 1 $^{GW}Soil_{Ing}$	0.026	Yes	350.71(k)(3)(A)	—	---	---	<0.000905	<0.000927	<0.000954	<0.000974	<0.000952	<0.000972	<0.000924
Bromobenzene	108-86-1	Tier 1 $^{GW}Soil_{Ing}$	2.31	Yes	350.71(k)(3)(A)	—	---	---	<0.00268	<0.00275	<0.00283	<0.00289	<0.00282	<0.00288	<0.00274
Bromochloromethane	74-97-5	Tier 1 $^{GW}Soil_{Ing}$	3.84	Yes	350.71(k)(3)(A)	—	---	---	<0.000925	<0.000947	<0.000975	<0.000996	<0.000973	<0.000993	<0.000945
Bromodichloromethane	75-27-4	Tier 1 $^{GW}Soil_{Ing}$	0.065	Yes	350.71(k)(3)(A)	—	---	---	<0.000793	<0.000812	<0.000835	<0.000853	<0.000834	<0.000851	<0.000809
Bromoethane	74-96-4	Tier 1 $^{GW}Soil_{Ing}$	N/A	Yes	350.71(k)(3)(A)	—	---	---	<0.0013	<0.00133	<0.00137	<0.0014	<0.00137	<0.0014	<0.00133
Bromoform	75-25-2	Tier 1 $^{GW}Soil_{Ing}$	0.631	Yes	350.71(k)(3)(A)	—	---	---	<0.00143	<0.00147	<0.00151	<0.00154	<0.00151	<0.00154	<0.00146
Bromomethane	74-83-9	Tier 1 $^{GW}Soil_{Ing}$	0.131	Yes	350.71(k)(3)(A)	—	---	---	<0.00107	<0.00109	<0.00113	<0.00115	<0.00112	<0.00115	<0.00109
Carbon disulfide	75-15-0	Tier 1 $^{GW}Soil_{Ing}$	13.6	Yes	350.71(k)(3)(A)	—	---	---	<0.00116	<0.00118	<0.00122	<0.00124	<0.00122	<0.00124	<0.00118
Carbon tetrachloride	56-23-5	Tier 1 $^{GW}Soil_{Ing}$	0.062	Yes	350.71(k)(3)(A)	—	---	---	<0.00132	<0.00135	<0.00139	<0.00142	<0.00139	<0.00142	<0.00135
Chlorobenzene	108-90-7	Tier 1 $^{GW}Soil_{Ing}$	1.09	Yes	350.71(k)(3)(A)	—	---	---	<0.001	<0.00103	<0.00106	<0.00108	<0.00105	<0.00108	<0.00102
Chlorodibromomethane	124-48-1	Tier 1 $^{GW}Soil_{Ing}$	0.049	Yes	350.71(k)(3)(A)	—	---	---	<0.00206	<0.00211	<0.00217	<0.00222	<0.00217	<0.00221	<0.0021
Chloroethane	75-00-3	Tier 1 $^{GW}Soil_{Ing}$	30.9	Yes	350.71(k)(3)(A)	—	---	---	<0.00178	<0.00182	<0.00187	<0.00191	<0.00187	<0.00191	<0.00182
Chloroform	67-66-3	Tier 1 $^{GW}Soil_{Ing}$	1.02	Yes	350.71(k)(3)(A)	—	---	---	<0.000847	<0.000868	<0.000893	<0.000912	<0.000891	<0.00091	<0.000865
Chloromethane	74-87-3	Tier 1 $^{GW}Soil_{Ing}$	0.405	Yes	350.71(k)(3)(A)	—	---	---	<0.0035	<0.00359	<0.00369	<0.00377	<0.00368	<0.00376	<0.00358
cis-1,2-Dichloroethene	156-59-2	Tier 1 $^{GW}Soil_{Ing}$	0.248	Yes	350.71(k)(3)(A)	—	---	---	<0.000737	<0.000755	<0.000776	<0.000793	<0.000775	<0.000791	<0.000753
cis-1,3-Dichloropropene	10061-01-5	Tier 1 $^{GW}Soil_{Ing}$	0.0066	Yes	350.71(k)(3)(A)	—	---	---	<0.00152	<0.00155	<0.0016	<0.00163	<0.00159	<0.00163	<0.00155
Dibromomethane	74-95-3	Tier 1 $^{GW}Soil_{Ing}$	1.13	Yes	350.71(k)(3)(A)	—	---	---	<0.00103	<0.00105	<0.00108	<0.00111	<0.00108	<0.00111	<0.00105
Dichlorodifluoromethane	75-71-8	Tier 1 $^{GW}Soil_{Ing}$	239	Yes	350.71(k)(3)(A)	—	---	---	<0.0116	<0.0119	<0.0122	<0.0125	<0.0122	<0.0125	<0.0119
Ethylbenzene	100-41-4	Tier 1 $^{GW}Soil_{Ing}$	7.63	Yes	350.71(k)(3)(A)	—	---	---	<0.00141	<0.00144	<0.00148	<0.00151	<0.00148	<0.00151	<0.00144
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}Soil_{Ing}$	3.29	Yes	350.71(k)(3)(A)	—	---	---	<0.00211	<0.00216	<0.00222	<0.00227	<0.00222	<0.00226	<0.00215
Isopropylbenzene	98-82-8	Tier 1 $^{GW}Soil_{Ing}$	347	Yes	350.71(k)(3)(A)	—	---	---	<0.00211	<0.00216	<0.00222	<0.00227	<0.00221	<0.00226	<0.00215
Methyl tert-Butyl Ether	1634-04-4	Tier 1 $^{GW}Soil_{Ing}$	0.621	Yes	350.71(k)(3)(A)	—	---	---	<0.001	<0.00103	<0.00106	<0.00108	<0.00105	<0.00108	<0.00102
Methylene chloride	75-09-2	Tier 1 $^{GW}Soil_{Ing}$	0.013	Yes	350.71(k)(3)(A)	—	---	---	<0.00123	<0.00126	<0.00129	<0.00132	<0.00129	<0.00132	<0.00126
n-Butylbenzene	104-51-8	Tier 1 $^{GW}Soil_{Ing}$	121	Yes	350.71(k)(3)(A)	—	---	---	<0.00192	<0.00197	<0.00203	<0.00207	<0.00202	<0.00206	<0.00196
n-Propylbenzene	103-65-1	Tier 1 $^{GW}Soil_{Ing}$	45	Yes	350.71(k)(3)(A)	—	---	---	<0.00212	<0.00217	<0.00224	<0.00228	<0.00223	<0.00228	<0.00217
sec-Butylbenzene	135-98-8	Tier 1 $^{GW}Soil_{Ing}$	85	Yes	350.71(k)(3)(A)	—	---	---	<0.00244	<0.0025	<0.00258	<0.00263	<0.00257	<0.00262	<0.0025
Styrene	100-42-5	Tier 1 $^{GW}Soil_{Ing}$	3.25	Yes	350.71(k)(3)(A)	—	---	---	<0.00191	<0.00195	<0.00201	<0.00205	<0.002	<0.00205	<0.00195
tert-Butylbenzene	98-06-6	Tier 1 $^{GW}Soil_{Ing}$	180	Yes	350.71(k)(3)(A)	—	---	---	<0.0022	<0.00225	<0.00232	<0.00237	<0.00232	<0.00236	<0.00225
Tetrachloroethene	127-18-4	Tier 1 $^{GW}Soil_{Ing}$	0.050	Yes	350.71(k)(3)(A)	—	---	---	<0.00183	<0.00187	<0.00193	<0.00197	<0.00192	<0.00196	<0.00187
Toluene	108-88-3	Tier 1 $^{GW}Soil_{Ing}$	8.21	Yes	350.71(k)(3)(A)	—	---	---	<0.00115	<0.00118	<0.00121	<0.00124	<0.00121	<0.00124	<0.00118
trans-1,2-Dichloroethene	156-60-5	Tier 1 $^{GW}Soil_{Ing}$	0.490	Yes	350.71(k)(3)(A)	—	---	---	<0.000985	<0.00101	<0.00104	<0.00106	<0.00104	<0.00106	<0.00101
trans-1,3-Dichloropropene	10061-02-6	Tier 1 $^{GW}Soil_{Ing}$	0.036	Yes	350.71(k)(3)(A)	—	---	---	<0.00192	<0.00196	<0.00202	<0.00206	<0.00202	<0.00206	<0.00196
Trichloroethene	79-01-6	Tier 1 $^{GW}Soil_{Ing}$	0.034	Yes	350.71(k)(3)(A)	—	---	---	<0.0011	<0.00112	<0.00116	<0.00118	<0.00115	<0.00118	<0.00112
Trichlorofluoromethane	75-69-4	Tier 1 $^{GW}Soil_{Ing}$	128	Yes	350.71(k)(3)(A)	—	---	---	<0.0012	<0.00123	<0.00127	<0.00129	<0.00126	<0.00129	<0.00123
Vinyl chloride	75-01-4	Tier 1 $^{GW}Soil_{Ing}$	0.022	Yes	350.71(k)(3)(A)	—	---	---	<0.00171	<0.00175	<0.0018	<0.00184	<0.0018	<0.00183	<0.00174
Xylenes, total	1330-20-7	Tier 1 $^{GW}Soil_{Ing}$	N/A	Yes	350.71(k)(3)(A)	—	---	---	<0.00348	<0.00356	<0.00367	<0.00375	<0.00366	<0.00374	<0.00355

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SVOCs SW-846 8270C - mg/Kg															
1,2,4-Trichlorobenzene	120-82-1	Tier 1 $^{GW}Soil_{Ing}$	4.79	Yes	350.71(k)(3)(A)	—	—	—	<0.0522	—	<0.0551	<0.0561	<0.0549	<0.0563	—
1,2-Diphenylhydrazine	122-66-7	Tier 1 $^{GW}Soil_{Ing}$	0.032	Yes	350.71(k)(3)(B)	0.432	—	—	<0.049	—	<0.0517	<0.0527	<0.0515	<0.0528	—
2,4,5-Trichlorophenol	95-95-4	Tier 1 $^{GW}Soil_{Ing}$	34	Yes	350.71(k)(3)(A)	—	—	—	<0.0398	—	<0.0421 J	<0.0428 J	<0.0419 J	<0.043 J	—
2,4,6-Trichlorophenol	88-06-2	Tier 1 $^{GW}Soil_{Ing}$	0.175	Yes	350.71(k)(3)(A)	—	—	—	<0.051	—	<0.0539 J	<0.0549 J	<0.0537 J	<0.055 J	—
2,4-Dichlorophenol	120-83-2	Tier 1 $^{GW}Soil_{Ing}$	0.352	Yes	350.71(k)(3)(A)	—	—	—	<0.0504	—	<0.0532	<0.0542	<0.0531	<0.0543	—
2,4-Dimethylphenol	105-67-9	Tier 1 $^{GW}Soil_{Ing}$	3.23	Yes	350.71(k)(3)(A)	—	—	—	<0.0913	—	<0.0964	<0.0982	<0.0961	<0.0985	—
2,4-Dinitrophenol	51-28-5	Tier 1 $^{GW}Soil_{Ing}$	0.094	Yes	350.71(k)(3)(B)	2.19	—	—	<0.775	—	<0.819	<0.834	<0.816	<0.836	—
2,4-Dinitrotoluene	121-14-2	Tier 1 $^{GW}Soil_{Ing}$	0.005	Yes	350.71(k)(3)(B)	0.432	—	—	<0.183	—	<0.193	<0.197	<0.192	<0.197	—
2,6-Dinitrotoluene	606-20-2	Tier 1 $^{GW}Soil_{Ing}$	0.005	Yes	350.71(k)(3)(B)	0.432	—	—	<0.0476	—	<0.0503	<0.0512	<0.0501	<0.0513	—
2-Chloronaphthalene	91-58-7	Tier 1 $^{GW}Soil_{Ing}$	670	Yes	350.71(k)(3)(A)	—	—	—	<0.0364	—	<0.0384	<0.0391	<0.0383	<0.0392	—
2-Chlorophenol	95-57-8	Tier 1 $^{GW}Soil_{Ing}$	1.63	Yes	350.71(k)(3)(A)	—	—	—	<0.0338	—	<0.0357	<0.0364	<0.0356	<0.0365	—
2-Methylnaphthalene	91-57-6	Tier 1 $^{GW}Soil_{Ing}$	17.1	Yes	350.71(k)(3)(A)	—	—	—	<0.0373	—	<0.0394	<0.0401	<0.0393	<0.0402	—
2-Methylphenol	95-48-7	Tier 1 $^{GW}Soil_{Ing}$	7.12	Yes	350.71(k)(3)(A)	—	—	—	<0.0463	—	<0.0489	<0.0498	<0.0487	<0.0499	—
2-Nitroaniline	88-74-4	Tier 1 $^{GW}Soil_{Ing}$	0.022	Yes	350.71(k)(3)(A)	—	—	—	<0.0494	—	<0.0521	<0.0531	<0.052	<0.0532	—
2-Nitrophenol	88-75-5	Tier 1 $^{GW}Soil_{Ing}$	0.135	Yes	350.71(k)(3)(A)	—	—	—	<0.0732	—	<0.0773	<0.0787	<0.0771	<0.0789	—
3 & 4 Methylphenol	106-44-5	Tier 1 $^{GW}Soil_{Ing}$	0.632	Yes	350.71(k)(3)(A)	—	—	—	<0.0753	—	<0.0795	<0.081	<0.0792	<0.0812	—
3,3'-Dichlorobenzidine	91-94-1	Tier 1 $^{GW}Soil_{Ing}$	0.063	Yes	350.71(k)(3)(A)	—	—	—	<0.0621	—	<0.0656	<0.0669	<0.0654	<0.067	—
3-Nitroaniline	99-09-2	Tier 1 $^{GW}Soil_{Ing}$	0.026	Yes	350.71(k)(3)(B)	0.432	—	—	<0.037	—	<0.0391	<0.0398	<0.039	<0.0399	—
4,6-Dinitro-2-methylphenol	534-52-1	Tier 1 $^{GW}Soil_{Ing}$	0.005	Yes	350.71(k)(3)(B)	2.19	—	—	<0.232	—	<0.245	<0.25	<0.245	<0.251	—
4-Bromophenyl phenyl ether	101-55-3	Tier 1 $^{GW}Soil_{Ing}$	0.276	Yes	350.71(k)(3)(A)	—	—	—	<0.0351	—	<0.0371	<0.0377	<0.0369	<0.0378	—
4-Chloro-3-methylphenol	59-50-7	Tier 1 $^{GW}Soil_{Ing}$	4.53	Yes	350.71(k)(3)(A)	—	—	—	<0.0612	—	<0.0647	<0.0659	<0.0645	<0.0661	—
4-Chloroaniline	106-47-8	Tier 1 $^{GW}Soil_{Ing}$	0.021	Yes	350.71(k)(3)(A)	0.432	—	—	<0.0436	—	<0.046	<0.0469	<0.0459	<0.047	—
4-Chlorophenyl phenyl ether	7005-72-3	Tier 1 $^{GW}Soil_{Ing}$	0.032	Yes	350.71(k)(3)(A)	0.432	—	—	<0.0297	—	<0.0314	<0.0319	<0.0313	<0.032	—
4-Nitroaniline	100-01-6	Tier 1 $^{GW}Soil_{Ing}$	0.108	Yes	350.71(k)(3)(B)	2.19	—	—	<0.116	—	<0.123	<0.125	<0.122	<0.125	—
4-Nitrophenol	100-02-7	Tier 1 $^{GW}Soil_{Ing}$	0.100	Yes	350.71(k)(3)(B)	0.432	—	—	<0.175	—	<0.185	<0.189	<0.185	<0.189	—
Acenaphthene	83-32-9	Tier 1 $^{GW}Soil_{Ing}$	236	Yes	350.71(k)(3)(A)	—	—	—	<0.0403	—	<0.0426	<0.0433	<0.0424	<0.0435	—
Acenaphthylene	208-96-8	Tier 1 $^{GW}Soil_{Ing}$	409	Yes	350.71(k)(3)(A)	—	—	—	<0.038	—	<0.0402	<0.0409	<0.0401	<0.041	—
Anthracene	120-12-7	Tier 1 $^{GW}Soil_{Ing}$	6890	Yes	350.71(k)(3)(A)	—	—	—	<0.0286	—	<0.0303	<0.0308	<0.0302	<0.0309	—
Benzo[a]anthracene	56-55-3	Tier 1 $^{GW}Soil_{Ing}$	5.65	Yes	350.71(k)(1)	—	—	—	<0.0231	—	<0.0244	<0.0248	<0.0243	<0.0249	—
Benzo[a]pyrene	50-32-8	Tier 1 $^{GW}Soil_{Ing}$	0.564	Yes	350.71(k)(3)(A)	—	—	—	<0.0264	—	<0.0279	<0.0284	<0.0278	<0.0285	—
Benzo[b]fluoranthene	205-99-2	Tier 1 $^{GW}Soil_{Ing}$	5.71	Yes	350.71(k)(3)(A)	—	—	—	<0.0606	—	<0.064	<0.0652	<0.0638	<0.0654	—
Benzo[g,h,i]perylene	191-24-2	Tier 1 $^{GW}Soil_{Ing}$	1780	Yes	350.71(k)(1)	—	—	—	<0.0312	—	<0.0329	<0.0335	<0.0328	<0.0336	—
Benzo[k]fluoranthene	207-08-9	Tier 1 $^{GW}Soil_{Ing}$	57	Yes	350.71(k)(3)(A)	—	—	—	<0.0461	—	<0.0487	<0.0496	<0.0486	<0.0498	—
Bis(2-chloroethoxy)methane	111-91-1	Tier 1 $^{GW}Soil_{Ing}$	0.012	Yes	350.71(k)(3)(B)	0.432	—	—	<0.0377	—	<0.0399	<0.0406	<0.0397	<0.0407	—
Bis(2-chloroethyl)ether	111-44-4	Tier 1 $^{GW}Soil_{Ing}$	0.0021	Yes	350.71(k)(2)(A) 350.71(k)(3)(B)	0.432	—	—	<0.0398	—	<0.0421	<0.0428	0.204 J	<0.0429	—
Bis(2-chloroisopropyl) ether	108-60-1	Tier 1 $^{GW}Soil_{Ing}$	0.190	Yes	350.71(k)(3)(A)	—	—	—	<0.0316	—	<0.0334	<0.034	<0.0333	<0.0341	—
Bis(2-ethylhexyl) phthalate	117-81-7	Tier 1 $^{GW}Soil_{Ing}$	43.2	Yes	350.71(k)(1)	—	—	—	<0.0487	—	0.102 J	0.0752 J	<0.0512	<0.0525	—
Butyl benzyl phthalate	85-68-7	Tier 1 $^{GW}Soil_{Ing}$	265	Yes	350.71(k)(1)	—	—	—	<0.0303	—	<0.032	0.231 J	<0.0319	<0.0327	—
Chrysene	218-01-9	Tier 1 $^{GW}Soil_{Ing}$	561	Yes	350.71(k)(1)	—	—	—	<0.0263	—	<0.0277	<0.0283	<0.0277	<0.0283	—

TABLE 1 - Soil Analytical Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Analyte	CAS No.	Residential Assessment Level (mg/kg)	Screened from PCL Development		MQL (mg/kg)	Critical PCL	TMW-3 4.5 feet 5/16/12	TMW-3 6.5 feet 5/16/12	TMW-4 1 feet 5/16/12	TMW-4 4.5 feet 5/16/12	TMW-5 1 feet 5/16/12	TMW-5 4.5 feet 5/16/12	TMW-5 6 feet 5/16/12
SVOCs SW-846 8270C - mg/Kg (continued)													
Dibenz[a,h]anthracene	53-70-3	Tier 1 $^{GW}Soil_{ing}$ **0.550**	Yes	350.71(k)(3)(A)	---	---	<0.0976	—	<0.103	<0.105	<0.103	<0.105	—
Dibenzofuran	132-64-9	Tier 1 $^{GW}Soil_{ing}$ **33.4**	Yes	350.71(k)(3)(A)	---	---	<0.0417	—	<0.044	<0.0448	<0.0439	<0.0449	—
Diethyl phthalate	84-66-2	Tier 1 $^{GW}Soil_{ing}$ **156**	Yes	350.71(k)(3)(A)	—	—	<0.025	—	<0.0264	<0.0268	<0.0263	<0.0269	—
Dimethyl phthalate	131-11-3	Tier 1 $^{GW}Soil_{ing}$ **62**	Yes	350.71(k)(3)(A)	—	—	<0.0277	—	<0.0292	<0.0298	<0.0291	<0.0298	—
Di-n-butyl phthalate	84-74-2	Tier 1 $^{GW}Soil_{ing}$ **3317**	Yes	350.71(k)(3)(A)	---	---	<0.0285	—	<0.0302	<0.0307	<0.0301	<0.0308	—
Di-n-octyl phthalate	117-84-0	Tier 1 $^{GW}Soil_{ing}$ **1286**	Yes	350.71(k)(3)(A)	---	—	<0.141	—	<0.148	<0.151	<0.148	<0.152	—
Diphenylamine	122-39-4	Tier 1 $^{GW}Soil_{ing}$ **9.65**	Yes	350.71(k)(3)(A)	---	---	<0.0264	—	<0.0279	<0.0284	<0.0278	<0.0284	—
Fluoranthene	206-44-0	Tier 1 $^{GW}Soil_{ing}$ **1917**	Yes	350.71(k)(1)	---	---	<0.0283	—	<0.0299	<0.0305	<0.0298	<0.0306	—
Fluorene	86-73-7	Tier 1 $^{GW}Soil_{ing}$ **299**	Yes	350.71(k)(3)(A)	---	---	<0.0268	—	<0.0283	<0.0289	<0.0282	<0.0289	—
Hexachlorobenzene	118-74-1	Tier 1 $^{GW}Soil_{ing}$ **1.07**	Yes	350.71(k)(3)(A)	---	---	<0.0326	—	<0.0344	<0.035	<0.0343	<0.0351	—
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}Soil_{ing}$ **3.29**	Yes	350.71(k)(3)(A)	---	---	<0.0471	—	<0.0498	<0.0507	<0.0496	<0.0508	—
Hexachlorocyclopentadiene	77-47-4	Tier 1 $^{GW}Soil_{ing}$ **13.7**	Yes	350.71(k)(3)(A)	---	—	<0.196	—	<0.207 JL	<0.211 JL	<0.207 JL	<0.212 JL	—
Hexachloroethane	67-72-1	Tier 1 $^{GW}Soil_{ing}$ **1.84**	Yes	350.71(k)(3)(A)	—	---	<0.05	—	<0.0528	<0.0538	<0.0526	<0.0539	—
Isophorone	78-59-1	Tier 1 $^{GW}Soil_{ing}$ **3.00**	Yes	350.71(k)(3)(A)	—	---	<0.0496	—	<0.0524	<0.0534	<0.0522	<0.0535	—
Naphthalene	91-20-3	Tier 1 $^{GW}Soil_{ing}$ **31**	Yes	350.71(k)(3)(A)	---	---	<0.0369	—	<0.039	<0.0397	<0.0389	<0.0398	—
Nitrobenzene	98-95-3	Tier 1 $^{GW}Soil_{ing}$ **0.352**	Yes	350.71(k)(3)(A)	---	—	<0.057	—	<0.0602	<0.0614	<0.0601	<0.0615	—
N-Nitrosodi-n-propylamine	621-64-7	Tier 1 $^{GW}Soil_{ing}$ **0.00035**	Yes	350.71(k)(3)(A)	---	—	<0.0282	—	<0.0298	<0.0304	<0.0297	<0.0305	—
N-Nitrosodiphenylamine	86-30-6	Tier 1 $^{GW}Soil_{ing}$ **2.82**	Yes	350.71(k)(3)(A)	—	---	<0.0264	—	<0.0279	<0.0284	<0.0278	<0.0284	—
Pentachloroethane	76-01-7	Tier 1 $^{GW}Soil_{ing}$ **0.097**	Yes	350.71(k)(3)(A)	—	---	<0.0353	—	<0.0372	<0.0379	<0.0371	<0.038	—
Pentachlorophenol	87-86-5	Tier 1 $^{GW}Soil_{ing}$ 0.018	Yes	350.71(k)(3)(B)	2.19	---	<0.0585	—	<0.0618 J	<0.063 J	<0.0616 J	<0.0631 J	—
Phenanthrene	85-01-8	Tier 1 $^{GW}Soil_{ing}$ **416**	Yes	350.71(k)(3)(A)	—	---	<0.0257	—	<0.0271	<0.0276	<0.0271	<0.0277	—
Phenol	108-95-2	Tier 1 $^{GW}Soil_{ing}$ **19.1**	Yes	350.71(k)(3)(A)	---	---	<0.0381	—	<0.0402	<0.041	<0.0401	<0.0411	—
Pyrene	129-00-0	Tier 1 $^{GW}Soil_{ing}$ **1117**	Yes	350.71(k)(3)(A)	—	---	<0.0271	—	<0.0286	<0.0291	<0.0285	<0.0292	—
Pyridine	110-86-1	Tier 1 $^{GW}Soil_{ing}$ **0.069**	Yes	350.71(k)(3)(A)	—	---	<0.0448	—	<0.0473	<0.0482	<0.0472	<0.0483	—

Notes:
N/A - Not Applicable.
J - estimated concentration >SQL but <MQL.
Red Bold indicates concentration against which analytical data is compared for TRRP assessment purposes.
Bold indicates constituent concentration in sample > SQL.
MQLs only shown for constituents that are screened from PCL development where SQLs > RAL.

TABLE 2 - Tier 2 Calculations
Al-Kel Alliance, Inc. / Wilmer, Texas

Chemical of Concern	${}^{GW}GW_{Ing}$ (1) (mg/l)	LDF(2)	L2(3) (cm)	L1(4) (cm)	ρ_b (5) (g/cm^3)	Θws(6)	K_d (7) (cm^3/g)	H'(8)	Θ_{as} (9)	K_{sw} (10) (liter/kg)	${}^{GW}Soil_{Ing}$ (11) (mg/kg)
Arsenic	0.01	20	305	152	1.67	0.16	31	0	0.21	0.0322	12.4
Cadmium	0.005	20	305	152	1.67	0.16	4300	0	0.21	0.0002	860

Notes:
(1) Tier 1 Residential PCL
(2) Leachate Dilution Factor - Tier 1 default value for <0.5 acre source area
(3) Depth to groundwater - 305 cm (10 feet)
(4) Projected depth of concentration at or below Texas Specific Median Background Concentration
(5) Soil bulk density - Tier 1 default value
(6) Volumetric water content of vadose zone soils (soil-to-groundwater) - Tier 1 default value
(7) Soil is clay to 10 feet with averge pH of 8.64; or Kd = Koc*foc where foc = 0.002 (Tier 1 default)
(8) Henry's Law Constant - Default value
(9) Volumetric air content of vadose zone soils - Tier 1 default value
(10) Soil-leachate partition factor for COC - Tier 1 PCL equation
(11) Tier 1 PCL equation

$$ {}^{GW}Soil = \frac{\text{Groundwater PCL} * \text{LDF}}{K_{SW}} * \frac{L_2}{L_1} $$

TABLE 3 - Screening Target COCs from PCL Development per §§350.71(k)(2)(A) and (k)(3)(B)
Al-Kel Alliance, Inc. / Wilmer, Texas

Evaluated COCs for Screening				
Target COCs	1,2-Dibromethane (VOC)	Bis(2-chloroethyl)ether (SVOC)	Select SVOCs *	Select SVOCs **
Media	Soil	Soil	Soil	Groundwater
Reason for Screening	SQLs exceed the RAL	One sample exhibited a COC concentration above the RAL.	SQLs exceed the RALs.	SQLs exceed the RALs.
Criteria for Screening Target COCs from PCL Development	**Evaluation of Criteria for COCs**			
The frequency of detection in soil samples is less than 5% of 20 or more samples - §350.71(k)(2)(A)(i) and (ii)	N/A	Only one of 24 samples (4%) exhibited a concentration of bis(2-chloroethyl)ether above the SQL.	N/A	N/A
Site data support that a PCL is not needed for the COC - §350.71(k)(2)(A)(iii)	N/A	The absence of bis(2-chloroethyl)ether in all other soil samples indicates that development of a PCL is not necessary.	N/A	N/A
The analytical method is appropriate for the intended use of the data - §350.71(k)(3)(B)(i)	Standard method SW 846 8260 was used for VOC analysis.	Standard method SW 846 8270 was used for SVOC analysis.	Standard method SW 846 8270 was used for SVOC analysis.	Standard method SW 846 8270 was used for SVOC analysis.
The COC is not anticipated to be present in the affected on-site property - §350.71(k)(3)(B)(ii)	The use of 1,2-dibromethane, used mainly as an additive for pesticides is not known to have been used on the property.	The use of bis(2-chloroethyl)ether, used mainly as an additive for pesticides, is not known to have been used on the property.	The use of select SVOCs is not known to have been used on the property. The SVOCs are used for manufacturing dyes/pigments, pesticides, slimicides, and foam polyurethanes.	The use of select SVOCs is not known to have been used on the property. The SVOCs are used for manufacturing dyes/pigments, pesticides, pharmaceuticals, and foam polyurethanes.
The SQLs of the COC in critical samples are less than the Method Quantitation Limits (MQL) of the analytical method used - §350.71(k)(3)(B)(iii)	The SQLs< MQLs, and MQLs for all samples are appropriate for the analytical method (≤ 0.00648 mg/kg).	The SQLs< MQLs, and MQLs for all samples are appropriate for the analytical method (≤ 0.432 mg/kg);	The SQLs< MQLs, and MQLs for all samples are appropriate for the analytical method (≤ 2.19 mg/kg for 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, 4-nitrolaniline and pentachlorophenol; ≤ 0.432 mg/kg for all other SVOCs).	The SQLs< MQLs, and MQLs for all samples are appropriate for the analytical method (0.05 mg/L for 3,3'-Dichlorobenzidine and 4,6-Dinitro-2-methylphenol; and, 0.01 for all other SVOCs).
The COC is not a companion or daughter product of parent a COC and no companion or daughter products to the parent COC are detected - §350.71(k)(3)(B)(iv) and (v)	No companion or daughter products are known to result from the environmental degradation of 1,2-dibromethane.	No companion or daughter products are known to result from the environmental degradation of bis(2-chloroethyl)ether.	No companion or daughter products are known to result from the environmental degradation of select SVOCs.	No companion or daughter products are known to result from the environmental degradation of select SVOCs.
The potential human health or ecological exposure to the COC is low irrespective of physical or institutional controls associated with the property - §350.71(k)(3)(B)(vi)	The actual presence of 1,2-dibromethane is not likely given the absence of other VOCs in analyzed soil samples; thus, the potential for exposure to the COC is low.	The actual presence of bis(2-chloroethyl)ether is not likely given the absence of other SVOCs in analyzed soil samples; thus, the potential for exposure to the COC is low.	The actual presence of select SVOCs is not likely given the absence of other SVOCs in analyzed soil samples; thus, the potential for exposure to the COCs is low.	The actual presence of select SVOCs is not likely given the absence of other SVOCs in analyzed groundwater samples; thus, the potential for exposure to the COCs is low.

* 1,2-Diphenylhydrazine, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Nitroaniline, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Chloroaniline, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, 4-Nitrophenol, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Pentachlorophenol.

** 2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl phenyl ether, 4-Chloroaniline, Benzo(a)pyrene, Bis(2-chloroethoxy)methane, Dibenz(a,h)anthracene, Hexachlorobenzene, N-Nitrosodi-n-propylamine.

N/A – Not Applicable.

TABLE 4 - Groundwater Quality Data Summary
Al-Kel Alliance, Inc. / Wilmer, Texas

Well ID#	Date	Water Level FTOC (feet)	Total Depth FTOC (feet)	Temperature (°C)	Conductivitiy (mS/cm)	DO (mg/L)	pH	ORP (mV)
TMW-1	05/18/12	10.30	18.64	22.83	0.520	4.83	7.35	187.0
TMW-2	05/18/12	Dry	10.12	NA	NA	NA	NA	NA
TMW-3	05/18/12	Dry	11.22	NA	NA	NA	NA	NA
TMW-4	05/18/12	Dry	10.13	NA	NA	NA	NA	NA
TMW-5	05/18/12	Dry	10.12	NA	NA	NA	NA	NA

FTOC (From Top of Casing).
Water quality parameters obtained during well purging with YSI 556.
NA - Field parameter not obtained due to dry well.

TABLE 5 - Groundwater Analytical Data Summary
Al-Kel Alliance, Inc. / Wimer, Texas

Analyte	CAS No.	RAL (mg/L)		Screened from PCL Development	MQL (mg/L)	Critical PCL (mg/L)		TMW-1	DUP-20120518
								5/18/10	5/18/10
RCRA Metals SW-846 6020 & 7471A - mg/L									
Arsenic	7440-38-2	Tier 1 $^{GW}GW_{Ing}$	0.010	No	---	Tier 1 $^{GW}GW_{Ing}$	0.010	0.00138 J	0.00162 J
Barium	7440-39-3	Tier 1 $^{GW}GW_{Ing}$	2.000	Yes 350.71(k)(3)(A)	---	---	---	0.0715	0.0712
Cadmium	7440-43-9	Tier 1 $^{GW}GW_{Ing}$	0.005	No	---	Tier 1 $^{GW}GW_{Ing}$	0.005	<0.00006	<0.00006
Chromium	7440-47-3	Tier 1 $^{GW}GW_{Ing}$	0.100	Yes 350.71(k)(1)	---	---	---	0.00116 J	<0.001
Lead	7439-92-1	Tier 1 $^{GW}GW_{Ing}$	0.015	No	---	Tier 1 $^{GW}GW_{Ing}$	0.015	<0.0000525	0.00007
Selenium	7782-49-2	Tier 1 $^{GW}GW_{Ing}$	0.050	Yes 350.71(k)(1)	---	---	---	0.00114 J	0.00146 J
Silver	7440-22-4	Tier 1 $^{GW}GW_{Ing}$	0.122	Yes 350.71(k)(3)(A)	---	---	---	<0.000108	<0.000108
Mercury	7439-97-6	Tier 1 $^{GW}GW_{Ing}$	0.002	Yes 350.71(k)(3)(A)	---	---	---	<0.000062	<0.000062
Herbicides SW-846 8151A - mg/L									
2,4-D	94-75-7	Tier 1 $^{GW}GW_{Ing}$	0.070	Yes 350.71(k)(3)(A)	---	---	---	<0.0000392	<0.0000392
Dalapon	75-99-0	Tier 1 $^{GW}GW_{Ing}$	0.200	Yes 350.71(k)(3)(A)	---	---	---	<0.00098	<0.00098
2,4-DB	94-82-6	Tier 1 $^{GW}GW_{Ing}$	0.196	Yes 350.71(k)(3)(A)	---	---	---	<0.000049	<0.000049
Dicamba	1918-00-9	Tier 1 $^{GW}GW_{Ing}$	0.733	Yes 350.71(k)(3)(A)	---	---	---	<0.0000098	<0.0000098
Dichlorprop	120-36-5	Tier 1 $^{GW}GW_{Ing}$	0.244	Yes 350.71(k)(3)(A)	---	---	---	<0.0000294	<0.0000294
Dinoseb	88-85-7	Tier 1 $^{GW}GW_{Ing}$	0.007	Yes 350.71(k)(3)(A)	---	---	---	<0.0000196	<0.0000196
Mecoprop	93-65-2	Tier 1 $^{GW}GW_{Ing}$	0.024	Yes 350.71(k)(3)(A)	---	---	---	<0.00259	<0.00259
MCPA	94-74-6	Tier 1 $^{GW}GW_{Ing}$	0.012	Yes 350.71(k)(3)(A)	---	---	---	<0.00567	<0.00567
2,4,5-T	93-76-5	Tier 1 $^{GW}GW_{Ing}$	0.244	Yes 350.71(k)(3)(A)	---	---	---	<0.0000196	<0.0000196
Silvex (2,4,5-TP)	93-72-1	Tier 1 $^{GW}GW_{Ing}$	0.050	Yes 350.71(k)(3)(A)	---	---	---	<0.0000196	<0.0000196
VOCs SW-846 8260B - mg/L									
1,1,1,2-Tetrachloroethane	630-20-6	Tier 1 $^{GW}GW_{Ing}$	0.035	Yes 350.71(k)(3)(A)	---	---	---	<0.000332	<0.000332
1,1,1-Trichloroethane	71-55-6	Tier 1 $^{GW}GW_{Ing}$	0.200	Yes 350.71(k)(3)(A)	---	---	---	<0.00036	<0.00036
1,1,2,2-Tetrachloroethane	79-34-5	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	---	---	---	<0.00031	<0.00031
1,1,2-Trichloroethane	79-00-5	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	---	---	---	<0.000352	<0.000352
1,1-Dichloroethane	75-34-3	Tier 1 $^{GW}GW_{Ing}$	4.888	Yes 350.71(k)(3)(A)	---	---	---	<0.000374	<0.000374
1,1-Dichloroethene	75-35-4	Tier 1 $^{GW}GW_{Ing}$	0.007	Yes 350.71(k)(3)(A)	---	---	---	<0.000427	<0.000427
1,2,4-Trimethylbenzene	95-63-6	Tier 1 $^{GW}GW_{Ing}$	1.222	Yes 350.71(k)(3)(A)	---	---	---	<0.000598	<0.000598
1,2-Dibromoethane (EDB)	106-93-4	Tier 1 $^{GW}GW_{Ing}$	0.000	Yes 350.71(k)(3)(A)	---	---	---	<0.0005	<0.0005
1,2-Dichlorobenzene	95-50-1	Tier 1 $^{GW}GW_{Ing}$	0.600	Yes 350.71(k)(3)(A)	---	---	---	<0.000434	<0.000434
1,2-Dichloroethane	107-06-2	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	---	---	---	<0.000392	<0.000392
1,2-Dichloropropane	78-87-5	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	---	---	---	<0.000373	<0.000373
1,3-Dichlorobenzene	541-73-1	Tier 1 $^{GW}GW_{Ing}$	0.733	Yes 350.71(k)(3)(A)	---	---	---	<0.000386	<0.000386
1,4-Dichlorobenzene	106-46-7	Tier 1 $^{GW}GW_{Ing}$	0.075	Yes 350.71(k)(3)(A)	---	---	---	<0.000293	<0.000293
2-Butanone (MEK)	78-93-3	Tier 1 $^{GW}GW_{Ing}$	14.665	Yes 350.71(k)(3)(A)	---	---	---	<0.0011	<0.0011
2-Hexanone	591-78-6	Tier 1 $^{GW}GW_{Ing}$	0.122	Yes 350.71(k)(3)(A)	---	---	---	<0.005	<0.005
4-Isopropyltoluene	99-87-6	Tier 1 $^{GW}GW_{Ing}$	2.444	Yes 350.71(k)(3)(A)	---	---	---	<0.000633	<0.000633
4-Methyl-2-pentanone (MIBK)	108-10-1	Tier 1 $^{GW}GW_{Ing}$	1.955	Yes 350.71(k)(3)(A)	---	---	---	<0.00108	<0.00108
Acetone	67-64-1	Tier 1 $^{GW}GW_{Ing}$	21.998	Yes 350.71(k)(1)	---	---	---	0.00494 J	0.00519
Benzene	71-43-2	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	---	---	---	<0.000339	<0.000339
Bromobenzene	108-86-1	Tier 1 $^{GW}GW_{Ing}$	0.196	Yes 350.71(k)(3)(A)	---	---	---	<0.000394	<0.000394
Bromochloromethane	74-97-5	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes 350.71(k)(3)(A)	---	---	---	<0.000368	<0.000368
Bromodichloromethane	75-27-4	Tier 1 $^{GW}GW_{Ing}$	0.015	Yes 350.71(k)(3)(A)	---	---	---	<0.000369	<0.000369
Bromoethane	74-96-4	Tier 1 $^{GW}GW_{Ing}$	#N/A	Yes 350.71(k)(3)(A)	---	---	---	<0.000381	<0.000381
Bromoform	75-25-2	Tier 1 $^{GW}GW_{Ing}$	0.116	Yes 350.71(k)(3)(A)	---	---	---	<0.000684	<0.000684
Bromomethane	74-83-9	Tier 1 $^{GW}GW_{Ing}$	0.034	Yes 350.71(k)(3)(A)	---	---	---	<0.00116	<0.00116
Carbon disulfide	75-15-0	Tier 1 $^{GW}GW_{Ing}$	2.444	Yes 350.71(k)(3)(A)	---	---	---	<0.000383	<0.000383
Carbon tetrachloride	56-23-5	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	---	---	---	<0.000335	<0.000335
Chlorobenzene	108-90-7	Tier 1 $^{GW}GW_{Ing}$	0.100	Yes 350.71(k)(3)(A)	---	---	---	<0.000333	<0.000333
Chlorodibromomethane	124-48-1	Tier 1 $^{GW}GW_{Ing}$	0.011	Yes 350.71(k)(3)(A)	---	---	---	<0.000278	<0.000278
Chloroethane	75-00-3	Tier 1 $^{GW}GW_{Ing}$	9.777	Yes 350.71(k)(3)(A)	---	---	---	<0.00134	<0.00134
Chloroform	67-66-3	Tier 1 $^{GW}GW_{Ing}$	0.244	Yes 350.71(k)(3)(A)	---	---	---	<0.000349	<0.000349

TABLE 5 - Groundwater Analytical Data Summary
Al-Kel Alliance, Inc. / Wimer, Texas

Analyte	CAS No.	RAL (mg/L)		Screened from PCL Development	MQL (mg/L)	Critical PCL (mg/L)	TMW-1	DUP-20120518
							5/18/10	5/18/10
VOCs SW-846 8260B - mg/L								
Chloromethane	74-87-3	Tier 1 $^{GW}GW_{Ing}$	0.070	Yes 350.71(k)(3)(A)	----	---- ----	<0.000546	<0.000546
cis-1,2-Dichloroethene	156-59-2	Tier 1 $^{GW}GW_{Ing}$	0.070	Yes 350.71(k)(3)(A)	----	---- ----	<0.000367	<0.000367
cis-1,3-Dichloropropene	10061-01-5	Tier 1 $^{GW}GW_{Ing}$	0.002	Yes 350.71(k)(3)(A)	----	---- ----	<0.0005	<0.0005
Dibromomethane	74-95-3	Tier 1 $^{GW}GW_{Ing}$	0.122	Yes 350.71(k)(3)(A)	----	---- ----	<0.000407	<0.000407
Dichlorodifluoromethane	75-71-8	Tier 1 $^{GW}GW_{Ing}$	4.888	Yes 350.71(k)(3)(A)	----	---- ----	<0.000581	<0.000581
Ethylbenzene	100-41-4	Tier 1 $^{GW}GW_{Ing}$	0.700	Yes 350.71(k)(3)(A)	----	---- ----	<0.000416	<0.000416
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}GW_{Ing}$	0.012	Yes 350.71(k)(3)(A)	----	---- ----	<0.000567	<0.000567
Isopropylbenzene	98-82-8	Tier 1 $^{GW}GW_{Ing}$	2.444	Yes 350.71(k)(3)(A)	----	---- ----	<0.000332	<0.000332
Methyl tert-Butyl Ether	1634-04-4	Tier 1 $^{GW}GW_{Ing}$	0.244	Yes 350.71(k)(3)(A)	----	---- ----	<0.000336	<0.000336
Methylene chloride	75-09-2	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	----	---- ----	<0.000422	<0.000422
n-Butylbenzene	104-51-8	Tier 1 $^{GW}GW_{Ing}$	1.222	Yes 350.71(k)(3)(A)	----	---- ----	<0.000878	<0.000878
n-Propylbenzene	103-65-1	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes 350.71(k)(3)(A)	----	---- ----	<0.000441	<0.000441
sec-Butylbenzene	135-98-8	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes 350.71(k)(3)(A)	----	---- ----	<0.000609	<0.000609
Styrene	100-42-5	Tier 1 $^{GW}GW_{Ing}$	0.100	Yes 350.71(k)(3)(A)	----	---- ----	<0.000269	<0.000269
tert-Butylbenzene	98-06-6	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes 350.71(k)(3)(A)	----	---- ----	<0.00031	<0.00031
Tetrachloroethene	127-18-4	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	----	---- ----	<0.00064	<0.00064
Toluene	108-88-3	Tier 1 $^{GW}GW_{Ing}$	1.000	Yes 350.71(k)(3)(A)	----	---- ----	<0.000288	<0.000288
trans-1,2-Dichloroethene	156-60-5	Tier 1 $^{GW}GW_{Ing}$	0.100	Yes 350.71(k)(3)(A)	----	---- ----	<0.000372	<0.000372
trans-1,3-Dichloropropene	10061-02-6	Tier 1 $^{GW}GW_{Ing}$	0.009	Yes 350.71(k)(3)(A)	----	---- ----	<0.00022	<0.00022
Trichloroethene	79-01-6	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(A)	----	---- ----	<0.000449	<0.000449
Trichlorofluoromethane	75-69-4	Tier 1 $^{GW}GW_{Ing}$	7.333	Yes 350.71(k)(3)(A)	----	---- ----	<0.000573	<0.000573
Vinyl chloride	75-01-4	Tier 1 $^{GW}GW_{Ing}$	0.0020	Yes 350.71(k)(3)(A)	----	---- ----	<0.000537	<0.000537
Xylenes, total	1330-20-7	Tier 1 $^{GW}GW_{Ing}$	10.000	Yes 350.71(k)(3)(A)	----	---- ----	<0.0012	<0.0012
SVOCs SW-846 8270C - mg/L								
1,2,4-Trichlorobenzene	120-82-1	Tier 1 $^{GW}GW_{Ing}$	0.070	Yes 350.71(k)(3)(A)	----	---- ----	<0.00084	<0.00084
1,2-Diphenylhydrazine	122-66-7	Tier 1 $^{GW}GW_{Ing}$	0.0011	Yes 350.71(k)(3)(A)	----	---- ----	<0.000978	<0.000978
2,4,5-Trichlorophenol	95-95-4	Tier 1 $^{GW}GW_{Ing}$	2.444	Yes 350.71(k)(3)(A)	----	---- ----	<0.00115	<0.00115
2,4,6-Trichlorophenol	88-06-2	Tier 1 $^{GW}GW_{Ing}$	0.024	Yes 350.71(k)(3)(A)	----	---- ----	<0.00109	<0.00109
2,4-Dichlorophenol	120-83-2	Tier 1 $^{GW}GW_{Ing}$	0.073	Yes 350.71(k)(3)(A)	----	---- ----	<0.00103	<0.00103
2,4-Dimethylphenol	105-67-9	Tier 1 $^{GW}GW_{Ing}$	0.489	Yes 350.71(k)(3)(A)	----	---- ----	<0.0019	<0.0019
2,4-Dinitrophenol	51-28-5	Tier 1 $^{GW}GW_{Ing}$	0.049	Yes 350.71(k)(3)(A)	----	---- ----	<0.00374	<0.00374
2,4-Dinitrotoluene	121-14-2	Tier 1 $^{GW}GW_{Ing}$	0.0013	Yes 350.71(k)(3)(B)(i-vi)	0.01	---- ----	<0.00288	<0.00288
2,6-Dinitrotoluene	606-20-2	Tier 1 $^{GW}GW_{Ing}$	0.0013	Yes 350.71(k)(3)(A)	----	---- ----	<0.00103	<0.00103
2-Chloronaphthalene	91-58-7	Tier 1 $^{GW}GW_{Ing}$	1.955	Yes 350.71(k)(3)(A)	----	---- ----	<0.00146	<0.00146
2-Chlorophenol	95-57-8	Tier 1 $^{GW}GW_{Ing}$	0.122	Yes 350.71(k)(3)(A)	----	---- ----	<0.00149	<0.00149
2-Methylnaphthalene	91-57-6	Tier 1 $^{GW}GW_{Ing}$	0.098	Yes 350.71(k)(3)(A)	----	---- ----	<0.000969	<0.000969
2-Methylphenol	95-48-7	Tier 1 $^{GW}GW_{Ing}$	1.222	Yes 350.71(k)(3)(A)	----	---- ----	<0.00182	<0.00182
2-Nitroaniline	88-74-4	Tier 1 $^{GW}GW_{Ing}$	0.007	Yes 350.71(k)(3)(A)	----	---- ----	<0.00119	<0.00119
2-Nitrophenol	88-75-5	Tier 1 $^{GW}GW_{Ing}$	0.049	Yes 350.71(k)(3)(A)	----	---- ----	<0.00105	<0.00105
3 & 4 Methylphenol	108-39-4	Tier 1 $^{GW}GW_{Ing}$	1.222	Yes 350.71(k)(3)(A)	----	---- ----	<0.00258	<0.00258
3,3'-Dichlorobenzidine	91-94-1	Tier 1 $^{GW}GW_{Ing}$	0.0020	Yes 350.71(k)(3)(B)(i-vi)	0.05	---- ----	<0.01	<0.01
3-Nitroaniline	99-09-2	Tier 1 $^{GW}GW_{Ing}$	0.007	Yes 350.71(k)(3)(A)	----	---- ----	<0.00122	<0.00122
4,6-Dinitro-2-methylphenol	534-52-1	Tier 1 $^{GW}GW_{Ing}$	0.0024	Yes 350.71(k)(3)(B)(i-vi)	0.05	---- ----	<0.00356	<0.00356
4-Bromophenyl phenyl ether	101-55-3	Tier 1 $^{GW}GW_{Ing}$	0.000061	Yes 350.71(k)(3)(B)(i-vi)	0.01	---- ----	<0.000933	<0.000933
4-Chloro-3-methylphenol	59-50-7	Tier 1 $^{GW}GW_{Ing}$	0.122	Yes 350.71(k)(3)(A)	----	---- ----	<0.00107	<0.00107
4-Chloroaniline	106-47-8	Tier 1 $^{GW}GW_{Ing}$	0.005	Yes 350.71(k)(3)(B)(i-vi)	0.01	---- ----	<0.006	<0.006
4-Chlorophenyl phenyl ether	7005-72-3	Tier 1 $^{GW}GW_{Ing}$	0.00006	Yes 350.71(k)(3)(B)(i-vi)	0.01	---- ----	<0.00144	<0.00144
4-Nitroaniline	100-01-6	Tier 1 $^{GW}GW_{Ing}$	0.046	Yes 350.71(k)(3)(A)	----	---- ----	<0.00109	<0.00109
4-Nitrophenol	100-02-7	Tier 1 $^{GW}GW_{Ing}$	0.049	Yes 350.71(k)(3)(A)	----	---- ----	<0.0041	<0.0041

TABLE 5 - Groundwater Analytical Data Summary
Al-Kel Alliance, Inc. / Wimer, Texas

Analyte	CAS No.	RAL (mg/L)		Screened from PCL Development		MQL (mg/L)	Critical PCL (mg/L)		TMW-1	DUP-20120518
									5/18/10	5/18/10
SVOCs SW-846 8270C - mg/L										
Acenaphthene	83-32-9	Tier 1 $^{GW}GW_{Ing}$	1.467	Yes	350.71(k)(3)(A)	----	----	----	<0.0011	<0.0011
Acenaphthylene	208-96-8	Tier 1 $^{GW}GW_{Ing}$	1.467	Yes	350.71(k)(3)(A)	----	----	----	<0.000905	<0.000905
Anthracene	120-12-7	Tier 1 $^{GW}GW_{Ing}$	7.333	Yes	350.71(k)(3)(A)	----	----	----	<0.00113	<0.00113
Benzo[a]anthracene	56-55-3	Tier 1 $^{GW}GW_{Ing}$	0.0013	Yes	350.71(k)(3)(A)	----	----	----	<0.00112	<0.00112
Benzo[a]pyrene	50-32-8	Tier 1 $^{GW}GW_{Ing}$	0.00020	Yes	350.71(k)(3)(B)(i-vi)	0.01	----	----	<0.00111	<0.00111
Benzo[b]fluoranthene	205-99-2	Tier 1 $^{GW}GW_{Ing}$	0.0013	Yes	350.71(k)(3)(A)	----	----	----	<0.000788	<0.000788
Benzo[g,h,i]perylene	191-24-2	Tier 1 $^{GW}GW_{Ing}$	0.733	Yes	350.71(k)(3)(A)	----	----	----	<0.000762	<0.000762
Benzo[k]fluoranthene	207-08-9	Tier 1 $^{GW}GW_{Ing}$	0.013	Yes	350.71(k)(3)(A)	----	----	----	<0.00123	<0.00123
Bis(2-chloroethoxy)methane	111-91-1	Tier 1 $^{GW}GW_{Ing}$	0.0008	Yes	350.71(k)(3)(B)(i-vi)	0.01	----	----	<0.00113	<0.00113
Bis(2-chloroethyl)ether	111-44-4	Tier 1 $^{GW}GW_{Ing}$	0.0008	Yes	350.71(k)(3)(A)	----	----	----	<0.000544	<0.000544
Bis(2-chloroisopropyl) ether	108-60-1	Tier 1 $^{GW}GW_{Ing}$	0.013	Yes	350.71(k)(3)(A)	----	----	----	<0.00122	<0.00122
Bis(2-ethylhexyl) phthalate	117-81-7	Tier 1 $^{GW}GW_{Ing}$	0.0060	Yes	350.71(k)(3)(A)	----	----	----	<0.00274	<0.00274
Butyl benzyl phthalate	85-68-7	Tier 1 $^{GW}GW_{Ing}$	0.480	Yes	350.71(k)(3)(A)	----	----	----	<0.000987	<0.000987
Chrysene	218-01-9	Tier 1 $^{GW}GW_{Ing}$	0.125	Yes	350.71(k)(3)(A)	----	----	----	<0.00183	<0.00183
Dibenz[a,h]anthracene	53-70-3	Tier 1 $^{GW}GW_{Ing}$	0.0002	Yes	350.71(k)(3)(B)(i-vi)	0.01	----	----	<0.00139	<0.00139
Dibenzofuran	132-64-9	Tier 1 $^{GW}GW_{Ing}$	0.098	Yes	350.71(k)(3)(A)	----	----	----	<0.00105	<0.00105
Diethyl phthalate	84-66-2	Tier 1 $^{GW}GW_{Ing}$	19.554	Yes	350.71(k)(3)(A)	----	----	----	<0.00147	<0.00147
Dimethyl phthalate	131-11-3	Tier 1 $^{GW}GW_{Ing}$	19.554	Yes	350.71(k)(3)(A)	----	----	----	<0.00126	<0.00126
Di-n-butyl phthalate	84-74-2	Tier 1 $^{GW}GW_{Ing}$	2.444	Yes	350.71(k)(1)	----	----	----	**0.00385 J**	<0.00113
Di-n-octyl phthalate	117-84-0	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes	350.71(k)(3)(A)	----	----	----	<0.0018	<0.0018
Diphenylamine	122-39-4	Tier 1 $^{GW}GW_{Ing}$	0.611	Yes	350.71(k)(3)(A)	----	----	----	<0.000936	<0.000936
Fluoranthene	206-44-0	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes	350.71(k)(3)(A)	----	----	----	<0.000921	<0.000921
Fluorene	86-73-7	Tier 1 $^{GW}GW_{Ing}$	0.978	Yes	350.71(k)(3)(A)	----	----	----	<0.00101	<0.00101
Hexachlorobenzene	118-74-1	Tier 1 $^{GW}GW_{Ing}$	0.0010	Yes	350.71(k)(3)(B)(i-vi)	0.01	----	----	<0.00147	<0.00147
Hexachlorobutadiene	87-68-3	Tier 1 $^{GW}GW_{Ing}$	0.012	Yes	350.71(k)(3)(A)	----	----	----	<0.00128	<0.00128
Hexachlorocyclopentadiene	77-47-4	Tier 1 $^{GW}GW_{Ing}$	0.050	Yes	350.71(k)(3)(A)	----	----	----	<0.006	<0.006
Hexachloroethane	67-72-1	Tier 1 $^{GW}GW_{Ing}$	0.024	Yes	350.71(k)(3)(A)	----	----	----	<0.00094	<0.00094
Isophorone	78-59-1	Tier 1 $^{GW}GW_{Ing}$	0.961	Yes	350.71(k)(3)(A)	----	----	----	<0.00109	<0.00109
Naphthalene	91-20-3	Tier 1 $^{GW}GW_{Ing}$	0.489	Yes	350.71(k)(3)(A)	----	----	----	<0.000876	<0.000876
Nitrobenzene	98-95-3	Tier 1 $^{GW}GW_{Ing}$	0.049	Yes	350.71(k)(3)(A)	----	----	----	<0.00112	<0.00112
N-Nitrosodi-n-propylamine	621-64-7	Tier 1 $^{GW}GW_{Ing}$	0.00013	Yes	350.71(k)(3)(B)(i-vi)	0.01	----	----	<0.00104	<0.00104
N-Nitrosodiphenylamine	86-30-6	Tier 1 $^{GW}GW_{Ing}$	0.186	Yes	350.71(k)(3)(A)	----	----	----	<0.000936	<0.000936
Pentachloroethane	76-01-7	Tier 1 $^{GW}GW_{Ing}$	0.010	Yes	350.71(k)(3)(A)	----	----	----	<0.000672	<0.000672
Pentachlorophenol	87-86-5	Tier 1 $^{GW}GW_{Ing}$	0.0010	Yes	350.71(k)(3)(A)	----	----	----	<0.00544	<0.00544
Phenanthrene	85-01-8	Tier 1 $^{GW}GW_{Ing}$	0.733	Yes	350.71(k)(3)(A)	----	----	----	<0.000998	<0.000998
Phenol	108-95-2	Tier 1 $^{GW}GW_{Ing}$	7.333	Yes	350.71(k)(3)(A)	----	----	----	<0.00214	<0.00214
Pyrene	129-00-0	Tier 1 $^{GW}GW_{Ing}$	0.733	Yes	350.71(k)(3)(A)	----	----	----	<0.000917	<0.000917
Pyridine	110-86-1	Tier 1 $^{GW}GW_{Ing}$	0.024	Yes	350.71(k)(3)(A)	----	----	----	<0.00238	<0.00238

Notes:

J - estimated concentration >SQL but <MQL.

Red Bold indicates concentration against which analytical data is compared for TRRP assessment purposes.

Bold indicates constituent concentration in sample >SQL.

MQLs only shown for constituents that are screened from PCL development where SQL > RAL.

APPENDIX A

APPENDIX A

BORING AND TEMPORARY WELL CONSTRUCTION LOGS

TITAN Engineering, Inc.
2801 Network Boulevard, Suite 200
Frisco, Texas 75034
Phone: (469) 365-1100 • Fax: (469) 365-1199
www.titanengineering.com • www.apexcos.com
A Division of Apex Companies, LLC

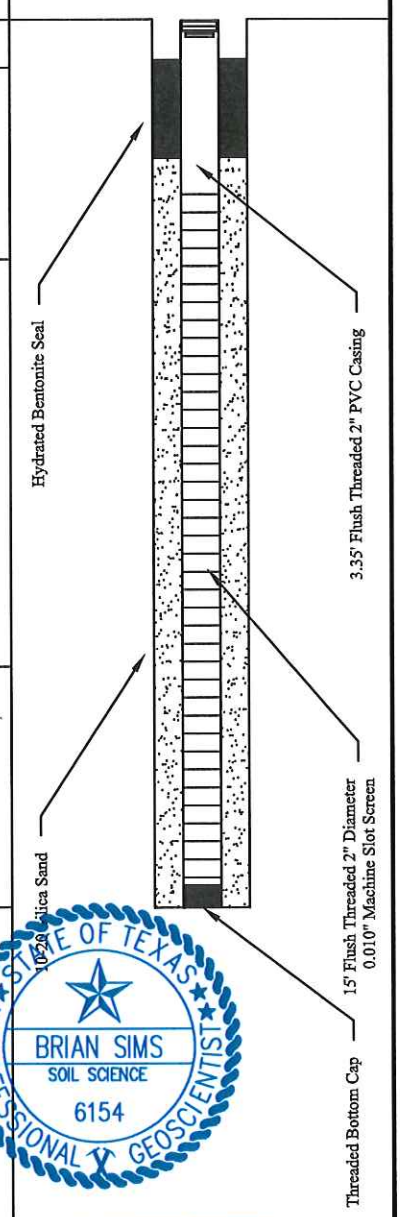
Al-Kel Alliance, Inc.
2102 North Goode Road
Wilmer, Texas

BORING LOG NUMBER
TMW-1
Date: May 16, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/16/2012	Ground Surface Elevation:	464.04	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	464.74	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248272.0679	Casing Diameter:	2-inch
Logged by:	Brian Sims	East Coordinate:	353044.4780	Well Materials:	Sch. 40 PVC
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	Temporary

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		1.1			Clay (CL), dark brown, medium stiff, low plasticity, slight odor.
				2.7			
			2	0.7			- moist, high plasticity, medium stiff
				0.1			
5.0	X	4.5					Silty Clay (CL), moist, tan, significant limestone from <1 mm to > 5 cm
				0			
				0			
			3.5	0			- medium stiff, slight iron staining
				0			
				0	10.30		
10.0				0	5/18/12		
				0			
			2	0			
				0			Limestone (LS), tan, competent, dry
				0			
15.0				0			
			3	0			- wet at apparent fracture
				0			
							Boring terminated at 18.5 ft bgs due to refusal.
20.0							Temporary monitoring well plugged and abandoned on 5/18/2012 .
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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BRIAN SIMS
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6154
PROFESSIONAL GEOSCIENTIST

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A Division of Apex Companies, LLC

Al-Kel Alliance, Inc.
2102 North Goode Road
Wilmer, Texas

BORING LOG NUMBER
TMW-2
Date: May 16, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/16/2012
Drilled by:	Strata Core Drilling
Drill Rig:	CME 75
Logged by:	Brian Sims
Sampler:	5 ft. Split Spoon

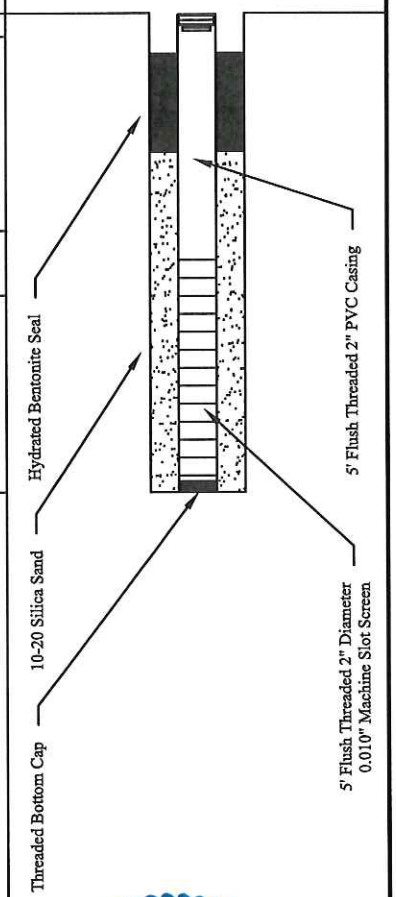
Ground Surface Elevation:	461.26
Top of Casing Elevation:	462.08
North Coordinate :	2248817.9613
East Coordinate:	353000.8336
Bench Mark Elevation:	MSL

WELL COMPLETION INFORMATION

Borehole Diameter:	8 1/4"
Casing Diameter:	2-inch
Well Materials:	Sch. 40 PVC
Surface Completion:	Temporary

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	0.5		0			Clay (CL), dark brown, medium stiff, moderate plasticity, slight odor.
				0			
			3.5	0			- moist, high plasticity, medium stiff
				0			
5.0	X	4.5					Silty Clay (CL), light tan, slightly moist, significant limestone from <1 mm to > 2 cm
				0			Limestone (LS), tan, competent, dry
				0			- wet from 6 tp 7.5 feet from fracture
			3.5	0			
				0			
10.0				0	DRY 5/18/12		Boring terminated at 10 ft bgs due to refusal.
							Temporary monitoring well plugged and abandoned on 5/18/2012 .
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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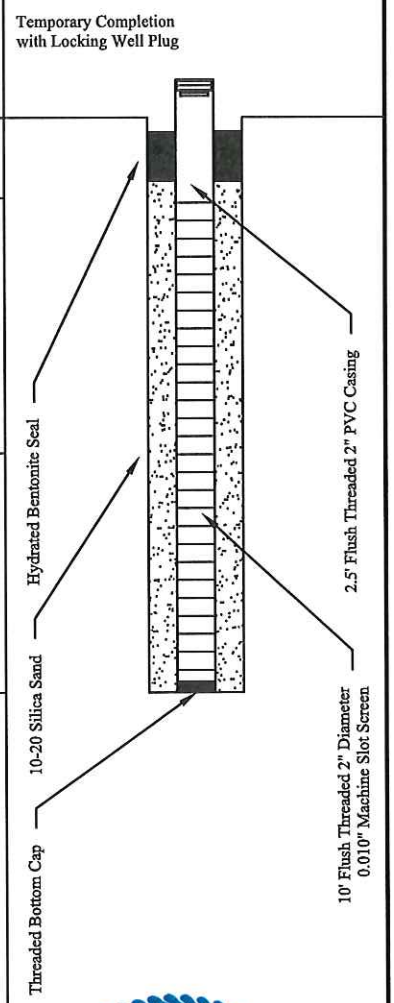
2102 North Goode Road
Wilmer, Texas

BORING LOG NUMBER
TMW-3
Date: May 16, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/16/2012	Ground Surface Elevation:	462.22	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	461.99	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248663.2370	Casing Diameter:	2-inch
Logged by:	Brian Sims	East Coordinate:	352831.4334	Well Materials:	Sch. 40 PVC
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	Temporary

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			
				0			Silty Clay (CL), tan with some iron staining, moist.
			3	0			
				0			
5.0	X	4.5					- very moist / wet
				0			
	X	6.5		0			
			3	0			Limestone (LS), tan, competent, dry
				0			
				0			
10.0				0			
			1	0	DRY 5/18/12		
							Boring terminated at 12 ft bgs due to refusal.
							Temporary monitoring well plugged and abandoned on 5/18/2012 .
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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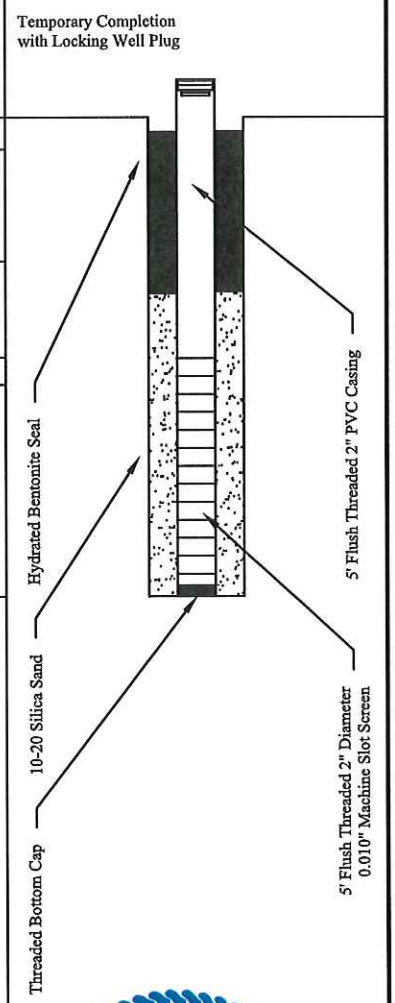
BORING LOG NUMBER
TMW-4
Date: May 16, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/16/2012	Ground Surface Elevation:	462.38	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	462.68	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248570.8983	Casing Diameter:	2-inch
Logged by:	Brian Sims	East Coordinate:	353126.7022	Well Materials:	Sch. 40 PVC
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	Temporary

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			FILL - Clay and pea gravel, dark brown, moist and moisture increases with depth.
				0			
			2.5	0			
				0			Clay (CL), dark brown, moderate plasticity, medium stiff, moist.
5.0	X	4.5					
				0			Silty Clay (CL), tan, moist to wet.
				0			Limestone (LS), tan, competent, dry
				0			
			3.5	0			
				0	DRY 5/18/12		
10.0							Boring terminated at 10 ft bgs due to refusal.
							Temporary monitoring well plugged and abandoned on 5/18/2012 .
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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BORING LOG NUMBER
TMW-5
Date: May 16, 2012
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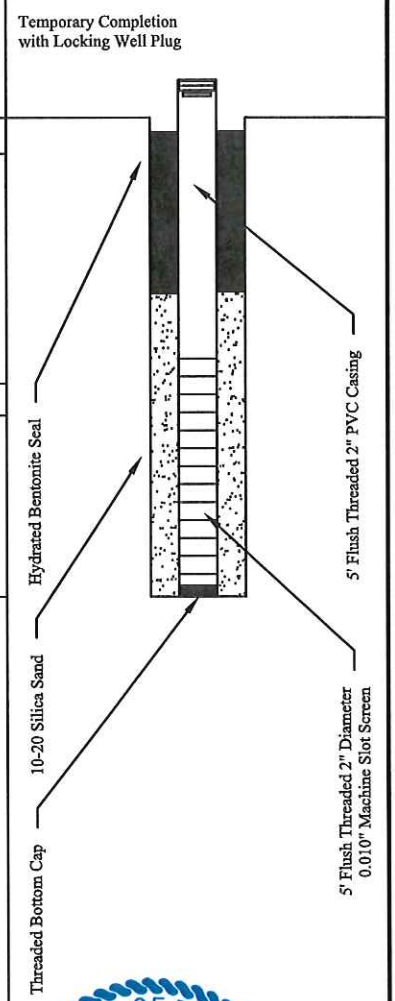
Date Installed:	5/16/2012	Ground Surface Elevation:	959.43	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	460.00	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248436.1744	Casing Diameter:	2-inch
Logged by:	Brian Sims	East Coordinate:	353286.7601	Well Materials:	Sch. 40 PVC
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	Temporary

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			Clay (CL), dark brown, moderate plasticity, medium stiff, moist.
				0			
			2.5	0			
				0			
5.0	X	4.5					
				0			Silty Clay (CL), tan, moist
				0			Limestone (LS), tan, competent, dry
			4.5	0			
	X	8.5		0			
10.0				0	DRY 5/18/12		Boring terminated at 10 ft bgs due to refusal.
							Temporary monitoring well plugged and abandoned on 5/18/2012 .
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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BORING LOG NUMBER
SB-1
Date: May 16, 2012
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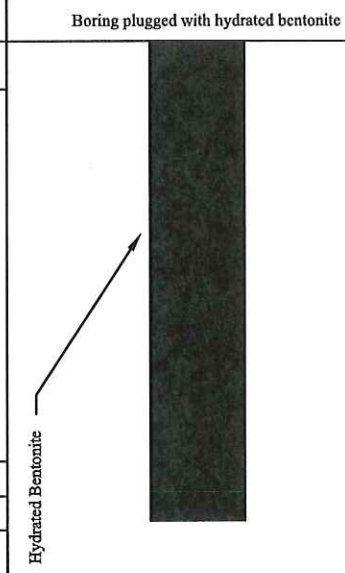
Date Installed:	5/16/2012	Ground Surface Elevation:	456.99	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248592.5491	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	353384.8261	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			Clay (CL), dark brown, medium stiff, moderate plasticity, moist
			2.5	0			
				0			
	X	4.5		0			
5.0				0			- transition to light brown/olive, presences of calcareous nodules increase
				0			
			4.5	0			
	X	8.5		0			
				0			Silty Clay (CL), tan, moist to slightly wet
10.0				0			Limestone (LS), tan, competent, dry
				0			Boring terminated at 10 ft bgs due to refusal
				0			
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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BORING LOG NUMBER
SB-2
Date: May 17, 2012
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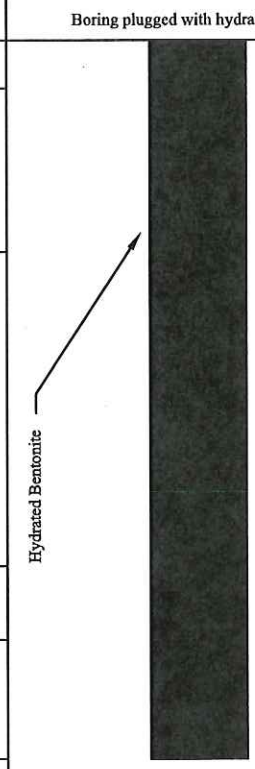
Date Installed:	5/17/2012	Ground Surface Elevation:	461.46	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248730.1403	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	352826.2000	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			Clay (CL), dark brown, medium stiff, low plasticity, slightly moist
			3	0			- presence of calcareous nodules, moist, stiff
				0			
	X	4.5		0			Silty Clay (CL), light tan with iron staining / mottles, presence of limestone increases with depth
5.0				0			
				0			
			4.5	0			
				0			
	X	9.5		0			- moisture increases
10.0				0			
				0			Silty Clay (CL)/very weathered limestone, tan with iron staining
			3	0			Limestone (LS), tan, competent, dry
				0			
				0			
15.0							Boring terminated at 15 ft bgs due to refusal
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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BORING LOG NUMBER
SB-3
Date: May 17, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/17/2012	Ground Surface Elevation:	461.18	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248771.1086	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	353088.3492	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING / WELL COMPLETION (GRAPHIC DEPICTION)
								Boring plugged with hydrated bentonite
0							Caliche underlain with select fill	
	X	1	3	0			Clay (CL), dark brown with dark red along seams, medium stiff, moderate to high plasticity	
				0				
				0				
	X	4.5		0				
5.0							Silty Clay (CL), light tan, moist	
							Limestone (LS), tan, competent, dry	
							Boring terminated at 5 ft bgs due to refusal	
10.0								Hydrated Bentonite
15.0								
20.0								
25.0								

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Al-Kel Alliance, Inc.
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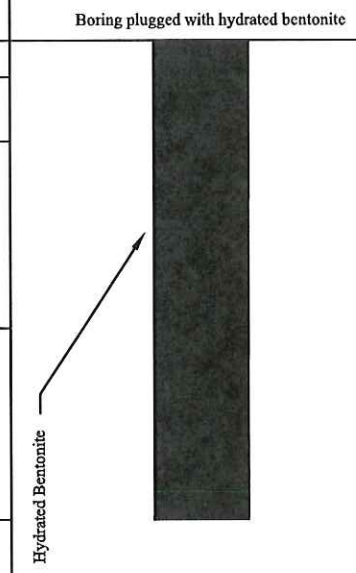
BORING LOG NUMBER
SB-4
Date: May 17, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/17/2012	Ground Surface Elevation:	464.23	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248585.1135	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	352843.6875	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			Clay (CL), dark brown, medium stiff, low plasticity
			3	0			Silty Clay (CL), dark brown, medium stiff, moderate plasticity, calcareous nodules - at 2.5 ft transition of light tan with iron staining, remnants of limestone
	X	4		0			
5.0				0			
			<1				Limestone (LS), tan, competent, dry (depth per driller)
10.0							Boring terminated at 10 ft bgs due to refusal
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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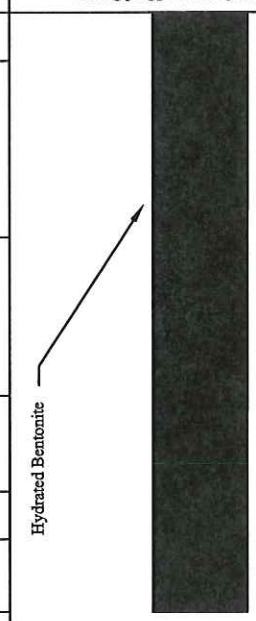
BORING LOG NUMBER
SB-5
Date: May 17, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/17/2012	Ground Surface Elevation:	463.30	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248487.5965	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	353190.7946	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							
	X	1		0			Caliche underlain with select fill
			2.5	0			Clay with some limestone
				0			
				0			
5.0	X	4		0			Clay (CL), dark brown, medium stiff, high plasticity, moist
				0			
			5	0			
	X	9		0			Silty Clay (CL), olive tan with calcium nodules
				0			
10.0				0			Silty Clay (CL), tan, moist
			2	0			Limestone (LS), tan, competent, dry
							Boring terminated at 12.5 ft bgs due to refusal
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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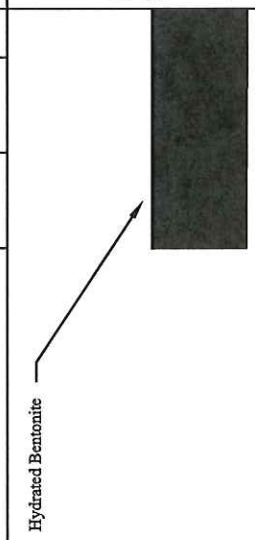
BORING LOG NUMBER
SB-6
Date: May 17, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/17/2012	Ground Surface Elevation:	462.56	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248587.8195	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	353093.1451	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							Caliche underlain with select fill
	X	1		0			Clay (CL), dark brown, medium stiff, moderate plasticity, moist
	X	2.5	3	0			
				0			Limestone (LS), tan, competent, dry
				0			
5.0							Boring terminated at 5 ft bgs due to refusal
10.0							
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



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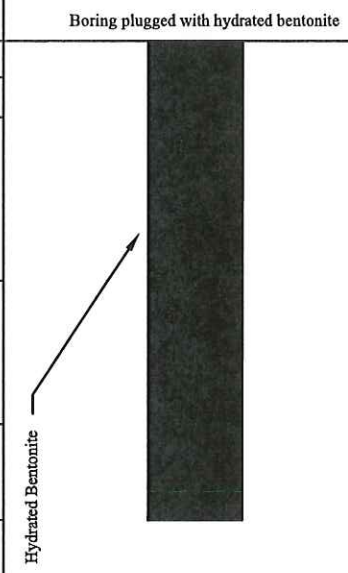
Wilmer, Texas

BORING LOG NUMBER
SB-7
Date: May 17, 2012
T:\Al-Kel-583\4.2-Figures\Boring logs.dwg

Date Installed:	5/17/2012	Ground Surface Elevation:	462.46	WELL COMPLETION INFORMATION	
Drilled by:	Strata Core Drilling	Top of Casing Elevation:	NA	Borehole Diameter:	8 1/4"
Drill Rig:	CME 75	North Coordinate :	2248545.8380	Casing Diameter:	NA
Logged by:	Brian Sims	East Coordinate:	353161.3557	Well Materials:	NA
Sampler:	5 ft. Split Spoon	Bench Mark Elevation:	MSL	Surface Completion:	NA

DEPTH (ft)	SAMPLE INTERVAL	SAMPLE NUMBER	RECOVERY (ft)	PID VALUES (ppm)	GROUNDWATER ELEVATION	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION
0							
	X	1		0			Caliche underlain with select fill Clay mixed limestone
			2.5	0			Clay (CL), dark brown, medium stiff, moderate plasticity, moist
				0			
				0			
5.0	X	5		0			Silty Clay (CL), olive tan, with calcium deposits - light tan with iron staining
				0			
	X	7.5	4	0			
				0			Limestone (LS), tan, competent, dry
10.0							Boring terminated at 10 ft bgs due to refusal
15.0							
20.0							
25.0							

BORING / WELL COMPLETION (GRAPHIC DEPICTION)



STATE OF TEXAS
BRIAN SIMS
SOIL SCIENCE
6154
PROFESSIONAL GEOSCIENTIST

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY BRIAN SIMS, P.G. 6154 ON 06 - 15 - 12

APPENDIX B

STATE OF TEXAS WELL REPORTS

STATE OF TEXAS WELL REPORT for Tracking #288031

Owner:	**AL - KEL Alliance**	Owner Well #:	**TMW# 2,4,5**
Address:	**2012 N. Goode Rd. Wilmer , TX 75172**	Grid #:	**33-27-2**
Well Location:	**2012 North Goode Rd. Wilmer , TX 75172**	Latitude:	**32° 36' 03" N**
Well County:	**Dallas**	Longitude:	**096° 40' 53" W**
Elevation:	**443 ft.**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **5/17/2012** Completed: **5/18/2012**
Diameter of Hole:	Diameter: **8 1/4 in From Surface To 10 ft**
Drilling Method:	**Hollow Stem Auger**
Borehole Completion:	Other: **Sand Packed**
Annular Seal Data:	1st Interval: **No Data** 2nd Interval: **No Data** 3rd Interval: **No Data**
Surface Completion:	**No Data**

Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	The well **was** plugged within 48 hours. Casing left in well: Cement/Bentonite left in well: From (ft) To (ft) From (ft) To (ft) Cem/Bent Sacks Used **0 - 0 6 - 0 3 Bentonite**
Type Of Pump:	**No Data**
Well Tests:	**No Data**

Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Strata Core Services 5070 Brush Creek Rd. Fort Worth , TX 76119**
Driller License Number:	**5003**

Licensed Well Driller Signature:	**Jon Storm**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#288031**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**1.5**	**Caliche Gravel Road Base**
1.5	**5'**	**Black to Dk Brown Silty Clay**
5'	**8'**	**Tan Weathered Limestone**
8	**10'**	**Tan Limestone**

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	**N**	**PVC Screen 10 - 5 .010**	
2"	**N**	**PVC Riser 5 - 0 Sch 40**	

STATE OF TEXAS WELL REPORT for Tracking #288040

Owner:	**AL - KEL Alliance**	Owner Well #:	**SB # 1-7**
Address:	**2012 N. Goode Rd. Wilmer , TX 75172**	Grid #:	**33-27-2**
Well Location:	**2012 North Goode Rd. Wilmer , TX 75172**	Latitude:	**32° 36' 03" N**
Well County:	**Dallas**	Longitude:	**096° 40' 53" W**
Elevation:	**443 ft.**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Environmental Soil Boring**

Drilling Date:	Started: **5/17/2012** Completed: **5/18/2012**
Diameter of Hole:	Diameter: **8 1/4 in From Surface To 15 ft**
Drilling Method:	**Hollow Stem Auger**
Borehole Completion:	**No Data**
Annular Seal Data:	1st Interval: **No Data** 2nd Interval: **No Data** 3rd Interval: **No Data**
Surface Completion:	**No Data**

Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	Casing left in well: Cement/Bentonite left in well: From (ft) To (ft) From (ft) To (ft) Cem/Bent Sacks Used **0 - 0 15 - 0 8 Bentonite**
Type Of Pump:	**No Data**
Well Tests:	**No Data**

Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Strata Core Services 5070 Brush Creek Rd. Fort Worth , TX 76119**
Driller License Number:	**5003**

Licensed Well Driller Signature:	**Jon Storm**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**These 7 Soil Broings range in depth from 5' to 15'.**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#288040**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft) To (ft) Description
0 - 1.5 Caliche Gravel Road Base
1.5 - 7' Black to Dk Brown Silty Clay
7' - 12.5' Tan Weathered Limestone
12.5 - 15' Tan Limestone

CASING, BLANK PIPE & WELL SCREEN DATA

No Data

STATE OF TEXAS WELL REPORT for Tracking #288036

Owner:	**AL - KEL Alliance**	Owner Well #:	**TMW# 3**
Address:	**2012 N. Goode Rd. Wilmer , TX 75172**	Grid #:	**33-27-2**
Well Location:	**2012 North Goode Rd. Wilmer , TX 75172**	Latitude:	**32° 36' 03" N**
Well County:	**Dallas**	Longitude:	**096° 40' 53" W**
Elevation:	**443 ft.**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date:	Started: **5/17/2012** Completed: **5/18/2012**
Diameter of Hole:	Diameter: **8 1/4 in From Surface To 12 ft**
Drilling Method:	**Hollow Stem Auger**
Borehole Completion:	Other: **Sand Packed**
Annular Seal Data:	1st Interval: **No Data** 2nd Interval: **No Data** 3rd Interval: **No Data**
Surface Completion:	**No Data**

Water Level:	Static level: **No Data** Artesian flow: **No Data**
Packers:	**No Data**
Plugging Info:	The well **was** plugged within 48 hours. Casing left in well: Cement/Bentonite left in well: From (ft) To (ft) From (ft) To (ft) Cem/Bent Sacks Used **0 - 0 8 - 0 3 Bentonite**
Type Of Pump:	**No Data**
Well Tests:	**No Data**

Water Quality:	Type of Water: **No Data** Depth of Strata: **No Data** Chemical Analysis Made: **No Data** Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**
Certification Data:	The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.
Company Information:	**Strata Core Services 5070 Brush Creek Rd. Fort Worth , TX 76119**
Driller License Number:	**5003**

Licensed Well Driller Signature:	**Jon Storm**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#288036**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**1.5**	**Caliche Gravel Road Base**
1.5	**7'**	**Black to Dk Brown Silty Clay**
7'	**10'**	**Tan Weathered Limestone**
10	**12'**	**Tan Limestone**

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	**N**	**PVC Screen 12 - 2 .010**	
2"	**N**	**PVC Riser 2 - 0 Sch 40**	

STATE OF TEXAS WELL REPORT for Tracking #288025

Owner:	**AL - KEL Alliance**	Owner Well #:	**TMW# 1**
Address:	**2012 N. Goode Rd. Wilmer , TX 75172**	Grid #:	**33-27-2**
Well Location:	**2012 North Goode Rd. Wilmer , TX 75172**	Latitude:	**32° 36' 03" N**
Well County:	**Dallas**	Longitude:	**096° 40' 53" W**
Elevation:	**443 ft.**	GPS Brand Used:	**Google Earth**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Date: Started: **5/17/2012**
Completed: **5/18/2012**

Diameter of Hole: Diameter: **8 1/4 in From Surface To 18 ft**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: Other: **Sand Packed**

Annular Seal Data: 1st Interval: **No Data**
2nd Interval: **No Data**
3rd Interval: **No Data**

Surface Completion: **No Data**

Water Level: Static level: **No Data**
Artesian flow: **No Data**

Packers: **No Data**

Plugging Info: The well **was** plugged within 48 hours.
Casing left in well: Cement/Bentonite left in well:
From (ft) To (ft) From (ft) To (ft) Cem/Bent Sacks Used
0 - 0 10 - 0 5 Bentonite

Type Of Pump: **No Data**

Well Tests: **No Data**

Water Quality: Type of Water: **No Data**
Depth of Strata: **No Data**
Chemical Analysis Made: **No Data**
Did the driller knowingly penetrate any strata which contained undesirable constituents: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the log(s) being returned for completion and resubmittal.

Company Information: **Strata Core Services**
5070 Brush Creek Rd.
Fort Worth , TX 76119

Driller License Number: **5003**

Licensed Well Driller Signature:	**Jon Storm**
Registered Driller Apprentice Signature:	**No Data**
Apprentice Registration Number:	**No Data**
Comments:	**No Data**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking number (Tracking **#288025**) on your written request.

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
(512) 463-7880

DESC. & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**1.5**	**Caliche Gravel Road Base**
1.5	**10'**	**Black to Dk Brown Silty Clay**
10	**13'**	**Tan Weathered Clay**
13	**18'**	**Tan Limestone**

CASING, BLANK PIPE & WELL SCREEN DATA

Dia.	New/Used	Type	Setting From/To
2"	**N**	**PVC Screen 18 - 8 .010**	
2"	**N**	**PVC Riser 8 - 0 Sch 40**	

APPENDIX C

APPENDIX C

ANALYTICAL REPORTS WITH DATA USABILITY SUMMARIES

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

TestAmerica Job ID: 600-55242-1
Client Project/Site: Al-Kel Alliance

For:
TITAN Engineering
2801 Network Blvd
Suite 200
Frisco, Texas 75034

Attn: Mr. Brian Sims

Authorized for release by:
6/22/2012 2:23:41 PM
Cathy Upton
LAN Analyst
cathy.upton@testamericainc.com

Designee for

Sachin Kudchadkar
Project Manager II
sachin.kudchadkar@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Houston
TRRP Data Package Cover Page

Job Number: 600-55242-1

Project Name/Number: Al-Kel Alliance

This Data Package consists of:

This signature page, the laboratory review checklist, and the following Reportable Data:

- ☒ R1 Field Chain-of-Custody Form
- ☒ R2 Sample Identification Cross-reference;
- ☒ R3 Test Reports (Analytical Data Sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☒ R4 Surrogate Recovery Data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☒ R5 Test Reports/Summary Forms for Blank Samples;
- ☒ R6 Test Reports/Summary Forms for Laboratory Control Samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - d) The laboratory's LCS QC limits
- ☒ R7 Test Reports for Matrix Spike/Matrix Spike Duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked sample,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☒ R8 Laboratory analytical duplicates (if applicable) recovery and precision, including:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- ☒ R9 List of method quantitation limit (MQL) and detectability check sample results for each analyte for each method and matrix;
- ☒ R10 Other problems or anomalies

The exception report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under Texas laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm, to the best of my knowledge, that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Cathy Upton		06/22/2012
Name (printed)	Signature	Date

Data Delivery Analyst

Official Title (printed)

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/12
Project Name: Al-Kel Alliance	Laboratory Job Number: 600-55242
Reviewer Name: JL	Prep Batch Number: 600-79923-Herb

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-custody (C-O-C)					
R1	OI	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soil/solid samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?			X		
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?				X	1
		Were MS/MSD RPDs within laboratory QC limits?				X	1
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Reportable Data

Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/12
Project Name: Al-Kel Alliance	Laboratory Job Number: 600-55242
Reviewer Name: JL	Prep Batch Number: 600-79923-Herb

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data (NELAC section 5.5.10)**					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods (NELAC Chapter 5)**					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A (cont'd): Laboratory Review Checklist: Exception Reports	
Laboratory Name: TestAmerica-Houston	LRC Date: 05/29/12
Project Name: Al-Kel Alliance	Laboratory Job Number: 600-55242
Reviewer Name: JL	Prep Batch Number: 600-79923-Herb

ER #[1]	DESCRIPTION
1	The laboratory selected a sample from another group to perform as the MS/MSD.

ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Detection Check Standard

Matrix:	Soil
Method:	8151A
Preparation:	8151A
Date Analyzed:	2/16/2012
Date Prepared:	2/16/2012
TALs Batches:	ECD-08.i\021612.b\BL16-025.D
Units:	ug/kg

Analyte	MDL	DCS Spike	Measured Result	MQL
Dalapon	15.98	25	85.89	20
Dicamba	0.46	5.3	5.42	4
MCPP	45.88	25	169.9	400
MCPA	64.99	50	1232	400
Dichloroprop	0.45	5.3	5.64	4
2,4-D	0.34	5.3	10.47	4
2,4,5-TP (Silvex)	0.43	5.3	6.13	4
2,4,5-T	0.44	5.3	5.25	4
2,4-DB	0.66	5.3	4.46	4
Dinoseb (DNBP)	0.32	5.3	16.1	4

Job ID: 600-55242-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative
600-55242-1

Comments
No additional comments.

Receipt
The samples were received on 5/18/2012 9:34 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.7° C.

Method Summary

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL HOU
Moisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-55242-10	TMW-5 1	Solid	05/16/12 13:55	05/18/12 09:3[illegible]
600-55242-11	TMW-5 4.5	Solid	05/16/12 14:00	05/18/12 09:34
600-55242-16	SB2 1	Solid	05/17/12 08:10	05/18/12 09:34

Client Sample Results

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Client Sample ID: TMW-5 1

Lab Sample ID: 600-55242-10

Date Collected: 05/16/12 13:55
Date Received: 05/18/12 09:34

Matrix: Solid
Percent Solids: 80.4

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.000422	U	0.00496	0.000422	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
Dalapon	0.0198	U	0.0248	0.0198	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
2,4-DB	**0.0193**		0.00496	0.000819	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
Dicamba	0.000571	U	0.00496	0.000571	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
Dichlorprop	0.000558	U	0.00496	0.000558	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
Dinoseb	0.000397	U	0.00496	0.000397	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
Mecoprop	0.0569	U	0.496	0.0569	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
MCPA	0.0807	U	0.496	0.0807	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
2,4,5-T	0.000546	U	0.00496	0.000546	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1
Silvex (2,4,5-TP)	0.000534	U	0.00496	0.000534	mg/Kg	☼	05/23/12 15:52	05/29/12 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*22 - 130*	*05/23/12 15:52*	*05/29/12 18:29*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20**		1.0	1.0	%			05/18/12 15:35	1
Percent Solids	**80**		1.0	1.0	%			05/18/12 15:35	1

Client Sample ID: TMW-5 4.5

Lab Sample ID: 600-55242-11

Date Collected: 05/16/12 14:00
Date Received: 05/18/12 09:34

Matrix: Solid
Percent Solids: 79.7

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.000425	U	0.00500	0.000425	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
Dalapon	0.0200	U	0.0250	0.0200	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
2,4-DB	**0.00127**	**J**	0.00500	0.000826	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
Dicamba	0.000575	U	0.00500	0.000575	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
Dichlorprop	0.000563	U	0.00500	0.000563	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
Dinoseb	0.000400	U	0.00500	0.000400	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
Mecoprop	0.0574	U	0.500	0.0574	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
MCPA	0.0813	U	0.500	0.0813	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
2,4,5-T	0.000550	U	0.00500	0.000550	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1
Silvex (2,4,5-TP)	0.000538	U	0.00500	0.000538	mg/Kg	☼	05/23/12 15:52	05/29/12 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*22 - 130*	*05/23/12 15:52*	*05/29/12 18:53*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20**		1.0	1.0	%			05/18/12 15:35	1
Percent Solids	**80**		1.0	1.0	%			05/18/12 15:35	1

Client Sample ID: SB2 1

Lab Sample ID: 600-55242-16

Date Collected: 05/17/12 08:10
Date Received: 05/18/12 09:34

Matrix: Solid
Percent Solids: 83.8

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.000404	U	0.00475	0.000404	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
Dalapon	0.0190	U	0.0238	0.0190	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1

Client Sample Results

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Client Sample ID: SB2 1
Date Collected: 05/17/12 08:10
Date Received: 05/18/12 09:34

Lab Sample ID: 600-55242-16
Matrix: Sol
Percent Solids: 83.

Method: 8151A - Herbicides (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	0.000784	U	0.00475	0.000784	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
Dicamba	0.000546	U	0.00475	0.000546	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
Dichlorprop	0.000534	U	0.00475	0.000534	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
Dinoseb	0.000380	U	0.00475	0.000380	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
Mecoprop	0.0545	U	0.475	0.0545	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
MCPA	0.0772	U	0.475	0.0772	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
2,4,5-T	0.000523	U	0.00475	0.000523	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1
Silvex (2,4,5-TP)	0.000511	U	0.00475	0.000511	mg/Kg	☼	05/23/12 15:52	05/29/12 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*22 - 130*	*05/23/12 15:52*	*05/29/12 19:18*	*1*

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16**		1.0	1.0	%			05/18/12 15:35	1
Percent Solids	**84**		1.0	1.0	%			05/18/12 15:35	1

Definitions/Glossary

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/I

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**DCPA1 (22-130)**							
600-55242-10	TMW-5 1	94							
600-55242-11	TMW-5 4.5	78							
600-55242-16	SB2 1	80							
LCS 600-79923/2-A	Lab Control Sample	89							
MB 600-79923/1-A	Method Blank	81							

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 600-79923/1-A
Matrix: Solid
Analysis Batch: 80298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79923

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.000339	U	0.00399	0.000339	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
Dalapon	0.0159	U	0.0200	0.0159	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
2,4-DB	0.000659	U	0.00399	0.000659	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
Dicamba	0.000459	U	0.00399	0.000459	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
Dichlorprop	0.000449	U	0.00399	0.000449	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
Dinoseb	0.000319	U	0.00399	0.000319	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
Mecoprop	0.0458	U	0.399	0.0458	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
MCPA	0.0648	U	0.399	0.0648	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
2,4,5-T	0.000439	U	0.00399	0.000439	mg/Kg		05/23/12 15:52	05/29/12 13:08	1
Silvex (2,4,5-TP)	0.000429	U	0.00399	0.000429	mg/Kg		05/23/12 15:52	05/29/12 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*22 - 130*	*05/23/12 15:52*	*05/29/12 13:08*	*1*

Lab Sample ID: LCS 600-79923/2-A
Matrix: Solid
Analysis Batch: 80298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 79923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-D	0.0160	0.01302		mg/Kg		82	33 - 159
Dalapon	0.0160	0.0159	U	mg/Kg		74	25 - 172
2,4-DB	0.0160	0.01687		mg/Kg		106	39 - 157
Dicamba	0.0160	0.01303		mg/Kg		82	22 - 146
Dichlorprop	0.0160	0.01509		mg/Kg		95	22 - 179
Dinoseb	0.0160	0.01404		mg/Kg		88	12 - 122
Mecoprop	1.60	1.557		mg/Kg		98	26 - 143
MCPA	1.60	1.442		mg/Kg		90	12 - 158
2,4,5-T	0.0160	0.01434		mg/Kg		90	24 - 165
Silvex (2,4,5-TP)	0.0160	0.01531		mg/Kg		96	32 - 160

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*89*		*22 - 130*

Unadjusted Detection Limits

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Method: 8151A - Herbicides (GC)

Analyte	MQL	MDL	Units	Method
2,4,5-T	0.00400	0.000440	mg/Kg	8151A
2,4-D	0.00400	0.000340	mg/Kg	8151A
2,4-DB	0.00400	0.000660	mg/Kg	8151A
Dalapon	0.0200	0.0160	mg/Kg	8151A
Dicamba	0.00400	0.000460	mg/Kg	8151A
Dichlorprop	0.00400	0.000450	mg/Kg	8151A
Dinoseb	0.00400	0.000320	mg/Kg	8151A
MCPA	0.400	0.0650	mg/Kg	8151A
Mecoprop	0.400	0.0459	mg/Kg	8151A
Silvex (2,4,5-TP)	0.00400	0.000430	mg/Kg	8151A

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

QC Association Summary

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

GC Semi VOA

Prep Batch: 79923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-55242-10	TMW-5 1	Total/NA	Solid	8151A	
600-55242-11	TMW-5 4.5	Total/NA	Solid	8151A	
600-55242-16	SB2 1	Total/NA	Solid	8151A	
LCS 600-79923/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 600-79923/1-A	Method Blank	Total/NA	Solid	8151A	

Analysis Batch: 80298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-55242-10	TMW-5 1	Total/NA	Solid	8151A	79923
600-55242-11	TMW-5 4.5	Total/NA	Solid	8151A	79923
600-55242-16	SB2 1	Total/NA	Solid	8151A	79923
LCS 600-79923/2-A	Lab Control Sample	Total/NA	Solid	8151A	79923
MB 600-79923/1-A	Method Blank	Total/NA	Solid	8151A	79923

General Chemistry

Analysis Batch: 79602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-55242-10	TMW-5 1	Total/NA	Solid	Moisture	
600-55242-11	TMW-5 4.5	Total/NA	Solid	Moisture	
600-55242-16	SB2 1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

Client Sample ID: TMW-5 1

Lab Sample ID: 600-55242-10
Date Collected: 05/16/12 13:55
Matrix: Solid
Date Received: 05/18/12 09:34
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			79923	05/23/12 15:52	FNC	TAL HOU
Total/NA	Analysis	8151A		1	80298	05/29/12 18:29	JAL	TAL HOU
Total/NA	Analysis	Moisture		1	79602	05/18/12 15:35	YX	TAL HOU

Client Sample ID: TMW-5 4.5

Lab Sample ID: 600-55242-11
Date Collected: 05/16/12 14:00
Matrix: Solid
Date Received: 05/18/12 09:34
Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			79923	05/23/12 15:52	FNC	TAL HOU
Total/NA	Analysis	8151A		1	80298	05/29/12 18:53	JAL	TAL HOU
Total/NA	Analysis	Moisture		1	79602	05/18/12 15:35	YX	TAL HOU

Client Sample ID: SB2 1

Lab Sample ID: 600-55242-16
Date Collected: 05/17/12 08:10
Matrix: Solid
Date Received: 05/18/12 09:34
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			79923	05/23/12 15:52	FNC	TAL HOU
Total/NA	Analysis	8151A		1	80298	05/29/12 19:18	JAL	TAL HOU
Total/NA	Analysis	Moisture		1	79602	05/18/12 15:35	YX	TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Certification Summary

Client: TITAN Engineering
Project/Site: Al-Kel Alliance

TestAmerica Job ID: 600-55242-1

,oratory	Authority	Program	EPA Region	Certification ID
TestAmerica Houston	Arkansas DEQ	State Program	6	88-0759
TestAmerica Houston	Louisiana	NELAC	6	30643
TestAmerica Houston	Oklahoma	State Program	6	9503
TestAmerica Houston	Texas	NELAC	6	T104704223-10-6-TX
TestAmerica Houston	USDA	Federal		P330-08-00217
TestAmerica Houston	Utah	NELAC	8	GULF

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

60001

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4149 (1007)

Client: TITAN	Project Manager: Brian Sims	Date: 5-17-12	Page 1 of 2
Address: 7801 Network Blvd Ste 2000	Telephone Number (Area Code)/Fax Number: 469 365 4134	Lab Location: Houston	Analysis
City: Frisco; State: TX; Zip Code: 75034	Site Contact: Brian Sims		
Project Number/Name: Al-Kel Alliance	Carrier/Waybill Number:		
Contract/Purchase Order/Quote Number: PO 583-01 Quote 216000183			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	VOC 8260B	Herbicides 8151	Herbicide Extract
TB-20120516	5-16-12	900	VOA	40ml	CG	2	HCl				
TMW-1 1	5-16-12	825	Soil	4oz	GG	1	4°C			X	
TMW-1 4.5		830								X	
TMW-2 0.5		1000								X	
TMW-2 4.5		1005								X	
TMW-3 1		1100									
TMW-3 4.5		1105									
TMW-4 1		1245									
TMW-4 4.5		1250									
TMW-5 1		1355							X		
TMW-5 4.5		1400							X		
TMW-5 6		1405								X	
SB-1 1		1445									
SB-1 4.5		1450									
SB-1 8.5		1800									
SB-2 1	5-17-12	810								X	

Special Instructions: TRRP Reporting

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☑ Normal ☐ Rush ☐ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	5-17-12	1500	1. Received By: [signature]	5-21-12	9:37
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

59999

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4149 (1007)

Client: TITAN ENG	Project Manager: Brian Sims	Date: 5-17-12	Page 2 of 2
Address: 2801 Network Blvd	Telephone Number (Area Code)/Fax Number: 469 365-1134	Lab Location:	Analysis
City: Frisco; State: TX; Zip Code: 75034	Site Contact: Brian Sims		
Project Number/Name: Al-Kel Alliance	Carrier/Waybill Number:		
Contract/Purchase Order/Quote Number: PO 58301 Quote 26000183			

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	Herbicide 8151	Herbicide 8151 Ext
SB-2 4	5-17-12	815	Soil	4oz	CG	1	4°C		X	
SB-2 9.5		830								
SB-3 1		905								
SB-3 4.5		910								
SB-4 1		940								
SB-4 4		945								
SB-5 1		1015								
SB-5 5		1020								
SB-6 1		1115								
SB-6 2.5		1120								
SB-7 1		1150								
SB-7 5		1155								

Special Instructions: TRRP Reporting

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☑ Normal ☐ Rush ☐ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: BOM	5-17-12	1500	1. Received By:	5-18-12	937
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

Login Sample Receipt Checklist

Client: TITAN Engineering

Job Number: 600-55242-1

Login Number: 55242
List Number: 1
Creator: Trenery, Michael J

List Source: TestAmerica Houston

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

DATA USABILITY SUMMARY

Property: Al-Kel Alliance
Reviewer: Brian Sims, TITAN Engineering, Inc.
Date: June 22, 2012

Laboratory: Test America
Laboratory Job No(s): 600-55242-1, dated June 22, 2012

Intended use of data:
- ☒ Soil investigation
- ☐ Groundwater investigation
- ☐ Other: _____

Samples analyzed: 3

Analyses requested:
- ☐ TX-1005 (TPH)
- ☐ EPA-8021 (BTEX/MTBE)
- ☐ EPA-8270 (PAHs)
- ☐ EPA-8260 (VOCs)
- ☐ E160.3 (% Moisture)
- ☒ Other: 8151A (Herbicides)

Data reviewed:
- ☒ Laboratory reportable data
- ☒ Laboratory review checklists (LRCs)
- ☒ Laboratory exception reports (ERs)
- ☒ Chain-of-custody (CoC) forms
- ☒ Field notes
- ☐ Other: _____

Project Objectives:

Type of Chemical	Recovery (%)		RPD (%)
	Low	High	
Organics	60	140	40
Inorganics	70	130	30

Level of Performance:	
Do SQLs and MQLs meet project objectives?	YES
According to the LRCs:	
Are soil sample concentrations corrected for moisture content?	YES
Does sample information agree with the CoC forms?	YES
Were the sample containers made of appropriate materials?	YES
Were the samples received by the laboratory in good condition?	YES
Were sample temperatures 4°C ± 2°C?	YES
Were samples prepared and analyzed within the holding times specified in SW-846, Table 2-40?	YES
Did the initial/continuing calibrations (ICCV/CCV) meet SW-846 requirements for the analyses performed?	YES
Do the LRCs document instrument performance calibrations (GC/MS tunes) for analyses performed?	YES

Environmental Sample Surrogates:	
Were surrogate recoveries within project objectives?	YES
Field QA/QC:	
Were target analytes detected in any trip blanks?	NA
Were target analytes detected in field blanks?	NA
Were target analytes detected in any equipment blanks?	NA
Did field duplicate precision meet project objectives?	NA
Laboratory QA/QC:	
Were target COCs detected in any laboratory blanks?	NO
Were surrogate recoveries for laboratory blanks within project objectives?	YES
Were LCS/LCSD recoveries and/or RPD values within project objectives	YES
Were surrogate recoveries for LCS/LCSD within project objectives?	YES
Were MS/MSD recoveries and/or RPD values within project objectives?	NA
MS/MSD was conducted on unrelated samples	
Were surrogate recoveries for MS/MSD within project objectives?	YES
According to Field Records:	
Were the chain-of-custody forms completed and signed?	YES
Were samples collected according to documented SOPs?	YES
Were the samples preserved in the field according to SW-846, Table 2-40?	YES
Were groundwater samples filtered?	NA
Were field instruments used during sampling properly calibrated?	YES

Qualifiers	
U	Not detected above the SDL
J	Estimated concentration (detected below quantitation limits)
R	Rejected
B	Detected in associated method blank
S	Spike recovery outside accepted recovery limits
Bias Codes	
H	Bias likely to be high
L	Bias likely to be low

Attachments:

- ☒ Laboratory reportable data
- ☒ Laboratory ERs
- ☐ Field notes
- ☒ Laboratory LRCs
- ☒ CoC forms
- ☐ Table 1: Field Precision