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NMED
Hazardous Waste Bureau

15JAN15

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 49TH WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO

DeAnna Rothhaupt
Chief, Holloman AFB Environmental
550 Tabosa Avenue
Holloman AFB NM 88330-8458

New Mexico Environment Department
Attn: Mr. John Kieling, Chief
Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe NM 87505-6303

Dear Mr. Kieling

The purpose of this letter is to notify the New Mexico Environment Department about two Areas of Concern that were discovered during construction activities at Holloman AFB. These two areas were identified at buildings 823 and 883. A two-point composite sample was taken at each area to determine if contaminants were present in soil.

The soil sample result at building 823 indicated presence of Total Petroleum Hydrocarbons (TPH) at 975 mg/kg. Due to this detection, the Air Force has determined that further investigation is warranted at this site. The review of soil results and sample locations occurred on January 09, 2015. Therefore, we are making this notification to you per the requirements of Holloman AFB Resource Conservation and Recovery Act (RCRA) Permit. Based on the information, a RCRA Facility Investigation (RFI) has been proposed at Bldg. 823 to determine the nature and extent of contamination. The RFI work plan will be coordinated with the New Mexico Environment Department and is expected to be available in November 2016. The map and lab result for Bldg. 823 is attached for your records.

The soil sample result at Bldg. 883 indicated presence of TPH at 116 mg/kg. Based on this low detection, the Air Force does not believe this area should be identified as an Area of Concern. Please provide additional input if your office believes that additional investigation is warranted. The review of soil results and sample locations occurred on January 09, 2015. Therefore, we are making this notification to you per the Holloman AFB RCRA Permit. The map and lab result for Bldg 883 is also attached for your records.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact me at 575-572-3931 or by e-mail at deanna.rothhaupt@holloman.af.mil.

Sincerely

DEANNA ROTHHAUPT, GS-12, DAFC

4 Attachments:
Map of sample points for Facility 823
Sample results for Facility 823
Map of sample points for Facility 883
Sample results for Facility 883

cc: (w/Attch)
Mr. David Strasser
Hazardous Waste Bureau
5500 San Antonio Dr, NE
Albuquerque NM 87109-4127

(w/o Attch)
Mr. Will Moats
Hazardous Waste Bureau
5500 San Antonio Dr, NE
Albuquerque NM 87109-4127

(electronic only)
Mr. Chuck Hendrickson
USEPA, Region 6 (6PD-F)
1445 Ross Ave, Ste 1200
Dallas TX 75202-2750

Facility 823

	SCALE: 0 20 40 80 Feet	DATE: 12/19/14	DRAWN BY: TDL DRAWING NO: Figure 1	Note: Projection - New Mexico State Plane, Central Zone, North American Horizontal Datum 1983 (feet).

Associated Laboratories
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Info@associatedlabs.com

ACCREDITED IN ACCORDANCE WITH nelac
04232CA

Client: R&R Environmental Inc.
Address: 1511 10th Street
Alamogordo, NM 88310

Attn: Dave L Rizzuto

Comments: Compliance / Haz-waste
Holloman AFB

Lab Request: 344473
Report Date: 08/13/2014
Date Received: 08/07/2014
Client ID: 8242

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
344473-001	GT148037
344473-002	Trip Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Nina Prasad
President

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Matrix: Solid	**Client:** R&R Environmental Inc.	**Collector:** Client
Sampled: 08/06/2014 13:30	**Site:**	
Sample #: 344473-001	**Client Sample #:** GT148037	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 6010B *NELAC*	**Prep Method:** EPA 1311/3010A						**QCBatchID:**	QC1148566
Arsenic	**0.013 J**	1	0.004	0.05	mg/L	08/11/14	wyu	
Barium	**0.083 J**	1	0.001	0.1	mg/L	08/11/14	wyu	
Cadmium	ND	1	0.001	0.05	mg/L	08/11/14	wyu	
Chromium	ND	1	0.002	0.05	mg/L	08/11/14	wyu	
Lead	ND	1	0.004	0.05	mg/L	08/11/14	wyu	
Selenium	ND	1	0.004	0.05	mg/L	08/11/14	wyu	
Silver	**0.005 J**	1	0.001	0.05	mg/L	08/11/14	wyu	
Method: EPA 7470A *NELAC*	**Prep Method:** EPA 1311/7470A						**QCBatchID:**	QC1148545
Mercury	ND	20	0.08	0.2	mg/L	08/11/14	nina	
Method: EPA 8015B *NELAC*	**Prep Method:** EPA 3545						**QCBatchID:**	QC1148539
TPH Diesel	**975**	100	40	100	mg/Kg	08/08/14	lyt	
TPH Motor Oil	**656**	100	210	500	mg/Kg	08/08/14	lyt	
Surrogate	*% Recovery*		*Limits*		*Notes*			
Triacontane (SUR)	*2450*		*60-140*	*S*				
Method: EPA 8015B *NELAC*	**Prep Method:** EPA 5035						**QCBatchID:**	QC1148548
TPH Gasoline	**21.7**	2	0.036	6	mg/Kg	08/07/14	ttran	
Surrogate	*% Recovery*		*Limits*		*Notes*			
4-Bromofluorobenzene (SUR)	*75*		*60-140*					
Method: EPA 8260B *NELAC*	**Prep Method:** EPA 5035						**QCBatchID:**	QC1148547
1,1,1,2-Tetrachloroethane	ND	32.05	7.692	160.25	ug/Kg	08/07/14	nicollez	
1,1,1-Trichloroethane	ND	32.05	4.8075	160.25	ug/Kg	08/07/14	nicollez	
1,1,2,2-Tetrachloroethane	ND	32.05	9.2945	160.25	ug/Kg	08/07/14	nicollez	
1,1,2-Trichloroethane	ND	32.05	7.051	160.25	ug/Kg	08/07/14	nicollez	
1,1,2-Trichlorotrifluoroethane	ND	32.05	23.717	160.25	ug/Kg	08/07/14	nicollez	
1,1-Dichloroethane	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
1,1-Dichloroethene	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
1,1-Dichloropropene	ND	32.05	6.7305	160.25	ug/Kg	08/07/14	nicollez	
1,2,3-Trichlorobenzene	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
1,2,3-Trichloropropane	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
1,2,4-Trichlorobenzene	ND	32.05	10.5765	160.25	ug/Kg	08/07/14	nicollez	
1,2,4-Trimethylbenzene	ND	32.05	8.974	160.25	ug/Kg	08/07/14	nicollez	
1,2-Dibromo-3-chloropropane	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
1,2-Dibromoethane	ND	32.05	3.846	160.25	ug/Kg	08/07/14	nicollez	
1,2-Dichlorobenzene	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
1,2-Dichloroethane	ND	32.05	4.487	160.25	ug/Kg	08/07/14	nicollez	
1,2-Dichloropropane	ND	32.05	10.897	160.25	ug/Kg	08/07/14	nicollez	
1,3,5-Trimethylbenzene	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
1,3-Dichlorobenzene	ND	32.05	6.7305	160.25	ug/Kg	08/07/14	nicollez	
1,3-Dichloropropane	ND	32.05	6.0895	160.25	ug/Kg	08/07/14	nicollez	
1,4-Dichlorobenzene	ND	32.05	7.692	160.25	ug/Kg	08/07/14	nicollez	
2,2-Dichloropropane	ND	32.05	6.0895	160.25	ug/Kg	08/07/14	nicollez	
2-Butanone (MEK)	ND	32.05	23.076	3205	ug/Kg	08/07/14	nicollez	
2-Chloroethyl Vinyl Ether	ND	32.05	9.615	160.25	ug/Kg	08/07/14	nicollez	
2-Chlorotoluene	ND	32.05	8.0125	160.25	ug/Kg	08/07/14	nicollez	
4-Chlorotoluene	ND	32.05	7.051	160.25	ug/Kg	08/07/14	nicollez	
4-Isopropyltoluene	ND	32.05	8.6535	160.25	ug/Kg	08/07/14	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	32.05	5.4485	160.25	ug/Kg	08/07/14	nicollez	
Acetone	ND	32.05	320.5	3205	ug/Kg	08/07/14	nicollez	
Allyl Chloride	ND	32.05	4.487	160.25	ug/Kg	08/07/14	nicollez	

Matrix:	Solid	**Client:**	R&R Environmental Inc.	**Collector:**	Client
Sampled:	08/06/2014 13:30	**Site:**			
Sample #:	344473-001	**Client Sample #:**	GT148037	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Benzene	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
Bromobenzene	ND	32.05	9.615	160.25	ug/Kg	08/07/14	nicollez	
Bromochloromethane	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
Bromodichloromethane	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
Bromoform	ND	32.05	6.0895	160.25	ug/Kg	08/07/14	nicollez	
Bromomethane	ND	32.05	7.051	160.25	ug/Kg	08/07/14	nicollez	
Carbon Tetrachloride	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
Chlorobenzene	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
Chlorodibromomethane	ND	32.05	6.0895	160.25	ug/Kg	08/07/14	nicollez	
Chloroethane	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
Chloroform	ND	32.05	5.4485	160.25	ug/Kg	08/07/14	nicollez	
Chloromethane	ND	32.05	6.7305	160.25	ug/Kg	08/07/14	nicollez	
cis-1,2-Dichloroethene	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
cis-1,3-dichloropropene	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
cis-1,4-dichloro-2-butene	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
Dibromomethane	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
Dichlorodifluoromethane	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
Di-isopropyl ether (DIPE)	ND	32.05	6.7305	160.25	ug/Kg	08/07/14	nicollez	
Ethylbenzene	ND	32.05	8.0125	160.25	ug/Kg	08/07/14	nicollez	
Ethyl-tertbutylether (ETBE)	ND	32.05	13.461	160.25	ug/Kg	08/07/14	nicollez	
Hexachlorobutadiene	ND	32.05	12.179	160.25	ug/Kg	08/07/14	nicollez	
Isopropylbenzene	ND	32.05	5.4485	160.25	ug/Kg	08/07/14	nicollez	
m and p-Xylene	ND	32.05	6.7305	160.25	ug/Kg	08/07/14	nicollez	
Methylene chloride	ND	32.05	7.051	160.25	ug/Kg	08/07/14	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	32.05	8.0125	160.25	ug/Kg	08/07/14	nicollez	
Naphthalene	ND	32.05	8.974	160.25	ug/Kg	08/07/14	nicollez	
N-butylbenzene	ND	32.05	5.128	160.25	ug/Kg	08/07/14	nicollez	
N-propylbenzene	ND	32.05	6.0895	160.25	ug/Kg	08/07/14	nicollez	
o-Xylene	ND	32.05	4.1665	160.25	ug/Kg	08/07/14	nicollez	
Sec-butylbenzene	ND	32.05	10.897	160.25	ug/Kg	08/07/14	nicollez	
Styrene	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
t-Butyl alcohol (TBA)	ND	32.05	282.04	320.5	ug/Kg	08/07/14	nicollez	
Tert-amylmethylether (TAME)	ND	32.05	6.0895	160.25	ug/Kg	08/07/14	nicollez	
Tert-butylbenzene	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
Tetrachloroethene	ND	32.05	6.41	160.25	ug/Kg	08/07/14	nicollez	
Toluene	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
trans-1,2-dichloroethene	ND	32.05	7.3715	160.25	ug/Kg	08/07/14	nicollez	
trans-1,3-dichloropropene	ND	32.05	4.487	160.25	ug/Kg	08/07/14	nicollez	
trans-1,4-dichloro-2-butene	ND	32.05	12.179	160.25	ug/Kg	08/07/14	nicollez	
Trichloroethene	ND	32.05	12.4995	160.25	ug/Kg	08/07/14	nicollez	
Trichlorofluoromethane	ND	32.05	8.0125	160.25	ug/Kg	08/07/14	nicollez	
Vinyl Chloride	ND	32.05	5.769	160.25	ug/Kg	08/07/14	nicollez	
Xylenes (Total)	ND	32.05	14.4225	160.25	ug/Kg	08/07/14	nicollez	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*100*	*70-145*	
4-Bromofluorobenzene (SUR)	*105*	*70-145*	
Dibromodifluoromethane (SUR)	*99*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Method: EPA 8270C *NELAC* **Prep Method:** EPA 3545 **QCBatchID:** QC1148594

N-Nitrosodimethylamine (NDMA)	ND	1	22	250	ug/Kg	08/11/14	sdonovan
Phenol	ND	1	65	250	ug/Kg	08/11/14	sdonovan
Bis(2-chloroethyl) Ether	ND	1	71	250	ug/Kg	08/11/14	sdonovan

Matrix:	Solid	**Client:**	R&R Environmental Inc.	**Collector:**	Client
Sampled:	08/06/2014 13:30	**Site:**			
Sample #:	344473-001	**Client Sample #:**	GT148037	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
2-Chlorophenol	ND	1	65	250	ug/Kg	08/11/14	sdonovan	
1,3-Dichlorobenzene	ND	1	68	250	ug/Kg	08/11/14	sdonovan	
1,4-Dichlorobenzene	ND	1	61	250	ug/Kg	08/11/14	sdonovan	
Benzyl alcohol	ND	1	75	250	ug/Kg	08/11/14	sdonovan	
1,2-Dichlorobenzene	ND	1	64	250	ug/Kg	08/11/14	sdonovan	
2-Methylphenol (o-Cresol)	ND	1	80	250	ug/Kg	08/11/14	sdonovan	
Bis(2-chloroisopropyl) Ether	ND	1	69	250	ug/Kg	08/11/14	sdonovan	
4-Methylphenol (p-Cresol)	ND	1	194	400	ug/Kg	08/11/14	sdonovan	
N-Nitrosodi-n-propylamine (NDPA)	ND	1	86	250	ug/Kg	08/11/14	sdonovan	
Hexachloroethane	ND	1	67	250	ug/Kg	08/11/14	sdonovan	
Nitrobenzene	ND	1	115	250	ug/Kg	08/11/14	sdonovan	
Isophorone	ND	1	90	250	ug/Kg	08/11/14	sdonovan	
2-Nitrophenol	ND	1	79	250	ug/Kg	08/11/14	sdonovan	
2,4-Dimethylphenol	ND	1	217	250	ug/Kg	08/11/14	sdonovan	
Bis(2-chloroethoxy)methane	ND	1	80	250	ug/Kg	08/11/14	sdonovan	
Benzoic acid	ND	1	300	1200	ug/Kg	08/11/14	sdonovan	
2,4-Dichlorophenol	ND	1	81	250	ug/Kg	08/11/14	sdonovan	
1,2,4-Trichlorobenzene	ND	1	79	250	ug/Kg	08/11/14	sdonovan	
Naphthalene	ND	1	58	250	ug/Kg	08/11/14	sdonovan	
4-Chloroaniline	ND	1	68	250	ug/Kg	08/11/14	sdonovan	
Hexachlorobutadiene	ND	1	62	250	ug/Kg	08/11/14	sdonovan	
4-Chloro-3-methylphenol	ND	1	63	250	ug/Kg	08/11/14	sdonovan	
2-Methylnaphthalene	**270**	1	49	250	ug/Kg	08/11/14	sdonovan	
Hexachlorocyclopentadiene	ND	1	75	250	ug/Kg	08/11/14	sdonovan	
2,4,6-Trichlorophenol	ND	1	66	250	ug/Kg	08/11/14	sdonovan	
2,4,5-Trichlorophenol	ND	1	83	250	ug/Kg	08/11/14	sdonovan	
2-Chloronaphthalene	ND	1	86	250	ug/Kg	08/11/14	sdonovan	
2-Nitroaniline	ND	1	78	250	ug/Kg	08/11/14	sdonovan	
Dimethyl phthalate	ND	1	70	250	ug/Kg	08/11/14	sdonovan	
Acenaphthylene	ND	1	83	250	ug/Kg	08/11/14	sdonovan	
2,6-Dinitrotoluene	ND	1	82	250	ug/Kg	08/11/14	sdonovan	
3-Nitroaniline	ND	1	116	250	ug/Kg	08/11/14	sdonovan	
Acenaphthene	ND	1	79	250	ug/Kg	08/11/14	sdonovan	
2,4-Dinitrophenol	ND	1	32	250	ug/Kg	08/11/14	sdonovan	
Dibenzofuran	ND	1	77	250	ug/Kg	08/11/14	sdonovan	
4-Nitrophenol	ND	1	98	250	ug/Kg	08/11/14	sdonovan	
2,4-Dinitrotoluene	ND	1	66	250	ug/Kg	08/11/14	sdonovan	
Diethyl phthalate	ND	1	69	250	ug/Kg	08/11/14	sdonovan	
Fluorene	ND	1	70	250	ug/Kg	08/11/14	sdonovan	
4-Chlorophenyl phenyl ether	ND	1	76	250	ug/Kg	08/11/14	sdonovan	
4-Nitroaniline	ND	1	146	250	ug/Kg	08/11/14	sdonovan	
2-Methyl-4,6-dinitrophenol	ND	1	61	250	ug/Kg	08/11/14	sdonovan	
N-Nitrosodiphenylamine	ND	1	86	250	ug/Kg	08/11/14	sdonovan	
1,2-Diphenylhydrazine	ND	1	17	250	ug/Kg	08/11/14	sdonovan	
4-Bromophenyl phenyl ether	ND	1	79	250	ug/Kg	08/11/14	sdonovan	
Hexachlorobenzene	ND	1	73	250	ug/Kg	08/11/14	sdonovan	
Pentachlorophenol	ND	1	47	250	ug/Kg	08/11/14	sdonovan	
Phenanthrene	ND	1	49	250	ug/Kg	08/11/14	sdonovan	
Anthracene	ND	1	55	250	ug/Kg	08/11/14	sdonovan	
Di-n-butyl phthalate	ND	1	145	250	ug/Kg	08/11/14	sdonovan	
Fluoranthene	ND	1	54	250	ug/Kg	08/11/14	sdonovan	
Benzidine	ND	1	686	1200	ug/Kg	08/11/14	sdonovan	

Matrix:	Solid	**Client:**	R&R Environmental Inc.	**Collector:**	Client
Sampled:	08/06/2014 13:30	**Site:**			
Sample #:	344473-001	**Client Sample #:**	GT148037	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Pyrene	ND	1	80	250	ug/Kg	08/11/14	sdonovan	
Butylbenzyl Phthalate	ND	1	82	250	ug/Kg	08/11/14	sdonovan	
Benz(a)anthracene	ND	1	52	250	ug/Kg	08/11/14	sdonovan	
3,3'-Dichlorobenzidine	ND	1	68	250	ug/Kg	08/11/14	sdonovan	
Chrysene	ND	1	48	250	ug/Kg	08/11/14	sdonovan	
Bis(2-ethylhexyl) phthalate	**6600**	1	109	250	ug/Kg	08/11/14	sdonovan	
Di-n-octyl phthalate	ND	1	101	250	ug/Kg	08/11/14	sdonovan	
Benzo(b)fluoranthene	ND	1	136	250	ug/Kg	08/11/14	sdonovan	
Benzo(k)fluoranthene	ND	1	110	250	ug/Kg	08/11/14	sdonovan	
Benzo(a)pyrene	ND	1	117	250	ug/Kg	08/11/14	sdonovan	
Indeno(1,2,3-cd)pyrene	ND	1	112	250	ug/Kg	08/11/14	sdonovan	
Dibenz(a,h)anthracene	ND	1	78	250	ug/Kg	08/11/14	sdonovan	
Benzo(g,h,i)perylene	ND	1	78	250	ug/Kg	08/11/14	sdonovan	

Surrogate	*% Recovery*	*Limits*	*Notes*
2,4,6-Tribromophenol (SUR)	*92*	*10-195*	
2-Fluorobiphenyl (SUR)	*69*	*41-125*	
2-Fluorophenol (SUR)	*117*	*49-148*	
Nitrobenzene-d5 (SUR)	*77*	*29-128*	
p-Terphenyl (SUR)	*82*	*33-141*	
Phenol-d5 (SUR)	*67*	*45-146*	

Matrix:	Water	**Client:**	R&R Environmental Inc.	**Collector:**	Client
Sampled:	08/06/2014	**Site:**			
Sample #:	344473-002	**Client Sample #:**	Trip Blank	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260B *NELAC* **Prep Method:** EPA 5030B							**QCBatchID:**	QC1148494
1,1,1,2-Tetrachloroethane	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
1,1,1-Trichloroethane	ND	1	0.38	5	ug/L	08/07/14	bbuilt	
1,1,2,2-Tetrachloroethane	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
1,1,2-Trichloroethane	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
1,1,2-Trichlorotrifluoroethane	ND	1	0.29	5	ug/L	08/07/14	bbuilt	
1,1-Dichloroethane	ND	1	0.32	5	ug/L	08/07/14	bbuilt	
1,1-Dichloroethene	ND	1	0.3	5	ug/L	08/07/14	bbuilt	
1,1-Dichloropropene	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
1,2,3-Trichlorobenzene	ND	1	0.28	5	ug/L	08/07/14	bbuilt	
1,2,3-Trichloropropane	ND	1	0.16	5	ug/L	08/07/14	bbuilt	
1,2,4-Trichlorobenzene	ND	1	0.27	5	ug/L	08/07/14	bbuilt	
1,2,4-Trimethylbenzene	ND	1	0.28	5	ug/L	08/07/14	bbuilt	
1,2-Dibromo-3-chloropropane	ND	1	0.12	5	ug/L	08/07/14	bbuilt	
1,2-Dibromoethane	ND	1	0.19	5	ug/L	08/07/14	bbuilt	
1,2-Dichlorobenzene	ND	1	0.26	5	ug/L	08/07/14	bbuilt	
1,2-Dichloroethane	ND	1	0.2	5	ug/L	08/07/14	bbuilt	
1,2-Dichloropropane	ND	1	0.36	5	ug/L	08/07/14	bbuilt	
1,3,5-Trimethylbenzene	ND	1	0.24	5	ug/L	08/07/14	bbuilt	
1,3-Dichlorobenzene	ND	1	0.34	5	ug/L	08/07/14	bbuilt	
1,3-Dichloropropane	ND	1	0.19	5	ug/L	08/07/14	bbuilt	
1,4-Dichlorobenzene	ND	1	0.43	5	ug/L	08/07/14	bbuilt	
2,2-Dichloropropane	ND	1	0.32	5	ug/L	08/07/14	bbuilt	
2-Butanone (MEK)	ND	1	0.78	100	ug/L	08/07/14	bbuilt	
2-Chloroethyl Vinyl Ether	ND	1	0.23	5	ug/L	08/07/14	bbuilt	
2-Chlorotoluene	ND	1	0.33	5	ug/L	08/07/14	bbuilt	
4-Chlorotoluene	ND	1	0.31	5	ug/L	08/07/14	bbuilt	
4-Isopropyltoluene	ND	1	0.32	5	ug/L	08/07/14	bbuilt	
4-Methyl-2-pentanone (MIBK)	ND	1	0.12	5	ug/L	08/07/14	bbuilt	
Acetone	ND	1	10	100	ug/L	08/07/14	bbuilt	
Allyl Chloride	ND	1	0.19	5	ug/L	08/07/14	bbuilt	
Benzene	ND	1	0.18	1	ug/L	08/07/14	bbuilt	
Bromobenzene	ND	1	0.53	5	ug/L	08/07/14	bbuilt	
Bromochloromethane	ND	1	0.17	5	ug/L	08/07/14	bbuilt	
Bromodichloromethane	ND	1	0.31	5	ug/L	08/07/14	bbuilt	
Bromoform	ND	1	0.13	5	ug/L	08/07/14	bbuilt	
Bromomethane	ND	1	0.68	5	ug/L	08/07/14	bbuilt	
Carbon Tetrachloride	ND	1	0.27	5	ug/L	08/07/14	bbuilt	
Chlorobenzene	ND	1	0.19	5	ug/L	08/07/14	bbuilt	
Chlorodibromomethane	ND	1	0.21	5	ug/L	08/07/14	bbuilt	
Chloroethane	ND	1	0.45	5	ug/L	08/07/14	bbuilt	
Chloroform	ND	1	0.18	5	ug/L	08/07/14	bbuilt	
Chloromethane	ND	1	0.27	5	ug/L	08/07/14	bbuilt	
cis-1,2-Dichloroethene	ND	1	0.27	5	ug/L	08/07/14	bbuilt	
cis-1,3-dichloropropene	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
cis-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	08/07/14	bbuilt	
Dibromomethane	ND	1	0.23	5	ug/L	08/07/14	bbuilt	
Dichlorodifluoromethane	ND	1	0.33	5	ug/L	08/07/14	bbuilt	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	08/07/14	bbuilt	
Ethylbenzene	ND	1	0.21	5	ug/L	08/07/14	bbuilt	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	08/07/14	bbuilt	
Hexachlorobutadiene	ND	1	0.51	5	ug/L	08/07/14	bbuilt	

Matrix:	Water	**Client:**	R&R Environmental Inc.	**Collector:**	Client
Sampled:	08/06/2014	**Site:**			
Sample #:	344473-002	**Client Sample #:**	Trip Blank	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Isopropylbenzene	ND	1	0.24	5	ug/L	08/07/14	bbuilt	
m and p-Xylene	ND	1	0.45	5	ug/L	08/07/14	bbuilt	
Methylene chloride	ND	1	0.16	5	ug/L	08/07/14	bbuilt	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	08/07/14	bbuilt	
Naphthalene	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
N-butylbenzene	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
N-propylbenzene	ND	1	0.31	5	ug/L	08/07/14	bbuilt	
o-Xylene	ND	1	0.29	5	ug/L	08/07/14	bbuilt	
Sec-butylbenzene	ND	1	0.32	5	ug/L	08/07/14	bbuilt	
Styrene	ND	1	0.22	5	ug/L	08/07/14	bbuilt	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	08/07/14	bbuilt	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	08/07/14	bbuilt	
Tert-butylbenzene	ND	1	0.4	5	ug/L	08/07/14	bbuilt	
Tetrachloroethene	ND	1	0.8	5	ug/L	08/07/14	bbuilt	
Toluene	ND	1	0.24	5	ug/L	08/07/14	bbuilt	
trans-1,2-dichloroethene	ND	1	0.33	5	ug/L	08/07/14	bbuilt	
trans-1,3-dichloropropene	ND	1	0.23	5	ug/L	08/07/14	bbuilt	
trans-1,4-dichloro-2-butene	ND	1	0.17	5	ug/L	08/07/14	bbuilt	
Trichloroethene	ND	1	0.39	5	ug/L	08/07/14	bbuilt	
Trichlorofluoromethane	ND	1	0.25	5	ug/L	08/07/14	bbuilt	
Vinyl Chloride	ND	1	0.18	5	ug/L	08/07/14	bbuilt	
Xylenes (Total)	ND	1	0.45	5	ug/L	08/07/14	bbuilt	

Surrogate	*% Recovery*	*Limits*	*Notes*
1,2-Dichloroethane-d4 (SUR)	*124*	*70-145*	
4-Bromofluorobenzene (SUR)	*109*	*70-145*	
Dibromodifluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*97*	*70-145*	

QCBatchID: QC1148494	Analyst: bbuilt	Method: EPA 8260B
Matrix: Water	Analyzed: 08/07/2014	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148494MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,1-Trichloroethane	ND	ug/L	0.38	5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.25	5	
1,1,2-Trichloroethane	ND	ug/L	0.25	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.29	5	
1,1-Dichloroethane	ND	ug/L	0.32	5	
1,1-Dichloroethene	ND	ug/L	0.3	5	
1,1-Dichloropropene	ND	ug/L	0.25	5	
1,2,3-Trichlorobenzene	ND	ug/L	0.28	5	
1,2,3-Trichloropropane	ND	ug/L	0.16	5	
1,2,4-Trichlorobenzene	ND	ug/L	0.27	5	
1,2,4-Trimethylbenzene	ND	ug/L	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.12	5	
1,2-Dibromoethane	ND	ug/L	0.19	5	
1,2-Dichlorobenzene	ND	ug/L	0.26	5	
1,2-Dichloroethane	ND	ug/L	0.2	5	
1,2-Dichloropropane	ND	ug/L	0.36	5	
1,3,5-Trimethylbenzene	ND	ug/L	0.24	5	
1,3-Dichlorobenzene	ND	ug/L	0.34	5	
1,3-Dichloropropane	ND	ug/L	0.19	5	
1,4-Dichlorobenzene	ND	ug/L	0.43	5	
2,2-Dichloropropane	ND	ug/L	0.32	5	
2-Butanone (MEK)	ND	ug/L	0.78	100	
2-Chloroethyl Vinyl Ether	ND	ug/L	0.23	5	
2-Chlorotoluene	ND	ug/L	0.33	5	
4-Chlorotoluene	ND	ug/L	0.31	5	
4-Isopropyltoluene	ND	ug/L	0.32	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.12	5	
Acetone	ND	ug/L	10	100	
Allyl Chloride	ND	ug/L	0.19	5	
Benzene	ND	ug/L	0.18	1	
Bromobenzene	ND	ug/L	0.53	5	
Bromochloromethane	ND	ug/L	0.17	5	
Bromodichloromethane	ND	ug/L	0.31	5	
Bromoform	ND	ug/L	0.13	5	
Bromomethane	ND	ug/L	0.68	5	
Carbon Tetrachloride	ND	ug/L	0.27	5	
Chlorobenzene	ND	ug/L	0.19	5	
Chlorodibromomethane	ND	ug/L	0.21	5	
Chloroethane	ND	ug/L	0.45	5	
Chloroform	ND	ug/L	0.18	5	
Chloromethane	ND	ug/L	0.27	5	
cis-1,2-Dichloroethene	ND	ug/L	0.27	5	
cis-1,3-dichloropropene	ND	ug/L	0.25	5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Dibromomethane	ND	ug/L	0.23	5	
Dichlorodifluoromethane	ND	ug/L	0.33	5	
Ethylbenzene	ND	ug/L	0.21	5	
Hexachlorobutadiene	ND	ug/L	0.51	5	
Isopropylbenzene	ND	ug/L	0.24	5	

QCBatchID: QC1148494	Analyst: bbuilt	Method: EPA 8260B
Matrix: Water	Analyzed: 08/07/2014	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148494MB1					
m and p-Xylene	ND	ug/L	0.45	5	
Methylene chloride	**0.6 J**	ug/L	0.16	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.19	1	
Naphthalene	ND	ug/L	0.25	5	
N-butylbenzene	ND	ug/L	0.25	5	
N-propylbenzene	ND	ug/L	0.31	5	
o-Xylene	ND	ug/L	0.29	5	
Sec-butylbenzene	ND	ug/L	0.32	5	
Styrene	ND	ug/L	0.22	5	
t-Butyl alcohol (TBA)	ND	ug/L	5.2	10	
Tert-butylbenzene	ND	ug/L	0.4	5	
Tetrachloroethene	ND	ug/L	0.18	5	
Toluene	ND	ug/L	0.24	5	
trans-1,2-dichloroethene	ND	ug/L	0.33	5	
trans-1,3-dichloropropene	ND	ug/L	0.23	5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.17	5	
Trichloroethene	ND	ug/L	0.39	5	
Trichlorofluoromethane	ND	ug/L	0.25	5	
Vinyl Chloride	ND	ug/L	0.18	5	
Xylenes (Total)	ND	ug/L	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148494LCS1											
1,1-Dichloroethene	50		50		ug/L	100			59-172		
Benzene	50		49		ug/L	98			62-137		
Chlorobenzene	50		50		ug/L	100			60-133		
Methyl-t-butyl Ether (MTBE)	50		47		ug/L	94			62-137		
Toluene	50		48		ug/L	96			59-139		
Trichloroethene	50		47		ug/L	94			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148494MS1, QC1148494MSD1												**Source: 344367-001**
1,1-Dichloroethene	ND	50	50	48	51	ug/L	96	102	6.1	59-172	22	
Benzene	ND	50	50	49	51	ug/L	98	102	4.0	62-137	24	
Chlorobenzene	ND	50	50	48	49	ug/L	96	98	2.1	60-133	24	
Toluene	ND	50	50	45	46	ug/L	90	92	2.2	59-139	21	
Trichloroethene	ND	50	50	45	48	ug/L	90	96	6.5	66-142	21	

QCBatchID:	QC1148539	**Analyst:**	lytagas	**Method:**	EPA 8015B
Matrix:	Solid	**Analyzed:**	08/08/2014	**Instrument:**	SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148539MB1					
Hydraulic Oil	ND	mg/Kg		5	
Kerosene	ND	mg/Kg			
Stoddard Solvent	ND	mg/Kg		5	
TPH (>C32)	ND	mg/Kg	2.1	5	
TPH (C10 to C22)	ND	mg/Kg	0.4	3	
TPH (C10 to C28)	ND	mg/Kg	0.4	3	
TPH (C12 to C28)	ND	mg/Kg	0.4	3	
TPH (C13 to C22)	ND	mg/Kg	0.4	3	
TPH (C13 to C23)	ND	mg/Kg	0.4	3	
TPH (C17 to C36)	ND	mg/Kg	2.1	5	
TPH (C22 to C36)	ND	mg/Kg	2.1	5	
TPH (C22 to C40)	ND	mg/Kg	2.1	5	
TPH (C23 to C32)	ND	mg/Kg	2.1	5	
TPH (C23 to C40)	ND	mg/Kg	2.1	5	
TPH (C28 to C36)	ND	mg/Kg	2.1	5	
TPH (C28 to C40)	ND	mg/Kg	2.1	5	
TPH (C6 to C10)	ND	mg/Kg	1.7	3	
TPH (C6 to C12)	ND	mg/Kg	1.7	3	
TPH (C6 to C8)	ND	mg/Kg	1.7	3	
TPH (C9 to C16)	ND	mg/Kg	0.4	3	
TPH Diesel	ND	mg/Kg	0.4	1	
TPH Gasoline	ND	mg/Kg	1.7	3	
TPH Jet Fuel 4	ND	mg/Kg		5	
TPH Jet Fuel 5	ND	mg/Kg		5	
TPH Jet Fuel 8	ND	mg/Kg		5	
TPH Jet Fuel A	ND	mg/Kg		5	
TPH Motor Oil	ND	mg/Kg	2.1	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148539LCS1											
TPH Diesel	25		20.9		mg/Kg	84			70-130		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148539MS1, QC1148539MSD1												**Source: 344219-001**
TPH Diesel	ND	25	25	17.7	18.1	mg/Kg	71	72	2.2	70-130	30	

QCBatchID: QC1148545	**Analyst:** nina	**Method:** EPA 7470A	
Matrix: Solid	**Analyzed:** 08/11/2014	**Instrument:** AAICP (group)	

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148545MB1					
Mercury	ND	mg/L	0.004	0.01	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148545LCS1											
Mercury	0.1		0.100		mg/L	100			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148545MS1, QC1148545MSD1												**Source: 344473-001**
Mercury	ND	0.1	0.1	0.102	0.102	mg/L	102	102	0.0	75-125	20	

QCBatchID: QC1148547	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 08/07/2014	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148547MB1					
1,1,1,2-Tetrachloroethane	ND	ug/Kg	0.24	5	
1,1,1-Trichloroethane	ND	ug/Kg	0.15	5	
1,1,2,2-Tetrachloroethane	ND	ug/Kg	0.29	5	
1,1,2-Trichloroethane	ND	ug/Kg	0.22	5	
1,1,2-Trichlorotrifluoroethane	ND	ug/Kg	0.74	5	
1,1-Dichloroethane	ND	ug/Kg	0.23	5	
1,1-Dichloroethene	ND	ug/Kg	0.18	5	
1,1-Dichloropropene	ND	ug/Kg	0.21	5	
1,2,3-Trichlorobenzene	ND	ug/Kg	0.18	5	
1,2,3-Trichloropropane	ND	ug/Kg	0.2	5	
1,2,4-Trichlorobenzene	ND	ug/Kg	0.33	5	
1,2,4-Trimethylbenzene	ND	ug/Kg	0.28	5	
1,2-Dibromo-3-chloropropane	ND	ug/Kg	0.2	5	
1,2-Dibromoethane	ND	ug/Kg	0.12	5	
1,2-Dichlorobenzene	ND	ug/Kg	0.18	5	
1,2-Dichloroethane	ND	ug/Kg	0.14	5	
1,2-Dichloropropane	ND	ug/Kg	0.34	5	
1,3,5-Trimethylbenzene	ND	ug/Kg	0.23	5	
1,3-Dichlorobenzene	ND	ug/Kg	0.21	5	
1,3-Dichloropropane	ND	ug/Kg	0.19	5	
1,4-Dichlorobenzene	ND	ug/Kg	0.24	5	
2,2-Dichloropropane	ND	ug/Kg	0.19	5	
2-Butanone (MEK)	ND	ug/Kg	0.72	100	
2-Chloroethyl Vinyl Ether	ND	ug/Kg	0.3	5	
2-Chlorotoluene	ND	ug/Kg	0.25	5	
4-Chlorotoluene	ND	ug/Kg	0.22	5	
4-Isopropyltoluene	ND	ug/Kg	0.27	5	
4-Methyl-2-pentanone (MIBK)	ND	ug/Kg	0.17	5	
Acetone	ND	ug/Kg	10	100	
Allyl Chloride	ND	ug/Kg	0.14	5	
Benzene	ND	ug/Kg	0.18	5	
Bromobenzene	ND	ug/Kg	0.3	5	
Bromochloromethane	ND	ug/Kg	0.18	5	
Bromodichloromethane	ND	ug/Kg	0.2	5	
Bromoform	ND	ug/Kg	0.19	5	
Bromomethane	ND	ug/Kg	0.22	5	
Carbon Tetrachloride	ND	ug/Kg	0.18	5	
Chlorobenzene	ND	ug/Kg	0.18	5	
Chlorodibromomethane	ND	ug/Kg	0.19	5	
Chloroethane	ND	ug/Kg	0.2	5	
Chloroform	ND	ug/Kg	0.17	5	
Chloromethane	ND	ug/Kg	0.21	5	
cis-1,2-Dichloroethene	ND	ug/Kg	0.2	5	
cis-1,3-dichloropropene	ND	ug/Kg	0.2	5	
cis-1,4-dichloro-2-butene	ND	ug/Kg	0.2	5	
Dibromomethane	ND	ug/Kg	0.23	5	
Dichlorodifluoromethane	ND	ug/Kg	0.23	5	
Di-isopropyl ether (DIPE)	ND	ug/Kg	0.21	5	
Ethylbenzene	ND	ug/Kg	0.25	5	
Ethyl-tertbutylether (ETBE)	ND	ug/Kg	0.42	5	

QCBatchID: QC1148547	Analyst: nicollez	Method: EPA 8260B
Matrix: Solid	Analyzed: 08/07/2014	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148547MB1					
Hexachlorobutadiene	ND	ug/Kg	0.38	5	
Isopropylbenzene	ND	ug/Kg	0.17	5	
m and p-Xylene	ND	ug/Kg	0.21	5	
Methylene chloride	ND	ug/Kg	0.22	5	
Methyl-t-butyl Ether (MTBE)	ND	ug/Kg	0.25	5	
Naphthalene	ND	ug/Kg	0.28	5	
N-butylbenzene	ND	ug/Kg	0.16	5	
N-propylbenzene	ND	ug/Kg	0.19	5	
o-Xylene	ND	ug/Kg	0.13	5	
Sec-butylbenzene	ND	ug/Kg	0.34	5	
Styrene	ND	ug/Kg	0.23	5	
t-Butyl alcohol (TBA)	ND	ug/Kg	8.8	10	
Tert-amylmethylether (TAME)	ND	ug/Kg	0.19	5	
Tert-butylbenzene	ND	ug/Kg	0.18	5	
Tetrachloroethene	ND	ug/Kg	0.2	5	
Toluene	ND	ug/Kg	0.23	5	
TPH Gasoline	ND	ug/Kg	17.3	100	
trans-1,2-dichloroethene	ND	ug/Kg	0.23	5	
trans-1,3-dichloropropene	ND	ug/Kg	0.14	5	
trans-1,4-dichloro-2-butene	ND	ug/Kg	0.38	5	
Trichloroethene	ND	ug/Kg	0.39	5	
Trichlorofluoromethane	ND	ug/Kg	0.25	5	
Vinyl Chloride	ND	ug/Kg	0.18	5	
Xylenes (Total)	ND	ug/Kg	0.45	5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148547LCS1, QC1148547LCSD1											
1,1-Dichloroethene	50	50	51	55	ug/Kg	102	110	8	59-172	22	
Benzene	50	50	52	53	ug/Kg	104	106	2	62-137	24	
Chlorobenzene	50	50	54	59	ug/Kg	108	118	9	60-133	24	
Methyl-t-butyl Ether (MTBE)	50	50	50	51	ug/Kg	100	102	2	62-137	21	
Toluene	50	50	49	54	ug/Kg	98	108	10	59-139	21	
Trichloroethene	50	50	52	57	ug/Kg	104	114	9	66-142	21	

QCBatchID: QC1148548	**Analyst:** ttran	**Method:** EPA 8015B	
Matrix: Solid	**Analyzed:** 08/07/2014	**Instrument:** VOA-GC (group)	

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148548MB1					
TPH Gasoline	ND	mg/Kg	0.018	3	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1148548LCS1, QC1148548LCSD1											
TPH Gasoline	5	5	5.21	5.10	mg/Kg	104	102	2	70-130	20	

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1148548MS1, QC1148548MSD1												**Source: 344344-003**
TPH Gasoline	ND	5	5	3.77	3.83	mg/Kg	75	77	1.6	70-130	20	

QCBatchID: QC1148566	Analyst: KimNguyen	Method: EPA 6010B
Matrix: Solid	Analyzed: 08/11/2014	Instrument: AAICP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148566MB1					
Arsenic	ND	mg/L	0.004	0.05	
Barium	ND	mg/L	0.001	0.1	
Cadmium	ND	mg/L	0.001	0.05	
Chromium	ND	mg/L	0.002	0.05	
Lead	ND	mg/L	0.004	0.05	
Selenium	ND	mg/L	0.004	0.05	
Silver	ND	mg/L	0.001	0.05	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148566LCS1											
Arsenic	2		1.936		mg/L	97			80-120		
Barium	2		1.882		mg/L	94			80-120		
Cadmium	2		1.854		mg/L	93			80-120		
Chromium	2		1.882		mg/L	94			80-120		
Lead	2		1.874		mg/L	94			80-120		
Selenium	2		1.881		mg/L	94			80-120		
Silver	1		0.871		mg/L	87			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148566MS1, QC1148566MSD1												**Source: 344473-001**
Arsenic	0.013	1	1	0.889	0.960	mg/L	88	95	7.7	75-125	20	
Barium	0.083	1	1	0.923	0.976	mg/L	84	89	5.6	75-125	20	
Cadmium	ND	1	1	0.735	0.769	mg/L	74	77	4.5	75-125	20	M
Chromium	ND	1	1	0.822	0.855	mg/L	82	86	3.9	75-125	20	
Lead	ND	1	1	0.772	0.833	mg/L	77	83	7.6	75-125	20	
Selenium	ND	1	1	0.661	0.736	mg/L	66	74	10.7	75-125	20	M
Silver	0.005	0.5	0.5	0.420	0.424	mg/L	83	84	0.9	75-125	20	

QCBatchID: QC1148594	Analyst: sdonovan	Method: EPA 8270C
Matrix: Solid	Analyzed: 08/12/2014	Instrument: SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148594MB1					
1,2,4-Trichlorobenzene	ND	ug/Kg	79	250	
1,2-Dichlorobenzene	ND	ug/Kg	64	250	
1,2-Diphenylhydrazine	ND	ug/Kg	17	250	
1,3-Dichlorobenzene	ND	ug/Kg	68	250	
1,4-Dichlorobenzene	ND	ug/Kg	61	250	
2,4,5-Trichlorophenol	ND	ug/Kg	83	250	
2,4,6-Trichlorophenol	ND	ug/Kg	66	250	
2,4-Dichlorophenol	ND	ug/Kg	81	250	
2,4-Dimethylphenol	ND	ug/Kg	217	250	
2,4-Dinitrophenol	ND	ug/Kg	32	250	
2,4-Dinitrotoluene	ND	ug/Kg	66	250	
2,6-Dinitrotoluene	ND	ug/Kg	82	250	
2-Chloronaphthalene	ND	ug/Kg	86	250	
2-Chlorophenol	ND	ug/Kg	65	250	
2-Methyl-4,6-dinitrophenol	ND	ug/Kg	61	250	
2-Methylnaphthalene	ND	ug/Kg	49	250	
2-Methylphenol (o-Cresol)	ND	ug/Kg	80	250	
2-Nitroaniline	ND	ug/Kg	78	250	
2-Nitrophenol	ND	ug/Kg	79	250	
3,3'-Dichlorobenzidine	ND	ug/Kg	68	250	
3-Nitroaniline	ND	ug/Kg	116	250	
4-Bromophenyl phenyl ether	ND	ug/Kg	79	250	
4-Chloro-3-methylphenol	ND	ug/Kg	63	250	
4-Chloroaniline	ND	ug/Kg	68	250	
4-Chlorophenyl phenyl ether	ND	ug/Kg	76	250	
4-Methylphenol (p-Cresol)	ND	ug/Kg	194	400	
4-Nitroaniline	ND	ug/Kg	146	250	
4-Nitrophenol	ND	ug/Kg	98	250	
Acenaphthene	ND	ug/Kg	79	250	
Acenaphthylene	ND	ug/Kg	83	250	
Anthracene	ND	ug/Kg	55	250	
Benz(a)anthracene	ND	ug/Kg	52	250	
Benzidine	ND	ug/Kg	686	1200	
Benzo(a)pyrene	ND	ug/Kg	117	250	
Benzo(b)fluoranthene	ND	ug/Kg	136	250	
Benzo(g,h,i)perylene	ND	ug/Kg	78	250	
Benzo(k)fluoranthene	ND	ug/Kg	110	250	
Benzoic acid	ND	ug/Kg	300	1200	
Benzyl alcohol	ND	ug/Kg	75	250	
Bis(2-chloroethoxy)methane	ND	ug/Kg	80	250	
Bis(2-chloroethyl) Ether	ND	ug/Kg	71	250	
Bis(2-chloroisopropyl) Ether	ND	ug/Kg	69	250	
Bis(2-ethylhexyl) phthalate	ND	ug/Kg	109	250	
Butylbenzyl Phthalate	ND	ug/Kg	82	250	
Chrysene	ND	ug/Kg	48	250	
Dibenz(a,h)anthracene	ND	ug/Kg	78	250	
Dibenzofuran	ND	ug/Kg	77	250	
Diethyl phthalate	ND	ug/Kg	69	250	
Dimethyl phthalate	ND	ug/Kg	70	250	
Di-n-butyl phthalate	ND	ug/Kg	145	250	

QCBatchID: QC1148594	Analyst: sdonovan	Method: EPA 8270C
Matrix: Solid	Analyzed: 08/12/2014	Instrument: SVOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1148594MB1					
Di-n-octyl phthalate	ND	ug/Kg	101	250	
Fluoranthene	ND	ug/Kg	54	250	
Fluorene	ND	ug/Kg	70	250	
Hexachlorobenzene	ND	ug/Kg	73	250	
Hexachlorobutadiene	ND	ug/Kg	62	250	
Hexachlorocyclopentadiene	ND	ug/Kg	75	250	
Hexachloroethane	ND	ug/Kg	67	250	
Indeno(1,2,3-cd)pyrene	ND	ug/Kg	112	250	
Isophorone	ND	ug/Kg	90	250	
Naphthalene	ND	ug/Kg	58	250	
Nitrobenzene	ND	ug/Kg	115	250	
N-Nitrosodimethylamine (NDMA)	ND	ug/Kg	22	250	
N-Nitrosodi-n-propylamine (NDPA)	ND	ug/Kg	86	250	
N-Nitrosodiphenylamine	ND	ug/Kg	86	250	
Pentachlorophenol	ND	ug/Kg	47	250	
Phenanthrene	ND	ug/Kg	49	250	
Phenol	ND	ug/Kg	65	250	
Pyrene	ND	ug/Kg	80	250	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148594LCS1											
1,2,4-Trichlorobenzene	2500		2000		ug/Kg	80			45-122		
1,4-Dichlorobenzene	2500		1900		ug/Kg	76			32-121		
2,4,5-Trichlorophenol	2500		2000		ug/Kg	80			42-132		
2,4-Dimethylphenol	2500		2300		ug/Kg	92			17-108		
2,4-Dinitrotoluene	2500		2400		ug/Kg	96			33-151		
2-Chlorophenol	2500		2100		ug/Kg	84			57-116		
4-Chloro-3-methylphenol	2500		2400		ug/Kg	96			30-141		
4-Methylphenol (p-Cresol)	2500		2400		ug/Kg	96			30-143		
4-Nitrophenol	2500		2800		ug/Kg	112			21-138		
Acenaphthene	2500		2200		ug/Kg	88			68-134		
Benzo(b)fluoranthene	2500		2500		ug/Kg	100			65-162		
Chrysene	2500		2100		ug/Kg	84			70-150		
N-Nitrosodi-n-propylamine (NDPA)	2500		2800		ug/Kg	112			19-163		
Pentachlorophenol	2500		1400		ug/Kg	56			25-113		
Phenol	2500		2000		ug/Kg	80			27-124		
Pyrene	2500		2300		ug/Kg	92			55-139		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148594MS1, QC1148594MSD1												**Source: 344473-001**
1,2,4-Trichlorobenzene	ND	2500	2500	1700	1800	ug/Kg	68	72	5.7	45-122	35	
1,4-Dichlorobenzene	ND	2500	2500	1600	1600	ug/Kg	64	64	0.0	32-121	35	
2,4,5-Trichlorophenol	ND	2500	2500	1800	1900	ug/Kg	72	76	5.4	42-132	35	
2,4-Dimethylphenol	ND	2500	2500	1900	1900	ug/Kg	76	76	0.0	17-108	35	
2,4-Dinitrotoluene	ND	2500	2500	2100	2100	ug/Kg	84	84	0.0	33-151	35	
2-Chlorophenol	ND	2500	2500	680	720	ug/Kg	27	29	5.7	57-116	35	M
4-Chloro-3-methylphenol	ND	2500	2500	2500	2400	ug/Kg	100	96	4.1	30-141	35	

QCBatchID: QC1148594	Analyst: sdonovan	Method: EPA 8270C
Matrix: Solid	Analyzed: 08/12/2014	Instrument: SVOA-MS (group)

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1148594MS1, QC1148594MSD1												**Source: 344473-001**
4-Methylphenol (p-Cresol)	ND	2500	2500	2600	2500	ug/Kg	104	100	3.9	30-143	35	
4-Nitrophenol	ND	2500	2500	3500	3000	ug/Kg	140	120	15.4	21-138	35	M
Acenaphthene	ND	2500	2500	1800	1900	ug/Kg	72	76	5.4	68-134	35	
Benzo(b)fluoranthene	ND	2500	2500	2700	2600	ug/Kg	108	104	3.8	65-162	35	
Chrysene	ND	2500	2500	2100	2100	ug/Kg	84	84	0.0	70-150	35	
N-Nitrosodi-n-propylamine (NDPA)	ND	2500	2500	3200	3000	ug/Kg	128	120	6.5	19-163	35	
Pentachlorophenol	ND	2500	2500	2200	2200	ug/Kg	88	88	0.0	25-113	35	
Phenol	ND	2500	2500	880	1400	ug/Kg	35	56	45.6	27-124	35	M
Pyrene	ND	2500	2500	2600	2600	ug/Kg	104	104	0.0	55-139	35	

Data Qualifiers and Definitions

Qualifiers

B	Analyte was present in an associated method blank. Associated sample data was reported with qualifier.
B1	Analyte was present in an associated method blank greater than MDL but less than DRL. Associated sample data was reported with qualifier.
BQ1	No valid test replicates. Result may be greater. Best result was reported with qualifier. Sample toxicity possible.
BQ2	No valid test replicates.
BQ3	Minimum DO is less than 1.0 mg/L. Result may be greater and reported with qualifier.
C	Laboratory Contamination.
D	The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.
DW	Sample result is calculated on a dry weigh basis
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
Q1	Analyte Calibration Verification exceeds criteria and the result was reported with qualifier.
Q2	Analyte calibration was not verified and the result was estimated and reported with qualifier.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated and reported with qualifier.
Q4	Analyte result out of calibration range and was reported with qualifier
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
T	Sample was extracted/analyzed past the holding time.
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
TIC	Tentatively Identified Compounds

Definitions

DF	Dilution Factor
MDL	Method Detection Limit
ND	Analyte was not detected or was less than the detection limit.
RDL	Reporting Detection Limit

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: R&R Environmental. Project: Compliance / Haz-waste
Date Received: 8/7/14 Sampler's Name: (Yes) No
Sample temperature: 3°C
Sample(s) received in cooler: (Yes) No (Skip Section 2)
Shipping Information: _____

Section 2
Was the cooler packed with: ✓ Ice ____ Ice Packs ___ Bubble Wrap ___ Styrofoam
____ Paper ____None ___ Other_____
Cooler Temperature: 0°C

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Is it properly completed? (IDs, sampling date and time, signature, test)	✓		
Were custody seals present? *	✓		✗ c.o.
If Yes – were they intact? *	✓		✗ c.o.
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		
Was there headspace in VOA vials?			✓
Were the containers labeled with correct preservatives?			✓
Was total residual chlorine measured (Fish Bioassay samples only)? *			✓

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments * Custody seal on cooler and wrapping for Trip Blank.

Section 5
Was Project Manager notified of discrepancies: Y / N N/A
Project Manager's response: _____

Completed By: Chris Ota Date: 8/7/14

R & R Environmental

344473

Page: 1 of 1

Project No:

COC Number(1): 08062014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.:	Holloman AFB
Project/Site Name:	Compliance / Haz-waste
Client Name:	USACE
Collected by:	T Lucero K Fuller B Parrish

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)		SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	TCLP RCRA 8 metals	TCLP UTS Metals (Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Se, Ni, Ag, Tl) 1311/1310/6010B / 7470A	Total and Amenable CN 9013/9012A	PCBS 8082	Corrosivity towards steel 1110A	PH 9040	VOC's 8260B	SVOC's 8270C	TPH 8015 GRO	TPH 8015 ORO/DRO	Ignitability	Total Silver 6010B	Sample Matrix	SAP		Cooler ID
									Sample Analysis Requested (5)													Quality Assurance Samples (6)			
GT148037	GT148037	06082014	1330	0	1	N	1	S	9	[1]						[1]	[1]	[1]	[1]			Soil from Building 823	10A		1
Trip Blank	Field QC	06082014				TB	1	AQ	1							[1]									1

COMMENTS:

Email results to : tlucero@nationview.net , rrenvironmental@zianet.com

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Tony Green	08062014	1600	1. Chris K	8/7/14	1040
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	FED EX	Airbill Number:	770776827567
Analytical Lab:	Associated	Delivery Location:	Orange CA
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks, S= Solid, LQ= Liquid

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

Facility 883

	SCALE: 0 15 30 60 Feet	DATE: 12/18/14	DRAWN BY: TDL DRAWING NO: Figure 1	Note: Projection - New Mexico State Plane, Central Zone, North American Horizontal Datum 1983 (feet).

Southeast ACCUTEST LABORATORIES

12/22/14

Technical Report for

R & R Environmental

Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Accutest Job Number: FA20437

Sampling Date: 12/04/14

Report to:

R & R Environmental
1511 10th St
Alamogordo, NM 88310
rrenvironmental@zianet.com; tlucero@nationview.net

ATTN: David Rizzuto

Total number of pages in report: **59**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

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

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
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Accutest Laboratories

Sample Summary

R & R Environmental

Job No: FA20437

Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA20437-1	12/04/14	00:00	TLKF	12/05/14	SO	Soil	GT158009
FA20437-1L	12/04/14	00:00	TLKF	12/12/14	SO	Soil	GT158009
FA20437-2	12/04/14	00:00	TLKF	12/05/14	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: FA20437
Account: R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM
Collected: 12/04/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA20437-1	**GT158009**					
Acetone		15.0 J	42	13	ug/kg	SW846 8260B
TPH (C10-C22)		44.7 J	49	29	mg/kg	SW846 8015C
TPH (> C22-C36)		116	49	29	mg/kg	SW846 8015C
FA20437-1L	**GT158009**					
Barium		0.20 J	2.0	0.050	mg/l	SW846 6010C
FA20437-2	**TRIP BLANK**					

No hits reported in this sample.

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260B	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0096394.D	1	12/05/14	EP	n/a	n/a	VG3535
Run #2							

	Initial Weight
Run #1	6.97 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15.0	42	13	ug/kg	J
107-02-8	Acrolein	9.1 U	21	9.1	ug/kg	
107-13-1	Acrylonitrile	6.5 U	21	6.5	ug/kg	
71-43-2	Benzene	0.84 U	4.2	0.84	ug/kg	
75-27-4	Bromodichloromethane	0.84 U	4.2	0.84	ug/kg	
75-25-2	Bromoform	0.91 U	4.2	0.91	ug/kg	
108-90-7	Chlorobenzene	0.84 U	4.2	0.84	ug/kg	
75-00-3	Chloroethane	1.9 U	4.2	1.9	ug/kg	
67-66-3	Chloroform	0.95 U	4.2	0.95	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	8.4 U	21	8.4	ug/kg	
75-15-0	Carbon disulfide [a]	0.84 U	4.2	0.84	ug/kg	
56-23-5	Carbon tetrachloride	1.2 U	4.2	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	0.84 U	4.2	0.84	ug/kg	
75-35-4	1,1-Dichloroethylene	0.84 U	4.2	0.84	ug/kg	
107-06-2	1,2-Dichloroethane	0.84 U	4.2	0.84	ug/kg	
78-87-5	1,2-Dichloropropane	0.84 U	4.2	0.84	ug/kg	
124-48-1	Dibromochloromethane	0.84 U	4.2	0.84	ug/kg	
75-71-8	Dichlorodifluoromethane	1.1 U	4.2	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	0.84 U	4.2	0.84	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	0.84 U	4.2	0.84	ug/kg	
541-73-1	m-Dichlorobenzene	0.84 U	4.2	0.84	ug/kg	
95-50-1	o-Dichlorobenzene	0.84 U	4.2	0.84	ug/kg	
106-46-7	p-Dichlorobenzene	0.94 U	4.2	0.94	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.1 U	4.2	1.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	0.84 U	4.2	0.84	ug/kg	
100-41-4	Ethylbenzene	0.84 U	4.2	0.84	ug/kg	
591-78-6	2-Hexanone	4.1 U	21	4.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	4.2 U	21	4.2	ug/kg	
74-83-9	Methyl bromide	1.6 U	4.2	1.6	ug/kg	
74-87-3	Methyl chloride	1.7 U	4.2	1.7	ug/kg	
75-09-2	Methylene chloride	3.4 U	8.4	3.4	ug/kg	
78-93-3	Methyl ethyl ketone	6.3 U	21	6.3	ug/kg	

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

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8260B	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-42-5	Styrene [a]	0.84 U	4.2	0.84	ug/kg	
71-55-6	1,1,1-Trichloroethane	0.84 U	4.2	0.84	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.2 U	4.2	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.4 U	4.2	1.4	ug/kg	
127-18-4	Tetrachloroethylene	1.1 U	4.2	1.1	ug/kg	
108-88-3	Toluene	0.84 U	4.2	0.84	ug/kg	
79-01-6	Trichloroethylene	0.86 U	4.2	0.86	ug/kg	
75-69-4	Trichlorofluoromethane	0.84 U	4.2	0.84	ug/kg	
75-01-4	Vinyl chloride	0.86 U	4.2	0.86	ug/kg	
1330-20-7	Xylene (total)	2.2 U	13	2.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		75-124%
2037-26-5	Toluene-D8	93%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%
17060-07-0	1,2-Dichloroethane-D4	105%		72-135%

(a) Associated BS recovery outside control limits.

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

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	L0680779.D	4	12/10/14	MV	12/09/14	OP54171	SL3578
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	77 U	770	77	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	77 U	770	77	ug/kg	
120-83-2	2,4-Dichlorophenol	79 U	770	79	ug/kg	
105-67-9	2,4-Dimethylphenol	85 U	770	85	ug/kg	
51-28-5	2,4-Dinitrophenol	770 U	3800	770	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	310 U	1500	310	ug/kg	
95-48-7	2-Methylphenol	77 U	770	77	ug/kg	
	3&4-Methylphenol	150 U	770	150	ug/kg	
88-75-5	2-Nitrophenol	77 U	770	77	ug/kg	
100-02-7	4-Nitrophenol	610 U	3800	610	ug/kg	
87-86-5	Pentachlorophenol [b]	610 U	3800	610	ug/kg	
108-95-2	Phenol	77 U	770	77	ug/kg	
95-95-4	2,4,5-Trichlorophenol	99 U	770	99	ug/kg	
88-06-2	2,4,6-Trichlorophenol	77 U	770	77	ug/kg	
83-32-9	Acenaphthene	97 U	770	97	ug/kg	
208-96-8	Acenaphthylene	77 U	770	77	ug/kg	
120-12-7	Anthracene	77 U	770	77	ug/kg	
92-87-5	Benzidine	1500 U	7700	1500	ug/kg	
56-55-3	Benzo(a)anthracene	77 U	770	77	ug/kg	
50-32-8	Benzo(a)pyrene	77 U	770	77	ug/kg	
205-99-2	Benzo(b)fluoranthene	77 U	770	77	ug/kg	
191-24-2	Benzo(g,h,i)perylene	77 U	770	77	ug/kg	
207-08-9	Benzo(k)fluoranthene	84 U	770	84	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	77 U	770	77	ug/kg	
85-68-7	Butyl benzyl phthalate	150 U	770	150	ug/kg	
91-58-7	2-Chloronaphthalene	91 U	770	91	ug/kg	
106-47-8	4-Chloroaniline	77 U	770	77	ug/kg	
86-74-8	Carbazole	77 U	770	77	ug/kg	
218-01-9	Chrysene	77 U	770	77	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	77 U	770	77	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	77 U	770	77	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	80 U	770	80	ug/kg	

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E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl phenyl ether	110 U	770	110	ug/kg	
95-50-1	1,2-Dichlorobenzene	77 U	770	77	ug/kg	
122-66-7	1,2-Diphenylhydrazine	87 U	770	87	ug/kg	
541-73-1	1,3-Dichlorobenzene	77 U	770	77	ug/kg	
106-46-7	1,4-Dichlorobenzene	77 U	770	77	ug/kg	
121-14-2	2,4-Dinitrotoluene	87 U	770	87	ug/kg	
606-20-2	2,6-Dinitrotoluene	84 U	770	84	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	77 U	770	77	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	77 U	770	77	ug/kg	
132-64-9	Dibenzofuran	77 U	770	77	ug/kg	
84-74-2	Di-n-butyl phthalate	150 U	1500	150	ug/kg	
117-84-0	Di-n-octyl phthalate	150 U	770	150	ug/kg	
84-66-2	Diethyl phthalate	150 U	1500	150	ug/kg	
131-11-3	Dimethyl phthalate	150 U	770	150	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	150 U	1500	150	ug/kg	
206-44-0	Fluoranthene	77 U	770	77	ug/kg	
86-73-7	Fluorene	77 U	770	77	ug/kg	
118-74-1	Hexachlorobenzene	77 U	770	77	ug/kg	
87-68-3	Hexachlorobutadiene	77 U	770	77	ug/kg	
77-47-4	Hexachlorocyclopentadiene	77 U	770	77	ug/kg	
67-72-1	Hexachloroethane	77 U	770	77	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	77 U	770	77	ug/kg	
78-59-1	Isophorone	77 U	770	77	ug/kg	
91-57-6	2-Methylnaphthalene	77 U	770	77	ug/kg	
88-74-4	2-Nitroaniline	150 U	770	150	ug/kg	
99-09-2	3-Nitroaniline	150 U	770	150	ug/kg	
100-01-6	4-Nitroaniline	150 U	770	150	ug/kg	
91-20-3	Naphthalene	77 U	770	77	ug/kg	
98-95-3	Nitrobenzene	77 U	770	77	ug/kg	
62-75-9	N-Nitrosodimethylamine	89 U	770	89	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	77 U	770	77	ug/kg	
86-30-6	N-Nitrosodiphenylamine	77 U	770	77	ug/kg	
85-01-8	Phenanthrene	77 U	770	77	ug/kg	
129-00-0	Pyrene	77 U	770	77	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	77 U	770	77	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	69%		40-102%
4165-62-2	Phenol-d5	88%		41-100%

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Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

ABN Special List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	93%		42-108%
4165-60-0	Nitrobenzene-d5	79%		40-105%
321-60-8	2-Fluorobiphenyl	89%		43-107%
1718-51-0	Terphenyl-d14	82%		45-119%

(a) Dilution required due to matrix interference (internal standard failure).
(b) Associated BS recovery outside control limits.

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RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8015C	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD131104.D	1	12/09/14	JG	n/a	n/a	GCD5374
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.66 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	2.6 U	5.3	2.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		56-149%
98-08-8	aaa-Trifluorotoluene	85%		66-132%

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

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/05/14
Method:	SW846 8015C SW846 3550C	**Percent Solids:**	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ006260.D	10	12/11/14	SJL	12/09/14	OP54178	GJJ261
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	44.7	49	29	mg/kg	J
	TPH (> C22-C36)	116	49	29	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		56-122%

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

Report of Analysis

Client Sample ID:	GT158009		
Lab Sample ID:	FA20437-1L	**Date Sampled:**	12/04/14
Matrix:	SO - Soil	**Date Received:**	12/12/14
		Percent Solids:	85.4
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	MDL	Units	DF	Prep	Analyzed	By	Method
Arsenic	0.024 U	D004	5.0	0.10	0.024	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]
Barium	0.20 J	D005	100	2.0	0.050	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]
Cadmium	0.0050 U	D006	1.0	0.050	0.0050	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]
Chromium	0.020 U	D007	5.0	0.10	0.020	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]
Lead	0.011 U	D008	5.0	0.050	0.011	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]
Mercury	0.00050 U	D009	0.20	0.0050	0.00050	mg/l	1	12/19/14	12/19/14	JL	SW846 7470A [2]
Selenium	0.023 U	D010	1.0	0.10	0.023	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]
Silver	0.0077 U	D011	5.0	0.10	0.0077	mg/l	1	12/18/14	12/18/14	LM	SW846 6010C [1]

(1) Instrument QC Batch: MA12108
(2) Instrument QC Batch: MA12112
(3) Prep QC Batch: MP28359
(4) Prep QC Batch: MP28368

RL = Reporting Limit MDL = Method Detection Limit U = Indicates a result < MDL
MCL = Maximum Contamination Level (40 CFR 261 6/96) J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA20437-2	**Date Sampled:**	12/04/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	12/05/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0096400.D	1	12/05/14	EP	n/a	n/a	VG3535
Run #2							

	Initial Weight
Run #1	5.00 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15 U	50	15	ug/kg	
107-02-8	Acrolein	11 U	25	11	ug/kg	
107-13-1	Acrylonitrile	7.8 U	25	7.8	ug/kg	
71-43-2	Benzene	1.0 U	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/kg	
75-25-2	Bromoform	1.1 U	5.0	1.1	ug/kg	
108-90-7	Chlorobenzene	1.0 U	5.0	1.0	ug/kg	
75-00-3	Chloroethane	2.3 U	5.0	2.3	ug/kg	
67-66-3	Chloroform	1.1 U	5.0	1.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	10 U	25	10	ug/kg	
75-15-0	Carbon disulfide [a]	1.0 U	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	1.4 U	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	1.0 U	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	1.0 U	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	1.0 U	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	1.0 U	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	1.3 U	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.0 U	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	1.0 U	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	1.0 U	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	1.1 U	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.3 U	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	1.0 U	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	4.9 U	25	4.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	5.0 U	25	5.0	ug/kg	
74-83-9	Methyl bromide	1.9 U	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	2.0 U	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	4.0 U	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	7.5 U	25	7.5	ug/kg	

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA20437-2	**Date Sampled:**	12/04/14
Matrix:	SO - Trip Blank Soil	**Date Received:**	12/05/14
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
100-42-5	Styrene [a]	1.0 U	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	1.0 U	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	1.4 U	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	1.6 U	5.0	1.6	ug/kg	
127-18-4	Tetrachloroethylene	1.3 U	5.0	1.3	ug/kg	
108-88-3	Toluene	1.0 U	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	1.0 U	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	1.0 U	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	1.0 U	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	2.7 U	15	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		75-124%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	109%		71-133%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%

(a) Associated BS recovery outside control limits.

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

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

R & R Environmental

FA 20437

Page: 1 of 1

Project No:

COC Number(1): 12042014

LIMS Number:

Chain of Custody and Analytical Request

Facility/Base I.D.:	Holloman AFB
Project/Site Name:	Compliance / Haz-waste
Client Name:	USACE
Collected by:	T Lucero / K Fuller

Field Sample ID (30 Characters Max)	ERPIMS LOCID (15 Characters Max)	Date Collected (dd-mm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)		SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	TCLP RCRA 8 metals	TCLP UTS Metals (Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Se, Ni, Ag, Tl) 131/1/1310/6010B / 7470A	Total and Amenable CN 9013/9012A	PCBS 8082	Corrosivity towards steel 1110A	PH 9040	VOC's 8260B	SVOC's 8270C	TPH GRO 8015	TPH DRO, ORO 8015	Ignitability 1030	Total Silver 6010B	Sample Matrix	SAP		Cooler ID
									Sample Analysis Requested (5)													Quality Assurance Samples (6)			
GT158009	GT158009	04122014		0	0	N	1	SO	4	[1]						[1]	[1]	[1]	[1]			Soil from Bldg 883	10A	1	1
Trip Blank	Field QC	04122014		0	0	TB	1	AQ	1							[1]							2	2	1
																							2		

COMMENTS:

Email results to : tlucero@nationview.net , rrenvironmental@zianet.com

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. T Lucero	12042014	1100	1. FX		10:00
2. FX			2. J. Cornel (AKR)	12-5-14	
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab:		Shipped No.:	
Method of Shipment:	FED EX	Airbill Number:	772090558830
Analytical Lab:	Accutest	Delivery Location:	Orlando FL
Lab Recipient:		Delivery Date/Time:	

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks, S= Solid, LQ= Liquid

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

3.4

FA20437: Chain of Custody

Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA 20437 CLIENT: R&R ENV PROJECT: COMPLIANCE

DATE/TIME RECEIVED: 12-5-14 10:00 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7720 9055 8830

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.4
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.4

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [ ] RECEIVED WATER TRIP BLANK
- [X] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ? 1 FB

NUMBER OF LAB FILTERED METALS ?

pH PAPER LOT#s WIDE RANGE A036122 NARROW RANGE HC421754 OTHER (specify) 405-230010

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 12-5-14 REVIEWER SIGNATURE/DATE 12-5-14

NF 10/14 receipt confirmation 102914.xls

4.1

4

FA20437: Chain of Custody

Page 2 of 3

FROM: (575) 430-3974
Lee Rowland

2331 Union Ave

Alamogordo, NM 88310

Origin ID: ELPA

FedEx Express

J14221402233uv

Ship Date: 04DEC14
ActWgt: 35.0 LB
CAD: 106122374/INET3550

Delivery Address Bar Code

Ref # Haz Waste
Invoice # Haz Waste
PO # Haz Waste
Dept # Haz Waste

SHIP TO: (407) 425-6700
BILL RECIPIENT

Jean Smith
Accutest
4405 Vineland Road

ORLANDO, FL 32811

FRI - 05 DEC 10:30A
PRIORITY OVERNIGHT

TRK# 7720 9055 8830
0201

XH TIXA

32811
FL-US
MCO

5202DC75A39

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

FA20437: Chain of Custody

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Southeast ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3535-MB	G0096392.D	1	12/05/14	EP	n/a	n/a	VG3535

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20437-1, FA20437-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/kg	
107-02-8	Acrolein	ND	25	11	ug/kg	
107-13-1	Acrylonitrile	ND	25	7.8	ug/kg	
71-43-2	Benzene	ND	5.0	1.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.3	ug/kg	
67-66-3	Chloroform	ND	5.0	1.1	ug/kg	
110-75-8	2-Chloroethyl vinyl ether	ND	25	10	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	1.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.0	ug/kg	
591-78-6	2-Hexanone	ND	25	4.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	5.0	ug/kg	
74-83-9	Methyl bromide	ND	5.0	1.9	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	4.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	7.5	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/kg	

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3535-MB	G0096392.D	1	12/05/14	EP	n/a	n/a	VG3535

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20437-1, FA20437-2

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
108-88-3	Toluene	ND	5.0	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	15	2.7	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	75-124%
2037-26-5	Toluene-D8	93%	75-126%
460-00-4	4-Bromofluorobenzene	98%	71-133%
17060-07-0	1,2-Dichloroethane-D4	103%	72-135%

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3535-BS	G0096391.D	1	12/05/14	EP	n/a	n/a	VG3535

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20437-1, FA20437-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	267	107	61-152
107-02-8	Acrolein	250	260	104	48-178
107-13-1	Acrylonitrile	250	291	116	66-134
71-43-2	Benzene	50	58.9	118	76-126
75-27-4	Bromodichloromethane	50	60.6	121	74-130
75-25-2	Bromoform	50	61.8	124	76-127
108-90-7	Chlorobenzene	50	61.3	123	81-129
75-00-3	Chloroethane	50	56.4	113	68-133
67-66-3	Chloroform	50	56.4	113	72-123
110-75-8	2-Chloroethyl vinyl ether	250	280	112	45-159
75-15-0	Carbon disulfide	50	71.1	142*	72-122
56-23-5	Carbon tetrachloride	50	57.9	116	78-133
75-34-3	1,1-Dichloroethane	50	58.9	118	73-125
75-35-4	1,1-Dichloroethylene	50	61.1	122	81-136
107-06-2	1,2-Dichloroethane	50	57.9	116	74-128
78-87-5	1,2-Dichloropropane	50	58.5	117	74-125
124-48-1	Dibromochloromethane	50	57.5	115	76-127
75-71-8	Dichlorodifluoromethane	50	61.2	122	68-168
156-59-2	cis-1,2-Dichloroethylene	50	58.9	118	74-126
10061-01-5	cis-1,3-Dichloropropene	50	59.3	119	80-123
541-73-1	m-Dichlorobenzene	50	61.9	124	81-129
95-50-1	o-Dichlorobenzene	50	60.9	122	80-129
106-46-7	p-Dichlorobenzene	50	56.4	113	76-130
156-60-5	trans-1,2-Dichloroethylene	50	58.1	116	70-127
10061-02-6	trans-1,3-Dichloropropene	50	61.0	122	75-131
100-41-4	Ethylbenzene	50	57.7	115	77-123
591-78-6	2-Hexanone	250	271	108	72-133
108-10-1	4-Methyl-2-pentanone	250	271	108	76-132
74-83-9	Methyl bromide	50	61.4	123	65-139
74-87-3	Methyl chloride	50	59.5	119	71-144
75-09-2	Methylene chloride	50	60.4	121	74-137
78-93-3	Methyl ethyl ketone	250	277	111	75-137
100-42-5	Styrene	50	63.5	127*	78-125
71-55-6	1,1,1-Trichloroethane	50	55.8	112	70-129
79-34-5	1,1,2,2-Tetrachloroethane	50	58.6	117	71-126
79-00-5	1,1,2-Trichloroethane	50	57.8	116	74-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VG3535-BS	G0096391.D	1	12/05/14	EP	n/a	n/a	VG3535

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20437-1, FA20437-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
127-18-4	Tetrachloroethylene	50	54.9	110	79-130
108-88-3	Toluene	50	54.4	109	76-124
79-01-6	Trichloroethylene	50	58.6	117	75-128
75-69-4	Trichlorofluoromethane	50	56.9	114	73-145
75-01-4	Vinyl chloride	50	60.4	121	76-141
1330-20-7	Xylene (total)	150	189	126	80-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	75-124%
2037-26-5	Toluene-D8	99%	75-126%
460-00-4	4-Bromofluorobenzene	102%	71-133%
17060-07-0	1,2-Dichloroethane-D4	98%	72-135%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20440-1MS	G0096405.D	1	12/05/14	EP	n/a	n/a	VG3535
FA20440-1MSD	G0096406.D	1	12/05/14	EP	n/a	n/a	VG3535
FA20440-1	G0096397.D	1	12/05/14	EP	n/a	n/a	VG3535

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20437-1, FA20437-2

CAS No.	Compound	FA20440-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	41.0	I	426	401	85	432	413	86	3	61-152/27
107-02-8	Acrolein	38 U		426	ND	0*	432	ND	0*	nc	48-178/37
107-13-1	Acrylonitrile	38 U		426	423	99	432	453	105	7	66-134/26
71-43-2	Benzene	7.6 U		85.2	85.5	100	86.4	94.6	109	10	76-126/26
75-27-4	Bromodichloromethane	7.6 U		85.2	75.7	89	86.4	81.1	94	7	74-130/25
75-25-2	Bromoform	7.6 U		85.2	64.5	76	86.4	74.3	86	14	76-127/26
108-90-7	Chlorobenzene	7.6 U		85.2	83.0	97	86.4	89.4	103	7	81-129/29
75-00-3	Chloroethane	7.6 U		85.2	90.9	107	86.4	93.1	108	2	68-133/29
67-66-3	Chloroform	7.6 U		85.2	86.3	101	86.4	96.5	112	11	72-123/26
110-75-8	2-Chloroethyl vinyl ether	38 U		426	333	78	432	375	87	12	45-159/26
75-15-0	Carbon disulfide	7.6 U		85.2	71.4	84	86.4	74.8	87	5	72-122/29
56-23-5	Carbon tetrachloride	7.6 U		85.2	65.7	77*	86.4	70.9	82	8	78-133/29
75-34-3	1,1-Dichloroethane	7.6 U		85.2	87.3	102	86.4	94.5	109	8	73-125/27
75-35-4	1,1-Dichloroethylene	7.6 U		85.2	91.8	108	86.4	97.7	113	6	81-136/28
107-06-2	1,2-Dichloroethane	7.6 U		85.2	87.5	103	86.4	97.9	113	11	74-128/23
78-87-5	1,2-Dichloropropane	7.6 U		85.2	82.6	97	86.4	94.0	109	13	74-125/25
124-48-1	Dibromochloromethane	7.6 U		85.2	69.6	82	86.4	75.8	88	9	76-127/27
75-71-8	Dichlorodifluoromethane	7.6 U		85.2	87.0	102	86.4	90.7	105	4	68-168/29
156-59-2	cis-1,2-Dichloroethylene	7.6 U		85.2	85.1	100	86.4	95.1	110	11	74-126/26
10061-01-5	cis-1,3-Dichloropropene	7.6 U		85.2	71.0	83	86.4	80.4	93	12	80-123/26
541-73-1	m-Dichlorobenzene	7.6 U		85.2	72.9	86	86.4	86.7	100	17	81-129/33
95-50-1	o-Dichlorobenzene	7.6 U		85.2	68.8	81	86.4	81.0	94	16	80-129/32
106-46-7	p-Dichlorobenzene	7.6 U		85.2	71.5	84	86.4	82.3	95	14	76-130/32
156-60-5	trans-1,2-Dichloroethylene	7.6 U		85.2	82.7	97	86.4	91.7	106	10	70-127/27
10061-02-6	trans-1,3-Dichloropropene	7.6 U		85.2	79.8	94	86.4	88.8	103	11	75-131/28
100-41-4	Ethylbenzene	7.6 U		85.2	74.4	87	86.4	83.6	97	12	77-123/31
591-78-6	2-Hexanone	38 U		426	401	94	432	419	97	4	72-133/26
108-10-1	4-Methyl-2-pentanone	38 U		426	440	103	432	483	112	9	76-132/26
74-83-9	Methyl bromide	7.6 U		85.2	82.3	97	86.4	94.1	109	13	65-139/31
74-87-3	Methyl chloride	7.6 U		85.2	86.0	101	86.4	92.9	107	8	71-144/27
75-09-2	Methylene chloride	15 U		85.2	96.2	113	86.4	105	121	9	74-137/28
78-93-3	Methyl ethyl ketone	38 U		426	405	95	432	442	102	9	75-137/25
100-42-5	Styrene	7.6 U		85.2	71.6	84	86.4	78.3	91	9	78-125/30
71-55-6	1,1,1-Trichloroethane	7.6 U		85.2	82.8	97	86.4	91.3	106	10	70-129/27
79-34-5	1,1,2,2-Tetrachloroethane	7.6 U		85.2	99.7	117	86.4	113	131*	13	71-126/30
79-00-5	1,1,2-Trichloroethane	7.6 U		85.2	80.9	95	86.4	90.0	104	11	74-124/28

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20440-1MS	G0096405.D	1	12/05/14	EP	n/a	n/a	VG3535
FA20440-1MSD	G0096406.D	1	12/05/14	EP	n/a	n/a	VG3535
FA20440-1	G0096397.D	1	12/05/14	EP	n/a	n/a	VG3535

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA20437-1, FA20437-2

CAS No.	Compound	FA20440-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	7.6	U	85.2	68.7	81	86.4	75.3	87	9	79-130/31
108-88-3	Toluene	7.6	U	85.2	82.2	97	86.4	90.9	105	10	76-124/30
79-01-6	Trichloroethylene	7.6	U	85.2	79.8	94	86.4	91.3	106	13	75-128/27
75-69-4	Trichlorofluoromethane	7.6	U	85.2	81.6	96	86.4	88.1	102	8	73-145/31
75-01-4	Vinyl chloride	7.6	U	85.2	87.0	102	86.4	95.8	111	10	76-141/27
1330-20-7	Xylene (total)	23	U	256	244	95	259	268	103	9	80-129/30

CAS No.	Surrogate Recoveries	MS	MSD	FA20440-1	Limits
1868-53-7	Dibromofluoromethane	103%	103%	100%	75-124%
2037-26-5	Toluene-D8	102%	101%	93%	75-126%
460-00-4	4-Bromofluorobenzene	125%	124%	103%	71-133%
17060-07-0	1,2-Dichloroethane-D4	99%	101%	108%	72-135%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-MB	L0680767.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	17	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	17	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	18	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	170	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	17	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	17	ug/kg	
100-02-7	4-Nitrophenol	ND	830	130	ug/kg	
87-86-5	Pentachlorophenol	ND	830	130	ug/kg	
108-95-2	Phenol	ND	170	17	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	21	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	17	ug/kg	
83-32-9	Acenaphthene	ND	170	21	ug/kg	
208-96-8	Acenaphthylene	ND	170	17	ug/kg	
120-12-7	Anthracene	ND	170	17	ug/kg	
92-87-5	Benzidine	ND	1700	330	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	17	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	17	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	20	ug/kg	
106-47-8	4-Chloroaniline	ND	170	17	ug/kg	
86-74-8	Carbazole	ND	170	17	ug/kg	
218-01-9	Chrysene	ND	170	17	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	17	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	17	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	17	ug/kg	

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-MB	L0680767.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Compound	Result	RL	MDL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	170	17	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	17	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	17	ug/kg	
132-64-9	Dibenzofuran	ND	170	17	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	33	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	170	33	ug/kg	
84-66-2	Diethyl phthalate	ND	330	33	ug/kg	
131-11-3	Dimethyl phthalate	ND	170	33	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	33	ug/kg	
206-44-0	Fluoranthene	ND	170	17	ug/kg	
86-73-7	Fluorene	ND	170	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	17	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	17	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	17	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	17	ug/kg	
78-59-1	Isophorone	ND	170	17	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	17	ug/kg	
88-74-4	2-Nitroaniline	ND	170	33	ug/kg	
99-09-2	3-Nitroaniline	ND	170	33	ug/kg	
100-01-6	4-Nitroaniline	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	17	ug/kg	
98-95-3	Nitrobenzene	ND	170	17	ug/kg	
62-75-9	N-Nitrosodimethylamine	ND	170	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	17	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	17	ug/kg	
85-01-8	Phenanthrene	ND	170	17	ug/kg	
129-00-0	Pyrene	ND	170	17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	69%	40-102%

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-MB	L0680767.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	83%	41-100%
118-79-6	2,4,6-Tribromophenol	95%	42-108%
4165-60-0	Nitrobenzene-d5	81%	40-105%
321-60-8	2-Fluorobiphenyl	83%	43-107%
1718-51-0	Terphenyl-d14	81%	45-119%

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-BS	L0680766.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1330	80	48-104
59-50-7	4-Chloro-3-methyl phenol	1670	1320	79	52-108
120-83-2	2,4-Dichlorophenol	1670	1210	73	51-105
105-67-9	2,4-Dimethylphenol	1670	1340	80	43-96
51-28-5	2,4-Dinitrophenol	3330	3270	98	40-119
534-52-1	4,6-Dinitro-o-cresol	3330	3480	104	64-121
95-48-7	2-Methylphenol	1670	1320	79	46-107
	3&4-Methylphenol	3330	2520	76	44-111
88-75-5	2-Nitrophenol	1670	1290	77	49-104
100-02-7	4-Nitrophenol	3330	3060	92	56-116
87-86-5	Pentachlorophenol	3330	3980	119*	61-114
108-95-2	Phenol	1670	1330	80	45-110
95-95-4	2,4,5-Trichlorophenol	1670	1480	89	58-112
88-06-2	2,4,6-Trichlorophenol	1670	1440	86	56-109
83-32-9	Acenaphthene	1670	1340	80	56-109
208-96-8	Acenaphthylene	1670	1300	78	56-106
120-12-7	Anthracene	1670	1410	85	61-110
92-87-5	Benzidine	1670	914	55	10-109
56-55-3	Benzo(a)anthracene	1670	1530	92	66-111
50-32-8	Benzo(a)pyrene	1670	1490	89	59-104
205-99-2	Benzo(b)fluoranthene	1670	1490	89	67-113
191-24-2	Benzo(g,h,i)perylene	1670	1510	91	67-113
207-08-9	Benzo(k)fluoranthene	1670	1520	91	67-114
101-55-3	4-Bromophenyl phenyl ether	1670	1250	75	62-110
85-68-7	Butyl benzyl phthalate	1670	1520	91	65-113
91-58-7	2-Chloronaphthalene	1670	1250	75	53-106
106-47-8	4-Chloroaniline	1670	1140	68	30-115
86-74-8	Carbazole	1670	1510	91	60-111
218-01-9	Chrysene	1670	1490	89	65-112
111-91-1	bis(2-Chloroethoxy)methane	1670	1180	71	48-105
111-44-4	bis(2-Chloroethyl)ether	1670	1210	73	46-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1200	72	40-110
7005-72-3	4-Chlorophenyl phenyl ether	1670	1250	75	58-106
95-50-1	1,2-Dichlorobenzene	1670	1220	73	44-102
122-66-7	1,2-Diphenylhydrazine	1670	1480	89	58-112
541-73-1	1,3-Dichlorobenzene	1670	1220	73	42-100

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-BS	L0680766.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
106-46-7	1,4-Dichlorobenzene	1670	1260	76	40-106
121-14-2	2,4-Dinitrotoluene	1670	1310	79	59-109
606-20-2	2,6-Dinitrotoluene	1670	1280	77	61-107
91-94-1	3,3'-Dichlorobenzidine	1670	1320	79	36-114
53-70-3	Dibenzo(a,h)anthracene	1670	1580	95	68-115
132-64-9	Dibenzofuran	1670	1370	82	57-108
84-74-2	Di-n-butyl phthalate	1670	1480	89	63-108
117-84-0	Di-n-octyl phthalate	1670	1590	95	64-119
84-66-2	Diethyl phthalate	1670	1330	80	61-109
131-11-3	Dimethyl phthalate	1670	1330	80	59-108
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1520	91	64-115
206-44-0	Fluoranthene	1670	1460	88	60-108
86-73-7	Fluorene	1670	1350	81	58-109
118-74-1	Hexachlorobenzene	1670	1350	81	59-111
87-68-3	Hexachlorobutadiene	1670	1310	79	41-108
77-47-4	Hexachlorocyclopentadiene	1670	1330	80	49-110
67-72-1	Hexachloroethane	1670	1210	73	40-105
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1520	91	66-116
78-59-1	Isophorone	1670	1130	68	42-89
91-57-6	2-Methylnaphthalene	1670	1250	75	47-106
88-74-4	2-Nitroaniline	1670	1350	81	56-123
99-09-2	3-Nitroaniline	1670	1140	68	41-111
100-01-6	4-Nitroaniline	1670	1380	83	54-113
91-20-3	Naphthalene	1670	1140	68	44-104
98-95-3	Nitrobenzene	1670	1220	73	43-108
62-75-9	N-Nitrosodimethylamine	1670	1220	73	40-106
621-64-7	N-Nitroso-di-n-propylamine	1670	1280	77	48-108
86-30-6	N-Nitrosodiphenylamine	1670	1500	90	62-110
85-01-8	Phenanthrene	1670	1480	89	63-111
129-00-0	Pyrene	1670	1480	89	65-115
120-82-1	1,2,4-Trichlorobenzene	1670	1170	70	45-100

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	72%	40-102%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-BS	L0680766.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	83%	41-100%
118-79-6	2,4,6-Tribromophenol	94%	42-108%
4165-60-0	Nitrobenzene-d5	74%	40-105%
321-60-8	2-Fluorobiphenyl	79%	43-107%
1718-51-0	Terphenyl-d14	100%	45-119%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-MS	L0680773.D	1	12/10/14	MV	12/09/14	OP54171	SL3578
OP54171-MSD	L0680774.D	1	12/10/14	MV	12/09/14	OP54171	SL3578
D65364-11	L0680772.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Compound	D65364-11 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1830	1680	92	1840	1430	78	16	48-104/26
59-50-7	4-Chloro-3-methyl phenol	ND		1830	1510	83	1840	1360	74	10	52-108/21
120-83-2	2,4-Dichlorophenol	ND		1830	1520	83	1840	1340	73	13	51-105/27
105-67-9	2,4-Dimethylphenol	ND		1830	1660	91	1840	1470	80	12	43-96/23
51-28-5	2,4-Dinitrophenol	ND		3650	1020	28*	3680	444	12*	79*	40-119/32
534-52-1	4,6-Dinitro-o-cresol	ND		3650	1310	36*	3680	602	16*	74*	64-121/29
95-48-7	2-Methylphenol	ND		1830	1710	94	1840	1450	79	16	46-107/24
	3&4-Methylphenol	ND		3650	3240	89	3680	2780	76	15	44-111/24
88-75-5	2-Nitrophenol	ND		1830	1530	84	1840	1310	71	15	49-104/27
100-02-7	4-Nitrophenol	ND		3650	3720	102	3680	3280	89	13	56-116/23
87-86-5	Pentachlorophenol	ND		3650	3950	108	3680	3320	90	17	61-114/23
108-95-2	Phenol	ND		1830	1650	90	1840	1480	81	11	45-110/24
95-95-4	2,4,5-Trichlorophenol	ND		1830	1800	99	1840	1610	88	11	58-112/22
88-06-2	2,4,6-Trichlorophenol	ND		1830	1840	101	1840	1650	90	11	56-109/25
83-32-9	Acenaphthene	ND		1830	1710	94	1840	1510	82	12	56-109/23
208-96-8	Acenaphthylene	ND		1830	1670	91	1840	1500	82	11	56-106/23
120-12-7	Anthracene	51.1	J	1830	1810	96	1840	1670	88	8	61-110/21
56-55-3	Benzo(a)anthracene	187		1830	1760	86	1840	1820	89	3	66-111/23
50-32-8	Benzo(a)pyrene	277		1830	1850	86	1840	1900	88	3	59-104/23
205-99-2	Benzo(b)fluoranthene	414		1830	2020	88	1840	2340	105	15	67-113/24
191-24-2	Benzo(g,h,i)perylene	632		1830	2690	113	1840	2760	116*	3	67-113/21
207-08-9	Benzo(k)fluoranthene	438		1830	1960	83	1840	1760	72	11	67-114/22
101-55-3	4-Bromophenyl phenyl ether	ND		1830	1450	79	1840	1250	68	15	62-110/21
85-68-7	Butyl benzyl phthalate	ND		1830	1550	85	1840	1360	74	13	65-113/20
91-58-7	2-Chloronaphthalene	ND		1830	1660	91	1840	1440	78	14	53-106/23
106-47-8	4-Chloroaniline	ND		1830	1140	62	1840	1040	57	9	30-115/30
86-74-8	Carbazole	26.9	J	1830	1770	95	1840	1670	89	6	60-111/19
218-01-9	Chrysene	333		1830	2130	98	1840	2330	109	9	65-112/25
111-91-1	bis(2-Chloroethoxy)methane	ND		1830	1450	79	1840	1270	69	13	48-105/24
111-44-4	bis(2-Chloroethyl)ether	ND		1830	1560	85	1840	1330	72	16	46-103/27
108-60-1	bis(2-Chloroisopropyl)ether	ND		1830	1570	86	1840	1360	74	14	40-110/25
7005-72-3	4-Chlorophenyl phenyl ether	ND		1830	1470	81	1840	1290	70	13	58-106/21
95-50-1	1,2-Dichlorobenzene	ND		1830	1560	85	1840	1340	73	15	44-102/28
122-66-7	1,2-Diphenylhydrazine	ND		1830	2150	118*	1840	1860	101	14	58-112/22
541-73-1	1,3-Dichlorobenzene	ND		1830	1560	85	1840	1300	71	18	42-100/30
106-46-7	1,4-Dichlorobenzene	ND		1830	1650	90	1840	1390	76	17	40-106/29

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-MS	L0680773.D	1	12/10/14	MV	12/09/14	OP54171	SL3578
OP54171-MSD	L0680774.D	1	12/10/14	MV	12/09/14	OP54171	SL3578
D65364-11	L0680772.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Compound	D65364-11 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		1830	1400	77	1840	1210	66	15	59-109/20
606-20-2	2,6-Dinitrotoluene	ND		1830	1570	86	1840	1330	72	17	61-107/22
91-94-1	3,3'-Dichlorobenzidine	ND		1830	995	55	1840	970	53	3	36-114/28
53-70-3	Dibenzo(a,h)anthracene	70.0	J	1830	2140	113	1840	2040	107	5	68-115/23
132-64-9	Dibenzofuran	ND		1830	1700	93	1840	1530	83	11	57-108/22
84-74-2	Di-n-butyl phthalate	48.0	J	1830	1730	92	1840	1530	81	12	63-108/19
117-84-0	Di-n-octyl phthalate	ND		1830	1510	83	1840	1300	71	15	64-119/21
84-66-2	Diethyl phthalate	ND		1830	1610	88	1840	1420	77	13	61-109/20
131-11-3	Dimethyl phthalate	ND		1830	1730	95	1840	1550	84	11	59-108/20
117-81-7	bis(2-Ethylhexyl)phthalate	42.8	J	1830	1800	96	1840	1580	84	13	64-115/23
206-44-0	Fluoranthene	332		1830	1810	81	1840	2310	108	24	60-108/25
86-73-7	Fluorene	ND		1830	1580	87	1840	1430	78	10	58-109/21
118-74-1	Hexachlorobenzene	ND		1830	1510	83	1840	1280	70	16	59-111/21
87-68-3	Hexachlorobutadiene	ND		1830	1530	84	1840	1380	75	10	41-108/27
77-47-4	Hexachlorocyclopentadiene	ND		1830	643	35*	1840	402	22*	46*	49-110/31
67-72-1	Hexachloroethane	ND		1830	1380	76	1840	1110	60	22	40-105/32
193-39-5	Indeno(1,2,3-cd)pyrene	581		1830	2450	102	1840	2570	108	5	66-116/22
78-59-1	Isophorone	ND		1830	1360	75	1840	1210	66	12	42-89/22
91-57-6	2-Methylnaphthalene	ND		1830	1450	79	1840	1280	70	12	47-106/27
88-74-4	2-Nitroaniline	ND		1830	1750	96	1840	1560	85	11	56-123/24
99-09-2	3-Nitroaniline	ND		1830	1570	86	1840	1430	78	9	41-111/25
100-01-6	4-Nitroaniline	ND		1830	1520	83	1840	1420	77	7	54-113/22
91-20-3	Naphthalene	ND		1830	1450	79	1840	1270	69	13	44-104/27
98-95-3	Nitrobenzene	ND		1830	1520	83	1840	1300	71	16	43-108/25
62-75-9	N-Nitrosodimethylamine	ND		1830	1570	86	1840	1320	72	17	40-106/27
621-64-7	N-Nitroso-di-n-propylamine	ND		1830	1650	90	1840	1390	76	17	48-108/27
86-30-6	N-Nitrosodiphenylamine	ND		1830	2130	117*	1840	1870	102	13	62-110/21
85-01-8	Phenanthrene	237		1830	2020	98	1840	2260	110	11	63-111/22
129-00-0	Pyrene	354		1830	1940	87	1840	2230	102	14	65-115/25
120-82-1	1,2,4-Trichlorobenzene	ND		1830	1420	78	1840	1240	67	14	45-100/26

CAS No.	Surrogate Recoveries	MS	MSD	D65364-11	Limits
367-12-4	2-Fluorophenol	83%	71%	58%	40-102%
4165-62-2	Phenol-d5	94%	80%	68%	41-100%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54171-MS	L0680773.D	1	12/10/14	MV	12/09/14	OP54171	SL3578
OP54171-MSD	L0680774.D	1	12/10/14	MV	12/09/14	OP54171	SL3578
D65364-11	L0680772.D	1	12/10/14	MV	12/09/14	OP54171	SL3578

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA20437-1

CAS No.	Surrogate Recoveries	MS	MSD	D65364-11	Limits
118-79-6	2,4,6-Tribromophenol	102%	85%	78%	42-108%
4165-60-0	Nitrobenzene-d5	83%	73%	73%	40-105%
321-60-8	2-Fluorobiphenyl	96%	84%	79%	43-107%
1718-51-0	Terphenyl-d14	86%	75%	70%	45-119%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5374-MB	CD131085.D	1	12/09/14	JG	n/a	n/a	GCD5374

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20437-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	80%	56-149%
98-08-8	aaa-Trifluorotoluene	78%	66-132%

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5374-BS	CD131084.D	1	12/09/14	JG	n/a	n/a	GCD5374

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20437-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	20	20.7	104	74-128

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	56-149%
98-08-8	aaa-Trifluorotoluene	98%	66-132%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA20407-2MS	CD131092.D	1	12/09/14	JG	n/a	n/a	GCD5374
FA20407-2MSD	CD131093.D	1	12/09/14	JG	n/a	n/a	GCD5374
FA20407-2	CD131086.D	1	12/09/14	JG	n/a	n/a	GCD5374

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20437-1

CAS No.	Compound	FA20407-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		33.6	36.6	109	33.6	35.1	105	4	74-128/17

CAS No.	Surrogate Recoveries	MS	MSD	FA20407-2	Limits
460-00-4	4-Bromofluorobenzene	99%	97%	86%	56-149%
98-08-8	aaa-Trifluorotoluene	101%	102%	85%	66-132%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54178-MB	JJ006259.D	1	12/11/14	SJL	12/09/14	OP54178	GJJ261

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20437-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C22)	ND	4.2	2.5	mg/kg	
	TPH (> C22-C36)	ND	4.2	2.5	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	135%* [a]	56-122%

(a) Outside control limits.

8.1.1

8

Blank Spike Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54178-BS	JJ006258.D	1	12/11/14	SJL	12/09/14	OP54178	GJJ261

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20437-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C22)	33.3	36.9	111	65-116
	TPH (> C22-C36)	33.3	37.0	111	51-148

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	128%* [a]	56-122%

(a) Outside control limits.

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA20437
Account: RRENNMA R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP54178-MS	JJ006261.D	10	12/11/14	SJL	12/09/14	OP54178	GJJ261
OP54178-MSD	JJ006262.D	10	12/11/14	SJL	12/09/14	OP54178	GJJ261
FA20437-1	JJ006260.D	10	12/11/14	SJL	12/09/14	OP54178	GJJ261

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA20437-1

CAS No.	Compound	FA20437-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C22)	44.7	J	38.9	86.0	106	39	82.9	98	4	65-116/28
	TPH (> C22-C36)	116		38.9	170	139	39	172	143	1	51-148/28

CAS No.	Surrogate Recoveries	MS	MSD	FA20437-1	Limits
84-15-1	o-Terphenyl	97%	99%	95%	56-122%

* = Outside of Control Limits.

Southeast ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:					12/18/14		12/18/14		12/18/14
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	0.20	.015	.015						
Antimony	0.0060	.002	.0023						
Arsenic	0.010	.002	.0024	-0.0011	<0.010	-0.0090	<0.10	-0.011	<0.10
Barium	0.20	.001	.005	0.00010	<0.20	0.0050	<2.0	0.0050	<2.0
Beryllium	0.0040	.0005	.0005						
Cadmium	0.0050	.0005	.0005	0.0	<0.0050	-0.0010	<0.050	0.0	<0.050
Calcium	1.0	.05	.05						
Chromium	0.010	.001	.002	-0.00030	<0.010	0.0020	<0.10	0.0010	<0.10
Cobalt	0.050	.0005	.0005						
Copper	0.025	.001	.001						
Iron	0.30	.017	.017						
Lead	0.0050	.0011	.0011	-0.0017	<0.0050	0.0010	<0.050	-0.0010	<0.050
Magnesium	5.0	.05	.056						
Manganese	0.015	.0005	.001						
Molybdenum	0.050	.0005	.0005						
Nickel	0.040	.0005	.0005						
Potassium	10	.2	.2						
Selenium	0.010	.0023	.0023	0.0019	<0.010	0.0050	<0.10	-0.0080	<0.10
Silver	0.010	.00065	.00077	-0.00020	<0.010	-0.0020	<0.10	-0.0020	<0.10
Sodium	10	.5	.5						
Strontium	0.010	.0004	.0004						
Thallium	0.010	.0015	.002						
Tin	0.050	.0007	.001						
Titanium	0.010	.0009	.001						
Vanadium	0.050	.0005	.0005						
Zinc	0.020	.003	.01						

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 12/18/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	0.20	.015	.015		
Antimony	0.0060	.002	.0023		
Arsenic	0.010	.002	.0024	0.0	<0.10
Barium	0.20	.001	.005	0.0070	<2.0
Beryllium	0.0040	.0005	.0005		
Cadmium	0.0050	.0005	.0005	0.0020	<0.050
Calcium	1.0	.05	.05		
Chromium	0.010	.001	.002	0.0050	<0.10
Cobalt	0.050	.0005	.0005		
Copper	0.025	.001	.001		
Iron	0.30	.017	.017		
Lead	0.0050	.0011	.0011	0.0070	<0.050
Magnesium	5.0	.05	.056		
Manganese	0.015	.0005	.001		
Molybdenum	0.050	.0005	.0005		
Nickel	0.040	.0005	.0005		
Potassium	10	.2	.2		
Selenium	0.010	.0023	.0023	0.0080	<0.10
Silver	0.010	.00065	.00077	-0.0050	<0.10
Sodium	10	.5	.5		
Strontium	0.010	.0004	.0004		
Thallium	0.010	.0015	.002		
Tin	0.050	.0007	.001		
Titanium	0.010	.0009	.001		
Vanadium	0.050	.0005	.0005		
Zinc	0.020	.003	.01		

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date: 12/18/14

Metal	FA20645-1L Original	MS	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum					
Antimony	anr				
Arsenic	0.0	20.3	20.0	101.5	80-120
Barium	0.89	22.1	20.0	106.1	80-120
Beryllium	anr				
Cadmium	0.012	0.52	0.50	101.6	80-120
Calcium					
Chromium	0.16	2.3	2.0	107.0	80-120
Cobalt					
Copper					
Iron					
Lead	0.0	5.1	5.0	102.0	80-120
Magnesium					
Manganese					
Molybdenum					
Nickel	anr				
Potassium					
Selenium	0.0	20.1	20.0	100.5	80-120
Silver	0.0	0.51	0.50	102.0	80-120
Sodium					
Strontium					
Thallium	anr				
Tin					
Titanium					
Vanadium					
Zinc					

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Metal	FA20645-1L Original	MSD	Spikelot MPFLICP2	% Rec	MSD RPD	QC Limit	FA20437-1L Original	DUP	RPD	QC Limits
Prep Date:					12/18/14				12/18/14	
Aluminum										
Antimony	anr									
Arsenic	0.0	20.4	20.0	102.0	0.5	20	0.0	0.0	NC	0-20
Barium	0.89	22.0	20.0	105.6	0.5	20	0.20	0.15	28.6 (a)	0-20
Beryllium	anr									
Cadmium	0.012	0.52	0.50	101.6	0.0	20	0.0	0.0	NC	0-20
Calcium										
Chromium	0.16	2.4	2.0	112.0	4.3	20	0.0	0.0	NC	0-20
Cobalt										
Copper										
Iron										
Lead	0.0	5.1	5.0	102.0	0.0	20	0.0	0.0	NC	0-20
Magnesium										
Manganese										
Molybdenum										
Nickel	anr									
Potassium										
Selenium	0.0	20.2	20.0	101.0	0.5	20	0.0	0.0	NC	0-20
Silver	0.0	0.51	0.50	102.0	0.0	20	0.0	0.0	NC	0-20
Sodium										
Strontium										
Thallium	anr									
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			12/18/14				12/18/14	
Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	2.0	2.0	100.0	80-120	19.7	20.0	98.5	80-120
Barium	2.1	2.0	105.0	80-120	21.4	20.0	107.0	80-120
Beryllium	anr							
Cadmium	0.050	0.050	100.0	80-120	0.51	0.50	102.0	80-120
Calcium								
Chromium	0.21	0.20	105.0	80-120	2.3	2.0	115.0	80-120
Cobalt								
Copper								
Iron								
Lead	0.51	0.50	102.0	80-120	5.2	5.0	104.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel	anr							
Potassium								
Selenium	2.0	2.0	100.0	80-120	19.5	20.0	97.5	80-120
Silver	0.050	0.050	100.0	80-120	0.51	0.50	102.0	80-120
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: mg/l

Prep Date:			12/18/14				12/18/14	
Metal	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits	BSP Result	Spikelot MPFLICP2	% Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	19.5	20.0	97.5	80-120	19.9	20.0	99.5	80-120
Barium	21.4	20.0	107.0	80-120	21.7	20.0	108.5	80-120
Beryllium	anr							
Cadmium	0.50	0.50	100.0	80-120	0.51	0.50	102.0	80-120
Calcium								
Chromium	2.3	2.0	115.0	80-120	2.3	2.0	115.0	80-120
Cobalt								
Copper								
Iron								
Lead	5.2	5.0	104.0	80-120	5.3	5.0	106.0	80-120
Magnesium								
Manganese								
Molybdenum								
Nickel	anr							
Potassium								
Selenium	19.2	20.0	96.0	80-120	19.9	20.0	99.5	80-120
Silver	0.51	0.50	102.0	80-120	0.52	0.50	104.0	80-120
Sodium								
Strontium								
Thallium	anr							
Tin								
Titanium								
Vanadium								
Zinc								

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28359
Matrix Type: LEACHATE

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/18/14

Metal	FA20645-1L Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	89.1	83.0	6.8	0-10
Beryllium	anr			
Cadmium	1.20	0.00	100.0(a)	0-10
Calcium				
Chromium	16.4	16.0	2.4	0-10
Cobalt				
Copper				
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	anr			
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP28359: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date:				12/19/14		12/19/14		12/19/14	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.00050	.00003	.00005	-0.000031	<0.00050	-0.00026	<0.0050	-0.00026	<0.0050

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.1
9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368 Methods: SW846 7470A
Matrix Type: LEACHATE Units: mg/l

Prep Date: 12/19/14

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00050	.00003	.00005	-0.00025	<0.0050

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 12/19/14

Metal	FA20645-1L Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.030	0.030	100.0	80-120

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 12/19/14 12/19/14

Metal	FA20645-1L Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit	FA20437-1L Original	DUP	RPD	QC Limits
Mercury	0.0	0.030	0.030	100.0	0.0	20	0.0	0.0	NC	0-20

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 12/19/14 12/19/14

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0030	0.0030	100.0	80-120	0.030	0.030	100.0	80-120

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

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SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 12/19/14 12/19/14

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.029	0.030	96.7	80-120	0.029	0.030	96.7	80-120

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.3

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SERIAL DILUTION RESULTS SUMMARY

Login Number: FA20437
Account: RRENNMA - R & R Environmental
Project: Holloman AFB Compliance/Haz-waste; 1641 Vandergrift Rd 1266, Holloman AFB, NM

QC Batch ID: MP28368
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: ug/l

Prep Date: 12/19/14

Metal	FA20645-1L Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP28368: FA20437-1L

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested