

LAF TA-21
(TA-21-57-ACI)



Risk Reduction & Environmental Stewardship Division
Water Quality & Hydrology Group (RRES-WQH)
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Los Alamos, New Mexico 87545
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Date: June 20, 2003
Refer to: RRES-WQH: 03-141

Ms. Vickie Maranville
Environmental Scientist
Hazardous Waste Bureau
New Mexico Environment Department (NMED)
P.O. Box 26110
Santa Fe, New Mexico 87502



**SUBJECT: TA-21-57 ABOVE GROUND STORAGE TANK DIESEL RELEASE,
SUPPLEMENTAL INFORMATION**

Dear Ms. Maranville:

Enclosed is a letter and associated information that was submitted to Mark Coffman, our previous NMED point-of-contact for this work, on October 25, 2002. This information provides additional details related to the *TA-21-57 AST Fuel Oil Environmental Assessment and Characterization Report*. The enclosed information has been provided to ensure that your files are complete concerning this release.

Please contact Mark Haagenstad (505) 665-2014 or Mike Saladen at (505) 665-6085 if additional information would be helpful.

Sincerely,

Steven Rae
Group Leader
Water Quality & Hydrology Group

SR:MH/tml



10698

Enclosures: a/s

Cy: Lorena Goerger, NMED-PST, Santa Fe, NM, w/enc.
Joseph Vozella, DOE/OLASO, w/o enc., MS A316
Gene Turner, DOE/OLASO, w/enc., MS A316
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Date: October 25, 2002
Refer to: RRES-WQH: 02-387

Mr. Mark V. Coffman
Environmental Scientist
New Mexico Environmental Department
DOE Oversight Bureau, MS J993
Los Alamos, New Mexico 87544

SUBJECT: TA-21-57 AST DIESEL FUEL RELEASE – SUPPLEMENTAL INFORMATION

Dear Mr. Coffman:

In response to your request, I am providing the following supplemental information regarding the TA-21 diesel release. This information is a follow-up to the information provided to you in our September 19, 2002 letter. The following information addresses the questions that we discussed:

- Attached is Table 1 that correlates the sample identifications (IDs) discussed in the TA-21-57 AST Fuel Oil Environmental Assessment and Characterization Report (Characterization Report) with the corresponding chain of custody (COC) IDs that are associated with the data package from General Engineering Laboratories (GEL).
- Prior to daily use of the Photoionization Detector (PID) for field screening by JCNNM-HENV, the instrument was calibrated to isobutylene gas. No additional adjustments to the system were made during the field screening.
- The data rows labeled Horizontal and Vertical Extent and associated analytical data in the Angled Holes (#1 and #2) definition column in Appendix 4 of the Characterization Report were constructed to reflect the horizontal and vertical distances from the point of ground penetration by the angled boreholes. Unfortunately, there is an administrative error in the reporting of the associated analytical data results in the Characterization Report. The attached Table 2 shows the corrected associated analytical data values.

Please contact Mark Haagenstad (505) 665-2014 or myself at (505) 665-6085 should you have questions or need additional information regarding this matter.

Sincerely,



Mike Saladen
Water Quality & Hydrology Group

MS:MH/tml

Attachments: a/s

Cy: Joseph Vozella, DOE/OLASO, w/o att., MS A316
Gene Turner, DOE/OLASO, w/o att., MS A316
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Table 1. Sampling identification correlations between the TA-21-57 AST Diesel Fuel Oil Release Environmental Assessment and Characterization Report and the General Engineering Laboratories (GEL) data package.

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
Hole A	1	JC-S100-1	2-4	2	4	FT	TPH-DRO
Hole B	2	JC-S101-2	4-6	4	6	FT	TPH-DRO
Hole C	3	JC-S102-3	2-4'3"	2	4'3"	FT	TPH-DRO
		JC-S103-4	6-8	6	8	FT	TPH-DRO
		JC-S104-5	8-12	8	12	FT	TPH-DRO
		JC-S105-6	14-16	14	16	FT	TPH-DRO
Hole D	4, 5, 6						
Hole E	7	JC-S106-7	2-6.2	2	6.2	FT	TPH-DRO
Hole F	8	JC-S107-8	0-2.2	0	2.2	FT	TPH-DRO
Hole G	9	JC-S108-9	4-6	4	6	FT	TPH-DRO
Hole H	10	JC-S109-10	0-2	0	2	FT	TPH-DRO
Hole I	11	JC-S110-11	2-4	2	4	FT	TPH-DRO
		JC-S111-12	0-2	0	2		TPH-DRO
Hole J	12, 13	JC-S112-13	2-5	2	5	FT	TPH-DRO
Hole K	14	JC-S113-14	0-3	0	3	FT	TPH-DRO
Hole L	15	JC-S114-15	2-4	2	4	FT	TPH-DRO
Hole M	16	JC-S115-16	2-4	2	4	FT	TPH-DRO
Hole N	17	JC-S116-17	2-4	2	4	FT	TPH-DRO
Hole O	18	JC-S117-18	0-2	0	2	FT	TPH-DRO
Hole P	19	JC-S118-19	2-4	2	4	FT	TPH-DRO
Hole Q	20	JC-S119-20	0-2	0	2	FT	TPH-DRO
Hole R	21	JC-S120-21	2-4	2	4	FT	TPH-DRO
Hole S	22	JC-S121-22	2-4	2	4	FT	TPH-DRO
Hole T	23	JC-S122-23	2-4	2	4	FT	TPH-DRO

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
		JC-S123-24	2-4	2	4	FT	TPH-DRO
		JC-S124-25	4-6	4	6	FT	TPH-DRO
		JC-S125-26	6-8	6	8	FT	TPH-DRO
Hole U	24, 25, 26, 27, 28	JC-S126-27	8-10	8	10	FT	TPH-DRO
		JC-S127-28	10-12	10	12	FT	TPH-DRO
Hole V	29	JC-S128-29	0-4	0	4	FT	TPH-DRO
Hole W	30	JC-S129-30	2-4	2	4	FT	TPH-DRO
Waste Characterization, 31	31	JC-S130-31	0-1	0	1	FT	TPH- DRO,BTEX TCLP METALS
Waste Characterization, 32	32	JC-S131-32	0-1	0	1	FT	TPH- DRO,BTEX TCLP METALS
Waste Characterization, 33	33	JC-S132-33	0-1	0	1	FT	TPH- DRO,BTEX TCLP METALS
Waste Characterization, 34	34	JC-S133-34	0-1	0	1	FT	TPH- DRO,BTEX TCLP METALS
Waste Characterization, 35	35	JC-S134-35	0-1	0	1	FT	TPH- DRO,BTEX TCLP METALS
Waste Characterization, 36	36	JC-S135-36	0-1	0	1	FT	TPH- DRO,BTEX TCLP METALS
V-1-42	42	JC-S140-42	3	N/A	N/A	FT	TPH-DRO
V-1-43	43	JC-S140-43	8	N/A	N/A	FT	TPH-DRO PAH,BTEX
V-1-44	44	JC-S140-44	8	N/A	N/A	FT	TPH-DRO
V-1-45	45	JC-S140-45	15	N/A	N/A	FT	TPH-DRO
V-1-46	46	JC-S140-46	20	N/A	N/A	FT	TPH-DRO
V-1-47	47	JC-S140-47	25	N/A	N/A	FT	TPH-DRO
V-1-48	48	JC-S140-48	30	N/A	N/A	FT	TPH-DRO
V-1-49	49	JC-S140-49	33	N/A	N/A	FT	TPH-DRO

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
V-1-50	50	JC-S140-50	39	N/A	N/A	FT	TPH-DRO
V-1-51	51	JC-S140-51	45	N/A	N/A	FT	TPH-DRO
V-1-52	52	JC-S140-52	55	N/A	N/A	FT	TPH-DRO
V-1-53	53	JC-S140-53	65	N/A	N/A	FT	TPH-DRO
V-1-54	54	JC-S140-54	75	N/A	N/A	FT	TPH-DRO
V-1-55	55	JC-S140-55	85	N/A	N/A	FT	TPH-DRO
V-1-56	56	JC-S140-56	95	N/A	N/A	FT	TPH-DRO
V-1-57	57	JC-S140-57	105	N/A	N/A	FT	TPH-DRO
V-1-58	58	JC-S140-58	115	N/A	N/A	FT	TPH-DRO
V-1-59	59	JC-S140-59		125	N/A	N/A	FT
	60 VOID	JC-S140-60=VOID					
V-1-61	61	JC-S140-61	135	N/A	N/A	FT	TPH-DRO
V-1-62	62	JC-S140-62	145	N/A	N/A	FT	TPH-DRO
V-1-63	63	JC-S140-63	155	N/A	N/A	FT	TPH-DRO
V-1-64	64	JC-S140-64	165	N/A	N/A	FT	TPH-DRO
V-1-65	65	JC-S140-65	175	N/A	N/A	FT	TPH-DRO
V-2-66	66	JC-S140-66	7.5	N/A	N/A	FT	TPH-DRO
V-2-67	67	JC-S140-67	20	N/A	N/A	FT	TPH-DRO
V-2-68	68	JC-S140-68	30	N/A	N/A	FT	TPH-DRO
V-2-69	69	JC-S140-69	40	N/A	N/A	FT	TPH-DRO
V-2-70	70	JC-S140-70	50	N/A	N/A	FT	TPH-DRO
V-2-71	71	JC-S140-71	60	N/A	N/A	FT	TPH-DRO
V-2-72	72	JC-S140-72	65	N/A	N/A	FT	TPH-DRO

TPH-DRO

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
V-2-73	73	JC-S140-73	80	N/A	N/A	FT	TPH-DRO
V-2-74	74	JC-S140-74	90	N/A	N/A	FT	TPH-DRO
V-2-75	75	JC-S140-75	100	N/A	N/A	FT	TPH-DRO
V-2-37	37	JC-S136-37	110	N/A	N/A	FT	TPH-DRO
V-3-76-3	76-3	JC-S142-76-3	15	N/A	N/A	FT	TPH-DRO
V-3-76-5	76-5	JC-S142-76-5	25	N/A	N/A	FT	TPH-DRO
V-3-76-7	76-7	JC-S142-76-7	35	N/A	N/A	FT	TPH-DRO
V-3-76-9	76-9	JC-S142-76-9	45	N/A	N/A	FT	TPH-DRO PAH,BTEX
V-3-76-11	76-11	JC-S142-76-11	55	N/A	N/A	FT	TPH-DRO
V-3-76-13		JC-S142-76-13	65			FT	TPH-DRO
V-3-76-14	76-13, 76-14	JC-S142-76-14	65	N/A	N/A	FT	TPH-DRO
V-3-77-15	77-15	JC-S143-77-15	75	N/A	N/A	FT	TPH-DRO
V-3-77-16	77-16	JC-S143-77-16	85	N/A	N/A	FT	TPH-DRO
V-3-77-17	77-17	JC-S143-77-17	95	N/A	N/A	FT	TPH-DRO
V-3-77-18	77-18	JC-S143-77-18	105	N/A	N/A	FT	TPH-DRO
V-4-78-1	78-1	JC-S144-78-1	15	N/A	N/A	FT	TPH-DRO
V-4-78-2	78-2	JC-S144-78-2	25	N/A	N/A	FT	TPH-DRO
V-4-78-4	78-4	JC-S144-78-4	35	N/A	N/A	FT	TPH-DRO
V-4-78-5	78-5	JC-S144-78-5	45	N/A	N/A	FT	TPH-DRO
V-4-78-6	78-6	JC-S144-78-6	55	N/A	N/A	FT	TPH-DRO
V-4-78-7	78-7	JC-S144-78-7	65	N/A	N/A	FT	TPH-DRO
V-4-78-8	78-8	JC-S144-78-8	75	N/A	N/A	FT	TPH-DRO
V-4-78-9	78-9	JC-S144-78-9	85	N/A	N/A	FT	TPH-DRO

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
V-4-78-10	78-10	JC-S144-78-10	95	N/A	N/A	FT	TPH-DRO
V-4-78-11		JC-S144-78-11	105			FT	TPH-DRO
V-4-78-12 DUP	78-11, 78-12	JC-S144-78-12	105	N/A	N/A	FT	TPH-DRO
V-5-79-1	79-1	JC-S145-79-1	15	N/A	N/A	FT	TPH-DRO
V-5-79-2	79-2	JC-S145-79-2	25	N/A	N/A	FT	TPH-DRO
V-5-79-3	79-3	JC-S145-79-3	35	N/A	N/A	FT	TPH-DRO
V-5-79-4	79-4	JC-S145-79-4	45	N/A	N/A	FT	TPH-DRO
V-5-79-5	79-5	JC-S145-79-5	55	N/A	N/A	FT	TPH-DRO
V-5-79-6	79-6	JC-S145-79-6	65	N/A	N/A	FT	TPH-DRO
V-5-79-7	79-7	JC-S145-79-7	75	N/A	N/A	FT	TPH-DRO
V-5-79-8	79-8	JC-S145-79-8	85	N/A	N/A	FT	TPH-DRO
V-5-79-9	79-9	JC-S145-79-9	95	N/A	N/A	FT	TPH-DRO
V-5-79-10		JC-S145-79-10	105			FT	TPH-DRO
V-5-79-11 DUP	79-10, 79-11	JC-S145-79-11	105	N/A	N/A	FT	TPH-DRO
V-5-79-12	79-12	JC-S145-79-12	115	N/A	N/A	FT	TPH-DRO
V-5-79-13	79-13	JC-S145-79-13	125	N/A	N/A	FT	TPH-DRO
V-6-80-1	80-1	JC-S146-80-1	15	N/A	N/A	FT	TPH-DRO
V-6-80-2	80-2	JC-S146-80-2	25	N/A	N/A	FT	TPH-DRO
V-6-80-3	80-3	JC-S146-80-3	35	N/A	N/A	FT	TPH-DRO
V-6-80-4	80-4	JC-S146-80-4	45	N/A	N/A	FT	TPH-DRO
V-6-80-5	80-5	JC-S146-80-5	55	N/A	N/A	FT	TPH-DRO
V-6-80-6	80-6	JC-S146-80-6	65	N/A	N/A	FT	TPH-DRO
V-6-80-7	80-7	JC-S146-80-7	75	N/A	N/A	FT	TPH-DRO
V-6-80-8	80-8	JC-S146-80-8	85	N/A	N/A	FT	TPH-DRO

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
V-6-80-9	80-9	JC-S146-80-9	95	N/A	N/A	FT	TPH-DRO
V-6-80-10	80-10	JC-S146-80-10	105	N/A	N/A	FT	TPH-DRO
V-7-81-1	81-1	JC-S147-81-1	15	N/A	N/A	FT	TPH-DRO
V-7-81-2	81-2	JC-S147-81-2	25	N/A	N/A	FT	TPH-DRO
V-7-81-3	81-3	JC-S147-81-3	35	N/A	N/A	FT	TPH-DRO
V-7-81-4	81-4	JC-S147-81-4	45	N/A	N/A	FT	TPH-DRO
V-7-81-5	81-5	JC-S147-81-5	55	N/A	N/A	FT	TPH-DRO
V-7-81-6	81-6	JC-S147-81-6	65	N/A	N/A	FT	TPH-DRO
V-7-81-7	81-7	JC-S147-81-7	75	N/A	N/A	FT	TPH-DRO
V-7-81-8	81-8	JC-S147-81-8	85	N/A	N/A	FT	TPH-DRO
V-7-81-10	81-10	JC-S147-81-10	95	N/A	N/A	FT	TPH-DRO
V-7-81-11	81-11	JC-S147-81-11	105	N/A	N/A	FT	TPH-DRO
A-1-82-1	82-1	JC-S148-82-1	20	N/A	N/A	FT	TPH-DRO BTEX,PAH
A-1-82-2	82-2	JC-S148-82-2	30	N/A	N/A	FT	TPH-DRO
A-1-82-3	82-3	JC-S148-82-3	40	N/A	N/A	FT	TPH-DRO
V8-83-1	83-1	JC-S149-83-1	15	N/A	N/A	FT	TPH-DRO
V8-83-2	83-2	JC-S149-83-2	25	N/A	N/A	FT	TPH-DRO
V8-83-3	83-3	JC-S149-83-3	35	N/A	N/A	FT	TPH-DRO
V8-83-4	83-4	JC-S149-83-4	45	N/A	N/A	FT	TPH-DRO
V8-83-5	83-5	JC-S149-83-5	55	N/A	N/A	FT	TPH-DRO
V8-83-6	83-6	JC-S149-83-6	65	N/A	N/A	FT	TPH-DRO
V8-83-7	83-7	JC-S149-83-7	75	N/A	N/A	FT	TPH-DRO
V8-83-8	83-8	JC-S149-83-8	85	N/A	N/A	FT	TPH-DRO
V8-83-9	83-9	JC-S149-83-9	95	N/A	N/A	FT	TPH-DRO
V8-83-10	83-10	JC-S149-83-10	105	N/A	N/A	FT	TPH-DRO
A2-84-1	84-1	JC-S150-84-1	15	N/A	N/A	FT	TPH-DRO

Sample Name:	Sample ID (from the COC)	GEL Chain of Custody ID:	Sample Depth:	Beginning Depth	Ending Depth	Depth Units:	Analysis Conducted:
A2-84-2	84-2	JC-S150-84-2	25	N/A	N/A	FT	TPH-DRO
A2-84-3	84-3	JC-S150-84-3	35	N/A	N/A	FT	TPH-DRO
A2-84-4	84-4	JC-S150-84-4	45	N/A	N/A	FT	TPH-DRO
A2-84-5	84-5	JC-S150-84-5	55	N/A	N/A	FT	TPH-DRO
A2-84-6	84-6	JC-S150-84-6	65	N/A	N/A	FT	TPH-DRO
A2-84-7	84-7	JC-S150-84-7	75	N/A	N/A	FT	TPH-DRO
A2-84-8	84-8	JC-S150-84-8	85	N/A	N/A	FT	TPH-DRO
A2-84-9	84-9	JC-S150-84-9	95	N/A	N/A	FT	TPH-DRO
JPA-1	96	JC-S140-96	4'6" - 5'	4"6"	5"	FT	TPH-DRO
JPA-2	97	JC-S140-97	4'6" - 5'	4"6"	5"	FT	TPH-DRO
JPA-3	98	JC-S140-98	4'6" - 5'	4"6"	5"	FT	TPH-DRO
JPA-4	99	JC-S140-99	4'6" - 5'	4"6"	5"	FT	TPH-DRO

Table 2. Corrected values for Horizontal and Vertical Extent associated analytical data information of Angles Holes #1 and #2 (Correction to the TA-21-57 AST Fuel Oil Environmental Assessment and Characterization Report, Appendix 4 [Haagenstad et al., 2002]).

Sample Name	Distance (ft)	General Engineering Laboratories Analytical Data (TPH-Diesel Range Organics [mg/kg])
Angle Hole #1 at 35 degrees	20.00	14700.000
	30.00	25000.000
	40.00	12500.000
Horizontal Extent from Point of Ground Penetration	11.47	14700.000
	17.21	25000.000
	22.94	12500.000
Vertical Extent from Point of Ground Penetration	16.38	14700.000
	24.57	25000.000
	32.77	12500.000
Angle Hole #2 at 25 degrees	15.00	13600.000
	25.00	27300.000
	35.00	13600.000
	45.00	16700.000
	55.00	204.000
	65.00	2.800
	75.00	3.580
	85.00	4.340
	95.00	1.650
Horizontal Extent from Point of Ground Penetration	8.33	13600.000
	10.57	27300.000
	14.79	13600.000
	19.02	16700.000
	23.24	204.000
	27.47	2.800
	31.70	3.580
	35.92	4.340
40.15	1.650	
Vertical Extent from Point of Ground Penetration	13.59	13600.000
	22.66	27300.000
	31.72	13600.000
	40.78	16700.000
	49.85	204.000
	58.91	2.800
	67.97	3.580
	77.04	4.340
86.10	1.650	