NM1 - 19

C-138

YEAR(S):

2003 - 1998

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
1/2/03	3840	Primero Operating	AK SWD	OCD EXEMPT LIQUIDS	750	20	BBLS
1/4/03	3804	Dynegy Midstrea	DEAN BOOSTER	OCD EXEMPT SOILS	14	32	YARDS
1/4/03	3841	Dynegy Midstrea	TOWNSEND STATION	OCD EXEMPT SOILS	14	6	YARDS
1/4/03	3842	Dynegy Midstrea	TOWNSEND STATION	OCD EXEMPT SOILS	14	12	YARDS
1/4/03	3805	Yates Petro.	CARL ANO ST. #4	OCD EXEMPT LIQUIDS	750	60	BBLS
1/14/03	3843	Transwestern Pip	STATION #8	OCD EXEMPT SOILS	14	12	YARDS
1/14/03	3844	Transwestern Pip	STATION #8	OCD EXEMPT SOILS	14	12	YARDS
1/17/03	3845	Rubicon Oil & Gas	RUTTER FED COM#1	OCD EXEMPT LIQUIDS	14	260	BBLS
1/17/03	3846	Yates Petro.	WEST ECHOLS ST.#1	OCD EXEMPT LIQUIDS	14	360	BBLS
1/21/03	3848	Limark Corporatio	STATE DZ #1	OCD EXEMPT LIQUIDS	14	85	BBLS
1/22/03	3849	Limark Corporatio	STATE DZ #1	OCD EXEMPT LIQUIDS	750	310	BBLS
1/22/03	3847	Sampson Resourc	BD#3	OCD EXEMPT LIQUIDS	750	130	BBLS
1/27/03	3850	Yates Petro.	WEST ECHOLS ST.#1	OCD EXEMPT LIQUIDS	14	100	BBLS
1/30/03	3801	Hanson Operating	HANLAD ST. #1	OCD EXEMPT LIQUIDS	750	290	BBLS
1/31/03	3802	Hanson Operating	HANLAD ST. #1	OCD EXEMPT LIQUIDS	750	270	BBLS
1/31/03	3803	Hanson Operating	HANLAD ST. #1	OCD EXEMPT LIQUIDS	750	125	BBLS
2/7/03	3806	Dynegy Midstrea	PIPELINE LEAK GOD RANCH	OCD EXEMPT SOILS	14	8	YARDS
2/10/03	3807	Yates Petro.	QUINCY AMQ ST #14	OCD EXEMPT LIQUIDS	750	70	BBLS
2/12/03	3809	Dynegy Midstrea	DEAN BOOSTER	OCD EXEMPT SOILS	14	5	YARDS
2/17/03	4378	Chaparral Energy	ST K NORTH BAGLEY	OCD EXEMPT LIQUIDS		80	BBLS
2/19/03	4377	Read & Stevens, I	SHELL ST LEASE	OCD EXEMPT SOILS	14	6	YARDS
2/25/03	3810	Russell Whited	CAPITAIN ROAD	OCD EXEMPT LIQUIDS		10	BBLS
3/5/03	4376	Danny's Hot Oil S	JET OUT	OCD EXEMPT SOILS	3	1	YARD
3/24/03	4379	SAGA Petroleum	282769 HOBBS	OCD EXEMPT LIQUIDS		120	BBLS
3/31/03	4380	Concho Resource	MOON #1	OCD EXEMPT LIQUIDS		110	BBLS
4/5/03	3814	Energen Resourc	LAMBRITT A#3	OCD EXEMPT LIQUIDS		390	BBLS
4/13/03	4381	Energen Resourc	LAMBRITH A#13	OCD EXEMPT LIQUIDS		80	BBLS
4/25/03	4383	Dynegy Midstrea	SAUNDER PLANT	OCD EXEMPT LIQUIDS		67	BBLS
4/29/03	4385	Gandy Corp.	HE ROELOFS	OCD EXEMPT LIQUIDS		30	BBLS
5/13/03	4384	Dynegy Midstrea	SAUNDER PLANT	OCD EXEMPT LIQUIDS		18	BBLS
5/13/03	4386	Dynegy Midstrea	SAUNDER PLANT	OCD EXEMPT SOILS		40	YARDS
5/14/03	4387	Dynegy Midstrea	SAUNDER PLANT	OCD EXEMPT SOILS	2	50	YARDS
5/29/03	4388	Dynegy Midstrea	SAUNDER PLANT	OCD EXEMPT SOILS	2	40	YARDS
5/29/03	4389	Gandy Corp.	CLEO THOMPSON	OCD EXEMPT LIQUIDS		240	BBLS
6/3/03	4390	Crain Hotoil	NM SWD #11	OCD EXEMPT LIQUIDS		125	BBLS
6/4/03	3976	Crain Hotoil	RHOMBUS	OCD EXEMPT LIQUIDS		75	BBLS
6/5/03	3977	Crain Hotoil	RHOMBUS	OCD EXEMPT LIQUIDS		50	BBLS
6/7/03	3979	Crain Hotoil	RHOMBUS	OCD EXEMPT LIQUIDS		65	BBLS
6/7/03	3978	Gandy Corp.	RHOMBUS	OCD EXEMPT SOILS	5	40	YARDS

GM inc.

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Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
6/11/03	4391	SAGA Petroleum	AINSWORTH		OCD EXEMPT LIQUIDS		20	BBLS
6/12/03	4393	SAGA Petroleum	AINSWORTH		OCD EXEMPT LIQUIDS		50	BBLS
7/1/03	3876	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3901	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3902	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3903	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3904	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3905	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3906	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3907	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3908	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3926	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3927	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3928	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3930	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	3951	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3952	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3953	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3955	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3980	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3981	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3982	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	3983	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	4001	Breck Operating C	MCCORMICK		OCD EXEMPT SOILS	15	7	YARDS
7/1/03	4002	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	4003	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	4004	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	4005	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	4006	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/1/03	4007	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/1/03	4305	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3877	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3878	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3879	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3880	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3881	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3909	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/2/03	3931	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/2/03	3932	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS

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P.O. Box 1658 Roswell. NM 88202
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Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
7/23/03	3745	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	14	YARDS
7/23/03	4032	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/23/03	4033	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	14	YARDS
7/23/03	4085	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4086	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4087	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4088	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4089	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4107	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4108	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4109	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4152	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4153	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4154	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4155	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4196	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4197	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4198	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4199	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	4200	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/25/03	4034	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4035	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4036	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4037	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4453	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4454	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4455	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4456	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/25/03	4507	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	3697	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/28/03	3698	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/28/03	3699	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	3700	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4090	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/28/03	4091	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4092	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4093	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4110	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/28/03	4111	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS

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Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
7/28/03	4112	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4113	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4114	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4156	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4157	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4158	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4159	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4398	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4399	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4400	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4501	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/28/03	4502	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4503	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4504	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4505	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4551	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4552	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4553	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/28/03	4556	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4094	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4095	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4096	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4097	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4098	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4115	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4116	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4117	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4118	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4119	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4160	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4161	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4162	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4163	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4164	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4506	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4508	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4509	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4510	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4554	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS

GM inc.

Detailed LOG for OCD material.

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Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
7/29/03	4555	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4557	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4559	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4560	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4561	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4562	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	4563	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	7558	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/29/03	3686	Dynegy Midstrea	SAUNDERS		OCD EXEMPT LIQUIDS		120	BBLS
7/29/03	3696	Dynegy Midstrea	SAUNDERS		OCD EXEMPT LIQUIDS		78	BBLS
7/30/03	4099	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4100	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4120	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4121	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4122	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4123	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4165	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4166	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4511	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4512	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4513	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4514	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4526	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4527	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4564	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4565	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4566	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4567	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4568	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4569	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4570	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4571	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/30/03	4575	Crain Hotoil	ASHIER		OCD EXEMPT LIQUIDS		70	BBLS
7/30/03	4572	Dynegy Midstrea	SAUNDERS		OCD EXEMPT LIQUIDS		110	BBLS
7/30/03	4573	Dynegy Midstrea	SAUNDERS		OCD EXEMPT LIQUIDS		50	BBLS
7/30/03	4578	Dynegy Midstrea	SAUNDERS		OCD EXEMPT LIQUIDS		130	BBLS
7/31/03	4576	Crain Hotoil	HSHER		OCD EXEMPT LIQUIDS		30	BBLS
7/31/03	4577	Crain Hotoil	YATES		OCD EXEMPT LIQUIDS		70	BBLS
7/31/03	4579	Dynegy Midstrea	SAUNDERS		OCD EXEMPT LIQUIDS		70	BBLS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

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P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
7/2/03	3933	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	3934	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	3956	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3957	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3958	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3959	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3960	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3984	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3985	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3986	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	3989	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	4008	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	14	7	YARDS
7/2/03	4009	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	7	YARDS
7/2/03	4226	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4227	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4228	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4229	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4251	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4252	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4253	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4254	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4255	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4256	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4276	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4277	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4278	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4279	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4280	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4306	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	4307	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	4308	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	4309	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	4310	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/2/03	4326	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4327	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4328	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4329	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4351	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4352	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
7/2/03	4353	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4354	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/2/03	4355	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	3882	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3883	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3884	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3885	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3935	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	3936	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	3937	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	3938	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	3939	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	3961	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3962	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3963	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3964	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3987	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3988	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3990	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3991	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3992	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	3993	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4010	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4011	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4201	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4202	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4203	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4204	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4205	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4257	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4258	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4259	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4260	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4281	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4282	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4283	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4284	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4285	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4311	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
7/3/03	4312	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4313	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4314	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4315	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/3/03	4330	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4331	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4332	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4357	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4358	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4359	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	4360	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/3/03	7356	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	3886	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3887	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3888	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3889	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3940	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	3941	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	3942	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	3943	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	3944	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	3965	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3966	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3967	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3968	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3994	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3995	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3996	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	3997	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4012	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4013	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4014	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4015	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4206	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4207	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4208	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4209	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4210	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4261	Breck Operating C	GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
7/4/03	4262	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4263	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4264	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4265	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4286	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4287	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4288	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4289	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4290	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4316	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4317	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4318	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4319	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/4/03	4333	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4334	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4335	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4336	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4337	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4361	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4362	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4363	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4364	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/4/03	4365	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	3890	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3891	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3892	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3945	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	3946	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	3947	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	3948	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	3969	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3970	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3971	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3998	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	3999	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4000	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4016	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4017	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4211	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
7/5/03	4212	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4213	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4266	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4267	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4268	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4291	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4292	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4293	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4320	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4321	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4322	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/5/03	4338	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4339	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4340	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4341	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4366	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4367	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4368	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/5/03	4369	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/8/03	4176	Dynegy Midstrea	CARL LANE JOHN	OCD EXEMPT SOILS	15	10	YARDS
7/9/03	4177	Phoenix Hydrocar	N.M. B#2	OCD EXEMPT SOILS	15	10	YARDS
7/17/03	3727	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	3728	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	3729	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4126	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4178	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4179	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4180	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4181	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4342	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4343	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4344	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/17/03	4345	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	3651	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	3652	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	3730	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	3731	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	3732	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	3733	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
7/18/03	3734	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4018	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4127	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4128	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4129	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4182	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4183	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4184	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4185	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4214	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4215	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4216	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4217	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4346	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4347	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4348	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4349	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/18/03	4451	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/18/03	4452	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3653	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3654	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3655	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3656	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3657	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3658	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3676	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3677	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3678	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3679	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3680	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3681	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	3735	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3736	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3737	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3738	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3739	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4019	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4020	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4021	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
7/21/03	4022	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4076	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4077	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4078	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4079	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4080	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4101	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4102	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4103	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4130	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4131	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4132	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4186	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4187	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4188	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4189	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4190	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/21/03	4218	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4219	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4220	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4221	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	4222	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/21/03	3682	Danny's Hot Oil S	OGS - DJ FEE	OCD EXEMPT LIQUIDS		30	BBLS
7/22/03	3659	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	14	YARDS
7/22/03	3660	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	14	YARDS
7/22/03	3661	Breck Operating C	MCCORMICK	OCD EXEMPT SOILS	15	14	YARDS
7/22/03	3683	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	3740	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/22/03	3741	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/22/03	3742	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	14	YARDS
7/22/03	3743	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	4B	14	YARDS
7/22/03	3744	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	4B	14	YARDS
7/22/03	4023	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4024	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4025	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4026	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4027	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4028	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4029	Breck Operating C	GOLDEN GATE	OCD EXEMPT SOILS	15	24	YARDS



Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:	Origin:	Discription:	Cell:	Units:	
7/22/03	4030	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	14	YARDS
7/22/03	4031	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	14	YARDS
7/22/03	4051	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4052	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4081	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4082	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4083	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4084	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4104	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4105	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4106	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4133	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	14	YARDS
7/22/03	4134	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	14	YARDS
7/22/03	4135	Breck Operating C MCCORMICK		OCD EXEMPT SOILS	15	14	YARDS
7/22/03	4151	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4191	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4192	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4193	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4194	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4195	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4223	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/22/03	4224	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	14	YARDS
7/22/03	4225	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	14	YARDS
7/22/03	4350	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4394	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4395	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/22/03	4396	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/22/03	4397	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/23/03	3684	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	3685	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/23/03	3687	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	3688	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/23/03	3689	Breck Operating C NINE RANCH		OCD EXEMPT SOILS	15	4	YARDS
7/23/03	3690	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	3691	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/23/03	3692	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	3693	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS
7/23/03	3694	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	4B	24	YARDS
7/23/03	3695	Breck Operating C GOLDEN GATE		OCD EXEMPT SOILS	15	24	YARDS

GM inc.

Detailed LOG for OCD material.

OCD

Between 1-1-03 and 8-11-03

Gandy Marley, Inc.
P.O. Box 1658 Roswell. NM 88202
Phone 505-347-0434 Fax 505-347-0435

Date:	Ticket No:	Generator ID:		Origin:	Discription:	Cell:	Units:	
7/31/03	4582	Gandy Corp.	HANNAH		OCD EXEMPT SOILS	15	62	YARDS
8/1/03	4580	Dynegy Midstrea	SAUNDERS		OCD EXEMPT SOILS		50	BBLS
8/1/03	4581	Dynegy Midstrea	SAUNDERS		OCD EXEMPT SOILS		40	BBLS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator TRANSWESTERN PIPE LINE 5. Originating Site STATION 8 CORONA, NM
2. Management Facility Destination GMI LAND FARM	6. Transporter GANDY CORPORATION
3. Address of Facility Operator BOX 1658, ROSWELL,	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) CORONA NEW MEXICO	

9. Circle One:

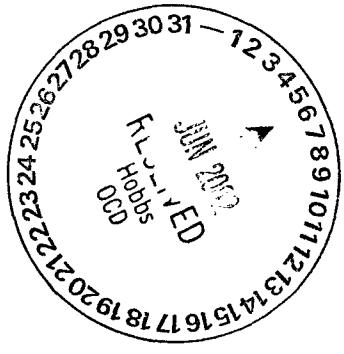
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

NEW LUBE OIL CONTAMINATED DIRT



Estimated Volume 90 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Larry Gandy TITLE: VICE-PRESIDENT DATE: 6-4-02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Environmental Engineer DATE: 6/10/02

06/002-1

GM inc.

COMMERCIAL LAND FARMS

A New Mexico Enterprise
Serving New Mexico's Needs

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Transwestern Pipeline Co C/S #8 Corona, N.M.

Source:

Disposal Location: 34 Miles West of Tatum, NM on Hwy 380

"As a condition of acceptance for disposal, I hereby certify that this waste as defined by the Environmental Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."
In addition, Generator certifies that nothing has been added to the exempt non-exempt non-hazardous waste and that this waste does not contain Naturally Occuring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

JUN 2002 RECEIVED Hobbs OCD

I, the undersigned as the agent for Transwestern Pipeline Co. concur with the status of the waste from the subject site.

Name [redacted] Dustin Tolly

Title/Agency Sr SR O&M Tech Transwestern Pipeline Co.

Address 6381 N Main Street
Roswell, N.M 88201

Signature Dustin A Tolly

Date 05-30-02

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Transwestern Pipeline Co.
Attn: Dustin Jolly
Address: 6381 N. Main Street
Roswell, NM 88201

Phone: (505) 625-8056 FAX: (505) 625-8089

Report#/Lab ID#: 126672 Report Date: 03/13/02
Project ID: Auxillary Dirt
Sample Name: CD 1
Sample Matrix: soil
Date Received: 03/08/2002 Time: 11:16
Date Sampled: 03/07/2002 Time: 11:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN Extraction-TC	---	---	---	---	03/11/02	3550	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	03/11/02	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	03/11/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	03/12/02	3005a	---	---	---	---	---
pH	7.5	pH units	---	---	03/13/02	9045	---	1.3	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	03/08/02	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	03/08/02	1311	---	---	---	---	---
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	03/12/02	6010 & 200.7	J	0.79	99.56	101.4	101.2
TCLP-Barium/ICP	<5	mg/L	5	<5	03/12/02	6010 & 200.7	---	0.59	96.53	100.04	99.53
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	03/12/02	6010 & 200.7	---	6.93	109.25	101.48	109.33
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	03/12/02	6010 & 200.7	---	0.05	100.08	98.99	102.34
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	03/12/02	6010 & 200.7	---	0.66	99.09	99.24	100.9
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	03/08/02	245.2&7471	---	1.65	94.77	88	86.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	03/12/02	6010 & 200.7	---	1.24	101.82	101.06	103.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	03/12/02	6010 & 200.7	---	1.42	97.6	103.4	101.95
Reactivity cyanide	<10	mg/Kg	10	<10	03/11/02	9010	---	1.23	112.05	100.93	94.43
Reactivity sulfide	<20	mg/Kg	20	<20	03/11/02	376.1&9030	---	0	95.63	100	-NA-
Extractable organics-TC	---	---	---	---	03/12/02	8270c	---	---	---	---	---
Volatile organics-TC	---	---	---	---	03/11/02	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	03/11/02	8260b	---	1.7	98.5	106.3	80
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	03/11/02	8260b	---	3.1	113.9	127.9	97.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

03/19/02 TUE 08:29 FAX 512 447 4766 ANALYSYS, INC. 004

ANALYSIS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Transwestern Pipeline Co.	**Project ID:** Auxillary Dirt	**Report#/Lab ID#:** 126672
Attn: Dustin Jolly	**Sample Name:** CD 1	**Sample Matrix:** soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	03/11/02	8260b	---	1.6	108.7	109.6	100.4
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	03/11/02	8260b	---	6.5	48.8	101.3	103.3
TCLP-Benzene	<200	µg/L	200	<200	03/11/02	8260b	---	1.3	100.2	121.2	82.4
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	03/11/02	8260b	---	0.7	116.8	127.6	91.9
TCLP-Chlorobenzene	<50	µg/L	50	<50	03/11/02	8260b	---	0.7	113.1	114.3	94.4
TCLP-Chloroform	<1000	µg/L	1000	<1000	03/11/02	8260b	---	0.9	107.4	109.3	87.9
TCLP-Tetrachloroethene	<500	µg/L	500	<500	03/11/02	8260b	---	9.5	104.2	110.7	87.2
TCLP-Trichloroethene	<200	µg/L	200	<200	03/11/02	8260b	---	1.5	101.7	111.2	88.4
TCLP-Vinyl chloride	<100	µg/L	100	<100	03/11/02	8260b	---	0.4	101.1	109.7	74.5
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	03/12/02	8270c	---	12.2	74.8	94.7	66.4
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	03/12/02	8270c	---	15.1	77.9	98.1	70.2
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	03/12/02	8270c	---	21.7	81.8	96.9	83.2
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	03/12/02	8270c	---	9.1	61.2	100.9	74.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	03/12/02	8270c	---	10.7	96.8	99.3	127.3
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	03/12/02	8270c	---	8.2	77.4	99	74.4
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	03/12/02	8270c	---	13.3	67.1	102.8	68.6
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	03/12/02	8270c	---	11.6	51.7	94.9	65.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	03/12/02	8270c	---	13.2	73	98.1	74.1
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	03/12/02	8270c	---	8.3	91.6	97.4	100
TCLP-Pyridine	<1000	µg/L	1000	<1000	03/12/02	8270c	---	16.2	58.1	106.9	84.1

03/19/02 TUE 09:30 FAX 512 447 1788 ANALYSIS, INC. 005

ANALYSIS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Transwestern Pipeline Co.	Project ID: Auxillary Dirt	Report#/Lab ID#: 126672
Attn: Dustin Jolly	Sample Name: CD 1	Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
TCLP-1,2-Dichloroethane-d4	8260b	111.6	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.8	86-115	---
TCLP-Toluene-d8	8260b	98.7	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	51.8	10-123	---
TCLP-2-Fluorobiphenyl	8270c	59	43-116	---
TCLP-2-Fluorophenol	8270c	45.9	21-100	---
TCLP-Nitrobenzene-d5	8270c	60.9	35-114	---
TCLP-Phenol-d5	8270c	51.6	10-94	---
TCLP-Terphenyl-d14	8270c	56.7	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

02/18/02 11:31 FAX 512 447 4766 ANALYSIS, INC. 006

Exceptions Report:

Report #/Lab ID#: 126672 **Matrix:** soil
Client: Transwestern Pipeline Co. **Attn:** Dustin Jolly
Project ID: Auxillary Dirt
Sample Name: CD 1

Sample Temperature/Condition Ambient

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TCLP-Arsenic/ICP	J	See J-flag discussion above.

Notes:

CHAIN-OF-CUSTODY

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Report to:
Company Name: Transwestern Pipeline Co
Address: 6381 N Main Street
City: Roswell State: N.M Zip: 88201
ATTN: Dustin Jolly
Phone: 505-625-8056 Fax: 505-625-8089

Bill to (if different):
Company Name: Same
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: Auxillary Dist Sampler: Dustin Jolly

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	RCI	VOLS TCLP	SEMI VOLS TCLP	TCLP METALS	TPH 418.1	BTEX			Comments
[redacted] AUX 2	3-7-02	11:00	2	X			126671	[redacted]				X	X			
[redacted] CD1	3-7-02	11:15	2	X			126672	X	X	X	X					

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Dustin Jolly	Transwestern Pipeline	3-07-02	1300Hrs	Melonie Humphrey	ASI	3/8/02	11:16

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
tesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
ec, NM 87410
istrict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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DEC 26 2001
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Liquid Transports 5. Originating Site 12 miles West Crossroads, NM
2. Management Facility Destination GANDY-MARLEY, Inc.	6. Transporter Gandy Corporation
3. Address of Facility Operator P.O. Box 1658 Roswell, NM 88201	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	34 miles west of Tatum NM on hwy 380.

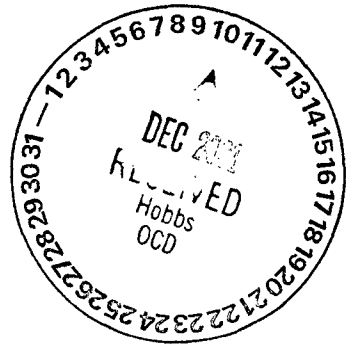
9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Contaminated soil from transport spill.



Estimated Volume 500 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry D Gandy (Waste Management Facility Authorized Agent) TITLE: Vice-President DATE: 12/ 06/01

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Jack Johnson TITLE: ENVIRO ENGR HOBBS OCD DATE: 12/14-01

APPROVED BY: [signature] TITLE: Environmental Geologist DATE: 12-26-01

122601-1

COMMERCIAL LAND FARMS

A New Mexico Enterprise
Serving New Mexico's Needs

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

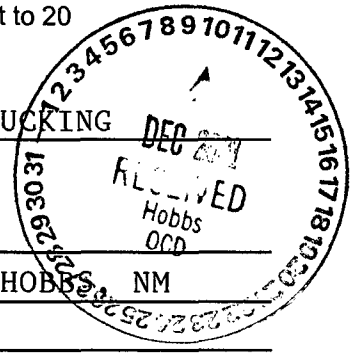
Originating Location: 12 MILES WEST OF CROSSROADS, NEW MEXICO

Source: SPILL FROM OVERTURNED OIL TRANSPORT HAULER

Disposal Location: 34 Miles West of Tatum, NM on Hwy 380

"As a condition of acceptance for disposal, I hereby certify that this waste as defined by the Environmental Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."
In addition, Generator certifies that nothing has been added to the exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occuring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

I, the undersigned as the agent for LIQUID TRANSPORT TRUCKING concur with the status of the waste from the subject site.



Name: DON COOPER

Title/Agency: STATION MANAGER, HOBBS, NM

Address: 2000 EAST SUPERIOR STREET
ALMA, MICHIGAN 48801

Signature: Donald H Cooper

Date: 11-27-01

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name:	Liquid Transport Trucking	BILL TO PO #:	
Project Manager:	Christy Choyle	Company:	Gandy Corp.
Address:	2000 E. Superior Street	Attn:	Larry
City:	Alma State: MI Zip: 48801	Address:	Box 827
Phone #:	900 452-0121	City:	Tatum
Fax #:	517-463-5606	State:	nm Zip: 88267
Project #:	Project Owner: Vincent Wells	Phone #:	398-4960
Project Name:	Truck Wreck	Fax #:	398-6887
Project Location:	12 mi. West of Cross Roads.		

FOR LAB USE ONLY				MATRIX							PRES.			SAMPLING		ANALYSIS REQUEST								
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME	TCLP metals	TCLP - Semi; Vols	TCLP Vol.	RCI						
H2951	GMI 1101	G				X					X		11-26-01	10:39	X	X	X	X						

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

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: Larry Gandy	Date: 11-26-01 Time: 10:30	Received By:	Phone Result: ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 11/26/01 Time: 12:30	Received By: (Lab Staff) Daniel Mann	Fax Result: ☒ Yes ☐ No 398-6887 REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

12/05/2001 09:45 5053932476 CARDINAL LAB HOBBS PAGE 01

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LIQUID TRANSPORT TRUCKING
ATTN: CHRISTY OBOYLE
2000 E. SUPERIOR ST.
ALMA, MI 48801
FAX TO: (517) 463-5606
& (505) 398-6887

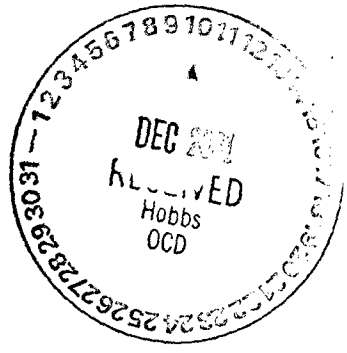
Receiving Date: 11/26/01
Reporting Date: 11/28/01
Project Owner: VINCENT HELD, SR.
Project Name: TRUCK WRECK
Project Location: 12 MI. WEST OF CROSS ROADS
Lab Number: H6295-1
Sample ID: GMI 1101

Analysis Date: 11/27/01
Sampling Date: 11/26/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H6295-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.112	112	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.086	86	0.100
Benzene	0.5	0.011	<0.005	0.094	94	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.083	83	0.100
Trichloroethylene	0.5	0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.091	91	0.100
Chlorobenzene	100	<0.005	<0.005	0.095	95	0.100
1,4-Dichlorobenzene	7.5	<0.005	0.007	0.098	98	0.100

% RECOVERY	
Dibromofluoromethane	113
Toluene-d8	104
Bromofluorobenzene	108

METHODS: EPA SW 846-8260, 1311



Burgess J.A. Cooke, Ph. D.

11/28/01
Date

LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. ll claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable ervice. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, ffiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

12/05/2001 09:45 5053932476 CARDINAL LAB HOBBS PAGE 03

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LIQUID TRANSPORT TRUCKING
ATTN: CHRISTY OBOYLE
2000 E. SUPERIOR ST.
ALMA, MI 48801
FAX TO: (517) 463-5606
& (505) 398-6887

Receiving Date: 11/26/01
Reporting Date: 12/03/01
Project Owner: VINCENT HELD, SR.
Project Name: TRUCK WRECK
Project Location: 12 MI. WEST OF CROSS ROADS

Sampling Date: 11/26/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		11/30/01	11/30/01	11/26/01	12/03/01
H6295-1	GMI 1101	Not reactive	Not reactive	8.29	Nonflammable
Quality Control		NR	NR	7.03	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.1	NR

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, *40 CFR 261*

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OCD

Chemist

12/5/01
Date

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

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LIQUID TRANSPORT TRUCKING
ATTN: CHRISTY OBOYLE
2000 E. SUPERIOR ST.
ALMA, MI 48801
FAX TO: (517) 463-5606
& (505) 398-6887

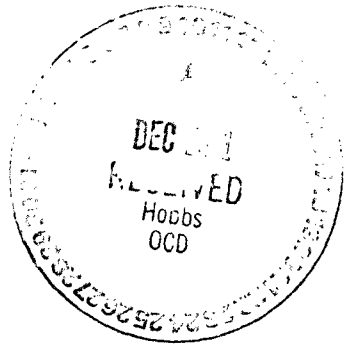
Receiving Date: 11/26/01
Reporting Date: 12/04/01
Project Owner: VINCENT HELD, SR.
Project Name: TRUCK WRECK
Project Location: 12 MI. WEST OF CROSS ROADS
Lab Number: H6295-1
Sample ID: GMI 1101

Analysis Date: 12/04/01
Extraction Date: 11/28/01
Sampling Date: 11/26/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H6295-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.016	32	0.050
1,4-Dichlorobenzene	7.50	<0.020	0.009	0.026	52	0.050
o-Cresol	200	<0.020	<0.005	0.030	60	0.050
m, p-Cresol	200	<0.020	<0.005	0.028	56	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.030	60	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.038	76	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.043	86	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.039	78	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.020	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	27
Phenol-d5	36
Nitrobenzene-d5	38
2-Fluorobiphenyl	40
2,4,6-Tribromophenol	60
Terphenyl-d14	52

METHODS: EPA SW-846 1311, 8270, 3510



Burgess A. Cooke, Ph. D.

12/4/01
Date

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

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LIQUID TRANSPORT TRUCKING
ATTN: CHRISTY OBOYLE
2000 E. SUPERIOR STREET
ALMA, MI 48801
FAX TO: (517)463-5608 &
(505) 398-6687

Receiving Date: 11/26/01
Reporting Date: 12/03/01
Project Owner: VINCENT HELD
Project Name: TRUCK WRECK
Project Location: 12 MI. WEST OF CROSSROADS

Sampling Date: 11/26/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

TCLP METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		11/30/01	11/28/01	11/28/01	11/28/01	11/28/01	11/28/01	11/28/01	12/01/01
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H6295-1	GMI 1101	<1	<1	<10	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.152	4.946	22.10	1.014	4.664	4.666	0.0092	0.051
True Value QC		0.150	5.000	25.00	1.000	5.000	5.000	0.0100	0.050
% Accuracy		101	98.9	88.4	101	93.3	93.3	92.0	102
Relative Percent Difference		2.0	0.1	1.8	0.2	0.9	0.9	7.7	0.3
METHODS: EPA 1311, 600/4-79		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

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OCD

Chemist

12/04/2001
Date

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

H6295m

Phone Call
Date: 11-26-01
From: Larry Gandy, Gandy Marley landfarm
To: Martyne Kieling OCD

Re: Crude oil truck spill over the weekend in the bar ditch near Crossroads. Waste is classified as non-exempt. I approved it to go to the Gandy Marley Landfarm to be stockpiled pending Analysis. The truck originated from the Southwest Royalties Flying M Battery # 2. The truck lost approx 180 bbl and they recovered 40 bbls from the bar ditch. The spill ran approximately 3/10 mile and will generate approximately 200 cy.

O. Box 1980
obbs, NM 88241-1980
District II - (505) 748-1283
1 S. First
rtesia, NM 88210
District III - (505) 334-6178
00 Rio Brazos Road
ec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: XX	4. Generator El Paso Nat. Gas
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Roswell Station
2. Management Facility Destination 37 miles East of Roswell	6. Transporter Gandy
3. Address of Facility Operator P.O. Box 1658 Roswell, NM	8. State New MEXICO
7. Location of Material (Street Address or ULSTR)	28 miles North of Roswell on Hiway 285

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

MATERIAL FROM LINE PIGGING

RECEIVED
DEC 20 1999
Environmental Bureau
Oil Conservation Division

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: V-P DATE: 10-29-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-16-99

APPROVED BY: [signature] TITLE: Envir. Bureau Chief DATE: 12/20/99

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: ROSWELL STATION
Portion of lots 1 & 6, Sec. 18, T-7-S, R-24-E, Chaves County

Source: LINE PIGGING-- APPROXIMATELY 100 bbls
EPNG Pipeline No. 1300

Disposal Location: GMI-37 MILES EAST OF ROSWELL, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for EL PASO NATURAL GAS concur with the status of the waste from the subject site.

Name RICHARD DUARTE 505/831-7763
Title/Agency Principle Environmental Engineer
El Paso Natural Gas Company
Address 3801 Atrisco Blvd
Albuquerque, NM 87120
Signature Richard Duarte
Date 10-29-99

SAMPLE KEY

SAMPLE NUMBER: S99-0256 LOCATION: ROSWELL P/L DISTRICT
MATRIX: WATER
SAMPLE DESCRIPTION: PIG WASH LIQUID
S D CONTINUED: 1300 LINE
S D CONTINUED: LINCOLN STATION TO ROSWELL STATION
SAMPLE TIME: 12:00 SAMPLE DATE: 10/06/99

SAMPLE KEY

SAMPLE NUMBER: S99-0257 LOCATION: ROSWELL P/L DISTRICT
MATRIX: OIL
SAMPLE DESCRIPTION: PIGGING LIQUID
S D CONTINUED: 1300 LINE
S D CONTINUED: LINCOLN STATION TO ROSWELL STATION
SAMPLE TIME: 12:15 SAMPLE DATE: 10/06/99

SAMPLE KEY

SAMPLE NUMBER: S99-0258 LOCATION: ROSWELL P/L DISTRICT
MATRIX: SLUDGE
SAMPLE DESCRIPTION: PIGGING SLUDGE
S D CONTINUED: 1300 LINE
S D CONTINUED: LINCOLN STATION TO ROSWELL STATION
SAMPLE TIME: 12:30 SAMPLE DATE: 10/06/99

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Irvine

Southern California Division
3189 Airway Ave., Bldg. C • Costa Mesa, CA 92626
(714) 437-5200 • Fax: (714) 556-5625
1-800-320-6595

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Roswell P/L Piggins NEL ORDER ID: P9910022
PROJECT #: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were received by NEL in good condition, under chain of custody on 10/7/99.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Js - This result may be biased due to a matrix phenomena. Tha sample QC was outside acceptance criteria in duplicate analysis.

Some surrogate results have been flagged as follows:

D - Sample was run at dilution. Surrogates were diluted outside calibration range.

Greg Anderson
Laboratory Manager

10-15-99
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California		Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified		Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	S99-0256
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-01
TEST:	**Inorganic Non-Metals**		
MATRIX:	Aqueous		

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND		0.1	5	SW846 Chapter Seven	mg/L	10/12/99
Flashpoint	>200		200.	1	EPA 1010	°F	10/11/99
pH	7.79		2.	1	EPA 150.1	pH Units	10/13/99
pH Temperature	15.8			1	EPA 150.1	°C	10/13/99
Sulfide, Reactive	2.2	Js	0.15	5	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: S99-0258 sludge
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-03

TEST: **Inorganic Non-Metals**
MATRIX: Solid

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	10/12/99
Ignitability	>200	150.	1	EPA 1010	°F	10/11/99
pH	6.73	2.	1	EPA 9045B	pH Units	10/13/99
Sulfide, Reactive	35	5.	250	SW846 Chapter Seven	mg/kg	10/12/99

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	991012CNREAC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	mg/L	ANALYZED
Cyanide, Reactive	ND	0.02	1	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	991012SULFREAC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	mg/L	ANALYZED
Sulfide, Reactive	ND	0.03	1	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0256**
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-01

TEST: **TCLP-8 Metals**
MATRIX: Aqueous

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	0.76	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Barium	1.4	1. mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Chromium	0.079	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	NA	10/12/99	10/12/99
Selenium	ND	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	NA	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0258**
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-03

TEST: **TCLP-8 Metals**
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	4.6 ← OK	1. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Barium	12	10. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Cadmium	ND	0.1 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Chromium	0.51	0.1 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Lead	ND	0.5 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	10/11/99	10/12/99	10/12/99
Selenium	ND	1. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Silver	ND	0.2 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P10021-THg-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Mercury	ND	0.002 mg/L	10	EPA 7470A	NA	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	P10021i-T8-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Barium	ND	1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Selenium	ND	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	NA	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	S99-0256
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-01

TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260B	TCLP EXTRACT DATE:	NA
MATRIX:	Aqueous	EXTRACTED	10/12/99
DILUTION:	1	ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
Benzene	ND	0.1 mg/L
Carbon Tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
Methyl ethyl ketone (MEK)	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene (TCE)	ND	0.1 mg/L
Vinyl Chloride	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	109	79 - 131 %
Dibromofluoromethane	91	77 - 136 %
Toluene-d8	108	89 - 118 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0256**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-01

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, December 1996.**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	NA
MATRIX:	Aqueous	EXTRACTED	10/9/99
DILUTION:	1	ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (Isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	11	10 - 170 %
2-Fluorobiphenyl	58	10 - 146 %
2-Fluorophenol	10	10 - 167 %
Nitrobenzene-d5	104	10 - 139 %
p-Terphenyl-d14	58	10 - 183 %
Phenol-d5	37	10 - 140 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0258**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-03

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260A	TCLP EXTRACT DATE:	10/8/99
MATRIX:	Solid	EXTRACTED	10/12/99
DILUTION:	1	ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon Tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl Chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	98	79 - 131 %
Dibromofluoromethane	86	77 - 136 %
Toluene-d8	105	89 - 118 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	S99-0258
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-03

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996.**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	10/7/99
MATRIX:	Solid	EXTRACTED	10/9/99
DILUTION:	1	ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3-Methylphenol	ND	0.1 mg/L
4-Methylphenol	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	26	10 - 170 %
2-Fluorobiphenyl	44	10 - 146 %
2-Fluorophenol	81	10 - 167 %
Nitrobenzene-d5	74	10 - 139 %
p-Terphenyl-d14	44	10 - 183 %
Phenol-d5	32	10 - 140 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	100899-8260T-BLK
TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260B	TCLP EXTRACT DATE:	10/8/99
MATRIX:	TCLP Extract	EXTRACTED	10/12/99
		ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
Chlorobenzene	ND	0.1 mg/L
Vinyl Chloride	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
Methyl ethyl ketone (MEK)	ND	2 mg/L
Benzene	ND	0.1 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Carbon Tetrachloride	ND	0.1 mg/L
Trichloroethene (TCE)	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	79 - 131
Dibromofluoromethane	94	77 - 136
Toluene-d8	103	89 - 118

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	100999-8270T-BLK

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270A, July 1992.**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	10/7/99
MATRIX:	TCLP Extract	EXTRACTED	10/9/99
		ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3-Methylphenol	ND	0.1 mg/L
4-Methylphenol	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L
Phenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	10	10 - 170
2-Fluorobiphenyl	95	10 - 146
2-Fluorophenol	88	10 - 167
Nitrobenzene-d5	96	10 - 139
p-Terphenyl-d14	106	10 - 183
Phenol-d5	63	10 - 140

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,1-Dichloroethene (1,1-DCE)	100899-8260T-LCS	50	51.1	102	51 - 145	
1,1-Dichloroethene (1,1-DCE)	100899-8260T-LCSD	50	49.6	99	51 - 145	3.
Benzene	100899-8260T-LCS	50	56.6	113	61 - 133	
Benzene	100899-8260T-LCSD	50	58.8	118	61 - 133	3.8
Chlorobenzene	100899-8260T-LCS	50	56	112	61 - 136	
Chlorobenzene	100899-8260T-LCSD	50	56.3	113	61 - 136	0.5
Toluene	100899-8260T-LCS	50	59.6	119	67 - 133	
Toluene	100899-8260T-LCSD	50	61.1	122	67 - 133	2.5
Trichloroethene (TCE)	100899-8260T-LCS	50	57.4	115	61 - 138	
Trichloroethene (TCE)	100899-8260T-LCSD	50	59.5	119	61 - 138	3.6

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996.**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,4-Dichlorobenzene (p-DCB)	100999-8270T-LCS	40	38	95	3 - 114	
1,4-Dichlorobenzene (p-DCB)	100999-8270T-LCSD	40	40.5	101	3 - 114	6.4
2,4-Dinitrotoluene (DNT)	100999-8270T-LCS	40	34.9	87	10 - 126	
2,4-Dinitrotoluene (DNT)	100999-8270T-LCSD	40	41.4	104	10 - 126	17.
Pentachlorophenol	100999-8270T-LCS	100	96.5	97	6 - 112	
Pentachlorophenol	100999-8270T-LCSD	100	103	103	6 - 112	6.5

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	P10021-THg-LCS	0.005	0.00521	104	85 - 115	
Mercury	P9910021-01-MS	0.05	0.0529	102	85 - 115	
Mercury	P9910021-01-MSD	0.05	0.0565	109	85 - 115	6.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: TCLP/STLC Metals
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Arsenic	P10021i-T8-LCS	0.5	0.509	102	85 - 115	
Arsenic	P9910021-01-MS	5	10.7	106	75 - 125	
Arsenic	P9910021-01-MSD	5	10.7	106	75 - 125	0.
Silver	P10021i-T8-LCS	0.5	0.475	95	85 - 115	
Silver	P9910021-01-MS	5	4.4	88	75 - 125	
Silver	P9910021-01-MSD	5	4.51	90	75 - 125	2.5
Barium	P10021i-T8-LCS	1	0.919	92	85 - 115	
Barium	P9910021-01-MS	10	18.3	94	75 - 125	
Barium	P9910021-01-MSD	10	18.3	94	75 - 125	0.
Cadmium	P10021i-T8-LCS	0.2	0.197	99	85 - 115	
Cadmium	P9910021-01-MS	2	2.03	102	75 - 125	
Cadmium	P9910021-01-MSD	2	2.03	102	75 - 125	0.
Chromium	P10021i-T8-LCS	0.5	0.499	100	85 - 115	
Chromium	P9910021-01-MS	5	5.45	101	75 - 125	
Chromium	P9910021-01-MSD	5	5.47	101	75 - 125	0.4
Lead	P10021i-T8-LCS	1	1.01	101	85 - 115	
Lead	P9910021-01-MS	10	10.3	103	75 - 125	
Lead	P9910021-01-MSD	10	10.2	102	75 - 125	1.
Selenium	P10021i-T8-LCS	0.5	0.52	104	85 - 115	
Selenium	P9910021-01-MS	5	4.62	92	75 - 125	
Selenium	P9910021-01-MSD	5	4.53	91	75 - 125	2.

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

EL PASO NATURAL GAS

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	Roswell P/L Pigging	Darrell Campbell	10/6/99

CONTRACT LABORATORY: NEL - SoCal

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	TCLP Metals (6)	TCLP 8260	TCLP 8270	Reactivity, Corr.	FSH		REMARKS
	10/6/99	1200	Water	599-0256	7	C	X	X	X	XX	X		
	10/6/99	1215	Oil ~~Sludge~~	599-0257	1	G	X	X	X	XX	X		
	10/6/99	1230	Sludge	599-0258	1	G	X	X	X	XX	X		Sample Weights: (BS Rcd: 10/7/99 10:10am Received Plastic ice

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Darrell Campbell	10/6/99 1830	10/7/99 BSoltys 10:10AM 4.3°C			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☒ RUSH ASAP

CARRIER CO.:

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev. 4-96)

NORM ANAYSIS

ROSWELL P/L DISTRICT

SAMPLE NUMBER	SAMPLE DATE	SAMPLE DESCRIPTION	MATRIX	GROSS ALPHA (DPM)	RPU	GROSS BETA (DPM)	RPU	TOTAL	Pb-210 (pCi/g)	RPU	Ra-226 (pCi/g)	RPU (%)	Ra-228 (pCi/g)	RPU (%)
S99-0257	10/06/99	PIGGING LIQUID	OIL						74.4	12.1				
S99-0258	10/06/99	PIGGING SLUDGE	SLUDGE						130.5	6.6				

obbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
rtesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
ec, NM 87410
strict IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/9

Submit Origina
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator TRANSWESTERN PIPELINE CO.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site STATION 9
2. Management Facility Destination GANDY MARLEY, LANDFARM	6. Transporter GANDY CORP.
3. Address of Facility Operator 34 MILES WEST OF TATUM	8. State NM
7. Location of Material (Street Address or ULSTR) NORTH OF ROSWELL ON HIWAY 285	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

PETROLEUM CONTAMINATED SOIL FROM PIT USED TO MANAGE PIPELINE LIQUIDS

RECEIVED
Hobbs
OCD

Estimated Volume 3000 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: VICE-PRESIDENT DATE: 11-08-01
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: [signature] TITLE: ENVIRO. ENGR DATE: 11/19/01

APPROVED BY: [signature] TITLE: Environmental Geologist DATE: 11-27-01

11201-1



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL



COMMERCIAL LAND FARMS
A New Mexico Enterprise
Serving New Mexico's Needs

CERTIFICATE OF WASTE STATUS

[redacted]

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Transwestern Pipeline Company
Roswell Compressor Station No. 9

Source: Petroleum hydrocarbon affected soil excavated from an earthen impoundment that had been used to manage pipeline liquids.

Disposal Location: 34 Miles West of Tatum, NM on Hwy 380

"As a condition of acceptance for disposal, I hereby certify that this waste as defined by the Environmental Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my [redacted] Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."
In addition, Generator certifies that nothing has been added to the exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occuring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

[redacted] Transwestern Pipeline Company concur with the status of the waste from the subject site.

Name [redacted]

Title/Agency DIRECTOR ENVIRONCNTRL AFFAIRS

Address P. O. BOX 1188
Houston, TX 77251

[redacted] Nov 6, 2001

Date

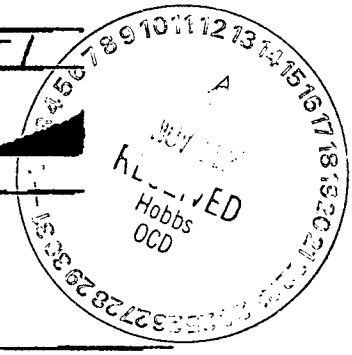
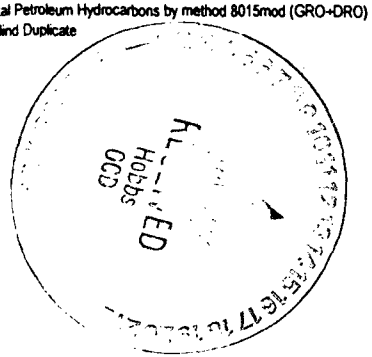


Table 1. Summary of Analytical Results for RCRA Waste Characterization of the Pit 1 and Pit 2 Areas
Compressor Station No. 9 - Roswell, NM

Sample ID	Sampling Date	Ignitability (F)	pH (units)	TPH, GRO+DRO (mg/kg)	Reactivity cyanide (mg/kg)	Reactivity sulfide (mg/kg)	TCLP Metals (mg/L)								TCLP VOCs (mg/L)												TCLP SVOCs (mg/L)									
							Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	1,1-Dichloroethene	1,2-Dichloroethane	1,4-Dichlorobenzene	2-Butanone (MEK)	Benzene	Carbon Tetrachloride	Chlorobenzene	Chloroform	Tetrachloroethene	Trichloroethene	Vinyl Chloride	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dinitrotoluene	2-Methylphenol	3&4-Methylphenol	Hexachlorobenzene	Hexachlorobutadiene	Hexachloroethane	Nitrobenzene	Pentachlorophenol	Pyridine
RCRA Regulatory Levels:		<140	<2.0 >12.5	—	<250	<500	5.0	100	1.0	5.0	5.0	0.2	1.0	5.0	0.7	0.5	7.5	200.0	0.5	0.5	100.0	6.0	0.7	0.5	0.2	400.0	2.0	0.13	200.0	200.0	0.1	0.5	3.0	2.0	100.0	5.0
Pit #2 - Trench #1 @ 4'	09/06/01	NI	7.4	131	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #1 @ 8'	09/06/01	NI	7.1	3733	<10	160	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #1 @ 12'	09/06/01	NI	7.1	1249	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #2 @ 4'	09/06/01	NI	7.2	803	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #2 @ 8'	09/06/01	NI	7.6	4310	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #2 @ 12'	09/06/01	NI	7.8	1070	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #2 B.D.	09/06/01	NI	7.6	1839	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #3 @ 4'	09/06/01	NI	7.4	880	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #3 @ 8'	09/06/01	NI	7.5	958	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #2 - Trench #3 @ 12'	09/06/01	NI	7.7	1179	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #1 @ 4'	09/06/01	NI	7.2	2022	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #1 @ 8'	09/06/01	NI	7.4	836	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #1 @ 12'	09/06/01	NI	7.2	1019	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #2 @ 4'	09/06/01	NI	7.5	2045	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #2 @ 8'	09/06/01	NI	7.1	523	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #2 @ 12'	09/06/01	NI	7.0	1923	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #2 @ B.D.	09/06/01	NI	7.0	3116	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #2 B.D. #2	09/06/01	NI	6.9	3229	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #3 @ 4'	09/06/01	NI	7.5	4439	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #3 @ 8'	09/06/01	NI	9.1	6260	<10	<20	1.41	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #3 @ 10'	09/06/01	NI	8.0	9660	<10	<20	2.18	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0
Pit #1 - Trench #3 @ 12'	09/06/01	NI	7.5	2207	<10	<20	<0.5	<5	<0.1	<0.5	<0.2	<0.04	<0.1	<0.2	<0.5	<0.2	<1.0	<5.0	<0.2	<0.2	<0.05	<1.0	<0.5	<0.2	<0.1	<5.0	<1.0	<0.1	<1.0	<1.0	<0.1	<0.2	<1.0	<1.0	<1.0	<1.0

Notes:
NI - Not Ignitable
"—" - No applicable RCRA regulatory limit
TPH - Total Petroleum Hydrocarbons by method 8015mod (GRO+DRO)
"B.D." - Blind Duplicate



ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119076 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 4'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 08:52

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
A/BN extraction-TC	---	---	---	---	09/13/01	3550	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.4	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	79.5	mg/Kg	5	<5	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	51.9	mg/Kg	5	<5	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	J	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	109.3	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS Inc.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 4'

Report#/Lab ID#: 119076
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	21.9	84.9	85.8	109.7
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	18.7	100.5	114.7	112.9
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	29.4	77.6	98.7	95.6
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	9	74.1	109.2	75.5
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.3	132.7	108.6	131.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	14.6	100.2	111	107.4
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	7.6	115	116.6	115.3
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	14	86.8	98.2	136.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.3	138.3	104.9	137
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	2.3	113.6	113.5	65.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	8	91.4	104.9	113.4

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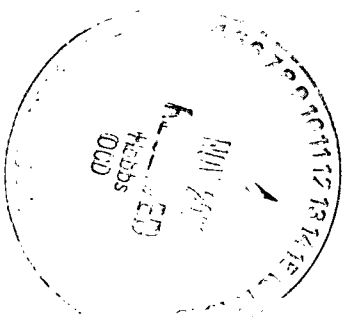
4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering **Attn:** George Robinson	**Project ID:** CES/ENRON/TWP Roswell Sta. #9 Pit Samp. **Sample Name:** PIT #2 TRENCH 1 @ 4'	**Report#/Lab ID#:** 119076 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	95.5	50-150	---
p-Terphenyl	8015 mod.	122	50-150	---
TCLP-1,2-Dichloroethane-d4	8260b	98.7	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.4	86-115	---
TCLP-Toluene-d8	8260b	95.8	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	94	10-123	---
TCLP-2-Fluorobiphenyl	8270c	79.6	43-116	---
TCLP-2-Fluorophenol	8270c	65	21-100	---
TCLP-Nitrobenzene-d5	8270c	74.9	35-114	---
TCLP-Phenol-d5	8270c	75.1	10-94	---
TCLP-Terphenyl-d14	8270c	99.3	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119076 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 4'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

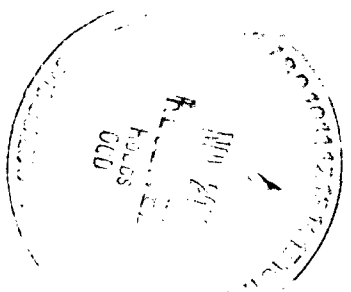
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Barium/ICP	J	See J-flag discussion above.

Notes:



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Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 4'

Report#/Lab ID#: 119076
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	95.5	50-150	---
p-Terphenyl	8015 mod.	122	50-150	---
TCLP-1,2-Dichloroethane-d4	8260b	98.7	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.4	86-115	---
TCLP-Toluene-d8	8260b	95.8	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	94	10-123	---
TCLP-2-Fluorobiphenyl	8270c	79.6	43-116	---
TCLP-2-Fluorophenol	8270c	65	21-100	---
TCLP-Nitrobenzene-d5	8270c	74.9	35-114	---
TCLP-Phenol-d5	8270c	75.1	10-94	---
TCLP-Terphenyl-d14	8270c	99.3	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119077 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 8'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/14/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.1	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	963	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	2770	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	160	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	109.3	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Client: Cypress Engineering
Attn: George Robinson

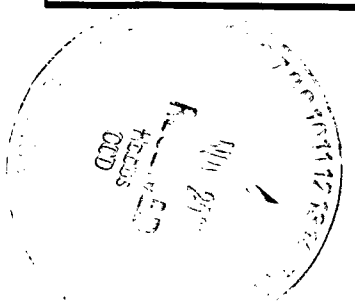
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 8'

Report#/Lab ID#: 119077
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	6.3	59.9	102.6	67.5



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Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 8'

Report#/Lab ID#: 119077
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	87.9	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.4	86-115	---
TCLP-Toluene-d8	8260b	93.4	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	72.7	10-123	---
TCLP-2-Fluorobiphenyl	8270c	54.8	43-116	---
TCLP-2-Fluorophenol	8270c	42	21-100	---
TCLP-Nitrobenzene-d5	8270c	47.3	35-114	---
TCLP-Phenol-d5	8270c	50	10-94	---
TCLP-Terphenyl-d14	8270c	81	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119077 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 8'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

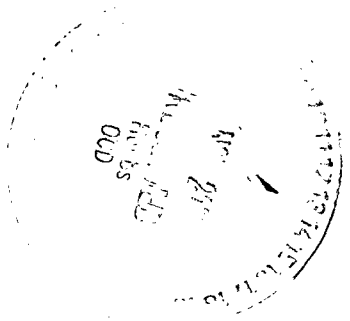
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119078 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 12'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 09:09

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/14/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.1	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	337	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	912	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	109.3	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000. AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Client: Cypress Engineering
Attn: George Robinson

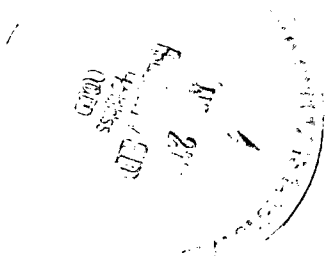
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 12'

Report#/Lab ID#: 119078
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	6.3	59.9	102.6	67.5



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Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 12'

Report#/Lab ID#: 119078
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	89.8	80-120	---
TCLP-4-Bromofluorobenzene	8260b	93.7	86-115	---
TCLP-Toluene-d8	8260b	96.3	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	82.4	10-123	---
TCLP-2-Fluorobiphenyl	8270c	73	43-116	---
TCLP-2-Fluorophenol	8270c	60.9	21-100	---
TCLP-Nitrobenzene-d5	8270c	70.1	35-114	---
TCLP-Phenol-d5	8270c	68.7	10-94	---
TCLP-Terphenyl-d14	8270c	90.5	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119078 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 1 @ 12'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

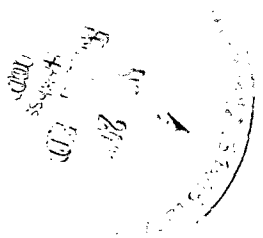
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Selenium/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119079 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 4'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 09:44

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/15/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.2	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	708	mg/Kg	5	<5	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	95.3	mg/Kg	5	<5	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	109.3	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Client: *Cypress Engineering*
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 4'

Report#/Lab ID#: 119079
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	6.3	59.9	102.6	67.5



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Client: Cypress Engineering **Attn:** George Robinson	**Project ID:** CES/ENRON/TWP Roswell Sta. #9 Pit Samp. **Sample Name:** PIT #2 TRENCH 2 @ 4'	**Report#/Lab ID#:** 119079 **Sample Matrix:** soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	111	50-150	---
p-Terphenyl	8015 mod.	82.7	50-150	---
TCLP-1,2-Dichloroethane-d4	8260b	89.7	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.1	86-115	---
TCLP-Toluene-d8	8260b	99	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	66.5	10-123	---
TCLP-2-Fluorobiphenyl	8270c	54.3	43-116	---
TCLP-2-Fluorophenol	8270c	44.5	21-100	---
TCLP-Nitrobenzene-d5	8270c	49.9	35-114	---
TCLP-Phenol-d5	8270c	51.3	10-94	---
TCLP-Terphenyl-d14	8270c	78.8	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119079 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 4'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

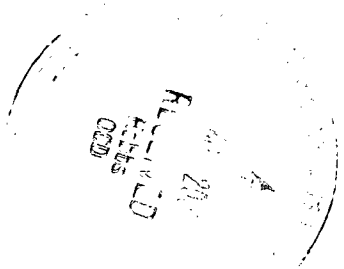
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Selenium/ICP	J	See J-flag discussion above.

Notes: _____



ANALYSYS Inc.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119080 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 8'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 09:54

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/16/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.6	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	1510	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	2800	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	J	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	109.3	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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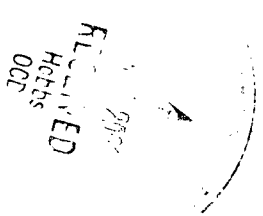
Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 8'

Report#/Lab ID#: 119080
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	6.3	59.9	102.6	67.5



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Client: Cypress Engineering
Attn: George Robinson

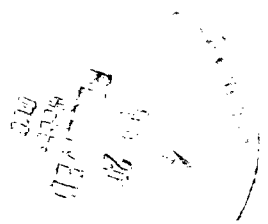
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 8'

Report#/Lab ID#: 119080
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	95.2	80-120	---
TCLP-4-Bromofluorobenzene	8260b	97.5	86-115	---
TCLP-Toluene-d8	8260b	93.5	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	74.8	10-123	---
TCLP-2-Fluorobiphenyl	8270c	67.3	43-116	---
TCLP-2-Fluorophenol	8270c	53.2	21-100	---
TCLP-Nitrobenzene-d5	8270c	62.9	35-114	---
TCLP-Phenol-d5	8270c	66.6	10-94	---
TCLP-Terphenyl-d14	8270c	89.6	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119080 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 8'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Arsenic/ICP	J	See J-flag discussion above.
TCLP-Selenium/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119081 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 12'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 10:10

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/17/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.8	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	275	mg/Kg	5	<5	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	795	mg/Kg	5	<5	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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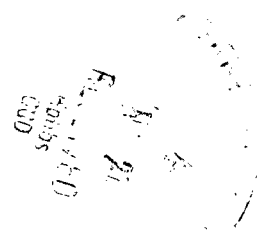
Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 12'

Report#/Lab ID#: 119081
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	6.3	59.9	102.6	67.5



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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 12'

Report#/Lab ID#: 119081
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	85.8	50-150	---
p-Terphenyl	8015 mod.	102	50-150	---
TCLP-1,2-Dichloroethane-d4	8260b	91.2	80-120	---
TCLP-4-Bromofluorobenzene	8260b	100.2	86-115	---
TCLP-Toluene-d8	8260b	98.5	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	69.6	10-123	---
TCLP-2-Fluorobiphenyl	8270c	61.2	43-116	---
TCLP-2-Fluorophenol	8270c	54.2	21-100	---
TCLP-Nitrobenzene-d5	8270c	61.5	35-114	---
TCLP-Phenol-d5	8270c	57.6	10-94	---
TCLP-Terphenyl-d14	8270c	83.4	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119081 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 @ 12'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Selenium/ICP	J	See J-flag discussion above.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119082 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 4'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 10:20

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/18/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.4	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	422	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	458	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity,cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Client: Cypress Engineering
Attn: George Robinson

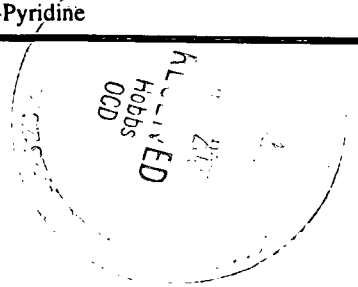
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 4'

Report#/Lab ID#: 119082
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	6.3	59.9	102.6	67.5



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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 4'

Report#/Lab ID#: 119082
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	92.9	80-120	---
TCLP-4-Bromofluorobenzene	8260b	95.4	86-115	---
TCLP-Toluene-d8	8260b	95.9	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	63.3	10-123	---
TCLP-2-Fluorobiphenyl	8270c	52.1	43-116	---
TCLP-2-Fluorophenol	8270c	45.4	21-100	---
TCLP-Nitrobenzene-d5	8270c	50.3	35-114	---
TCLP-Phenol-d5	8270c	55.7	10-94	---
TCLP-Terphenyl-d14	8270c	74.8	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119082 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 4'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119083 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 8'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 10:27

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/19/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/15/01	3005a	---	---	---	---	---
pH	7.5	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	302	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	656	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/17/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 8'

Report#/Lab ID#: 119083
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/17/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/17/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/17/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/17/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/17/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/17/01	8270c	---	6.3	59.9	102.6	67.5



ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 8'

Report#/Lab ID#: 119083
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	93.5	80-120	---
TCLP-4-Bromofluorobenzene	8260b	96.3	86-115	---
TCLP-Toluene-d8	8260b	96	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	98.4	10-123	---
TCLP-2-Fluorobiphenyl	8270c	81.2	43-116	---
TCLP-2-Fluorophenol	8270c	54.9	21-100	---
TCLP-Nitrobenzene-d5	8270c	76.9	35-114	---
TCLP-Phenol-d5	8270c	64.2	10-94	---
TCLP-Terphenyl-d14	8270c	78.2	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119083 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 8'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS INC.

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119084 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 12'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 10:38

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/20/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/17/01	3005a	---	---	---	---	---
pH	7.7	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	332	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	847	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/17/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/17/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/17/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 12'

Report#/Lab ID#: 119084
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/17/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/17/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/17/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/17/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/17/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/17/01	8270c	---	6.3	59.9	102.6	67.5

ANALYSYS Inc.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 12'

Report#/Lab ID#: 119084
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	91.1	80-120	---
TCLP-4-Bromofluorobenzene	8260b	100.4	86-115	---
TCLP-Toluene-d8	8260b	97.2	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	91.1	10-123	---
TCLP-2-Fluorobiphenyl	8270c	69.6	43-116	---
TCLP-2-Fluorophenol	8270c	42.8	21-100	---
TCLP-Nitrobenzene-d5	8270c	63.7	35-114	---
TCLP-Phenol-d5	8270c	54.1	10-94	---
TCLP-Terphenyl-d14	8270c	74.2	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119084 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 3 @ 12'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Selenium/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119085 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 B.D.
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 10:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/21/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.6	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	639	mg/Kg	5	<5	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	1200	mg/Kg	5	<5	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	J	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/17/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 B.D.

Report#/Lab ID#: 119085
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/17/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/17/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/17/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/17/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/17/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/17/01	8270c	---	6.3	59.9	102.6	67.5

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 B.D.

Report#/Lab ID#: 119085
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	109	50-150	---
p-Terphenyl	8015 mod.	85.8	50-150	---
TCLP-1,2-Dichloroethane-d4	8260b	90.6	80-120	---
TCLP-4-Bromofluorobenzene	8260b	96.8	86-115	---
TCLP-Toluene-d8	8260b	97.3	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	65.2	10-123	---
TCLP-2-Fluorobiphenyl	8270c	56.8	43-116	---
TCLP-2-Fluorophenol	8270c	39.4	21-100	---
TCLP-Nitrobenzene-d5	8270c	54.5	35-114	---
TCLP-Phenol-d5	8270c	46.6	10-94	---
TCLP-Terphenyl-d14	8270c	64	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119085 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #2 TRENCH 2 B.D.

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Barium/ICP	J	See J-flag discussion above.
TCLP-Selenium/ICP	J	See J-flag discussion above.

Notes: _____

ANALYSYS INC.

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119086 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 4'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 11:20

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/22/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.2	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	1830	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	192	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 4'

Report#/Lab ID#: 119086
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 4'

Report#/Lab ID#: 119086
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	97.2	80-120	---
TCLP-4-Bromofluorobenzene	8260b	99.6	86-115	---
TCLP-Toluene-d8	8260b	96.8	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	78	10-123	---
TCLP-2-Fluorobiphenyl	8270c	76.2	43-116	---
TCLP-2-Fluorophenol	8270c	64.8	21-100	---
TCLP-Nitrobenzene-d5	8270c	76.4	35-114	---
TCLP-Phenol-d5	8270c	74.8	10-94	---
TCLP-Terphenyl-d14	8270c	104	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119086 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 4'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119087 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 8'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 11:27

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/23/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.4	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	709	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	127	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	J	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 8'

Report#/Lab ID#: 119087
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5

ANALYSIS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 8'

Report#/Lab ID#: 119087
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	92.9	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.1	86-115	---
TCLP-Toluene-d8	8260b	96.9	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	68.5	10-123	---
TCLP-2-Fluorobiphenyl	8270c	65	43-116	---
TCLP-2-Fluorophenol	8270c	54.5	21-100	---
TCLP-Nitrobenzene-d5	8270c	65.6	35-114	---
TCLP-Phenol-d5	8270c	62.6	10-94	---
TCLP-Terphenyl-d14	8270c	101	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119087 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 8'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Reactivity sulfide	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

ANALYSYS Inc.

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119088 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 12'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 11:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/24/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/07/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.2	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	928	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	90.8	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 12'

Report#/Lab ID#: 119088
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 12'

Report#/Lab ID#: 119088
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	94.2	80-120	---
TCLP-4-Bromofluorobenzene	8260b	97.3	86-115	---
TCLP-Toluene-d8	8260b	98.1	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	60.6	10-123	---
TCLP-2-Fluorobiphenyl	8270c	51.6	43-116	---
TCLP-2-Fluorophenol	8270c	45.2	21-100	---
TCLP-Nitrobenzene-d5	8270c	52.5	35-114	---
TCLP-Phenol-d5	8270c	52	10-94	---
TCLP-Terphenyl-d14	8270c	84.1	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119088 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 1 @ 12'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119089 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 4'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 11:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/25/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.5	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	1920	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	125	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	J	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 4'

Report#/Lab ID#: 119089
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	2.9	110	105.9	99.6
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	0.2	110.6	110.9	104.6
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	3	109	106.5	107.5
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	7.2	61.8	104.6	103.6
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	1.1	104.5	105.9	99.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	1.5	110.6	105.8	103
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	4.2	110.1	104.5	105.6
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	5.5	111.2	107.4	105.7
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	1.8	103.5	102.2	103.5
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	1	107.8	112.4	109.6
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	2.7	99.5	102.7	95.7
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5

ANALYSIS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 4'

Report#/Lab ID#: 119089
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	102.6	80-120	---
TCLP-4-Bromofluorobenzene	8260b	106	86-115	---
TCLP-Toluene-d8	8260b	98.1	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	92.7	10-123	---
TCLP-2-Fluorobiphenyl	8270c	75.6	43-116	---
TCLP-2-Fluorophenol	8270c	62.4	21-100	---
TCLP-Nitrobenzene-d5	8270c	73	35-114	---
TCLP-Phenol-d5	8270c	75.8	10-94	---
TCLP-Terphenyl-d14	8270c	111	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119089 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 4'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Reactivity sulfide	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



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Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 4'

Report#/Lab ID#: 119089
Sample Matrix: soil

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Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
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p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	102.6	80-120	---
TCLP-4-Bromofluorobenzene	8260b	106	86-115	---
TCLP-Toluene-d8	8260b	98.1	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	92.7	10-123	---
TCLP-2-Fluorobiphenyl	8270c	75.6	43-116	---
TCLP-2-Fluorophenol	8270c	62.4	21-100	---
TCLP-Nitrobenzene-d5	8270c	73	35-114	---
TCLP-Phenol-d5	8270c	75.8	10-94	---
TCLP-Terphenyl-d14	8270c	111	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119089 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 4'

Sample Temperature/Condition <=6°C

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J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Reactivity sulfide	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:

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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119090 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 8'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 11:52

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/26/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.1	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	461	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	61.6	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS INC.

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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 8'

Report#/Lab ID#: 119090
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5

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Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 8'

Report#/Lab ID#: 119090
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	100.8	80-120	---
TCLP-4-Bromofluorobenzene	8260b	103.8	86-115	---
TCLP-Toluene-d8	8260b	98	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	83.3	10-123	---
TCLP-2-Fluorobiphenyl	8270c	75.1	43-116	---
TCLP-2-Fluorophenol	8270c	63.5	21-100	---
TCLP-Nitrobenzene-d5	8270c	73.7	35-114	---
TCLP-Phenol-d5	8270c	72.7	10-94	---
TCLP-Terphenyl-d14	8270c	98.9	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Exceptions Report:

Report #/Lab ID#: 119090 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 8'

Sample Temperature/Condition <=6°C

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☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
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Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
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Notes:

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Attn: George Robinson
Address: 10235 West Little York, Ste. 250
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119091 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 12'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 11:58

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/27/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	1690	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	233	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSYS Inc.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 12'

Report#/Lab ID#: 119091
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/14/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/14/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/14/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/14/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/14/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/14/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/14/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/14/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/14/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/14/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/14/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5

ANALYSYS inc.

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Client: Cypress Engineering
Attn: George Robinson

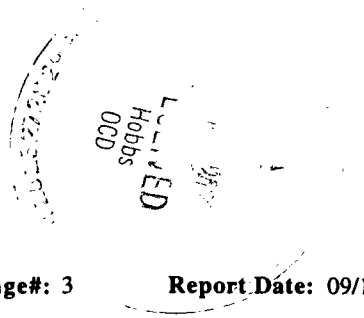
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 12'

Report#/Lab ID#: 119091
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	100.7	80-120	---
TCLP-4-Bromofluorobenzene	8260b	100.8	86-115	---
TCLP-Toluene-d8	8260b	100.8	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	69.9	10-123	---
TCLP-2-Fluorobiphenyl	8270c	60.3	43-116	---
TCLP-2-Fluorophenol	8270c	51.9	21-100	---
TCLP-Nitrobenzene-d5	8270c	58.1	35-114	---
TCLP-Phenol-d5	8270c	58.5	10-94	---
TCLP-Terphenyl-d14	8270c	80.8	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119091 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ 12'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

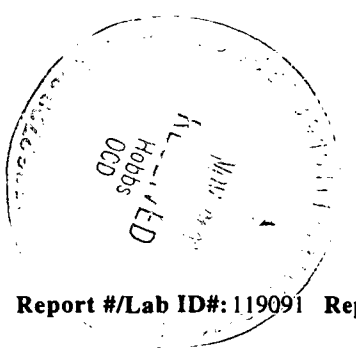
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119092 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ B.D.
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/28/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	2170	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	946	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	J	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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Client: Cypress Engineering
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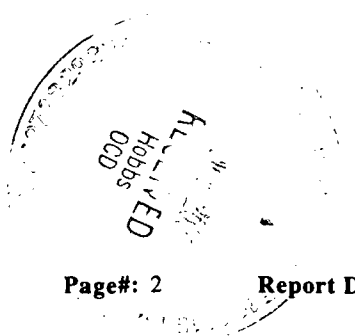
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ B.D.

Report#/Lab ID#: 119092
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-TC	---	---	---	---	09/15/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/15/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/15/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/15/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/15/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/15/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/15/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/15/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5



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Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ B.D.

Report#/Lab ID#: 119092
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	97.4	80-120	---
TCLP-4-Bromofluorobenzene	8260b	98.1	86-115	---
TCLP-Toluene-d8	8260b	99.1	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	54.5	10-123	---
TCLP-2-Fluorobiphenyl	8270c	72.9	43-116	---
TCLP-2-Fluorophenol	8270c	49.5	21-100	---
TCLP-Nitrobenzene-d5	8270c	73	35-114	---
TCLP-Phenol-d5	8270c	55.1	10-94	---
TCLP-Terphenyl-d14	8270c	88.7	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

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Exceptions Report:

Report #/Lab ID#: 119092 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 @ B.D.

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

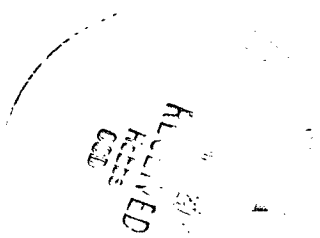
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Arsenic/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119093 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 B.D. #2
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 12:12

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/29/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	6.9	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	2300	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	929	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	J	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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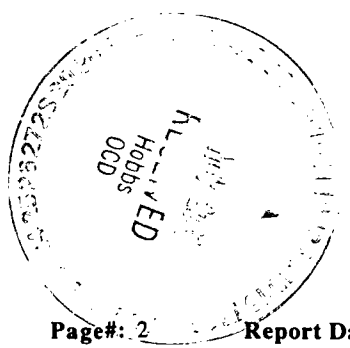
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 B.D. #2

Report#/Lab ID#: 119093
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/15/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/15/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/15/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/15/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/15/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/15/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/15/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/15/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5



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Attn: George Robinson

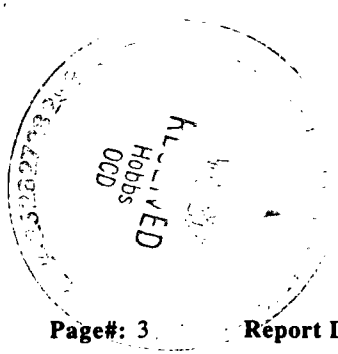
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 B.D. #2

Report#/Lab ID#: 119093
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	99.2	80-120	---
TCLP-4-Bromofluorobenzene	8260b	101.3	86-115	---
TCLP-Toluene-d8	8260b	96.5	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	50.3	10-123	---
TCLP-2-Fluorobiphenyl	8270c	61.1	43-116	---
TCLP-2-Fluorophenol	8270c	40.9	21-100	---
TCLP-Nitrobenzene-d5	8270c	60.7	35-114	---
TCLP-Phenol-d5	8270c	48.1	10-94	---
TCLP-Terphenyl-d14	8270c	83.4	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119093 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 2 B.D. #2

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

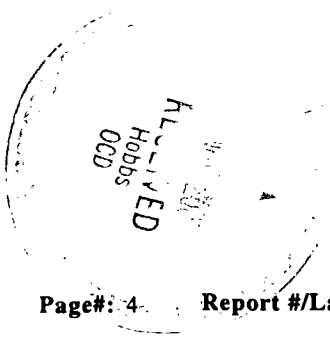
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Arsenic/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



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Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119094 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 4'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:30
Date Sampled: 09/06/2001 **Time:** 14:05

REPORT OF ANALYSIS

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	QUALITY ASSURANCE DATA[1] Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/13/01	3550	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.5	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	3840	mg/Kg	50	<50	09/12/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/11/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	599	mg/Kg	50	<50	09/12/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	1.87	110.32	104.65	108.95
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	1.47	105.75	100.75	108.58
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	1.6	105.67	102	105.55
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.21	102.72	94.88	105.13
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.39	103.83	100.35	107.55
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	1.16	108.8	105.9	109.03
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	2.42	104.37	101.3	105.25
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	2.63	118.5	100.75	92.3
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	109.3	66	-NA-
Extractable organics-TC	---	---	---	---	09/15/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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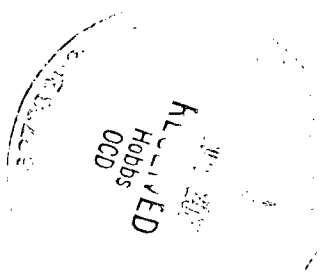
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 4'

Report#/Lab ID#: 119094
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/15/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/15/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/15/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/15/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/15/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/15/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/15/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/15/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/15/01	8270c	---	21.9	84.9	85.8	109.7
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	18.7	100.5	114.7	112.9
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/15/01	8270c	---	29.4	77.6	98.7	95.6
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/15/01	8270c	---	9	74.1	109.2	75.5
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	0.3	132.7	108.6	131.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/15/01	8270c	---	14.6	100.2	111	107.4
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/15/01	8270c	---	7.6	115	116.6	115.3
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/15/01	8270c	---	14	86.8	98.2	136.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/15/01	8270c	---	4.3	138.3	104.9	137
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/15/01	8270c	---	2.3	113.6	113.5	65.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/15/01	8270c	---	8	91.4	104.9	113.4



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(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 4'

Report#/Lab ID#: 119094
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
TCLP-1,2-Dichloroethane-d4	8260b	100.4	80-120	---
TCLP-4-Bromofluorobenzene	8260b	102.1	86-115	---
TCLP-Toluene-d8	8260b	101.9	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	85.3	10-123	---
TCLP-2-Fluorobiphenyl	8270c	71	43-116	---
TCLP-2-Fluorophenol	8270c	62.7	21-100	---
TCLP-Nitrobenzene-d5	8270c	72.1	35-114	---
TCLP-Phenol-d5	8270c	72.2	10-94	---
TCLP-Terphenyl-d14	8270c	93.3	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119094 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 4'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

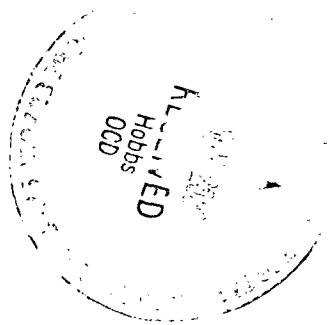
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119095 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 8'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 14:11

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	09/30/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	9.1	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	5220	mg/Kg	50	<50	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	1040	mg/Kg	50	<50	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	1.41	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	09/14/01	245.2&7471	---	1.11	108.19	100	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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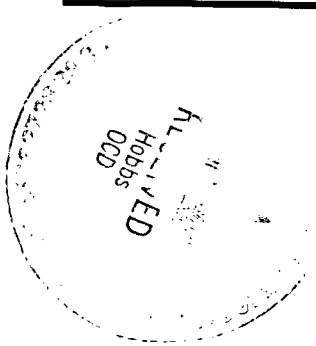
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 8'

Report#/Lab ID#: 119095
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/15/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/15/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/15/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/15/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/15/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/15/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/15/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/15/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5



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Attn: George Robinson

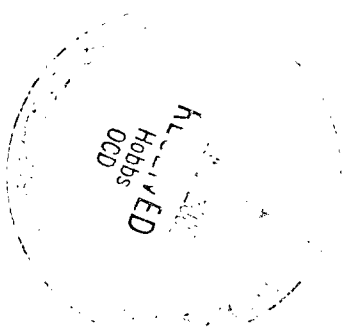
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 8'

Report#/Lab ID#: 119095
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 10X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 10X	D
TCLP-1,2-Dichloroethane-d4	8260b	100.6	80-120	---
TCLP-4-Bromofluorobenzene	8260b	104.1	86-115	---
TCLP-Toluene-d8	8260b	97.9	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	51.7	10-123	---
TCLP-2-Fluorobiphenyl	8270c	66	43-116	---
TCLP-2-Fluorophenol	8270c	45.3	21-100	---
TCLP-Nitrobenzene-d5	8270c	64.4	35-114	---
TCLP-Phenol-d5	8270c	53.7	10-94	---
TCLP-Terphenyl-d14	8270c	85.9	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119095 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 8'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

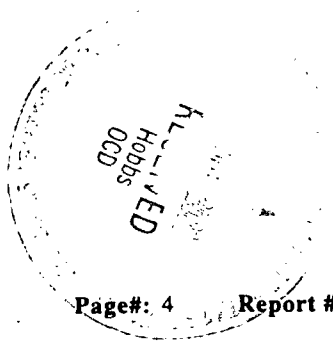
Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____

_____

_____



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Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119096 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 12'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 14:34

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	10/01/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	7.5	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	1630	mg/Kg	10	<10	09/11/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/10/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	577	mg/Kg	10	<10	09/11/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	J	0.35	100.12	104.3	107.7
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	0.61	97.78	108.25	103.8
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.08	98.13	104.75	104.35
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.2	97.21	108.63	103.5
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.66	97.99	100.1	102.7
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	08/14/01	245.2&7471	---	5	109.37	99	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	0.65	99.92	101.95	106.68
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.88	97.4	101.5	105.1
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/16/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

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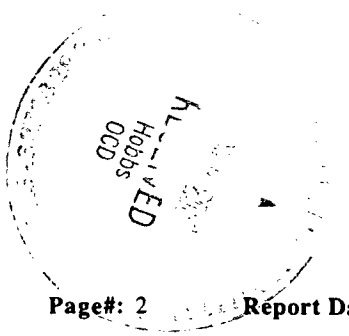
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 12'

Report#/Lab ID#: 119096
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/15/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/15/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/15/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/15/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/15/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/15/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/15/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/15/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/16/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/16/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/16/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/16/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/16/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/16/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/16/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/16/01	8270c	---	6.3	59.9	102.6	67.5



ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

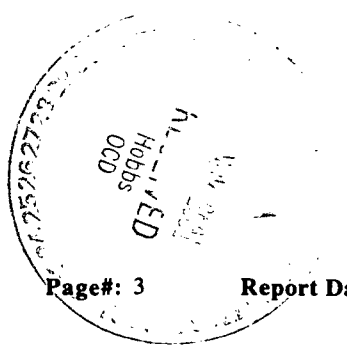
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 12'

Report#/Lab ID#: 119096
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 2X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 2X	D
TCLP-1,2-Dichloroethane-d4	8260b	98.3	80-120	---
TCLP-4-Bromofluorobenzene	8260b	100.2	86-115	---
TCLP-Toluene-d8	8260b	99	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	91.9	10-123	---
TCLP-2-Fluorobiphenyl	8270c	86.5	43-116	---
TCLP-2-Fluorophenol	8270c	80.2	21-100	---
TCLP-Nitrobenzene-d5	8270c	85.1	35-114	---
TCLP-Phenol-d5	8270c	86.6	10-94	---
TCLP-Terphenyl-d14	8270c	106	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119096 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 12'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
☐ Sample received in appropriate container(s). State of sample preservation unknown.
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

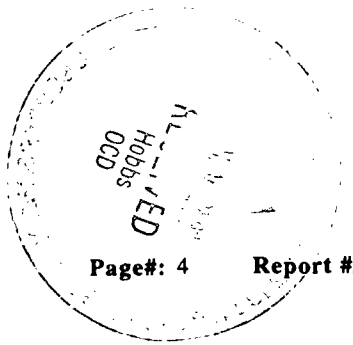
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Arsenic/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson
Address: 10235 West Little York, Ste. 256
Houston Tx 77040

Phone: 713 646-7252 **FAX:** 713 646-7867

Report#/Lab ID#: 119097 **Report Date:** 09/17/01
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 10'
Sample Matrix: soil
Date Received: 09/07/2001 **Time:** 14:38
Date Sampled: 09/06/2001 **Time:** 14:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
A/BN extraction-TC	---	---	---	---	10/02/01	NA	---	---	---	---	---
Ignitability	not ignitable	°F	---	---	09/11/01	1010	---	0	-NA-	-NA-	-NA-
Metals Dig.-Hg/TCLP	---	---	---	---	09/14/01	7470&245.1	---	---	---	---	---
Metals Dig.-HNO3/TCLP	---	---	---	---	09/14/01	3005a	---	---	---	---	---
pH	8	pH units	---	---	09/13/01	9045	---	0	-NA-	-NA-	-NA-
TCLP extraction-ABN/metals	---	---	---	---	09/12/01	1311	---	---	---	---	---
TCLP extraction-ZHE	---	---	---	---	09/11/01	1311	---	---	---	---	---
TPH by GC (as diesel)	7370	mg/Kg	50	<50	09/12/01	8015 mod.	P	33.1	112.6	92.3	82.6
TPH by GC (as diesel-ext)	---	---	---	---	09/11/01	3540	---	---	---	---	---
TPH by GC (as gasoline)	2290	mg/Kg	50	<50	09/12/01	8015 mod.	---	8.4	114.1	81	118
TCLP-Arsenic/ICP	2.18	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	1.87	110.32	104.65	108.95
TCLP-Barium/ICP	<5	mg/L	5	<5	09/14/01	6010 & 200.7	---	1.47	105.75	100.75	108.58
TCLP-Cadmium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	---	1.6	105.67	102	105.55
TCLP-Chromium/ICP	<0.5	mg/L	0.5	<0.5	09/14/01	6010 & 200.7	---	0.21	102.72	94.88	105.13
TCLP-Lead/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	0.39	103.83	100.35	107.55
TCLP-Mercury/CVAA	<0.04	mg/L	0.04	<0.04	08/14/01	245.2&7471	---	5	109.37	99	100.67
TCLP-Selenium/ICP	<0.1	mg/L	0.1	<0.1	09/14/01	6010 & 200.7	J	1.16	108.8	105.9	109.03
TCLP-Silver/ICP	<0.2	mg/L	0.2	<0.2	09/14/01	6010 & 200.7	---	2.42	104.37	101.3	105.25
Reactivity cyanide	<10	mg/Kg	10	<10	09/11/01	9010	---	0.66	119.25	96.8	98.58
Reactivity sulfide	<20	mg/Kg	20	<20	09/11/01	376.1&9030	---	0	102.01	66	-NA-
Extractable organics-TC	---	---	---	---	09/17/01	8270c	---	---	---	---	---

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in associated method blank(s). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.

ANALYSIS inc.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

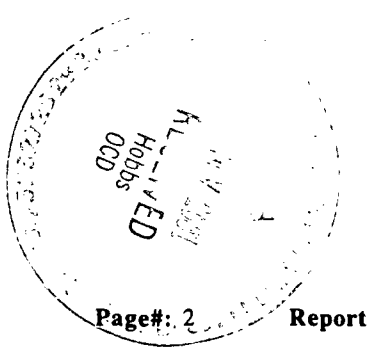
Project ID: *CES/ENRON/TWP Roswell Sta. #9 Pit Samp.*
Sample Name: PIT #1 TRENCH 3 @ 10'

Report#/Lab ID#: 119097
Sample Matrix: soil

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-TC	---	---	---	---	09/15/01	8260b	---	---	---	---	---
TCLP-1,1-Dichloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	5.8	113.8	118.7	106.5
TCLP-1,2-Dichloroethane	<200	µg/L	200	<200	09/15/01	8260b	---	3.3	103.7	105.8	104.1
TCLP-1,4-Dichlorobenzene	<1000	µg/L	1000	<1000	09/15/01	8260b	---	1.9	109.3	109.6	105.8
TCLP-2-Butanone (MEK)	<5000	µg/L	5000	<5000	09/15/01	8260b	---	15.1	67.5	110.4	105.1
TCLP-Benzene	<200	µg/L	200	<200	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Carbon tetrachloride	<200	µg/L	200	<200	09/15/01	8260b	---	2.8	103.5	106.6	105.1
TCLP-Chlorobenzene	<50	µg/L	50	<50	09/15/01	8260b	---	2.2	107.5	106.1	102.1
TCLP-Chloroform	<1000	µg/L	1000	<1000	09/15/01	8260b	---	8.3	115.6	116.1	111.2
TCLP-Tetrachloroethene	<500	µg/L	500	<500	09/15/01	8260b	---	3.3	103.6	101.4	96.7
TCLP-Trichloroethene	<200	µg/L	200	<200	09/15/01	8260b	---	6.5	102.8	112.8	112.3
TCLP-Vinyl chloride	<100	µg/L	100	<100	09/15/01	8260b	---	5.3	105.1	112.7	99.4
TCLP-2,4,5-Trichlorophenol	<5000	µg/L	5000	<5000	09/17/01	8270c	---	9.1	74.4	95.3	65.6
TCLP-2,4,6-Trichlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	10.5	73.6	95.9	64.8
TCLP-2,4-Dinitrotoluene	<100	µg/L	100	<100	09/17/01	8270c	---	11.9	79.9	108.5	69
TCLP-2-Methylphenol (o-Cresol)	<1000	µg/L	1000	<1000	09/17/01	8270c	---	0.4	65.5	107.1	66.2
TCLP-3&4-Methylphenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	3.7	72.7	113.4	70.9
TCLP-Hexachlorobenzene	<100	µg/L	100	<100	09/17/01	8270c	---	8.7	72.6	88.2	63.1
TCLP-Hexachlorobutadiene	<200	µg/L	200	<200	09/17/01	8270c	---	5.4	53.4	86	56.9
TCLP-Hexachloroethane	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.1	59.5	91.6	62.6
TCLP-Nitrobenzene	<1000	µg/L	1000	<1000	09/17/01	8270c	---	4.2	57.5	97.7	60.7
TCLP-Pentachlorophenol	<1000	µg/L	1000	<1000	09/17/01	8270c	---	11.8	109.8	105.2	91.9
TCLP-Pyridine	<1000	µg/L	1000	<1000	09/17/01	8270c	---	6.3	59.9	102.6	67.5



ANALYSYS Inc.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Cypress Engineering
Attn: George Robinson

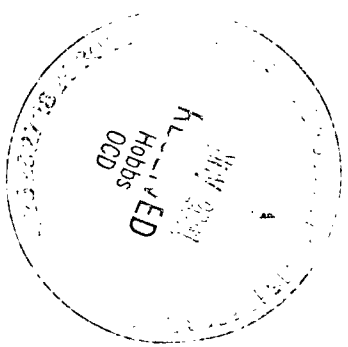
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 10'

Report#/Lab ID#: 119097
Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
Nitrobenzene-d5	8015 mod.	none/diluted	diluted @ 5X	D
p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
TCLP-1,2-Dichloroethane-d4	8260b	100.1	80-120	---
TCLP-4-Bromofluorobenzene	8260b	102	86-115	---
TCLP-Toluene-d8	8260b	99	88-110	---
TCLP-2,4,6-Tribromophenol	8270c	95.1	10-123	---
TCLP-2-Fluorobiphenyl	8270c	84.9	43-116	---
TCLP-2-Fluorophenol	8270c	85.8	21-100	---
TCLP-Nitrobenzene-d5	8270c	85.6	35-114	---
TCLP-Phenol-d5	8270c	93.1	10-94	---
TCLP-Terphenyl-d14	8270c	102	33-141	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Exceptions Report:

Report #/Lab ID#: 119097 **Matrix:** soil
Client: Cypress Engineering **Attn:** George Robinson
Project ID: CES/ENRON/TWP Roswell Sta. #9 Pit Samp.
Sample Name: PIT #1 TRENCH 3 @ 10'

Sample Temperature/Condition <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

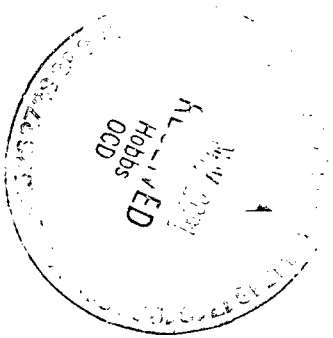
J flag Discussion

A J flag data qualifier indicates (as required under TNRCC-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as diesel) TPH by GC (as diesel)	P P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
TCLP-Selenium/ICP	J	See J-flag discussion above.
Nitrobenzene-d5 Nitrobenzene-d5	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl p-Terphenyl	D D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes: _____



CHAIN-[illegible] CUSTODY

PAGE 1 OF 2

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name: Cypress Engineering
Address: 10235 West Little York Rd. Suite 256
City: Houston State: TX Zip: 77040-3129
ATTN: George Robinson, PE.
Phone: 7136467327 Fax: 713-646-7867

Bill to (if different):
Company Name:
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: CES/Enron/Twp Sampler: CM Barnhill, PG
Roswell Station #9 Pit Sampling

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Analyses Requested (1) Please attach explanatory information as required: Twp (Cr, Ni, S)	RCI	TPH mod 8015 GRO/DRO	Comments
Pit #2 Trench 1 @ 4'	9/6/01	8:52	1/8oz	X			119076	X	X	X	
Pit #2 Trench 1 @ 8'	9/6/01	9:00					119077				
Pit #2 Trench 1 @ 2'	9/6/01	9:09					119078				
Pit #2 Trench 2 @ 4'	9/6/01	9:44					119079				
Pit #2 Trench 2 @ 8'	9/6/01	9:54					119080				
Pit #2 Trench 2 @ 2	9/6/01	10:10					119081				
Pit #2 Trench 3 @ 4'	9/6/01	10:20					119082				
Pit #2 Trench 3 @ 8'	9/6/01	10:27					119083				
Pit #2 Trench 3 @ 2'	9/6/01	10:38					119084				
Pit #2 Trench 2 B.D.	9/6/01	10:50	✓	✓			119085	✓	✓	✓	

)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting nits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or SI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T = 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Christa Barnhill	C.M.B. Environmental & Geological Services, Inc.	9/6/01	16:40	Melanie Humphrey	ASI	9/7/01	1438

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

CHAIN-OF-CUSTODY

PAGE ~~1 OF 1~~ 2 OF 3

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name Cypress Engineering
Address 10235 W. Little York Road Ste 256
City Houston State TX Zip 77040-3209
ATTN: MR. George Robinson, PE
Phone 713-466-7327 Fax 713-466-7867

Bill to (if different):
Company Name _____
Address _____
City _____ State ____ Zip _____
ATTN: _____
Phone _____ Fax _____

Rush Status (must be confirmed with lab mgr.): _____
Project Name/PO#: CES/Exxon/Tuscola Roswell Station #1 Pit Sampling Sampler: CM Barabill, PE

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	CLP (M,V,B)	BCT	TPH mod 8015 GRO/DRO	Comments
Pit # 1 Trench 1 @ 4'	9/6/01	11:20	1 80z/6	X			119086	X	X	X	
Pit # 1 Trench 1 @ 8'	9/6/01	11:27					119087				
Pit # 1 Trench 1 @ 12'	9/6/01	11:35					119088				
Pit # 1 Trench 2 @ 4'	9/6/01	11:45					119089				
Pit # 1 Trench 2 @ 8'	9/6/01	11:52					119090				
Pit # 1 Trench 2 @ 12	9/6/01	11:58					119091				
Pit # 1 Trench 2 @ B.D.	9/6/01	12:00					119092				
Pit # 1 Trench 2 B.D. #2	9/6/01	12:12					119093				
Pit # 1 Trench 3 @ 4'	9/6/01	14:05					119094				
Pit # 1 Trench 3 @ 8'	9/6/01	14:11	↓	↓			119095	↓	↓	↓	

)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting nits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or SI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T = 0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Clayton McBrayer	CMB Environmental & Geological Services Inc.	9/6/01	16:40	Melanie Humphrey	ASI	9/7/01	1438

Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

CHAIN-OF-CUSTODY

PAGE 2 OF 3

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name: Cypress Engineering Suite
Address: 10235 W. Little York Rd 256
City: Houston State: TX Zip: 77040-3329
ATTN: Mr. George Robinson, PE.
Phone: 713-646-7327 Fax: 713-646-7867

Bill to (if different):
Company Name:
Address:
City: State: Zip:
ATTN:
Phone: Fax:

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: CES/Enron/Trf Sampler: CM Barnhill, PE.
Roswell Station #9 Pit Sampling

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	TCLP (M,V,S)	BCT	TPH mod 8015 Gro/DRO	Comments
Pit #1 Trench 3@ 12'	9/6/01	14:34	1/8oz/6	X			119096	X	X	X	
* Please Note *											
There are No Trip											
Blanks - the trip											
Blanks Provided											
By Analysis, Inc..											
were Smashed due											
to sloppy packing											
by Analysis Inc.											
Prior to Shipment	9/6/01	14:20	1/8oz/6	X			119097	X	X	X	ADDED AS PER SAMPLE STEP

Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting its (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or 's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Pit #1 Trench 3@ 10'

T = 0 °C.

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Clayton McBride	CMB Environmental & Geological Services Inc.	9/6/01	16:45	Melanie Humphrey	ASI	9/7/01	1438

Rendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
11 S. First
rtesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
tec, NM 87410
istrict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
NOV 10 1999
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ XX Verbal Approval Received: Yes ☐ No ☐	4. Generator El Paso Nat. Gas 5. Originating Site Roswell Station
2. Management Facility Destination 37 miles East of Roswell	6. Transporter Gandy
3. Address of Facility Operator P.O. Box 1658 Roswell, NM	8. State New MEXICO
7. Location of Material (Street Address or ULSTR)	28 miles North of Roswell on Hiway 285

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

MATERIAL FROM LINE PIGGING

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: V-P DATE: 10-29-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng Specialist DATE: 11-8-99

APPROVED BY: DENIED TITLE: _____ DATE: _____

File: Roswell-Station Environ.

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: ROSWELL STATION
Portion of lots 1 & 6, Sec. 18, T-7-S, R-24-E, Chaves County

Source: LINE PIGGING-- APPROXIMATELY 100 bbls
EPNG Pipeline No. 1300

Disposal Location: GMI-37 MILES EAST OF ROSWELL, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for EL PASO NATURAL GAS concur with the status of the waste from the subject site.

Name RICHARD DUARTE 505/831-7763
Title/Agency Principle Environmental Engineer
El Paso Natural Gas Company
Address 3801 Atrisco Blvd
Albuquerque, NM 87120
Signature Richard Duarte
Date 10-29-99

SAMPLE KEY

SAMPLE NUMBER: S99-0256 LOCATION: ROSWELL P/L DISTRICT
MATRIX: WATER
SAMPLE DESCRIPTION: PIG WASH LIQUID
S D CONTINUED: 1300 LINE
S D CONTINUED: LINCOLN STATION TO ROSWELL STATION
SAMPLE TIME: 12:00 SAMPLE DATE: 10/06/99

SAMPLE KEY

SAMPLE NUMBER: S99-0257 LOCATION: ROSWELL P/L DISTRICT
MATRIX: OIL
SAMPLE DESCRIPTION: PIGGING LIQUID
S D CONTINUED: 1300 LINE
S D CONTINUED: LINCOLN STATION TO ROSWELL STATION
SAMPLE TIME: 12:15 SAMPLE DATE: 10/06/99

SAMPLE KEY

SAMPLE NUMBER: S99-0258 LOCATION: ROSWELL P/L DISTRICT
MATRIX: SLUDGE
SAMPLE DESCRIPTION: PIGGING SLUDGE
S D CONTINUED: 1300 LINE
S D CONTINUED: LINCOLN STATION TO ROSWELL STATION
SAMPLE TIME: 12:30 SAMPLE DATE: 10/06/99

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Irvine

Southern California Division
3189 Airway Ave., Bldg. C • Costa Mesa, CA 92626
(714) 437-5200 • Fax: (714) 556-5625
1-800-320-6595

CLIENT: El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Roswell P/L Piggins NEL ORDER ID: P9910022
PROJECT #: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were received by NEL in good condition, under chain of custody on 10/7/99.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Js - This result may be biased due to a matrix phenomena. Tha sample QC was outside acceptance criteria in duplicate analysis.

Some surrogate results have been flagged as follows:

D - Sample was run at dilution. Surrogates were diluted outside calibration range.

Dave D. Bellar for

Greg Anderson
Laboratory Manager

10-15-99
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California		Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605	Idaho	Certified	Certified	
California	1707	2002	2264	Montana	Certified	Certified	
US Army Corps of Engineers	Certified	Certified		Nevada	NV033	NV052	CA084
				L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0256**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND		0.1	5	SW846 Chapter Seven	mg/L	10/12/99
Flashpoint	>200		200.	1	EPA 1010	°F	10/11/99
pH	7.79		2.	1	EPA 150.1	pH Units	10/13/99
pH Temperature	15.8			1	EPA 150.1	°C	10/13/99
Sulfide, Reactive	2.2	Js	0.15	5	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0257**
DATE SAMPLED: 10/6/99 Piggins
NEL SAMPLE ID: P9910022-02 L.G.

TEST: **Inorganic Non-Metals**
MATRIX: Organic Liquid

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/L	10/12/99
Ignitability	175	200.	1	EPA 1010	°F	10/11/99
pH	6.89	2.	1	EPA 9045B	ph Units	10/13/99
pH Temperature	23.1		1	EPA 9045B	°C	10/13/99
Sulfide, Reactive	0.66	0.15	5	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0258** sludge
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-03

TEST: **Inorganic Non-Metals**
MATRIX: Solid

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	10/12/99
Ignitability	>200	150.	1	EPA 1010	°F	10/11/99
pH	6.73	2.	1	EPA 9045B	pH Units	10/13/99
Sulfide, Reactive	35	5.	250	SW846 Chapter Seven	mg/kg	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	991012CNREAC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	mg/L	ANALYZED
Cyanide, Reactive	ND	0.02	1	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	991012SULFREAC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	mg/L	ANALYZED
Sulfide, Reactive	ND	0.03	1	SW846 Chapter Seven	mg/L	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0256**
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-01

TEST: **TCLP-8 Metals**
MATRIX: Aqueous

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	0.76 ← OK	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Barium	1.4	1. mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Chromium	0.079	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	NA	10/12/99	10/12/99
Selenium	ND	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	NA	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0257**
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-02

TEST: **TCLP-8 Metals**
MATRIX: Organic Liquid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	0.62	1. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Barium	7.2	10. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Cadmium	ND	0.1 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Chromium	0.17	0.1 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Lead	ND	0.5 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	10/11/99	10/12/99	10/12/99
Selenium	ND	1. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Silver	ND	0.2 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **S99-0258**
DATE SAMPLED: 10/6/99
NEL SAMPLE ID: P9910022-03

TEST: **TCLP-8 Metals**
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	4.6 ← ok	1. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Barium	12	10. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Cadmium	ND	0.1 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Chromium	0.51	0.1 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Lead	ND	0.5 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	10/11/99	10/12/99	10/12/99
Selenium	ND	1. mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99
Silver	ND	0.2 mg/L	10	EPA 6010	10/11/99	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P10021-THg-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Mercury	ND	0.002 mg/L	10	EPA 7470A	NA	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P10021i-T8-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Barium	ND	1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Chromium	ND	0.01 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Lead	ND	0.05 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Selenium	ND	0.1 mg/L	1	EPA 6010	NA	10/12/99	10/12/99
Silver	ND	0.02 mg/L	1	EPA 6010	NA	10/12/99	10/12/99

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0256**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-01

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260B	TCLP EXTRACT DATE:	NA
MATRIX:	Aqueous	EXTRACTED	10/12/99
DILUTION:	1	ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
Benzene	ND	0.1 mg/L
Carbon Tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
Methyl ethyl ketone (MEK)	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene (TCE)	ND	0.1 mg/L
Vinyl Chloride	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	109	79 - 131 %
Dibromofluoromethane	91	77 - 136 %
Toluene-d8	108	89 - 118 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0256**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-01

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, December 1996.**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	NA
MATRIX:	Aqueous	EXTRACTED	10/9/99
DILUTION:	1	ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (Isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	11	10 - 170 %
2-Fluorobiphenyl	58	10 - 146 %
2-Fluorophenol	10	10 - 167 %
Nitrobenzene-d5	104	10 - 139 %
p-Terphenyl-d14	58	10 - 183 %
Phenol-d5	37	10 - 140 %

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0257**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-02

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260B	TCLP EXTRACT DATE:	NA
MATRIX:	Organic Liquid	EXTRACTED	10/12/99
DILUTION:	500	ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	50. mg/L
Trichloroethene (TCE)	ND	50. mg/L
Tetrachloroethene (PCE)	ND	50. mg/L
Methyl ethyl ketone (MEK)	ND	1000. mg/L
Chloroform	ND	50. mg/L
Chlorobenzene	ND	50. mg/L
Benzene	180	50. mg/L
1,2-Dichloroethane (1,2-DCA)	ND	50. mg/L
1,1-Dichloroethene (1,1-DCE)	ND	50. mg/L
Vinyl Chloride	ND	50. mg/L
Carbon Tetrachloride	ND	50. mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	74 - 121 %
Dibromofluoromethane	93	80 - 120 %
Toluene-d8	100	81 - 117 %

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0257**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-02

TEST: **TCLP by EPA 1311, September 1992 & Semivolatile Organics by EPA Method 8270C, December 1996**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	NA
MATRIX:	Organic Liquid	EXTRACTED	10/9/99
DILUTION:	1	ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3-Methylphenol	ND	0.1 mg/L
4-Methylphenol	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
2,4,6-Tribromophenol	D	D	19 - 122 %
2-Fluorobiphenyl	D		25 - 115 %
2-Fluorophenol	D		25 - 121 %
Nitrobenzene-d5	D		23 - 120 %
p-Terphenyl-d14	D		18 - 137 %
Phenol-d6	D		24 - 113 %

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0258**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-03

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260A	TCLP EXTRACT DATE:	10/8/99
MATRIX:	Solid	EXTRACTED	10/12/99
DILUTION:	1	ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon Tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl Chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	98	79 - 131 %
Dibromofluoromethane	86	77 - 136 %
Toluene-d8	105	89 - 118 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**S99-0258**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	10/6/99
PROJECT #:	NA	NEL SAMPLE ID:	P9910022-03

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996.**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	10/7/99
MATRIX:	Solid	EXTRACTED	10/9/99
DILUTION:	1	ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3-Methylphenol	ND	0.1 mg/L
4-Methylphenol	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	26	10 - 170 %
2-Fluorobiphenyl	44	10 - 146 %
2-Fluorophenol	81	10 - 167 %
Nitrobenzene-d5	74	10 - 139 %
p-Terphenyl-d14	44	10 - 183 %
Phenol-d5	32	10 - 140 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	100899-8260T-BLK

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260B	TCLP EXTRACT DATE:	10/8/99
MATRIX:	TCLP Extract	EXTRACTED	10/12/99
		ANALYZED:	10/12/99

PARAMETER	Result mg/L	Reporting Limit
Chlorobenzene	ND	0.1 mg/L
Vinyl Chloride	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
Methyl ethyl ketone (MEK)	ND	2 mg/L
Benzene	ND	0.1 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Carbon Tetrachloride	ND	0.1 mg/L
Trichloroethene (TCE)	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	79 - 131
Dibromofluoromethane	94	77 - 136
Toluene-d8	103	89 - 118

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Company	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell P/L Piggins	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	100999-8270T-BLK

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270A, July 1992.**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	10/7/99
MATRIX:	TCLP Extract	EXTRACTED	10/9/99
		ANALYZED:	10/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3-Methylphenol	ND	0.1 mg/L
4-Methylphenol	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L
Phenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	10	10 - 170
2-Fluorobiphenyl	95	10 - 146
2-Fluorophenol	88	10 - 167
Nitrobenzene-d5	96	10 - 139
p-Terphenyl-d14	106	10 - 183
Phenol-d5	63	10 - 140

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,1-Dichloroethene (1,1-DCE)	100899-8260T-LCS	50	51.1	102	51 - 145	
1,1-Dichloroethene (1,1-DCE)	100899-8260T-LCSD	50	49.6	99	51 - 145	3.
Benzene	100899-8260T-LCS	50	56.6	113	61 - 133	
Benzene	100899-8260T-LCSD	50	58.8	118	61 - 133	3.8
Chlorobenzene	100899-8260T-LCS	50	56	112	61 - 136	
Chlorobenzene	100899-8260T-LCSD	50	56.3	113	61 - 136	0.5
Toluene	100899-8260T-LCS	50	59.6	119	67 - 133	
Toluene	100899-8260T-LCSD	50	61.1	122	67 - 133	2.5
Trichloroethene (TCE)	100899-8260T-LCS	50	57.4	115	61 - 138	
Trichloroethene (TCE)	100899-8260T-LCSD	50	59.5	119	61 - 138	3.6

ND - Not Detected

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CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, Dec. 1996.**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,4-Dichlorobenzene (p-DCB)	100999-8270T-LCS	40	38	95	3 - 114	
1,4-Dichlorobenzene (p-DCB)	100999-8270T-LCSD	40	40.5	101	3 - 114	6.4
2,4-Dinitrotoluene (DNT)	100999-8270T-LCS	40	34.9	87	10 - 126	
2,4-Dinitrotoluene (DNT)	100999-8270T-LCSD	40	41.4	104	10 - 126	17.
Pentachlorophenol	100999-8270T-LCS	100	96.5	97	6 - 112	
Pentachlorophenol	100999-8270T-LCSD	100	103	103	6 - 112	6.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	P10021-THg-LCS	0.005	0.00521	104	85 - 115	
Mercury	P9910021-01-MS	0.05	0.0529	102	85 - 115	
Mercury	P9910021-01-MSD	0.05	0.0565	109	85 - 115	6.8

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Company
PROJECT ID: Roswell P/L Piggins
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Arsenic	P10021i-T8-LCS	0.5	0.509	102	85 - 115	
Arsenic	P9910021-01-MS	5	10.7	106	75 - 125	
Arsenic	P9910021-01-MSD	5	10.7	106	75 - 125	0.
Silver	P10021i-T8-LCS	0.5	0.475	95	85 - 115	
Silver	P9910021-01-MS	5	4.4	88	75 - 125	
Silver	P9910021-01-MSD	5	4.51	90	75 - 125	2.5
Barium	P10021i-T8-LCS	1	0.919	92	85 - 115	
Barium	P9910021-01-MS	10	18.3	94	75 - 125	
Barium	P9910021-01-MSD	10	18.3	94	75 - 125	0.
Cadmium	P10021i-T8-LCS	0.2	0.197	99	85 - 115	
Cadmium	P9910021-01-MS	2	2.03	102	75 - 125	
Cadmium	P9910021-01-MSD	2	2.03	102	75 - 125	0.
Chromium	P10021i-T8-LCS	0.5	0.499	100	85 - 115	
Chromium	P9910021-01-MS	5	5.45	101	75 - 125	
Chromium	P9910021-01-MSD	5	5.47	101	75 - 125	0.4
Lead	P10021i-T8-LCS	1	1.01	101	85 - 115	
Lead	P9910021-01-MS	10	10.3	103	75 - 125	
Lead	P9910021-01-MSD	10	10.2	102	75 - 125	1.
Selenium	P10021i-T8-LCS	0.5	0.52	104	85 - 115	
Selenium	P9910021-01-MS	5	4.62	92	75 - 125	
Selenium	P9910021-01-MSD	5	4.53	91	75 - 125	2.

ND - Not Detected

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1991/0022

EL PASO NATURAL GAS

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY
	Roswell P/L Piggings								NEL-SoCal
SAMPLERS: (Signature) Darrell Campbell	DATE: 10/6/99								
LAB ID / DATE / TIME / MATRIX / SAMPLE NUMBER				TCLP Metals(6)	TCLP 8260	TCLP 8270	Reacti, Corri,	Flsh.	REMARKS
10/6/99 1200 Water S99-0256		7	C	X	X	X	XX	X	
10/6/99 1215 Oil ~~Sludge~~ S99-0257		1	G	X	X	X	XX	X	
10/6/99 1230 Sludge S99-0258		1	G	X	X	X	XX	X	Sample Locations (3S) Rcd: 10/7/99 10:10am Placed in plastic bags

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Darrell Campbell	10/6/99 1830	10/7/99 B Solis 10:10am 4.3°C			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☒ RUSH ASAP

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0566 (Rev. 4-96)

NORM ANAYSIS

ROSWELL P/L DISTRICT

SAMPLE NUMBER	SAMPLE DATE	SAMPLE DESCRIPTION	MATRIX	GROSS ALPHA (DPM)	RPU	GROSS BETA (DPM)	RPU	TOTAL	Pb-210 (pCi/g)	RPU	Ra-226 (pCi/g)	RPU (%)	Ra-228 (pCi/g)	RPU (%)
S99-0257	10/06/99	PIGGING LIQUID	OIL						74.4	12.1				
S99-0258	10/06/99	PIGGING SLUDGE	SLUDGE						130.5	6.6				

O. Box 1980
obbs, NM 88241-1980
strict II - (505) 748-1283
1 S. First
tesia, NM 88210
strict III - (505) 334-6178
0 Rio Brazos Road
c, NM 87410
rict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
OCT 07 1999
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Nat. Gas
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Roswell Stat.
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp
3. Address of Facility Operator P.O.Box 1658 Roswell NM	8. State NM 88202
7. Location of Material (Street Address or ULSTR) 20 miles north Roswell on hiway 285	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

contaminated soils from around scrubbers and engine room

Estimated Volume 100yds cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

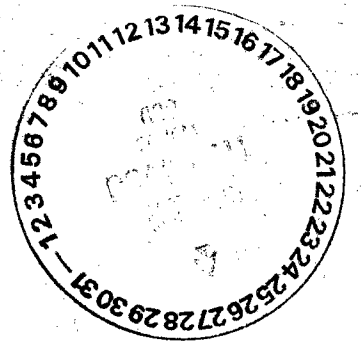
SIGNATURE: Larry Gandy Waste Management Facility Authorized Agent TITLE: v-p DATE: 9-24-99

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE Environmental Eng. Specialist DATE: 10-04-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 10-8-99



Oil Conservation Division
[illegible]
OCT 03 1996
RECEIVED

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: EL PASO NATURAL GAS
ROSWELL STATION

Source: Pipeline liquids (used oil) and compressor station used oil (liq). contaminated soils

Disposal Location: GMI, INC.
39 MILES EAST OF ROSWELL, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for EL PASO NATURAL GAS CO. concur with the status of the waste from the subject site.

Name Richard Duarte

Title/Agency Principal Engr.
El Paso Natural Gas Company.

Address 3801 Atrisco Blvd
Albuquerque, NM 87120

Signature Richard Duarte

Date 8-19-99

SAMPLE KEY

SAMPLE NUMBER: S99-0198 LOCATION: ROSWELL STATION
MATRIX: SOIL
SAMPLE DESCRIPTION: STAINED AREA SOUTH EAST CORNER
S D CONTINUED: OF COMPRESSOR BUILDING - COMPOSITE
S D CONTINUED:
SAMPLE TIME: 12:00 SAMPLE DATE: 07/08/99

SAMPLE KEY

SAMPLE NUMBER: S99-0199 LOCATION: ROSWELL STATION
MATRIX: SOIL
SAMPLE DESCRIPTION: STAINED AREA - SCRUBBER BLOWDOWN TANK
S D CONTINUED: COMPOSITE
S D CONTINUED:
SAMPLE TIME: 12:10 SAMPLE DATE: 07/08/99

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Irvine

Reno Division
1030 Matley Lane • Reno, Nevada 89502
(702) 348-2522 • Fax: (702) 348-2546
1-800-368-5221

CLIENT: El Paso Natural Gas Co.
8645 Railroad Dr.
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Roswell Station
PROJECT #: NA

NEL ORDER ID: P9907029

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 7/10/99.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Some results have been flagged as follows:

Js - Estimated concentration due to probable matrix effects. Sample QC outside acceptance criteria in duplicate analyses.

Some QA results have been flagged as follows:

Jl - The batch MS and/or MSD were outside acceptance limits. The LCS was acceptable.

Eileen M. Ferguson
Laboratory Manager

7/22/99
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0605
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **S99-0198**
DATE SAMPLED: 7/8/99
NEL SAMPLE ID: P9907029-01

TEST: **Inorganic Non-Metals**
MATRIX: Solid

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Corrosivity (pH), 9045	7.21		1	EPA 9045B	pH Units	7/19/99
Cyanide, Reactive	ND	0.02	1	SW846 Chapter Seven	mg/kg	7/13/99
Ignitability	>212	76	1	EPA 1010	Temp °F	7/15/99
Sulfide, Reactive	0.24	0.1	5	SW846 Chapter Seven	mg/kg	7/14/99

D.F. - Dilution Factor

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **S99-0199**
DATE SAMPLED: 7/8/99
NEL SAMPLE ID: P9907029-02

TEST: **Inorganic Non-Metals**
MATRIX: Solid

PARAMETER	RESULT		REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Corrosivity (pH), 9045	7.98			1	EPA 9045B	pH Units	7/19/99
Cyanide, Reactive	ND		0.02	1	SW846 Chapter Seven	mg/kg	7/13/99
Ignitability	>212		79	1	EPA 1010	Temp °F	7/15/99
Sulfide, Reactive	0.22	Js	0.1	5	SW846 Chapter Seven	mg/kg	7/14/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 990714SULFREAC-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Sulfide, Reactive	ND	0.02	1	846 Chapter Seven	mg/kg	7/14/99

D.F. - Dilution Factor

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**S99-0198**
PROJECT ID:	Roswell Station	DATE SAMPLED:	7/8/99
PROJECT #:	NA	NEL SAMPLE ID:	P9907029-01

TEST: **PCB's (Polychlorinated Biphenyls) by EPA 8082, December, 1996**

MATRIX:	Solid	ANALYST:	JRW - Las Vegas Division
DILUTION:	1	EXTRACTED:	7/14/99
		ANALYZED:	7/15/99

PARAMETER	Result	Reporting Limit
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	127	63 - 161
Tetrachloro-m-xylene	102	45 - 127

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**S99-0199**
PROJECT ID:	Roswell Station	DATE SAMPLED:	7/8/99
PROJECT #:	NA	NEL SAMPLE ID:	P9907029-02

TEST: **PCB's (Polychlorinated Biphenyls) by EPA 8082, December, 1996**

MATRIX:	Solid	ANALYST:	JRW - Las Vegas Division
DILUTION:	1	EXTRACTED:	7/14/99
		ANALYZED:	7/15/99

PARAMETER	Result	Reporting Limit
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	72	63 - 161
Tetrachloro-m-xylene	83	45 - 127

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell Station	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	990714PCBS-BLK

TEST: **PCB's (Polychlorinated Biphenyls) by EPA 8082, December, 1996**

MATRIX:	Solid	ANALYST:	JRW - Las Vegas Division
		EXTRACTED:	7/14/99
		ANALYZED:	7/15/99

PARAMETER	Result	Reporting Limit
Aroclor-1016	ND	20. µg/kg
Aroclor-1221	ND	20. µg/kg
Aroclor-1232	ND	20. µg/kg
Aroclor-1242	ND	20. µg/kg
Aroclor-1248	ND	20. µg/kg
Aroclor-1254	ND	20. µg/kg
Aroclor-1260	ND	20. µg/kg

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
Decachlorobiphenyl	80	63 - 161
Tetrachloro-m-xylene	74	45 - 127

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **S99-0198**
DATE SAMPLED: 7/8/99
NEL SAMPLE ID: P9907029-01

TEST: **TCLP-8 Metals**
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Barium	ND	1. mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Cadmium	0.014	0.01 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Lead	0.091	0.05 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Mercury	0.0087	0.002 mg/L	10	EPA 7470A	7/12/99	7/13/99	7/13/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P07026-HG-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	EXTRACTION METHOD	EXTRACTION DATE	DIGESTED	ANALYZED
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/12/99	7/13/99	7/13/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P070261-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	EXTRACTION METHOD	EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Barium	ND	1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**S99-0198**
PROJECT ID:	Roswell Station	DATE SAMPLED:	7/8/99
PROJECT #:	NA	NEL SAMPLE ID:	P9907029-01

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260	TCLP EXTRACT DATE:	7/13/99
MATRIX:	Solid	EXTRACTED	7/16/99
DILUTION:	1	ANALYZED:	7/16/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	86 - 115
Dibromofluoromethane	104	86 - 118
Toluene-d8	103	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**S99-0198**
PROJECT ID:	Roswell Station	DATE SAMPLED:	7/8/99
PROJECT #:	NA	NEL SAMPLE ID:	P9907029-01

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, December 1996**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	7/12/99
MATRIX:	Solid	EXTRACTED	7/13/99
DILUTION:	1	ANALYZED:	7/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	76	10 - 123
2-Fluorobiphenyl	61	43 - 116
2-Fluorophenol	40	21 - 100
Nitrobenzene-d5	69	35 - 114
p-Terphenyl-d14	91	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**S99-0199**
PROJECT ID:	Roswell Station	DATE SAMPLED:	7/8/99
PROJECT #:	NA	NEL SAMPLE ID:	P9907029-02

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260	TCLP EXTRACT DATE:	7/13/99
MATRIX:	Solid	EXTRACTED	7/20/99
DILUTION:	1	ANALYZED:	7/20/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	98	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**S99-0199**
PROJECT ID:	Roswell Station	DATE SAMPLED:	7/8/99
PROJECT #:	NA	NEL SAMPLE ID:	P9907029-02

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, December 1996**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	7/12/99
MATRIX:	Solid	EXTRACTED	7/13/99
DILUTION:	1	ANALYZED:	7/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	73	10 - 123
2-Fluorobiphenyl	62	43 - 116
2-Fluorophenol	39	21 - 100
Nitrobenzene-d5	68	35 - 114
p-Terphenyl-d14	98	33 - 141
Phenol-d5	25	10 - 94

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell Station	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	071399-E2-BLK

TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, December 1996**

METHOD:	EPA 8270	TCLP EXTRACT DATE:	7/12/99
MATRIX:	TCLP Extract	EXTRACTED	7/13/99
		ANALYZED:	7/14/99

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	62	10 - 123
2-Fluorobiphenyl	65	43 - 116
2-Fluorophenol	46	21 - 100
Nitrobenzene-d5	74	35 - 114
p-Terphenyl-d14	98	33 - 141
Phenol-d5	30	10 - 94

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell Station	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	9907161TCLP60-BLK

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**

METHOD:	EPA 8260	TCLP EXTRACT DATE:	7/13/99
MATRIX:	TCLP Extract	EXTRACTED	7/16/99
		ANALYZED:	7/16/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	101	88 - 110

ND - Not Detected

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CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Method Blank**
PROJECT ID:	Roswell Station	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	990720TCLP60-BLK
TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260	TCLP EXTRACT DATE:	7/13/99
MATRIX:	TCLP Extract	EXTRACTED	7/20/99
		ANALYZED:	7/20/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	97	86 - 115
Dibromofluoromethane	98	86 - 118
Toluene-d8	98	88 - 110

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Semivolatile Organics by EPA Method 8270C, December 1996**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,4-Dichlorobenzene (p-DCB)	071399-E2-LCS	80	49.1	61	48 - 101	
1,4-Dichlorobenzene (p-DCB)	P9907026-01-MS	80	54.4	68	48 - 101	
1,4-Dichlorobenzene (p-DCB)	P9907026-01-MSD	80	52	65	48 - 101	4.5
2,4-Dinitrotoluene (DNT)	071399-E2-LCS	80	63.5	79	50 - 111	
2,4-Dinitrotoluene (DNT)	P9907026-01-MS	80	68.1	85	50 - 111	
2,4-Dinitrotoluene (DNT)	P9907026-01-MSD	80	67.6	85	50 - 111	0.7
Hexachlorobenzene	071399-E2-LCS	80	61.2	77	41 - 125	
Hexachlorobenzene	P9907026-01-MS	80	69.5	87	41 - 125	
Hexachlorobenzene	P9907026-01-MSD	80	69.3	87	41 - 125	0.3
Hexachlorobutadiene	071399-E2-LCS	80	52.5	66	39 - 111	
Hexachlorobutadiene	P9907026-01-MS	80	54.2	68	39 - 111	
Hexachlorobutadiene	P9907026-01-MSD	80	48.8	61	39 - 111	10.5
Hexachloroethane	071399-E2-LCS	80	47.8	60	43 - 104	
Hexachloroethane	P9907026-01-MS	80	50.9	64	43 - 104	
Hexachloroethane	P9907026-01-MSD	80	47.4	59	43 - 104	7.1
2-Methylphenol	071399-E2-LCS	80	59.2	74	30 - 130	
2-Methylphenol	P9907026-01-MS	80	61.8	77	30 - 130	
2-Methylphenol	P9907026-01-MSD	80	58.8	74	30 - 130	5.
3,4-Methylphenol (isomeric pair)	071399-E2-LCS	80	53.8	67	30 - 130	
3,4-Methylphenol (isomeric pair)	P9907026-01-MS	80	57.5	72	30 - 130	
3,4-Methylphenol (isomeric pair)	P9907026-01-MSD	80	54.6	68	30 - 130	5.2
Nitrobenzene	071399-E2-LCS	80	58.4	73	28 - 124	
Nitrobenzene	P9907026-01-MS	80	65.7	82	28 - 124	
Nitrobenzene	P9907026-01-MSD	80	63.5	79	28 - 124	3.4
Pentachlorophenol	071399-E2-LCS	80	61.1	76	47 - 127	
Pentachlorophenol	P9907026-01-MS	80	69	86	47 - 127	
Pentachlorophenol	P9907026-01-MSD	80	68.3	85	47 - 127	1.
Pyridine	071399-E2-LCS	80	42	53	10 - 130	
Pyridine	P9907026-01-MS	80	43.6	55	10 - 130	
Pyridine	P9907026-01-MSD	80	41.4	52	10 - 130	5.2
2,4,5-Trichlorophenol	071399-E2-LCS	80	66.9	84	30 - 130	
2,4,5-Trichlorophenol	P9907026-01-MS	80	76.3	95	30 - 130	
2,4,5-Trichlorophenol	P9907026-01-MSD	80	76.9	96	30 - 130	0.8
2,4,6-Trichlorophenol	071399-E2-LCS	80	64.9	81	43 - 110	
2,4,6-Trichlorophenol	P9907026-01-MS	80	74	93	43 - 110	
2,4,6-Trichlorophenol	P9907026-01-MSD	80	74.8	94	43 - 110	1.1

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA
TEST: **PCB's (Polychlorinated Biphenyls) by EPA 8082, December, 1996**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery		Acceptable Range	RPD
Aroclor-1016	990714PCBS-LCS	333	281	84		70 - 130	
Aroclor-1016	990714PCBS-LCSD	333	244	73		70 - 130	14.1
Aroclor-1016	L9907105-01-MS	333	322	97		70 - 130	
Aroclor-1016	L9907105-01-MSD	333	354	106		70 - 130	9.5
Aroclor-1260	990714PCBS-LCS	333	277	83		70 - 130	
Aroclor-1260	990714PCBS-LCSD	333	255	77		70 - 130	8.3
Aroclor-1260	L9907105-01-MS	333	542	163	Jl	48 - 129	
Aroclor-1260	L9907105-01-MSD	333	569	171	Jl	48 - 129	0.

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,1-Dichloroethene (1,1-DCE)	9907161TCLP60-LCS	50	52	104	70 - 130	
Benzene	9907161TCLP60-LCS	50	53.42	107	70 - 130	
Chlorobenzene	9907161TCLP60-LCS	50	54.46	109	70 - 130	
Toluene	9907161TCLP60-LCS	50	56.08	112	70 - 130	
Trichloroethene (TCE)	9907161TCLP60-LCS	50	53.09	106	70 - 130	

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA
TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
1,1-Dichloroethene (1,1-DCE)	990720TCLP60-LCS	50	48	96	70 - 130	
Benzene	990720TCLP60-LCS	50	47	94	70 - 130	
Chlorobenzene	990720TCLP60-LCS	50	49	98	70 - 130	
Toluene	990720TCLP60-LCS	50	49	98	70 - 130	
Trichloroethene (TCE)	990720TCLP60-LCS	50	48	96	70 - 130	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA

CLIENT ID: **S99-0199**
DATE SAMPLED: 7/8/99
NEL SAMPLE ID: P9907029-02

TEST: **TCLP-8 Metals**
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Barium	ND	1. mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Chromium	ND	0.01 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Lead	ND	0.05 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Mercury	0.017	0.002 mg/L	10	EPA 7470A	7/12/99	7/13/99	7/13/99
Selenium	ND	0.1 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99
Silver	ND	0.02 mg/L	1	EPA 6010	7/12/99	7/13/99	7/13/99

D.F. - Dilution Factor

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	P07026-HG-LCS	0.005	0.00498	100	85 - 115	
Mercury	P9907026-01-MS	0.05	0.055	110	85 - 115	
Mercury	P9907026-01-MSD	0.05	0.0546	109	85 - 115	0.7

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Roswell Station
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amount	Spike Result	Percent Recovery	Acceptable Range	RPD
Arsenic	P07026I-LCS	0.5	0.507	101	85 - 115	
Arsenic	P9907026-01-MS	0.5	0.513	103	75 - 125	
Arsenic	P9907026-01-MSD	0.5	0.499	100	75 - 125	2.8
Silver	P07026I-LCS	0.5	0.506	101	85 - 115	
Silver	P9907026-01-MS	0.5	0.488	98	75 - 125	
Silver	P9907026-01-MSD	0.5	0.481	96	75 - 125	1.4
Barium	P07026I-LCS	1	1.01	101	85 - 115	
Barium	P9907026-01-MS	1	1	100	75 - 125	
Barium	P9907026-01-MSD	1	0.99	99	75 - 125	1.
Cadmium	P07026I-LCS	0.2	0.206	103	85 - 115	
Cadmium	P9907026-01-MS	0.2	0.21	105	75 - 125	
Cadmium	P9907026-01-MSD	0.2	0.211	106	75 - 125	0.5
Chromium	P07026I-LCS	0.5	0.505	101	85 - 115	
Chromium	P9907026-01-MS	0.5	0.491	98	75 - 125	
Chromium	P9907026-01-MSD	0.5	0.493	99	75 - 125	0.4
Lead	P07026I-LCS	1	1.01	101	85 - 115	
Lead	P9907026-01-MS	1	1.07	97	75 - 125	
Lead	P9907026-01-MSD	1	1.07	97	75 - 125	0.
Selenium	P07026I-LCS	0.5	0.535	107	85 - 115	
Selenium	P9907026-01-MS	0.5	0.534	107	75 - 125	
Selenium	P9907026-01-MSD	0.5	0.56	112	75 - 125	4.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE:
	Roswell Station	Dan'l Campbell	7/8/99

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	TCLP 8 metals	TCLP 8260	TCLP 8270	TCLP PCBs	Corrosivity Ignitability	Reactivity
01	7/8/99	1200	Soil	SGG-0198	1	C	X	X	X	X	X	X
02	7/8/99	1210	Soil	SGG-0199	1	C	X	X	X	X	X	X

CONTRACT LABORATORY P. O. NUMBER: DEL - Reno

REMARKS: P9907029

Custody Seal(s) ... Cooler(s) ... 4C

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Dan'l Campbell	7/9/99 1700	Reno Valley	rec'd VIA FEDEX	7/10/99 850	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME: ☒ ROUTINE ☐ RUSH

CARRIER CO.:

BILL NO.:

SAMPLE RECEIPT REMARKS:

CHARGE CODE:

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev. 5-9)

O. Box 1980
obbs, NM 88241-1980
District II - (505) 748-1283
S. First
esia, NM 88210
District III - (505) 334-6178
0 Rio Brazos Road
c, NM 87410
rict IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Origina
Plus 1 Copy
to appropriate
District Office

RECEIVED
MAR 3 0 1999
Environmental Bureau
Oil Conservation Division

RECEIVED
MAY 03 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator KN Energy
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Lamesa Compressor Station
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp
3. Address of Facility Operator P.O. Box 1658 Roswell	8. State NM 88202
7. Location of Material (Street Address or ULSTR) Halfway between	Seminole & Lamesa TX

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Tank bottoms and b. s. from the pipeline liquids Tanks.

Estimated Volume 70 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy (Waste Management Facility Authorized Agent) TITLE: v-p DATE: 4-28-99

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 5-3-99

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: KN ENERGY
LAMESA COMPRESSOR STATION

Source: pipeline liquids tanks

Disposal Location: 34 mi east of Tatum on Hiway 380
into solidifacation unit.

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for KN ENERGY concur with the status of the waste from the subject site.

Name STEVE STUDTMANN

Title/Agency OPERATIONS COORDINATOR

Address Box 8788

Loop, Texas 79342

Signature

Date 4-16-99

PAGE 05
GANDY MARLEY, INC.
5056259706
04/26/1999 15:21

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

April 15, 1999
Receiving Date: 04/05/99
Sample Type: Sludge
Project No: GMI4-1
Project Location: Lamesa Compressor Station

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, NM 88202

Sampling Date: 4/[illegible]
Sample Condition: Int 5 C
Sample Receiv[illegible]
Project Name: K[illegible]gy

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	[illegible] (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	[illegible]
T122196	Pipeline liquids tank	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.10	[illegible]
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	[illegible]
CCV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	[illegible]
REPORTING LIMIT		0.10	0.10	0.02	0.5	0.10	0.05	0.10	[illegible]
RPD		0	0	0	6	0	2	0	[illegible]
% Extraction Accuracy		100	90	85	90	90	105	85	[illegible]
% Instrument Accuracy		100	100	100	100	100	100	100	[illegible]
PREP DATE		04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	04/06/99	[illegible]
ANALYSIS DATE		04/07/99	04/07/99	04/07/99	04/07/99	04/07/99	04/07/99	04/07/99	[illegible]

METHODS: EPA SW 846-1311, 6010B, 7470
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
TCLP METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 0.40 mg/L Ag Hg SPIKE: 0.0050
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.050

Director, Dr. Blair Leftwich

4-15-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88201

April 15, 1999
Receiving Date: 04/05/99
Sample Type: Sludge
Project No: GMI4-1
Project Location: Lamesa Compressor Station

Analysis Date: 04/08/98
Sampling Date: 04/01/99
Sample Condition: Intact & Cool
Sample Received by: VW

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY TO STEEL (mm/yr)	pH (s.u.)	FLASHPOINT (F)
	EPA LIMIT =	---	500	250	>6.5 mm/yr	<2 >12.5	>140 F
T122196	Pipeline liquids tank	Non-reactive	<10	<2.5	3.13 non	5.0	>150 non
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

4-15-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88201

April 15, 1999
Receiving Date: 04/05/99
Sample Type: Sludge
Project No: GMI4-1
Project Location: Lamesa Compressor Station

Set Date: N/A
Extraction Date: 04/12/99
Analysis Date: 04/13/99
Sampling Date: 04/01/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: KN Energy

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T122196 Pipeline *Liquid Tank*	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	84	11	60	105
1,4-Dichlorobenzene	7.5	0.05	ND	78	2	52	98
o-Cresol	200.0	0.05	ND	78	3	68	98
m,p-Cresol	200.0	0.05	ND	77	3	123	96
Hexachloroethane	3.0	0.05	ND	77	7	54	96
Nitrobenzene	2.0	0.05	ND	76	5	65	95
Hexachlorobutadiene	0.5	0.05	ND	77	5	56	96
2,4,6-Trichlorophenol	2.0	0.05	ND	85	7	82	106
2,4,5-Trichlorophenol	400.0	0.05	ND	84	4	89	105
2,4-Dinitrotoluene	0.13	0.05	ND	84	4	74	105
2,4-D	10.0	0.05	ND	82	3	72	103
Hexachlorobenzene	0.13	0.05	ND	80	3	78	100
2,4,5-TP	1.0	0.05	ND	81	0	81	101
Pentachlorophenol	100.0	0.05	ND	87	0	79	109

Surrogates	**% RECOVERY**
2-Fluorophenol	42
Phenol-d6	31
Nitrobenzene-d5	73
2-Fluorobiphenyl	79
2,4,6-Tribromophenol	91
Terphenyl-d14	102

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MA

Director, Dr. Blair Leftwich

4-15-99
Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88201

April 15, 1999
Receiving Date: 04/05/99
Sample Type: Sludge
Project No: GMI4-1
Project Location: Lamesa Compressor Station

Extraction Date: 04/08/99
Analysis Date: 04/08/99
Sampling Date: 04/01/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: KN Energy

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit*	T122196 Pipeline Liquids Tank	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.1	ND	120	3	119	120
1,1-Dichloroethene	0.70	0.1	ND	107	3	114	107
Methyl Ethyl Ketone	200.0	1	ND	118	4	103	118
Chloroform	6.00	0.1	ND	100	4	108	100
1,2-Dichloroethane	0.50	0.1	ND	92	0	99	92
Benzene	0.50	150	ND	119	2	132	119
Carbon Tetrachloride	0.50	0.1	ND	99	0	123	99
Trichloroethene	0.50	0.1	ND	110	2	119	110
Tetrachloroethene	0.70	0.1	ND	120	3	131	120
Chlorobenzene	100.00	0.1	ND	110	4	116	110
1,4-Dichlorobenzene	7.50	0.1	ND	106	1	110	106

SURROGATES	**% Recovery**
Dibromofluoromethane	87
Toluene-d8	770**
4-Bromofluorobenzene	130

***Elevated reporting limit due to matrix.**
****Surrogate recovery out of control due to the presence of heavy hydrocarbon.**

ND = Not Detected

METHODS: EPA SW 846-1311, 8260
CHEMIST: JG

Director, Dr. Blair Leftwich

4-15-99
Date

122194

Page ____ of ____

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: 990406O6

Company Name: Gandy Marley Inc. Phone #: 505-625-9206

Address: (Street, City, Zip) Box 1658 Roswell NMex 88202 Fax #: 505 625-9706

Contact Person: Larry GANDY

Invoice to: (If different from above)

Project #: GMI41 Project Name: KN Energy

Project Location: Lamesa Compressor Station Sampler Signature: Larry Gandy

LAB #	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
122194	Pipeline liquids tank	1	qt				X			X		4/99	9Am
	Pipeline liquids tank	2	Vial										

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
					X	X	X		X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Larry Gandy	4-1-99	9Am			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

REMARKS:

4/1

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of COC

O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
11 S. First
rtesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
tec, NM 87410
istrict IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

RECEIVED
APR 23 1999
Environmental Bureau
Oil Conservation Division

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator NABORS DRILLING
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site WEST BENDER HOBBS
2. Management Facility Destination Gandy Marley Land Farm	6. Transporter GANDY CORP.
3. Address of Facility Operator 34 miles West of Tatum	8. State
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

CONTAMINATED DIRT FROM DIESEL TANK LEAK

Estimated Volume 300 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy (Waste Management Facility Authorized Agent) TITLE: VICE-PRESIDENT DATE: 4-8-99

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J. Parker TITLE: Env. Geologist DATE: 4/23/99

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: NABORS DRILLING

Source: HOBBS YARD--WEST BENDER

Disposal Location: GANDY MARLEY, INC.
7200 East Second, Roswell, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for NABORS DRILLING concur with the status of the waste from the subject site.

Name SAM CALLAWAY
Title/Agency President CALLAWAY SAfety Equip CO. INC
for NABORS Drilling Inc
Address 3311 N. Grimes
Hobbs, NM 88240
Signature Sam Callaway
Date 4-8-99



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

simons petroleum

1120 N.W. 63rd Street • Suite 200
Oklahoma City, Oklahoma 73116-6505
BILLING INQUIRIES: (405) 879-3500
ORDERS: 1-800-256-2058

INVOICE

Page No.	Invoice Date
1	03/19/98
Customer No.	Invoice No.
20000	222082

Ship Date:

SOLD TO: Nabors Drilling USA
Vicki Myers
Western Div.-Midland Dist.
500 West Wall St.
Midland, TX 79701

SHIP TO: Nabors#973;CarlisleStateCom#1,
Lea Co, NM _____, NM 00000

P.O. Number	Account No.	Ship Via	F.O.B.	Terms
	49060182	Simons Petroleum Int.	Fl	Net 10 days

Quantity Ordered / Shipped	Unit	Item Code / Description	Unit Price	Extension
B/L Number 860279				
#2 DIESEL FUELS DID NOT CONTAIN				
#2 VISIBLE EVIDENCE OF DYE."				
0100				
1,001.0	GAL	Sulfur #2 Diesel	0.596000	596.60
		New Mexico Sales Tax	5.000000%	42.04
		Federal Excise Tax - Diesel	0.244000	244.24
		Lea County Sales Tax	0.250000%	2.10
		N.M. Product Loading Fee	0.018800	15.82

DIESEL FUEL DID NOT CONTAIN
VISIBLE EVIDENCE OF DYE

PLEASE REMIT TO:
SIMONS PETROLEUM, INC.
P.O. BOX 87-9710
KANSAS CITY, MO 64187-9710

903.00

simons petroleum

5532 NORTH WESTERN
OKLAHOMA CITY, OK 73118
(405) 843-8187
1-800-256-2056

Delivery Ticket

This is not an Invoice!

Nº WS 428026

SOLD TO: Nabors Drilling Co.

SHIP TO: Location: Nabors Rig 973
Lease: Carlisle St. #1
County: Lea N.M.

Cust. Ord. No.	ST. LIC. OR TAX NO.	SHIPPED FROM	B/L NO.	DELIVERY DATE
		Odessa-Midland, TX	852878	3-19-98

QUANTITY GROSS	QUANTITY NET	COMMODITY DESCRIPTION	PRICE	AMOUNT
	1400	☒ NA 1993 DIESEL - L.S. CLEAR	.43	602.00
		☐ UN 1203 PREMIUM N.L. GASOLINE	.596	
		☐ UN 1203 PLUS GASOLINE	.[illegible]	
		☐ UN 1203 N.L. GASOLINE		
		☐ UN 1230 METHANOL		
		☐ UN 1255 SOLVENT		

DIESEL FUEL DID NOT CONTAIN VISIBLE EVIDENCE OF DYE.

DRIVER 220 TRUCK
TRK # 378 WELL # 9425
MAJOR 4501 SUB 401
EXPLANATION Diesel Fuel
for Lea
TAX
REBILL C.M.
TOOLPUSHER APP. [signature]
SUPT. APP.
DIST. MGR. APP.

Tank# #2 Tank# Tank#
Begin 45 3/4 Begin Begin
End 52 " End End

RECEIVED BY

MAR.15'99 4:42 AM SIMONS DISPATCH 405 848 6762 #4073 P.002/004

Date Issued: 01-04-85
Supersedes: 09-15-84

TEXACO
MATERIAL SAFETY DATA SHEET

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY
Product Code and Name:
01467 TAX EXEMPT TEXACO LOW SULFUR DIESEL 2
Chemical Name and/or Family or Description:
Diesel Fuel

Manufacturer's Name and Address:
TEXACO REFINING AND MARKETING, INC

P.O. Box 7812
Universal City, CA 91608

Telephone Numbers:

Transportation Emergency	-Company .. :	(914) 831-3400
	CHEMTREC :	(800) 424-9300
Health Emergency	-Company :	(914) 831-3400
General MSDS Assistance	:	(914) 835-7204
Technical Information	-Fuels :	(914) 835-7336
	-Chemical :	(512) 458-5643
	-Lubricant/ Antifreezes :	(800) 782-7852
	-Additives :	(713) 235-8278
	-Solvents :	(800) 876-3798

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA	IARC	NTP	OTHER	NONE
-	-	-	X	-

Composition: (Sequence Number and Chemical Name)

Seq.	Chemical Name	CAS Number	Range in %
01 *	A complex mixture of hydrocarbons produced by crude oil distillation. Consists predominantly of hydrocarbons ranging from C-9 to C-20, and boiling in the range of 325-675F. The hydrotreated or hydrosulfurized product also contains some hydrocarbons produced by the distillation of the catalytic cracking. The latter materials contain bicyclic and tricyclic aromatic hydrocarbons.		100.00

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).
* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

Exposure Limits referenced by Sequence Number in the Composition Section

Seq.	Limit
None	

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW
Appearance:
Bright and clear liquid
Odor:
Petroleum odor

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

PRODUCT CODE: 01467
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2

Date Issued: 01-04-95
Supersedes: 09-15-94

3. HAZARD IDENTIFICATION (CONT)

WARNING STATEMENT

WARNING ! MAY CAUSE DIZZINESS AND DROWSINESS
CAUSES SKIN IRRITATION
MAY CAUSE EYE IRRITATION
ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE
COMBUSTIBLE LIQUID AND VAPOR
USE ONLY AS A FUEL

ATTENTION ! CONTAINS MIDDLE DISTILLATES WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA

HMIS			MFPA		
Health:	3	Reactivity: 0	Health:	3	Reactivity: 0
Flammability:	2	Special : -	Flammability:	2	Special : -

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure:	X	X	X	-

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:
May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

Skin:
Causes severe irritation with pain, severe excess redness and swelling with chemical burns, blister formation, and possible tissue destruction.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact: see other effects, below, and Section 11 for information regarding potential long term effects.

Prolonged, widespread, or repeated skin contact may result in the absorption of potentially harmful amounts of material.

Inhalation:
Vapors or mist may cause irritation of the nose and throat.

Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, disorientation, headache, nausea, and vomiting. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result. Prolonged or repeated overexposure may result in the absorption of potentially harmful amounts of material.

Ingestion:
If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage.

Sensitization Properties:
Unknown.

Chronic:
NIOSH has recommended that whole diesel exhaust be regarded as a potential occupational carcinogen, based on findings of carcinogenic responses in laboratory animals exposed to whole diesel exhaust. The excess cancer risk for workers exposed to diesel exhaust has not been calculated; the probability of developing cancer should be decreased by minimizing exposure to the lowest feasible limits.

Repeated skin contact may cause a persistent irritation or dermatitis.

Medical Conditions Aggravated by Exposure:
Skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:
None

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

SIMONS DISPATCH 405 848 6782 #8061 2.002

PRODUCT CODE: 01487 Date Issued: 01-04-95
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2 Supersedes: 09-15-94

4. FIRST AID MEASURES

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:
Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before reuse.

Ingestion:
If person is conscious and can swallow, give two glasses of water (16 oz.) but do not induce vomiting. If vomiting occurs, give fluids again. Have medical personnel determine if evacuation of stomach or induction of vomiting is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation:
If inhaled, remove to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Get medical attention immediately.

Other Instructions:
Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

5. FIRE-FIGHTING MEASURES

Ignition Temperature (degrees F):
500
Flash Point (degrees F):
125 (CC)
Flammable Limits (%):
Lower: .5
Upper: 4.1

Recommended Fire Extinguishing Agents And Special Procedures:
Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers.

Unusual or Explosive Hazards:
None

Special Protective Equipment for Firefighters:
Wear special chemical protective clothing and positive pressure self-contained breathing apparatus. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Decontaminate or discard any clothing that may contain chemical residues.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures In Case of Accidental Release, Breakage or Leakage:
Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

APR.15.1999 15:38 405 848 6752 SIMONS DISPATCH 405 848 6752 #4061 P.003

PRODUCT CODE: 01487
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2

Date Issued: 01-04-95
Supersedes: 09-15-94

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

If more than 100,000 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)).

7. HANDLING AND STORAGE

Precautions to be Taken in Handling:
Eye wash and safety shower should be available nearby when this product is handled or used.

Storage:
Store away from heat and open flame. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:
Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:
Protective clothing such as coveralls or lab coats must be worn. Launder or dry-clean when soiled. Gloves resistant to chemicals and petroleum distillates required. When handling large quantities, impervious suits, gloves, and rubber boots must be worn.

Respiratory Protection:
Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:
Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or NIOSH approved respirator as appropriate.

Exposure Limit for Total Product:
None established for product; refer to Section 2 for component exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Bright and clear liquid

Odor:
Petroleum odor

Boiling Point (degrees F):
650

Melting/Freezing point (degrees F):
Not applicable.

Specific Gravity (water=1):
.8521

pH of undiluted product:
Not applicable.

Vapor Pressure:
< 10 mmHg at 68.0

Viscosity:
3 cSt at 37.7 C

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

PRODUCT CODE: 01467 Date Issued: 01-04-95
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2 Supersedes: 09-15-94

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

VOC Content:
Not determined.

Vapor Density (air=1):
Not determined.

Solubility in Water (%):
< .1

Other: None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:
(If Others is checked below, see comments for details)

Air	Water	Heat	Strong Oxidizers	Others	None of These
-	-	-	X	-	-

Comments:
None

Products Evolved When Subjected to Heat or Combustion:
Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

Hazardous Polymerizations: DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION(ANIMAL TOXICITY DATA)
Median Lethal Dose
Oral:
LD50 Similar product 5.00 ml/kg (rat) practically non-toxic
Inhalation:
Not determined.
Dermal:
LD50 Similar product > 5.00 ml/kg (rabbit) practically non-toxic
Irritation Index, Estimation of Irritation (Species)
Skin:
(Draize) Similar product 6.80 /8.0 (rabbit) extremely irritating
Eyes:
(Draize) Believed to be > 15.00 - 26.00 /110 (rabbit) slightly irritating
Sensitization:
Not determined.
Other:
Middle distillates have caused skin irritation and skin cancer in laboratory animals when repeatedly applied and left in place between applications. Studies to further evaluate the carcinogenic potential of middle distillates are currently underway. Kidney damage has also been observed in laboratory animals exposed to middle distillates.

12. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
This product (as presently constituted) has the RCRA classification of benzene toxicity and ignitability. If discarded in its present form, it would have the hazardous waste numbers D018 and D001 respectively. Under RCRA , it is the responsibility of the user of the product to determine , at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may change the classification to non-hazardous, or hazardous for reasons other than, or in addition to benzene toxicity and ignitability.

Remarks
None

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

PRODUCT CODE: 01887 Date Issued: 01-04-95
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2 Supersedes: 09-15-94

13. TRANSPORT INFORMATION

Transportation
DOT:
Proper Shipping Name:
Fuel Oil
Hazard Class:
Combustible liquid (LAND TRANSPORT ONLY-49CFR 173.120(b)(2))
Identification Number: NA 1993
Packing Group: III
Label Required:
None

Marine pollutant:
Not applicable

This product contains a DOT Hazardous Substance or Substances, listed in Section 14 of the MSDS. If the product's shipping container holds at least 100,000 lbs, then the DOT information must be accompanied with RQ notation, or, an otherwise 'Not Regulated' product will be classified as Environmentally Hazardous (solid/liquid) N.O.S., Class 9, unless the product qualifies for the petroleum exemption (49 CFR 171.8).

IMDG:
Proper Shipping Name:
Not evaluated

ICAO:
Proper Shipping Name:
Not evaluated

TDG:
Proper Shipping Name:
Not evaluated

14. REGULATORY INFORMATION

Federal Regulations:
SARA Title III:
Section 302/304 Extremely Hazardous Substances

Seq.	Chemical Name	CAS Number	Range in %
None			

Section 302/304 Extremely Hazardous Substances (CONT)

Seq.	TPQ	RQ
None		

Section 311 Hazardous Categorization:

Acute	Chronic	Fire	Pressure	Reactive	N/A
X	X	X	-	-	-

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
None		

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)

Seq.	Chemical Name	CAS Number	Range in %
01+	Benzene, (1-methylethyl) -	98-82-8	0.01-0.09
02+	Benzene	71-43-2	0.01-0.09

CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):

Seq.	RQ
01+	5000
02+	10

TSCA Inventory Status:
This product is listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Other:
None.

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

SIMONS DISPATCH 405 848 6782 #001 P.008

PRODUCT CODE: 01487 Date Issued: 01-04-95
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2 Supersedes: 09-15-94

14. REGULATORY INFORMATION (CONT)

State Regulations:
California Proposition 65:
The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
Benzene	71-43-2

States Right-to-know Regulations:

Chemical Name	State Right-to-know
Benzene, (1-methylethyl) -	CT,FL,IL,LA,MA,NJ,PA,RI,MI
Benzene	CT,FL,IL,LA,MA,NJ,PA,RI,MI
1,2,4-trimethylbenzene	NJ,PA

State list: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan) LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island).

International Regulations:
Export Notification (TSCA-12b):
This product may be subject to export notification under TSCA section 12(b): contains:
Benzene, (1-methylethyl) -
1,2,4-trimethylbenzene

WHMIS Classification:
Not determined

Canada Inventory Status:
N.D.

EINECS Inventory Status:
N.D.

Australia Inventory Status:
N.D.

Japan Inventory Status:
N.D.

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:
Not determined.

Mobility:
Not determined.

Persistence and Biodegradability:
Not determined.

Potential to Bioaccumulate:
Not evaluated.

Remarks:
Not evaluated.

16. OTHER INFORMATION

THIS PRODUCT IS INTENDED FOR USE AS A MOTOR FUEL ONLY.

This product is not intended for use in space heaters. Do not use in agricultural sprays.

Texaco recommends that all exposures to this product be minimized by strictly adhering to recommended occupational controls procedures to avoid any potential adverse health effects.

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

PRODUCT CODE: 01487 Date Issued: 01-04-95
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2 Supersedes: 09-15-94

16. OTHER INFORMATION (CONT)

AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM, IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Date: 01-04-95 New X Revised, Supersedes: 09-15-94
Date printed: 01-11-95

Inquiries regarding MSDS should be directed to:
Texaco Inc.
Manager, Product Safety
P.O. Box 509
Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

PRODUCT CODE: 01467 Date Issued: 01-04-95
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2 Supersedes: 09-15-94

17. PRODUCT LABEL

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

01467 TAX EXEMPT TEXACO LOW SULFUR DIESEL 2

WARNING STATEMENT

WARNING ! MAY CAUSE DIZZINESS AND DROWSINESS
CAUSES SKIN IRRITATION
MAY CAUSE EYE IRRITATION
ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE
COMBUSTIBLE LIQUID AND VAPOR
USE ONLY AS A FUEL

ATTENTION ! CONTAINS MIDDLE DISTILLATES WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA

PRECAUTIONARY MEASURES

-Use only with adequate ventilation.
-Keep away from heat and flame.
-Avoid breathing vapor, mist, or gas.
-Avoid contact with eyes, skin, and clothing.
-Keep container closed.
-Never siphon by mouth.
-Wash thoroughly after handling.

FIRST AID

Eye Contact:
Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin Contact:
Immediately remove contaminated clothing and shoes. Under a safety shower, flush skin thoroughly with large amounts of running water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Discard or decontaminate clothing and shoes before reuse.

Ingestion:
If person is conscious and can swallow, give two glasses of water (16 oz.) but do not induce vomiting. If vomiting occurs, give fluids again. Have medical personnel determine if evacuation of stomach or induction of vomiting is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation:
If inhaled, remove to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Get medical attention immediately.

Note to Physician:
Aspiration of this product during induced emesis may result in severe lung injury. If evacuation of stomach is necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation. Contact a Poison Center for additional treatment information.

FIRE

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

If more than 100,000 pounds of product is spilled, then report spill according to SARA 304 and/or CERCLA 102(a) requirements, unless product qualifies for the petroleum exemption (CERCLA Section 101(14)).

Chemical Name	CAS Number	Range in %

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

PRODUCT CODE: 61487
NAME: TAX EXEMPT TEXACO LOW SULFUR DIESEL 2

Date Issued: 01-04-95
Supersedes: 08-15-94

17. PRODUCT LABEL (CONT)

* A complex mixture of hydrocarbons produced by crude oil distillation. Consists predominantly of hydrocarbons ranging from C-9 to C-20, and boiling in the range of 325-675F. The hydrotreated or hydrosulfurized product also contains some hydrocarbons produced by the distillation of the catalytic cracking. The latter materials contain bicyclic and tricyclic aromatic hydrocarbons. 100.00

PRODUCT IS HAZARDOUS ACCORDING TO OSHA (1910.1200).
* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.

Pennsylvania Special Hazardous Substance(s)	CAS Number	Range in %
Benzene	71-43-2	0.01-0.09

HMIS			NFPA	
Health: 3	Reactivity: 0		Health: 3	Reactivity: 0
Flammability: 2	Special : *		Flammability: 2	Special : *

Transportation
DOT:
Proper Shipping Name:
Fuel Oil
Hazard Class:
Combustible liquid (LAND TRANSPORT ONLY-49CFR 173.120(b)(2))
Identification Number: NA 1993
Packing Group: III
Label Required:
None

Marine pollutant:
Not applicable

This product contains a DOT Hazardous Substance or Substances, listed in Section 14 of the MSDS. If the product's shipping container holds at least 100,000 lbs. then the DOT information must be accompanied with RQ notation, or, an otherwise 'Not Regulated' product will be classified as Environmentally Hazardous (Solid/liquid) N.O.S., Class 9, unless the product qualifies for the petroleum exemption (49 CFR 171.8).

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Manufacturer's Name and Address:
TEXACO REFINING AND MARKETING, INC

P.O. Box 7812
Universal City, CA 91608

TRANSPORTATION EMERGENCY Company: (914) 831-3400
CHEMTREC: (800) 424-9300

HEALTH EMERGENCY Company: (914) 831-3400

O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
APR 21 1999
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator ENRON TRANSPORTATION
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site EUNICE PLANT
2. Management Facility Destination 34 miles west of Tatum	6. Transporter GANDY
3. Address of Facility Operator Box 1658, Roswell	8. State NM
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

3-55 gallon drums of sludge

Estimated Volume 3-55 gal drums cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: Vice-President DATE: 4-19-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J. Parker TITLE: Env. Geologist DATE: 4/23/99

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: ENRON TRANSPORATION & STORAGE

Source: EUNICE PLANT

Disposal Location: 34 miles west of Tatum onhighway 380

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for ENRON TRANSPORTATION & STORAGE concur with the status of the waste from the subject site.

Name KAY Woods

Title/Agency SR. O & M TECH

Address P.O. Box 759
KERMIT, TX 79745

Signature Kay Woods

Date 4/14/99

ENRON CORP

Environmental Sample Chain of Custody

Sample Number: KW021799

District: Alb.

Facility: EUNICE PLANT

City: EUNICE

State: NEW MEXICO

Sample Location (Attach Sketch if Necessary): 55 gal drums of sludge in Burm (X3) on south side eng. room

Sample Type: LIQUID/Solid COMPOSITE

Method:

Sample Date: 2/17/99

Time: 0900

Sampler: Kay Woods

Sample Container Description: GLASS JAR

Volume: 1 LITER

Remarks

Shipped By: Self

Date: 2/23/99

Transport

Carrier:

Phone:

Date Shipped:

Time:

Shipping Document:

Laboratory

Laboratory: Mobile Analytical's

Address: Odessa, Tx

Instructions: Flashpoint - Oil Phase

Flashpoint - Sludge

RCI, TPH, TCLP-METALS (Not PESTICIDES)

Date Received: 2-23-99

Time: 10:10

Custodian: Jenny Linley

Date Analyzed:

Statement of Performance

I hereby certify that the requested tests were performed on the included sample in accordance with methods prescribed by the appropriate enforcement agency. The specific methods are listed on the attached analytical results report.

Date	Responsible Party

ATTENTION

Potentially hazardous sample: toxic, corrosive, and/or ignitable.
If found, call collect - Environmental Affairs (713) 853-6161.

Form 011-3975 (5/87)



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: [illegible] Date: 1-15-99

Sample Location
Valve or Receiver No.

Vol. Collect. During Flush

Sampler

[illegible]

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
1 A B C	N/A	N/A	Volatiles Semi-Volatiles
2 A B C	N/A	N/A	TPH BTX
3 A B C	N/A	N/A	TPH BTX
4 A B C	N/A	N/A	Volatiles Semi-Volatiles

Relinquished By [illegible] Date 1-25-99

Relinquished To [illegible] Date 1-25-99

Relinquished By [illegible] Date 1-25-99

Relinquished To [illegible] Date 1-25-99

Relinquished By [illegible] Date

Relinquished To [illegible] Date

Relinquished By [illegible] Date

Relinquished By [illegible] Date

Laboratory

Received [illegible] Date

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

mar 3
mar 4

MARCH 08, 1999

MS. KAY WOODS
TRANSWESTERN PIPELINE CO.
P.O. BOX 759
KERMIT, TEXAS 79745

DEAR MS. WOODS:

THE FOLLOWING ARE THE RESULTS OF THE KW021799 EUNICE PLANT 02/17/99 SLUDGE SAMPLE FOR TCLP METALS, RECEIVED 02/23/99, LAB NO. 292:

TEST REQUESTED	METHOD	TCLP METALS mg/L	REGULATORY LIMIT mg/L	Q.C.REF. mg/L	SPIKE RECOVERY
ARSENIC	7060	< 0.10	5.00	0.10	88%
BARIUM	7081	0.36	100.00	0.10	116%
CADMIUM	7131	< 0.10	1.00	0.10	87%
CHROMIUM	7191	< 0.10	5.00	0.10	94%
LEAD	7421	< 0.10	5.00	0.10	94%
SELENIUM	7740	< 0.10	1.00	0.10	89%
SILVER	7761	< 0.10	5.00	0.10	88%
MERCURY	7470	< 0.01	0.20	0.01	96%

NOTE: < = LESS THAN

SAMPLE MATRIX: WATER/SLUDGE

METHODS: METALS EPA 1311, 7000, 7470

SAMPLES CONTAINING HAZARDOUS AND TOXIC SUBSTANCES WILL BE RETURNED TO THE POINT OF ORIGIN FOR DISPOSAL. IF THIS IS NOT POSSIBLE AND MOBILE LABS HAS TO DISPOSE OF THE SAMPLE IN ACCORDANCE WITH EPA REGULATIONS, THEN ADDITIONAL CHARGES WILL BE BILLED TO COVER THE COST OF DISPOSAL OF THIS SAMPLE.

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

Stephen Reid

STEPHEN REID
SR/dt

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

March 3, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 292
Eunice Plant
55 gal Drums of Sludge
Sample # KW021799
Sampled 02/23/99, Received 02/23/99

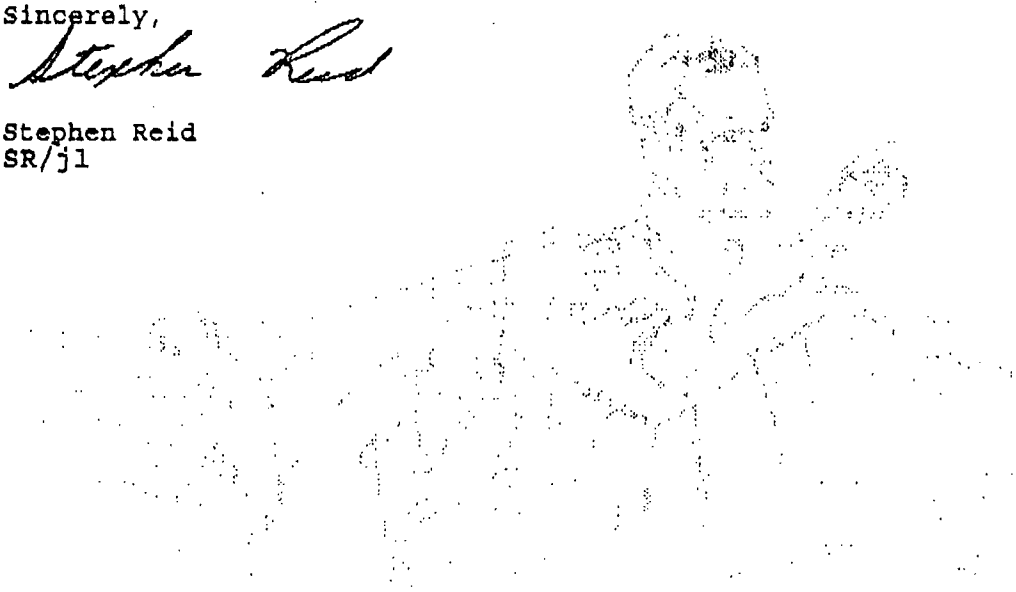
	Flash Point
Oil Phase	> 200°F
Water Phase	> 200°F

NOTE: > = Greater Than
Test Method - Tag Closed Tester ASTM D-56

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl



4-12-1999 7:57AM FROM
P.8

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

March 3, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 292
Eunice Plant Composite
55 gal Drums of Sludge
Sample # KW021799
Sampled 02/23/99, Received 02/23/99

Total Petroleum Hydrocarbons

16.0 wt%

Test Method: TPH 418.1

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please feel free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

4-12-1999 7:57AM FROM
RECEIVED Apr-12-99 07:48 FROM CCLI GS → KERMIT TURBINE STA
page 9 P.9

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

March 4, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 292
Eunice Plant Oil Phase
55 gal Drums of Sludge
Sample ID # KW021799
Sampled 02/23/99, Received 02/23/99

Compound	Method	Concentration	Units
Reactive Cyanide	SW 7.3.4.1	< 0.1	mg/kg
Reactive Sulfide	SW 7.3.4.1	< 0.1	mg/kg
Corrosivity	SW 9045	5.82	pH
Ignitability	SW 1010	> 230	Deg F

NOTE: Results are from another Laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

RECEIVED Apr-12-99 07:48 FROM 4-12-1999 7:58AM P.10
FROM CCIII 03 → KERMIT TOMLINE SIA Page 10

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

March 4, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 292
Eunice Plant Water Phase
55 gal Drums of Sludge
Sample ID # KW021799
Sampled 02/23/99, Received 02/23/99

Compound	Method	Concentration	Units
Reactive Cyanide	SW 7.3.4.1	< 0.1	mg/kg
Reactive Sulfide	SW 7.3.4.1	< 0.1	mg/kg
Corrosivity	SW 9045	7.04	pH
Ignitability	SW 1010	> 230	Deg F

NOTE: Results are from another Laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

RECEIVED Apr-12-99 07:48 FROM 4-12-1999 7:58AM P.11
FROM CCLLI 03 → KERMIT JOHNINE SIA page 11

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

February 1, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 188
Eunice Plant Composite Sample
Sample 4 A, B, & C
Sampled 01/25/99, Received 01/25/99

Semi-Volatiles Results Lab No. 188	**Concentration mg/kg**	**Detection Limit mg/kg**
2-Picoline	ND	7.5
N-Nitrosodimethylamine	ND	7.5
1,2-Dichlorobenzene	ND	7.5
Pronamide	ND	7.5
Pyridine	ND	7.5
2-Methylpyridine	ND	7.5
Methylmethanesulfonate	ND	7.5
Ethylmethanesulfonate	ND	7.5
Phenol	ND	7.5
Aniline	ND	7.5
bis(2-Chloroethyl)ether	ND	7.5
2-Chlorophenol	ND	7.5
1,3-Dichlorobenzene	ND	7.5
1,4-Dichlorobenzene	ND	7.5
Benzyl Alcohol	ND	7.5
o-Cresol	ND	7.5
bis(2-Chloroisopropyl)ether	ND	7.5
Benzoic Acid	ND	7.5
m+p-Cresol	ND	7.5
Acetophenone	ND	7.5
n-Nitrosodi-n-propylamine	ND	7.5
Hexachloroethane	ND	7.5
Nitrobenzene	ND	7.5
N-Nitrosopiperidine	ND	7.5
Isophorone	ND	7.5
2-Nitrophenol	ND	7.5
2,4-Dimethylphenol	ND	7.5
1,2,4-Trichlorobenzene	ND	7.5
bis(2-Chloroethoxy)methane	ND	7.5
2,4-Dichlorophenol	ND	7.5
Naphthalene	ND	7.5
4-Chloroaniline	ND	7.5
2,6-Dichlorophenol	ND	7.5
Hexachlorobutadiene	ND	7.5
N-Nitroso-di-n-butylamine	ND	7.5
4-Chloro-3-methylphenol	ND	7.5

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

Semi-Volatiles Results Lab No. 188	Concentration mg/kg	Detection Limit mg/kg
2-Methylnaphthalene	ND	7.5
1,2,4,5-Tetrachlorobenzene	ND	7.5
Hexachlorocyclopentadiene	ND	7.5
2,4,6-Trichlorophenol	ND	7.5
2,4,5-Trichlorophenol	ND	7.5
2-Chloronaphthalene	ND	7.5
1-Chloronaphthalene	ND	7.5
2-Nitroaniline	ND	7.5
Dimethylphthalate	ND	7.5
2,6-Dinitrotoluene	ND	7.5
Acenaphthylene	ND	7.5
3-Nitroaniline	ND	7.5
Acenaphthene	ND	7.5
Diethylphthalate	ND	7.5
2,4-Dinitrophenol	ND	7.5
4-Nitrophenol	ND	7.5
Dibenzofuran	ND	7.5
2,4-Dinitrotoluene	ND	7.5
Pentachlorobenzene	ND	7.5
1-Naphthylamine	ND	7.5
2-Naphthylamine	ND	7.5
2,3,4,6-Tetrachlorobenzene	ND	7.5
Di-n-Butylphthalate	ND	7.5
4-Chlorophenyl-phenyl ether	ND	7.5
Fluorene	ND	7.5
4-Nitroaniline	ND	7.5
4,6-Dinitro-2-methylphenol	ND	7.5
Diphenylamine	ND	7.5
Azobenzene	ND	7.5
Phenacetin	ND	7.5
4-Bromophenyl phenylether	ND	7.5
Hexachlorobenzene	ND	7.5
4-Aminobiphenyl	ND	7.5
Pentachlorophenol	ND	7.5
Pentachloronitrobenzene	ND	7.5
Benzidine	ND	7.5
Phenanthrene	ND	7.5
Anthracene	ND	7.5
Fluoranthene	ND	7.5
1,2-Diphenylhydrazine	ND	7.5
Pyrene	ND	7.5
Dimethylaminoazobenzene	ND	7.5
Di-n-octylphthalate	ND	7.5
Butylbenzylphthalate	ND	7.5
3,3'-Dichlorobenzidine	ND	7.5

Mobile Analytical Laboratories

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WEST UNIVERSITY AND WESTOVER STREET
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ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

Semi-Volatiles Results Lab No. 188	Concentration mg/kg	Detection Limit mg/kg
Chrysene	ND	7.5
Benz(a)anthracene	ND	7.5
bis(2-Ethylhexyl)phthalate	ND	7.5
7,12-Dimethylbenz(a)anthracene	ND	7.5
Benzo(b)fluoranthene	ND	7.5
Benzo(a)pyrene	ND	7.5
Benzo(k)fluoranthene	ND	7.5
Benzo(g,h,i)perylene	ND	7.5
Indeno(1,2,3-cd)pyrene	ND	7.5
Dibenz(a,j)acridine	ND	7.5
Dibenz(a,h)anthracene	ND	7.5

Surrogate Compound	Recovery (%)	QA/QC Recovery Limits (%)
Nitrobenzene-d5	115	35-114
2-Fluorbiphenyl	108	43-116
2,4,6 Tribromophenol	116	10-123
Terphenyl-d14	97	33-141

NOTE: ND = None Detected
Test Method - EPA 8270
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

February 1, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 188
Eunice Plant Composite Sample
Sample 4 A, B, & C
Sampled 01/25/99, Received 01/25/99

Volatile Results Lab No. 188	**Concentration mg/kg**	**Detection Limit mg/kg**
Trichlorofluoromethane	ND	0.025
Chloromethane	ND	0.025
Bromomethane	ND	0.025
Vinyl Chloride	ND	0.025
trans-1,2-Dichloroethene	ND	0.025
Chloroethane	ND	0.025
Methylene chloride	ND	0.025
1,1-Dichloroethene	ND	0.025
1,1-Dichloroethane	ND	0.025
Chloroform	ND	0.025
Bromodichloromethane	ND	0.025
Bromochloromethane	ND	0.025
1,1,1-Trichloroethane	ND	0.025
Carbon Tetrachloride	ND	0.025
1,2-Dichloroethane	ND	0.025
Benzene	ND	0.025
Trichloroethene	ND	0.025
1,2-Dichloropropane	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
trans-1,3-Dichloropropene	ND	0.025
1,2,3-Trichloropropane	ND	0.025
Toluene	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Tetrachloroethene	ND	0.025
Chlorodibromomethane	ND	0.025
1,2-Dibromoethane	ND	0.025
Chlorobenzene	ND	0.025
1,1,1,2-Tetrachloroethane	ND	0.025
Ethylbenzene	ND	0.025
m+p-Xylene	ND	0.025
o-Xylene	ND	0.025
Styrene	ND	0.025
Bromoform	ND	0.025
1,3-Dichlorobenzene	ND	0.025
1,4-Dichlorobenzene	ND	0.025
1,2-Dichlorobenzene	ND	0.025

Mobile Analytical Laboratories

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ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

Surrogate Standard Recovery Lab No. 188		**Limits**
1,2-Dichloroethane-d4	96 %	76-114 %
Toluene-d8	92 %	88-110 %
4-Bromofluorobenzene	97 %	86-115 %

NOTE: ND = None Detected
Test Method - EPA 8260
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid

Stephen Reid
SR/jl

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

February 1, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 185
Eunice Plant Composite Sample
Sample 1 A & B
Sampled 01/25/99, Received 01/25/99

Semi-Volatiles Results Lab No. 185	**Concentration mg/kg**	**Detection Limit mg/kg**
2-Picoline	ND	7.5
N-Nitrosodimethylamine	ND	7.5
1,2-Dichlorobenzene	ND	7.5
Pronamide	ND	7.5
Pyridine	ND	7.5
2-Methylpyridine	ND	7.5
Methylmethanesulfonate	ND	7.5
Ethylmethanesulfonate	ND	7.5
Phenol	ND	7.5
Aniline	ND	7.5
bis(2-Chloroethyl)ether	ND	7.5
2-Chlorophenol	ND	7.5
1,3-Dichlorobenzene	ND	7.5
1,4-Dichlorobenzene	ND	7.5
Benzyl Alcohol	ND	7.5
o-Cresol	ND	7.5
bis(2-Chloroisopropyl)ether	ND	7.5
Benzoic Acid	ND	7.5
m+p-Cresol	ND	7.5
Acetophenone	ND	7.5
n-Nitrosodi-n-propylamine	ND	7.5
Hexachloroethane	ND	7.5
Nitrobenzene	ND	7.5
N-Nitrosopiperidine	ND	7.5
Isophorone	ND	7.5
2-Nitrophenol	ND	7.5
2,4-Dimethylphenol	31.7	7.5
1,2,4-Trichlorobenzene	ND	7.5
bis(2-Chloroethoxy)methane	ND	7.5
2,4-Dichlorophenol	ND	7.5
Naphthalene	ND	7.5
4-Chloroaniline	ND	7.5
2,6-Dichlorophenol	ND	7.5
Hexachlorobutadiene	ND	7.5
N-Nitroso-di-n-butylamine	ND	7.5
4-Chloro-3-methylphenol	ND	7.5

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

Semi-Volatiles Results Lab No. 185	Concentration mg/kg	Detection Limit mg/kg
2-Methylnaphthalene	ND	7.5
1,2,4,5-Tetrachlorobenzene	ND	7.5
Hexachlorocyclopentadiene	ND	7.5
2,4,6-Trichlorophenol	ND	7.5
2,4,5-Trichlorophenol	ND	7.5
2-Chloronaphthalene	ND	7.5
1-Chloronaphthalene	ND	7.5
2-Nitroaniline	ND	7.5
Dimethylphthalate	ND	7.5
2,6-Dinitrotoluene	ND	7.5
Acenaphthylene	ND	7.5
3-Nitroaniline	ND	7.5
Acenaphthene	ND	7.5
Diethylphthalate	ND	7.5
2,4-Dinitrophenol	ND	7.5
4-Nitrophenol	ND	7.5
Dibenzofuran	ND	7.5
2,4-Dinitrotoluene	ND	7.5
Pentachlorobenzene	ND	7.5
1-Naphthylamine	ND	7.5
2-Naphthylamine	ND	7.5
2,3,4,6-Tetrachlorobenzene	ND	7.5
Di-n-Butylphthalate	14.4	7.5
4-Chlorophenyl-phenyl ether	ND	7.5
Fluorene	ND	7.5
4-Nitroaniline	ND	7.5
4,6-Dinitro-2-methylphenol	ND	7.5
Diphenylamine	ND	7.5
Azobenzene	ND	7.5
Phenacetin	ND	7.5
4-Bromophenyl phenylether	ND	7.5
Hexachlorobenzene	ND	7.5
4-Aminobiphenyl	ND	7.5
Pentachlorophenol	ND	7.5
Pentachloronitrobenzene	ND	7.5
Benzidine	ND	7.5
Phenanthrene	ND	7.5
Anthracene	ND	7.5
Fluoranthene	ND	7.5
1,2-Diphenylhydrazine	ND	7.5
Pyrene	ND	7.5
Dimethylaminoazobenzene	ND	7.5
Di-n-octylphthalate	ND	7.5
Butylbenzylphthalate	ND	7.5
3,3'-Dichlorobenzidine	ND	7.5

Mobile Analytical Laboratories

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P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

Semi-Volatiles Results Lab No. 185	Concentration mg/kg	Detection Limit mg/kg
Chrysene	ND	7.5
Benz(a)anthracene	ND	7.5
bis(2-Ethylhexyl)phthalate	ND	7.5
7,12-Dimethylbenz(a)anthracene	ND	7.5
Benzo(b)fluoranthene	ND	7.5
Benzo(a)pyrene	ND	7.5
Benzo(k)fluoranthene	ND	7.5
Benzo(g,h,i)perylene	ND	7.5
Indeno(1,2,3-cd)pyrene	ND	7.5
Dibenz(a,j)acridine	ND	7.5
Dibenz(a,h)anthracene	ND	7.5

Surrogate Compound	Recovery (%)	QA/QC Recovery Limits (%)
Nitrobenzene-d5	103	35-114
2-Fluorbiphenyl	110	43-116
2,4,6 Tribromophenol	117	10-123
Terphenyl-d14	126	33-141

NOTE: ND = None Detected
Test Method - EPA 8270
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid

Stephen Reid
SR/jl

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

February 1, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 185
Eunice Plant Composite Sample
Sample 1 A & B
Sampled 01/25/99, Received 01/25/99

Volatile Results Lab No. 185	**Concentration mg/L**	**Detection Limit mg/L**
Trichlorofluoromethane	ND	0.025
Chloromethane	ND	0.025
Bromomethane	ND	0.025
Vinyl Chloride	ND	0.025
trans-1,2-Dichloroethene	ND	0.025
Chloroethane	ND	0.025
Methylene chloride	ND	0.025
1,1-Dichloroethene	ND	0.025
1,1-Dichloroethane	ND	0.025
Chloroform	ND	0.025
Bromodichloromethane	ND	0.025
Bromochloromethane	ND	0.025
1,1,1-Trichloroethane	ND	0.025
Carbon Tetrachloride	ND	0.025
1,2-Dichloroethane	ND	0.025
Benzene	ND	0.025
Trichloroethene	ND	0.025
1,2-Dichloropropane	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
trans-1,3-Dichloropropene	ND	0.025
1,2,3-Trichloropropane	ND	0.025
Toluene	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Tetrachloroethene	ND	0.025
Chlorodibromomethane	ND	0.025
1,2-Dibromoethane	ND	0.025
Chlorobenzene	ND	0.025
1,1,1,2-Tetrachloroethane	ND	0.025
Ethylbenzene	ND	0.025
m+p-Xylene	ND	0.025
o-Xylene	ND	0.025
Styrene	ND	0.025
Bromoform	ND	0.025
1,3-Dichlorobenzene	ND	0.025
1,4-Dichlorobenzene	ND	0.025
1,2-Dichlorobenzene	ND	0.025

Mobile Analytical Laboratories

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PHONE (915) 337-4744
FAX (915) 337-8781

Surrogate Standard Recovery Lab No. 185		**Limits**
1,2-Dichloroethane-d4	96 %	76-114 %
Toluene-d8	92 %	88-110 %
4-Bromofluorobenzene	97 %	86-115 %

NOTE: ND = None Detected
Test Method - EPA 8260
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time	Date
	2:00 pm	4-6-99

Originating Party	Other Parties
Larry Gandy	Martyna

Subject: Neighbors Drilling Yard in Hobbs
Desil Fule Spill

Discussion: Checkinto Spill Report C-141
Non Exempt Waste oil Field Because it's a Service Co.
MSDS & Process Knowledge on Desel Fule
Can go to Gandy Land Farm
Disel tank From Drilling Yard -- on Bender.

Conclusions or Agreements

Distribution

Signed Martyna

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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MAR 21 2001
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EOTT PIPELINE
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site DARR ANGELL
2. Management Facility Destination GMI LANDFARM	6. Transporter GANDY CORP
3. Address of Facility Operator 34 MILES EAST OF TATUM	8. State NM
7. Location of Material (Street Address or ULSTR) DENTON FIELD	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

SOIL FROM BORING OF MONITOR WELL, RECOVERY WELL CUTTINGS

Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: MANAGER DATE: 3-9-01
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GONDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Maryann J. Kelly TITLE: Environmental Geologist DATE: 3-23-01


Received
Hobbs
OCD



COMMERCIAL LAND FARMS
A New Mexico Enterprise
Serving New Mexico's Needs

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: DARR ANGELL 1, 2, 3

Source: SOIL BORING/MONITOR WELL/RECOVERY WELL CUTTINGS

Disposal Location: 34 Miles West of Tatum, NM on Hwy 380

"As a condition of acceptance for disposal, I hereby certify that this waste as defined by the Environmental Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."
In addition, Generator certifies that nothing has been added to the exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occuring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

I, the undersigned as the agent for EOTT PIPELINE concur with the status of the waste from the subject site.

Name KEN DUTTON
Title/Agency OPERATIONS MANAGER/NEW MEXICO
Address 2540 W. MARLAND
HOBBS, NM 88240
Signature Ken Dutton
Date 8 MAR 01

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. KEN DUTTON
2540 W. MARLAND
HOBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

Sample Type: Soil
Sample Condition: Intact/ Iced/ -2 deg. C
Project #: EOT 2055C
Project Name: Darr Angell 1
Project Location: Lea County, N.M.

Sampling Date: 02/21/01
Receiving Date: 02/21/01
Analysis Date: See Below

ELT#	Field Code	REACTIVITY H2S mg/kg	CN- mg/kg	CORROSIVITY (s.u.)	IGNITABILITY deg F
37568	Cuttings	<100	<50	10.01	>150

ANALYSIS DATE	3/01/01	3/01/01	2/22/01	2/22/01

METHODS: EPA SW-846 1010M,9045, 9012, 9034

Raland K. Tuttle

3-05-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. KEN DUTTON
2540 W. MARLAND
HOBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

Sample Type: Soil
Sample Condition: Intact/ Iced/ -2 deg C
Project #: EOT 2055C
Project Name: Darr Angell 1
Project Location: Lea County, N.M.

Sampling Date: 02/21/01
Receiving Date: 02/21/01
Analysis Date: 02/24/01
Field Code: Cuttings

TCLP SEMIVOLATILE ORGANICS (mg/L)	REG. LIMIT	REPORT LIMIT	ELT# 37568	%DEV	%EA
2-Methylphenol	200	0.005	ND	-4.7	
4-Methylphenol	200	0.005	ND	-5.2	
1,4-Dichlorobenzene	7.5	0.005	ND	4.5	84
2, 4-Dinitrotoluene	0.13	0.005	ND	-10.1	
Hexachlorobenzene	0.13	0.005	ND	14.8	
Hexachlor-1, 3-butadien	0.5	0.005	ND	11.7	
Hexachloroethane	3.0	0.005	ND	-6.3	
Nitrobenzene	2.0	0.005	ND	-3.4	
Pentachlorophenol	100	0.005	ND	15.9	32
Pyridine	5.0	0.005	ND	17.5	
2,4,5-Trichlorophenol	400	0.005	ND	-2.3	
2,4,6-Trichlorophenol	2.0	0.005	ND	-3.9	

ND= NOT DETECTED, < REPORTING LIMIT

SYSTEM MONITORING COMPOUNDS	% Recovery
2-Fluorophenol	74
Phenol-d5	66
Nitrobenzene-d5	52
2-Fluorobiphenyl	44
2,4,6-Tribromophenol	38
p-Terphenyl-d14	77

Method: SW 846-8270,1311

Raland K. Tuttle — Date: 3-05-01

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. KEN DUTTON
2540 W. MARLAND
HOBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

Sample Type: Soil
Sample Condition: Intact/ Iced/ -2 deg. C
Project #: EOT 2055C
Project Name: Darr Angel
Project Location: Lea County, N.M.

Sampling Date: 02/21/01
Receiving Date: 02/21/01
Analysis Date: 02/23/01
Field Code: Cuttings

TCLP EPA SW846 8260B Compounds	REPORT LIMIT	ELT# 37568 mg/L	%EA	%DEV
Benzene	0.002	ND	98	16.7
Carbon tetrachloride	0.002	ND		-1.4
Chlorobenzene	0.002	ND		-11.5
Chloroform	0.002	ND	97	12.4
1,4-Dichlorobenzene	0.002	ND		18.1
1,2-Dichloroethane	0.002	ND		10.0
1,1-Dichloroethylene	0.002	ND		5.3
Methyl ethyl ketone	0.020	ND		6.9
Tetrachloroethylene	0.002	ND		-13.0
Trichloroethylene	0.002	ND		15.8
Vinyl chloride	0.002	ND		10.8

System Monitoring Compounds	% RECOVERY
Dibromofluoromethane	112
1,2-dichloroethane-d4	101
Toluene-d8	105
4-Bromofluorobenzene	83

ND= NOT DETECTED

Method: EPA SW 846 8260, 1311

Raland K. Tuttle

3-02-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. KEN DUTTON
2540 W. MARLAND
HOBBS, N.M. 88240
FAX: 505-397-4701
FAX: 915-520-4310

Sample Type: Soil
Sample Condition: Intact/ Iced/ -2 deg. C
Project #: EOT 2055C
Project Name: Darr Angell 1
Project Location: Lea County, N.M.

Sampling Date: 02/21/01
Receiving Date: 02/21/01
Analysis Date: 02/28/01
Analysis Date: Hg 02/26/01

TCLP METALS (mg/L)

ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
37568	Cuttings	ND	ND	0.8356	ND	ND	ND	ND	ND
REPORT LIMIT		0.003	0.020	0.001	0.002	0.004	0.002	0.015	0.020
% IA		102	103	103	105	104	106	102	101
% EA		106	105	104	98	90	99	104	108
BLANK		<0.003	<0.020	<0.001	<0.002	<0.004	<0.002	<0.015	<0.020

METHODS: EPA SW 846-1311, 3010, 7470, 6010B

ND=Not detected @ report limit.

Raland K. Tuttle

3-5-01
Date

Environmental Lab of Texas, Inc.

COC #21

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON
Company Name: ETGI
Company Address: 2540 W MARLAND
City/State/Zip: HOBBS, NM 88240
Telephone No: 397-4882
Fax No: 397-4701
Sampler Signature: Linda Cates

Project Name: DARR ANGELL 1
Project #: EOT 2055C
Project Loc: LEA COUNTY, NM
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP / TOTAL: TDS / TCLP SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH NM 15M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	TCLP	RCI						RUSH TAT (Pre-Scheduled)	Standard TAT
37558	06 CUTTINGS #1	2-21-01	1400	3	X									X						✓	✓	✓		X	X							

Special Instructions:

Sample Containers Intact? (Y) N
Temperature Upon Receipt: -2°C
Laboratory Comments:
FAX Results: Hobbs
Mail Results: EOTT
Invoice: EOTT

Relinquished by:	Date	Time	Received by:	Date	Time
Linda Cates	2-21-01	1730			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Richard for	2-21-01	1730

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

RECEIVED
AUG 16 2000
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Field Serv.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Burton Flats
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp.
3. Address of Facility Operator Box 1658 Roswell	8. State NM
7. Location of Material (Street Address or ULSTR) Burton Flats Rd.	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Hydrocarbon contaminated soils

RECEIVED
AUG 18 2000
Environmental Bureau
Oil Conservation Division

Estimated Volume 1200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: v-p DATE: 8-4-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-17-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 8-18-00

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	Gandy-Marley Commercial Landfarm US Highway 380 34 miles west of Tatum, NM
3. Originating Site (name): Burton Flats Gas Plant Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): SE/4 SW/4 of Section 14, T20S, R28E, Eddy Co., NM
4. Source and Description of Waste Exempt gas plant waste – amine, glycol, filters, and produced liquids, and soils contaminated with amine, glycol and produced liquids Non-exempt waste – used lubricants and filters, and soils contaminated with used lube oil	

I, David Bays representative for:
(Print Name)

El Paso Field Services Co. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is: (Check appropriate classification)

X **EXEMPT** Oilfield waste

X **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

____ MSDS Information
X RCRA Hazardous Waste Analysis
X Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: July 5, 2000

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0112
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-01

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/SPLP EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	0.18	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	0.011	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EFFS)
PROJECT #: NA

CLIENT ID: 800-0112
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-01

TEST: Inorganic Non-Metals
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/10/00
pH	7.70	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	26.4	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0112
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-01
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/11/00
MATRIX:	Solid	ANALYZED:	7/11/00
DILUTION:	1	ANALYST:	BJV - Las Vegas Division

PARAMETER	Result µg/kg		Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	ND	J	25. µg/kg	1,1-Dichloropropene	ND	5. µg/kg
Benzene	ND		5 µg/kg	cis-1,3-Dichloropropene	ND	5. µg/kg
Bromobenzene	ND		5. µg/kg	trans-1,3-Dichloropropene	ND	5. µg/kg
Bromochloromethane	ND		5. µg/kg	Ethylbenzene	ND	5. µg/kg
Bromodichloromethane	ND		5. µg/kg	Hexachlorobutadiene	ND	5. µg/kg
Bromoform	ND		5. µg/kg	2-Hexanone	ND	25. µg/kg
Bromomethane	ND		5 µg/kg	Iodomethane	ND	5 µg/kg
2-Butanone	ND		25. µg/kg	Isopropylbenzene	ND	5. µg/kg
n-Butylbenzene	ND		5. µg/kg	p-Isopropyltoluene	ND	5. µg/kg
sec-Butylbenzene	ND		5. µg/kg	Methylene chloride (Dichloromethane)	ND	5 µg/kg
tert-Butylbenzene	ND		5. µg/kg	4-Methyl-2-pentanone	ND	25. µg/kg
Carbon disulfide	ND		5 µg/kg	MTBE	ND	5. µg/kg
Carbon tetrachloride	ND		5. µg/kg	Naphthalene	ND	10. µg/kg
Chlorobenzene	ND		5. µg/kg	n-Propylbenzene	ND	5. µg/kg
Chloroethane	ND		5. µg/kg	Styrene	ND	5. µg/kg
Chloroform	ND		5. µg/kg	1,1,1,2-Tetrachloroethane	ND	5. µg/kg
Chloromethane	ND		5. µg/kg	1,1,2,2-Tetrachloroethane	ND	5. µg/kg
2-Chlorotoluene	ND		5. µg/kg	Tetrachloroethene (PCE)	ND	5. µg/kg
4-Chlorotoluene	ND		5. µg/kg	Toluene	ND	5. µg/kg
Dibromochloromethane	ND		5. µg/kg	1,2,3-Trichlorobenzene	ND	5 µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND		5. µg/kg	1,2,4-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromoethane (EDB)	ND		5. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/kg
Dibromomethane	ND		5. µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND		5. µg/kg	Trichloroethene (TCE)	ND	5 µg/kg
1,3-Dichlorobenzene (m-DCB)	ND		5. µg/kg	Trichlorofluoromethane (Freon 11)	ND	10. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND		5 µg/kg	1,2,3-Trichloropropane	ND	5. µg/kg
Dichlorodifluoromethane (Freon 12)	ND		5. µg/kg	1,2,4-Trimethylbenzene	ND	5. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND		5. µg/kg	1,3,5-Trimethylbenzene	ND	5. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND		5. µg/kg	Vinyl chloride	ND	5. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND		5. µg/kg	o-Xylene	ND	5 µg/kg
cis-1,2-Dichloroethene	ND		5. µg/kg	m,p-Xylene	ND	5. µg/kg
trans-1,2-Dichloroethene	ND		5. µg/kg			
1,2-Dichloropropane	ND		5. µg/kg			
1,3-Dichloropropane	ND		5. µg/kg			
2,2-Dichloropropane	ND		10. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
4-Bromofluorobenzene	61	SI	74 - 121 %
Dibromofluoromethane	108		80 - 120 %
Toluene d8	80	SI	81 - 117 %

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

ID:5055992119 JUL 28 00 EXEC NO.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0112
PROJECT ID:	Bluton Flats Plant (BFPS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-01
TEST:	Semi-Volatile Organic Compounds by EPA 8270C, December 1996		
METHOD:	EPA 8270	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/13/00
DILUTION:	2	ANALYST:	VMM - Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acenaphthene	ND	1000. µg/kg	4,6-Dinitro-2-methyl phenol	ND	5000. µg/kg
Acenaphthylene	ND	1000. µg/kg	2,4-Dinitrotoluene (DNT)	ND	1000. µg/kg
Aniline	ND	2000. µg/kg	2,6-Dinitrotoluene (DNT)	ND	1000. µg/kg
Anthracene	ND	1000. µg/kg	2,4-Dinitrophenol	ND	5000. µg/kg
Azobenzene	ND	1000. µg/kg	Di-n-octyl phthalate	ND	1000. µg/kg
Benzo (a) anthracene	ND	1000. µg/kg	Fluoranthene	ND	1000. µg/kg
Benzo (b&k) fluoranthene	ND	1000 µg/kg	Fluorene	ND	1000. µg/kg
Benzoic Acid	ND	5000. µg/kg	Hexachlorobenzene	ND	1000 µg/kg
Benzo (g,h,i) perylene	ND	1000. µg/kg	Hexachlorobutadiene	ND	1000. µg/kg
Benzo (a) pyrene	ND	1000. µg/kg	Hexachlorocyclopentadiene	ND	1000. µg/kg
Benzyl alcohol	ND	2000. µg/kg	Hexachloroethane	ND	1000 µg/kg
bis (2-Chloroethyl) ether	ND	1000. µg/kg	Indeno (1,2,3-c,d) pyrene	ND	1000. µg/kg
bis (2-Chloroethoxy) methane	ND	1000. µg/kg	Isophorone	ND	1000 µg/kg
bis (2-chloroisopropyl) ether	ND	1000. µg/kg	2-Methylnaphthalene	ND	1000. µg/kg
bis (2-Ethylhexyl)phthalate	ND	1000. µg/kg	2-Methylphenol	ND	1000. µg/kg
Butylbenzylphthalate	ND	1000. µg/kg	3,4-Methylphenol (isomeric pair)	ND	1000. µg/kg
4-Bromophenyl phenyl ether	ND	1000. µg/kg	Naphthalene	ND	1000. µg/kg
Carbazole	ND	1000. µg/kg	2-Nitroaniline	ND	5000. µg/kg
4-Chloroaniline	ND	2000. µg/kg	3-Nitroaniline	ND	5000 µg/kg
4-Chloro-3-methyl phenol	ND	2000. µg/kg	4-Nitroaniline	ND	2000. µg/kg
2-Chloronaphthalene	ND	1000. µg/kg	Nitrobenzene	ND	1000. µg/kg
2-Chlorophenol	ND	1000. µg/kg	2-Nitrophenol	ND	1000. µg/kg
4-Chlorophenyl phenyl ether	ND	1000. µg/kg	4-Nitrophenol	ND	5000. µg/kg
Chrysene	ND	1000. µg/kg	N-Nitrosodi-n-propylamine	ND	1000. µg/kg
Dibenzo (a,h) anthracene	ND	1000. µg/kg	N-Nitroso-Dimethylamine	ND	1000. µg/kg
Dibenzofuran	ND	1000 µg/kg	N-Nitrosodiphenylamine	ND	1000 µg/kg
Di-n-butyl phthalate	ND	1000. µg/kg	Pentachlorophenol	ND	5000. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	1000. µg/kg	Phenol	ND	1000. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	1000. µg/kg	Phenanthrene	ND	1000. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	1000. µg/kg	Pyrene	ND	1000. µg/kg
2,4-Dichlorophenol	ND	1000. µg/kg	Pyridine	ND	1000. µg/kg
3,3'-Dichlorobenzidine	ND	2000. µg/kg	1,2,4-Trichlorobenzene	ND	1000. µg/kg
Diethylphthalate	ND	1000. µg/kg	2,4,5-Trichlorophenol	ND	1000. µg/kg
2,4-Dimethylphenol	ND	2000. µg/kg	2,4,6-Trichlorophenol	ND	1000. µg/kg
Dimethylphthalate	ND	1000. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	66	19 - 122 %
2-Fluorobiphenyl	83	30 - 115 %
2-Fluorophenol	67	25 - 121 %
Nitrobenzene-d5	55	23 - 120 %
p-Terphenyl-d14	96	18 - 137 %
Phenol-d5	70	24 - 113 %

ND - Not Detected

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ID:5055992119 JUL 28 00 ENG EXEC

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPNG)
PROJECT #: NA

CLIENT ID: SS0-0113
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-02

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (BPFS)
PROJECT #: NA

CLIENT ID: SS0-0113
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-02

TEST: Inorganic Non-Metals
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/10/00
pH	7.67	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	25.8	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	0.98	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0113
PROJECT ID:	Burton Flats Plant (BPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-02
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/11/00
MATRIX:	Solid	ANALYZED:	7/11/00
DILUTION:	1	ANALYST:	HJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	120 J	25. µg/kg	1,1-Dichloropropene	ND	5. µg/kg
Benzene	ND	5. µg/kg	cis-1,3-Dichloropropene	ND	5. µg/kg
Bromobenzene	ND	5. µg/kg	trans-1,3-Dichloropropene	ND	5. µg/kg
Bromochloromethane	ND	5. µg/kg	Ethylbenzene	ND	5. µg/kg
Bromodichloromethane	ND	5 µg/kg	Hexachlorobutadiene	ND	5. µg/kg
Bromoform	ND	5. µg/kg	2-Hexanone	ND	25. µg/kg
Bromomethane	ND	5. µg/kg	Isopropylbenzene	ND	5. µg/kg
2-Butanone	48	25 µg/kg	p-Isopropyltoluene	ND	5. µg/kg
n-Butylbenzene	ND	5. µg/kg	Methylene chloride (Dichloromethane)	7.5	5 µg/kg
sec-Butylbenzene	ND	5. µg/kg	4-Methyl-2-pentanone	ND	25. µg/kg
tert-Butylbenzene	ND	5. µg/kg	MTBE	ND	5. µg/kg
Carbon disulfide	36	5. µg/kg	Naphthalene	ND	10. µg/kg
Carbon tetrachloride	ND	5. µg/kg	n-Propylbenzene	ND	5. µg/kg
Chlorobenzene	ND	5. µg/kg	Styrene	ND	5. µg/kg
Chloroethane	ND	5. µg/kg	1,1,1,2-Tetrachloroethane	ND	5. µg/kg
Chloroform	ND	5. µg/kg	1,1,2,2-Tetrachloroethane	ND	5. µg/kg
Chloromethane	ND	5. µg/kg	Tetrachloroethene (PCE)	ND	5. µg/kg
2-Chlorotoluene	ND	5. µg/kg	Toluene	ND	5. µg/kg
4-Chlorotoluene	ND	5. µg/kg	1,2,3-Trichlorobenzene	ND	5. µg/kg
Dibromochloromethane	ND	5. µg/kg	1,2,4-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/kg
1,2-Dibromoethane (EDB)	ND	5 µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/kg
Dibromomethane	ND	5. µg/kg	Trichloroethene (TCE)	ND	5. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/kg	Trichlorofluoromethane (Freon 11)	ND	10. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/kg	1,2,3-Trichloropropane	ND	5. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	5 µg/kg	1,2,4-Trimethylbenzene	5.2	5. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/kg	1,3,5-Trimethylbenzene	ND	5. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/kg	Vinyl chloride	ND	5. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/kg	o-Xylene	ND	5. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	5 µg/kg	m,p-Xylene	ND	5. µg/kg
cis-1,2-Dichloroethene	ND	5. µg/kg			
trans-1,2-Dichloroethene	ND	5. µg/kg			
1,2-Dichloropropane	ND	5. µg/kg			
1,3-Dichloropropane	ND	5. µg/kg			
2,2-Dichloropropane	ND	10. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
4-Bromofluorobenzene	40	SI	74 - 121 %
Dibromofluoromethane	119		80 - 120 %
Toluene-d8	90	SI	81 - 117 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0113
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-02
TEST:	Semi-Volatile Organic Compounds by EPA 8270C, December 1996		
METHOD:	EPA 8270	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/13/00
DILUTION:	150	ANALYST:	VMM - Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acenaphthene	ND	75000. µg/kg	4,6-Dinitro-2-methyl phenol	ND	375000. µg/kg
Acenaphthylene	ND	75000. µg/kg	2,4-Dinitrotoluene (DNT)	ND	75000. µg/kg
Aniline	ND	150000. µg/kg	2,6-Dinitrotoluene (DNT)	ND	75000. µg/kg
Anthracene	ND	75000. µg/kg	2,4-Dinitrophenol	ND	375000. µg/kg
Azobenzene	ND	75000. µg/kg	Di-n-octyl phthalate	ND	75000. µg/kg
Benzo (a) anthracene	ND	75000. µg/kg	Fluoranthene	ND	75000. µg/kg
Benzo (b&k) fluoranthene	ND	75000. µg/kg	Fluorene	ND	75000. µg/kg
Benzoic Acid	ND	375000 µg/kg	Hexachlorobenzene	ND	75000. µg/kg
Benzo (g,h,i) perylene	ND	75000 µg/kg	Hexachlorobutadiene	ND	75000. µg/kg
Benzo (a) pyrene	ND	75000. µg/kg	Hexachlorocyclopentadiene	ND	75000. µg/kg
Benzyl alcohol	ND	150000. µg/kg	Hexachloroethane	ND	75000. µg/kg
bis (2-Chloroethyl) ether	ND	75000. µg/kg	Indeno (1,2,3-c,d) pyrene	ND	75000. µg/kg
bis (2-Chloroethoxy) methane	ND	75000 µg/kg	Isophorone	ND	75000. µg/kg
bis (2-chloroisopropyl) ether	ND	75000. µg/kg	2-Methylnaphthalene	ND	75000. µg/kg
bis (2-Ethylhexyl)phthalate	ND	75000. µg/kg	2-Methylphenol	ND	75000. µg/kg
Butylbenzylphthalate	ND	75000. µg/kg	3,4-Methylphenol (isomers pair)	ND	75000. µg/kg
4-Bromophenyl phenyl ether	ND	75000. µg/kg	Naphthalene	ND	75000. µg/kg
Carbazole	ND	75000 µg/kg	2-Nitroaniline	ND	375000. µg/kg
4-Chloroaniline	ND	150000. µg/kg	3-Nitroaniline	ND	375000. µg/kg
4-Chloro-3-methyl phenol	ND	150000. µg/kg	4-Nitroaniline	ND	150000. µg/kg
2-Chloronaphthalene	ND	75000. µg/kg	Nitrobenzene	ND	75000. µg/kg
2-Chlorophenol	ND	75000. µg/kg	2-Nitrophenol	ND	75000. µg/kg
4-Chlorophenyl phenyl ether	ND	75000 µg/kg	4-Nitrophenol	ND	375000. µg/kg
Chrysene	ND	75000 µg/kg	N-Nitrosodi-n-propylamine	ND	75000. µg/kg
Dibenzo (a,h) anthracene	ND	75000. µg/kg	N-Nitroso-Dimethylamine	ND	75000. µg/kg
Dibenzofuran	ND	75000. µg/kg	N-Nitrosodiphenylamine	ND	75000. µg/kg
Di-n-butyl phthalate	ND	75000. µg/kg	Pentachlorophenol	ND	375000. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	75000 µg/kg	Phenol	ND	75000. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	75000. µg/kg	Phenanthrene	ND	75000. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	75000. µg/kg	Pyrene	ND	75000. µg/kg
2,4-Dichlorophenol	ND	75000. µg/kg	Pyridine	ND	75000. µg/kg
3,3'-Dichlorobenzidine	ND	150000. µg/kg	1,2,4-Trichlorobenzene	ND	75000. µg/kg
Diethylphthalate	ND	75000. µg/kg	2,4,5-Trichlorophenol	ND	75000. µg/kg
2,4-Dimethylphenol	ND	150000. µg/kg	2,4,6-Trichlorophenol	ND	75000. µg/kg
Dimethylphthalate	ND	75000. µg/kg			

QUALITY CONTROL DATA

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	32	19 - 122 %
2-Fluorobiphenyl	81	30 - 115 %
2-Fluorophenol	73	25 - 121 %
Nitrobenzene-d5	75	23 - 120 %
p-Terphenyl-d14	94	18 - 137 %
Phenol-d5	40	24 - 113 %

ND - Not Detected

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ID:5055992119 NG EXEC

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: 800-0116
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P000700105

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: 600-0116
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-05

TEST: Inorganic Non-Metals
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	8.07	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	26.1	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	SDO-0116
PROJECT ID:	Burnt Flats Plant (BFFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	M0007001-05
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/12/00
DILUTION:	1	ANALYST:	BJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	ND	25. µg/kg	1,1-Dichloropropene	ND	5. µg/kg
Benzene	ND	5 µg/kg	cis-1,3-Dichloropropene	ND	5. µg/kg
Bromobenzene	ND	5 µg/kg	trans-1,3-Dichloropropene	ND	5. µg/kg
Bromochloromethane	ND	5. µg/kg	Ethylbenzene	ND	5. µg/kg
Bromodichloromethane	ND	5 µg/kg	Hexachlorobutadiene	ND	5 µg/kg
Bromoform	ND	5. µg/kg	2-Hexanone	ND	25. µg/kg
Bromomethane	ND	5 µg/kg	Iodomethane	ND	5. µg/kg
2-Butanone	ND	25. µg/kg	Isopropylbenzene	ND	5. µg/kg
n-Butylbenzene	ND	5 µg/kg	p-Isopropyltoluene	ND	5. µg/kg
sec-Butylbenzene	ND	5. µg/kg	Methylene chloride (Dichloromethane)	ND	5. µg/kg
tert-Butylbenzene	ND	5 µg/kg	4-Methyl-2-pentanone	ND	25. µg/kg
Carbon disulfide	ND	5. µg/kg	MTBE	ND	5 µg/kg
Carbon tetrachloride	ND	5 µg/kg	Naphthalene	ND	10. µg/kg
Chlorobenzene	ND	5. µg/kg	n-Propylbenzene	ND	5 µg/kg
Chloroethane	ND	5. µg/kg	Styrene	ND	5 µg/kg
Chloroform	ND	5. µg/kg	1,1,1,2-Tetrachloroethane	ND	5. µg/kg
Chloromethane	ND	5. µg/kg	1,1,2,2-Tetrachloroethane	ND	5. µg/kg
2-Chlorotoluene	ND	5. µg/kg	Tetrachloroethene (PCE)	ND	5. µg/kg
4-Chlorotoluene	ND	5. µg/kg	Toluene	ND	5. µg/kg
Dibromochloromethane	ND	5. µg/kg	1,2,3-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/kg	1,2,4-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromoethane (EDB)	ND	5. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5 µg/kg
Dibromomethane	ND	5. µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/kg	Trichloroethene (TCE)	ND	5. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/kg	Trichlorofluoromethane (Freon 11)	ND	10. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/kg	1,2,3-Trichloropropane	ND	5. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	5 µg/kg	1,2,4-Trimethylbenzene	ND	5. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/kg	1,3,5-Trimethylbenzene	ND	5. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/kg	Vinyl chloride	ND	5. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/kg	o-Xylene	ND	5. µg/kg
cis-1,2-Dichloroethene	ND	5. µg/kg	m,p-Xylene	ND	5. µg/kg
trans-1,2-Dichloroethene	ND	5. µg/kg			
1,2-Dichloropropane	ND	5. µg/kg			
1,3-Dichloropropane	ND	5. µg/kg			
2,2-Dichloropropane	ND	10. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
4-Bromofluorobenzene	50	Sf	74 - 121 %
Dibromofluoromethane	111		80 - 120 %
Toluene-d8	74	Sf	81 - 117 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0116
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-05
TEST:	Semi-Volatile Organic Compounds by EPA 8270C, December 1996		
METHOD:	EPA 8270	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/13/00
DILUTION:	30	ANALYST:	VMM - Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acenaphthene	ND	15000. µg/kg	4,6-Dinitro-2-methyl phenol	ND	75000. µg/kg
Acenaphthylene	ND	15000. µg/kg	2,4-Dinitrotoluene (DNT)	ND	15000. µg/kg
Aniline	ND	30000. µg/kg	2,6-Dinitrotoluene (DNT)	ND	15000. µg/kg
Anthracene	ND	15000. µg/kg	2,4-Dinitrophenol	ND	75000. µg/kg
Azobenzene	ND	15000 µg/kg	Di-n-octyl phthalate	ND	15000. µg/kg
Benzo (a) anthracene	ND	15000 µg/kg	Fluoranthene	ND	15000. µg/kg
Benzo (b&k) fluoranthene	ND	15000. µg/kg	Fluorene	ND	15000. µg/kg
Benzoic Acid	ND	75000. µg/kg	Hexachlorobenzene	ND	15000. µg/kg
Benzo (g,h,i) perylene	ND	15000. µg/kg	Hexachlorobutadiene	ND	15000. µg/kg
Benzo (a) pyrene	ND	15000. µg/kg	Hexachlorocyclopentadiene	ND	15000. µg/kg
Benzyl alcohol	ND	30000. µg/kg	Hexachloroethane	ND	15000. µg/kg
bis (2-Chloroethyl) ether	ND	15000. µg/kg	Indeno (1,2,3-c,d) pyrene	ND	15000. µg/kg
bis (2-Chloroethoxy) methane	ND	15000 µg/kg	Isophorone	ND	15000. µg/kg
bis (2-chloroisopropyl) ether	ND	15000. µg/kg	2-Methylnaphthalene	ND	15000. µg/kg
bis (2-Ethylhexyl)phthalate	ND	15000. µg/kg	2-Methylphenol	ND	15000 µg/kg
Butylbenzylphthalate	ND	15000. µg/kg	3,4-Methylphenol (isomeric pair)	ND	15000. µg/kg
4-Bromophenyl phenyl ether	ND	15000. µg/kg	Naphthalene	ND	15000. µg/kg
Carbazole	ND	15000. µg/kg	2-Nitroaniline	ND	75000 µg/kg
4-Chloroaniline	ND	30000. µg/kg	3-Nitroaniline	ND	75000. µg/kg
4-Chloro-3-methyl phenol	ND	30000. µg/kg	4-Nitroaniline	ND	30000. µg/kg
2-Chloronaphthalene	ND	15000. µg/kg	Nitrobenzene	ND	15000. µg/kg
2-Chlorophenol	ND	15000. µg/kg	2-Nitrophenol	ND	15000. µg/kg
4-Chlorophenyl phenyl ether	ND	15000. µg/kg	4-Nitrophenol	ND	75000. µg/kg
Chrysene	ND	15000. µg/kg	N Nitrosodi-n-propylamine	ND	15000. µg/kg
Dibenzo (a,h) anthracene	ND	15000. µg/kg	N-Nitroso-Dimethylamine	ND	15000 µg/kg
Dibenzofuran	ND	15000. µg/kg	N-Nitrosodiphenylamine	ND	15000. µg/kg
Di-n-butyl phthalate	ND	15000. µg/kg	Pentachlorophenol	ND	75000 µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	15000. µg/kg	Phenol	ND	15000. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	15000 µg/kg	Phenanthrene	ND	15000 µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	15000. µg/kg	Pyrene	ND	15000 µg/kg
2,4-Dichlorophenol	ND	15000. µg/kg	Pyridine	ND	15000. µg/kg
3,3'-Dichlorobenzidine	ND	30000. µg/kg	1,2,4-Trichlorobenzene	ND	15000. µg/kg
Diethylphthalate	ND	15000 µg/kg	2,4,5-Trichlorophenol	ND	15000. µg/kg
2,4-Dimethylphenol	ND	30000. µg/kg	2,4,6-Trichlorophenol	ND	15000. µg/kg
Dimethylphthalate	ND	15000 µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	55	19 - 122 %
2-Fluorobiphenyl	77	30 - 115 %
2-Fluorophenol	60	25 - 121 %
Nitrobenzene-d5	65	23 - 120 %
p-Terphenyl-d14	84	18 - 137 %
Phenol-d5	57	24 - 113 %

ND - Not Detected

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EXHIBIT 9N

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co
PROJECT ID: Burton Flats Plant (EPNS)
PROJECT #: NA

CLIENT ID: 800-0120
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-09

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (BFPS)
PROJECT #: NA

CLIENT ID: S00-0120
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-09

TEST: Inorganic Non-Metals
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	7.79	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	26.8	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0120
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-09

TEST: **Inorganic Non-Metals**
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	7.79	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	26.8	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0120
PROJECT ID:	Burton Flats Plant (BFPS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	10007001-09
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/12/00
DILUTION:	25	ANALYST:	DJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	ND	625. µg/kg	1,1-Dichloropropene	ND	125. µg/kg
Benzene	ND	125. µg/kg	cis-1,3-Dichloropropene	ND	125. µg/kg
Bromobenzene	ND	125. µg/kg	trans-1,3-Dichloropropene	ND	125. µg/kg
Bromochloromethane	ND	125. µg/kg	Ethylbenzene	ND	125. µg/kg
Bromodichloromethane	ND	125 µg/kg	Hexachlorobutadiene	ND	125. µg/kg
Bromoform	ND	125. µg/kg	2-Hexanone	ND	625. µg/kg
Bromomethane	ND	125. µg/kg	Isopropylbenzene	ND	125. µg/kg
2-Butanone	ND	625 µg/kg	p-Isopropyltoluene	ND	125 µg/kg
n-Butylbenzene	ND	125 µg/kg	Methylene chloride (Dichloromethane)	ND	125. µg/kg
sec-Butylbenzene	ND	125 µg/kg	4-Methyl-2-pentanone	ND	625. µg/kg
tert-Butylbenzene	ND	125. µg/kg	MTBE	ND	125 µg/kg
Carbon disulfide	ND	125. µg/kg	Naphthalene	ND	250. µg/kg
Carbon tetrachloride	ND	125. µg/kg	n-Propylbenzene	ND	125. µg/kg
Chlorobenzene	ND	125. µg/kg	Styrene	ND	125. µg/kg
Chloroethane	ND	125. µg/kg	1,1,1,2-Tetrachloroethane	ND	125. µg/kg
Chloroform	ND	125. µg/kg	1,1,2,2-Tetrachloroethane	ND	125. µg/kg
Chloromethane	ND	125. µg/kg	Tetrachloroethene (PCE)	ND	125. µg/kg
2-Chlorotoluene	ND	125. µg/kg	Toluene	ND	125. µg/kg
4-Chlorotoluene	ND	125. µg/kg	1,2,3-Trichlorobenzene	ND	125. µg/kg
Dibromochloromethane	ND	125. µg/kg	1,2,4-Trichlorobenzene	ND	125. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	125. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	125. µg/kg
1,2-Dibromoethane (EDB)	ND	125 µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	125. µg/kg
Dibromomethane	ND	125 µg/kg	Trichloroethene (TCE)	ND	125. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	125. µg/kg	Trichlorofluoromethane (Freon 11)	ND	250. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	125. µg/kg	1,2,3-Trichloropropane	ND	125. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	125. µg/kg	1,2,4-Trimethylbenzene	ND	125. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	125. µg/kg	1,3,5-Trimethylbenzene	ND	125. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	125. µg/kg	Vinyl chloride	ND	125. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	125. µg/kg	o-Xylene	ND	125 µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	125. µg/kg	m,p-Xylene	ND	125 µg/kg
cis-1,2-Dichloroethene	ND	125. µg/kg			
trans-1,2-Dichloroethene	ND	125. µg/kg			
1,2-Dichloropropane	ND	125. µg/kg			
1,3-Dichloropropane	ND	125 µg/kg			
2,2-Dichloropropane	ND	250. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	97	74 - 121 %
Dibromofluoromethane	95	80 - 120 %
Toluene-d8	97	81 - 117 %

ND - Not Detected

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ID:5055992119 JUL 28.00 9:47 NO.007 P2 EXEC

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0120
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-09
TEST:	Semi-Volatile Organic Compounds by EPA 8270C, December 1996		
METHOD:	EPA 8270	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/13/00
DILUTION:	15	ANALYST:	VMM - Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acenaphthene	ND	7500. µg/kg	4,6-Dinitro-2-methyl phenol	ND	37500. µg/kg
Acenaphthylene	ND	7500. µg/kg	2,4-Dinitrotoluene (DNT)	ND	7500. µg/kg
Aniline	ND	15000. µg/kg	2,6-Dinitrotoluene (DNT)	ND	7500. µg/kg
Anthracene	ND	7500. µg/kg	2,4-Dinitrophenol	ND	37500. µg/kg
Azobenzene	ND	7500. µg/kg	Di-n-octyl phthalate	ND	7500. µg/kg
Benzo (a) anthracene	ND	7500. µg/kg	Fluoranthene	ND	7500. µg/kg
Benzo (b&k) fluoranthene	ND	7500. µg/kg	Fluorene	ND	7500. µg/kg
Benzoic Acid	ND	37500. µg/kg	Hexachlorobenzene	ND	7500. µg/kg
Benzo (g,h,i) perylene	ND	7500. µg/kg	Hexachlorobutadiene	ND	7500. µg/kg
Benzo (a) pyrene	ND	7500. µg/kg	Hexachlorocyclopentadiene	ND	7500. µg/kg
Benzyl alcohol	ND	15000. µg/kg	Hexachloroethane	ND	7500. µg/kg
bis (2-Chloroethyl) ether	ND	7500. µg/kg	Indeno (1,2,3-c,d) pyrene	ND	7500. µg/kg
bis (2-Chloroethoxy) methane	ND	7500. µg/kg	Isophorone	ND	7500. µg/kg
bis (2-chloroisopropyl) ether	ND	7500. µg/kg	2-Methylnaphthalene	ND	7500. µg/kg
bis (2-Ethylhexyl)phthalate	ND	7500. µg/kg	2-Methylphenol	ND	7500. µg/kg
Butylbenzylphthalate	ND	7500. µg/kg	3,4-Methylphenol (isomeric pair)	ND	7500. µg/kg
4-Bromophenyl phenyl ether	ND	7500. µg/kg	Naphthalene	ND	7500. µg/kg
Carbazole	ND	7500. µg/kg	2-Nitroaniline	ND	37500. µg/kg
4-Chloroaniline	ND	15000. µg/kg	3-Nitroaniline	ND	37500. µg/kg
4-Chloro-3-methyl phenol	ND	15000. µg/kg	4-Nitroaniline	ND	15000. µg/kg
2-Chloronaphthalene	ND	7500. µg/kg	Nitrobenzene	ND	7500. µg/kg
2-Chlorophenol	ND	7500. µg/kg	2-Nitrophenol	ND	7500. µg/kg
4-Chlorophenyl phenyl ether	ND	7500. µg/kg	4-Nitrophenol	ND	37500. µg/kg
Chrysene	ND	7500. µg/kg	N-Nitrosodi-n-propylamine	ND	7500. µg/kg
Dibenzo (a,h) anthracene	ND	7500. µg/kg	N-Nitroso-Dimethylamine	ND	7500. µg/kg
Dibenzofuran	ND	7500. µg/kg	N-Nitrosodiphenylamine	ND	7500. µg/kg
Di-n-butyl phthalate	ND	7500. µg/kg	Pentachlorophenol	ND	37500. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	7500. µg/kg	Phenol	ND	7500. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	7500. µg/kg	Phenanthrene	ND	7500. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	7500. µg/kg	Pyrene	ND	7500. µg/kg
2,4-Dichlorophenol	ND	7500. µg/kg	Pyridine	ND	7500. µg/kg
3,3'-Dichlorobenzidine	ND	15000. µg/kg	1,2,4-Trichlorobenzene	ND	7500. µg/kg
Diethylphthalate	ND	7500. µg/kg	2,4,5-Trichlorophenol	ND	7500. µg/kg
2,4-Dimethylphenol	ND	15000. µg/kg	2,4,6-Trichlorophenol	ND	7500. µg/kg
Dimethylphthalate	ND	7500. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	60	19 - 122 %
2-Fluorobiphenyl	79	30 - 115 %
2-Fluorophenol	60	25 - 121 %
Nitrobenzene-d5	77	23 - 120 %
p-Terphenyl-d14	122	18 - 137 %
Phenol-d5	58	24 - 113 %

ND - Not Detected

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JUL 28'00 9:42 NO.001 P.09 ID:5055992119 ENG EXEC

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co. CLIENT ID: S00-0121
PROJECT ID: Burton Flats Plant (EPFS) DATE SAMPLED: 6/29/00
PROJECT #: NA NEL SAMPLE ID: P000700I-10

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID. Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0121
DATE SAMPLED: 6/29/00
NEL SAMPLE ID. P0007001-10

TEST: Inorganic Non-Metals
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	7.48	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	27.0	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	3.4	1.5	50	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0121
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-10
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/12/00
DILUTION:	25	ANALYST:	RJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	ND	625 µg/kg	1,1-Dichloropropene	ND	125. µg/kg
Benzene	ND	125. µg/kg	cis-1,3-Dichloropropene	ND	125. µg/kg
Bromobenzene	ND	125. µg/kg	trans-1,3-Dichloropropene	ND	125. µg/kg
Bromochloromethane	ND	125. µg/kg	Ethylbenzene	ND	125. µg/kg
Bromodichloromethane	ND	125. µg/kg	Hexachlorobutadiene	ND	125. µg/kg
Bromoform	ND	125. µg/kg	2-Hexanone	ND	625. µg/kg
Bromomethane	ND	125 µg/kg	Isobutylbenzene	ND	125. µg/kg
2-Butanone	ND	625. µg/kg	Isopropylbenzene	ND	125. µg/kg
n-Butylbenzene	ND	125. µg/kg	p-Isopropyltoluene	ND	125. µg/kg
sec-Butylbenzene	ND	125. µg/kg	Methylene chloride (Dichloromethane)	ND	125. µg/kg
tert-Butylbenzene	ND	125 µg/kg	4-Methyl-2-pentanone	ND	625. µg/kg
Carbon disulfide	ND	125. µg/kg	MTBE	ND	125. µg/kg
Carbon tetrachloride	ND	125. µg/kg	Naphthalene	ND	250. µg/kg
Chlorobenzene	ND	125. µg/kg	n-Propylbenzene	ND	125 µg/kg
Chloroethane	ND	125. µg/kg	Styrene	ND	125. µg/kg
Chloroform	ND	125. µg/kg	1,1,1,2-Tetrachloroethane	ND	125. µg/kg
Chloromethane	ND	125. µg/kg	1,1,2,2-Tetrachloroethane	ND	125. µg/kg
2-Chlorotoluene	ND	125. µg/kg	Tetrachloroethene (PCE)	ND	125 µg/kg
4-Chlorotoluene	ND	125. µg/kg	Toluene	ND	125 µg/kg
Dibromochloromethane	ND	125. µg/kg	1,2,3-Trichlorobenzene	ND	125. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	125. µg/kg	1,2,4-Trichlorobenzene	ND	125. µg/kg
1,2-Dibromoethane (EDB)	ND	125 µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	125. µg/kg
Dibromomethane	ND	125. µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	125. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	125 µg/kg	Trichloroethene (TCE)	ND	125 µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	125. µg/kg	Trichlorofluoromethane (Freon 11)	ND	250. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	125. µg/kg	1,2,3 Trichloropropane	ND	125. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	125. µg/kg	1,2,4-Trimethylbenzene	ND	125. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	125. µg/kg	1,3,5-Trimethylbenzene	ND	125. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	125. µg/kg	Vinyl chloride	ND	125. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	125 µg/kg	o-Xylene	ND	125. µg/kg
cis-1,2-Dichloroethene	ND	125. µg/kg	m,p-Xylene	ND	125. µg/kg
trans-1,2-Dichloroethene	ND	125. µg/kg			
1,2-Dichloropropane	ND	125. µg/kg			
1,3-Dichloropropane	ND	125. µg/kg			
2,2-Dichloropropane	ND	250. µg/kg			

QUALITY CONTROL DATA

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	95	74 - 121 %
Dibromofluoromethane	93	80 - 120 %
Toluene-d8	97	81 - 117 %

ND - Not Detected

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Carbazole	ND	75000. µg/kg	2-Nitroaniline	ND	375000. µg/kg
4-Chloroaniline	ND	150000. µg/kg	3-Nitroaniline	ND	375000. µg/kg
4-Chloro-3-methyl phenol	ND	150000. µg/kg	4-Nitroaniline	ND	150000 µg/kg
2-Chloronaphthalene	ND	75000. µg/kg	Nitrobenzene	ND	75000. µg/kg
2-Chlorophenol	ND	75000. µg/kg	2-Nitrophenol	ND	75000. µg/kg
4-Chlorophenyl phenyl ether	ND	75000. µg/kg	4-Nitrophenol	ND	375000. µg/kg
Chrysene	ND	75000. µg/kg	N-Nitrosodi-n-propylamine	ND	75000. µg/kg
Dibenzo (a,h) anthracene	ND	75000. µg/kg	N-Nitroso-Dimethylamine	ND	75000. µg/kg
Dibenzofuran	ND	75000 µg/kg	N-Nitrosodiphenylamine	ND	75000. µg/kg
Di-n-butyl phthalate	ND	75000. µg/kg	Pentachlorophenol	ND	375000 µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	75000. µg/kg	Phenol	ND	75000. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	75000. µg/kg	Phenanthrene	ND	75000. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	75000. µg/kg	Pyrene	ND	75000. µg/kg
2,4-Dichlorophenol	ND	75000. µg/kg	Pyridine	ND	75000. µg/kg
3,3'-Dichlorobenzidine	ND	150000. µg/kg	1,2,4-Trichlorobenzene	ND	75000. µg/kg
Diethylphthalate	ND	75000. µg/kg	2,4,5-Trichlorophenol	ND	75000. µg/kg
2,4-Dimethylphenol	ND	150000 µg/kg	2,4,6-Trichlorophenol	ND	75000 µg/kg
Dimethylphthalate	ND	75000. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
2,4,6-Tribromophenol	70		19 - 122 %
2-Fluorobiphenyl	94		30 - 115 %
2-Fluorophenol	73		25 - 121 %
Nitrobenzene-d5	83		23 - 120 %
p Terphenyl-d14	155	Sf	18 - 137 %
Phenol-d5	105		24 - 113 %

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0122
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-11

TEST: TCLP-8 Metals
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	0.15	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	0.034	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0122
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-11

TEST: **Inorganic Non-Metals**
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	7.69	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	26.9	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0122
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-11
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/12/00
DILUTION:	1	ANALYST:	BJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	ND	25. µg/kg	1,1-Dichloropropene	ND	5. µg/kg
Benzene	ND	5. µg/kg	cis-1,3-Dichloropropene	ND	5. µg/kg
Bromobenzene	ND	5. µg/kg	trans-1,3-Dichloropropene	ND	5. µg/kg
Bromochloromethane	ND	5. µg/kg	Ethylbenzene	ND	5. µg/kg
Bromodichloromethane	ND	5. µg/kg	Hexachlorobutadiene	ND	5. µg/kg
Bromoform	ND	5. µg/kg	2-Hexanone	ND	25. µg/kg
Bromomethane	ND	5. µg/kg	Iodomethane	ND	5. µg/kg
2-Butanone	ND	25. µg/kg	Isopropylbenzene	ND	5. µg/kg
n-Butylbenzene	ND	5. µg/kg	p-Isopropyltoluene	ND	5. µg/kg
sec-Butylbenzene	ND	5. µg/kg	Methylene chloride (Dichloromethane)	ND	5 µg/kg
tert-Butylbenzene	ND	5. µg/kg	4-Methyl-2 pentanone	ND	25. µg/kg
Carbon disulfide	ND	5. µg/kg	MTBE	ND	5. µg/kg
Carbon tetrachloride	ND	5. µg/kg	Naphthalene	ND	10. µg/kg
Chlorobenzene	ND	5. µg/kg	n-Propylbenzene	ND	5. µg/kg
Chloroethane	ND	5. µg/kg	Styrene	ND	5. µg/kg
Chloroform	ND	5. µg/kg	1,1,1,2-Tetrachloroethane	ND	5. µg/kg
Chloromethane	ND	5. µg/kg	1,1,2,2-Tetrachloroethane	ND	5. µg/kg
2-Chlorotoluene	ND	5 µg/kg	Tetrachloroethene (PCE)	ND	5. µg/kg
4-Chlorotoluene	ND	5. µg/kg	Toluene	ND	5. µg/kg
Dibromochloromethane	ND	5. µg/kg	1,2,3-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/kg	1,2,4-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromoethane (EDB)	ND	5. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/kg
Dibromomethane	ND	5 µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/kg	Trichloroethene (TCE)	ND	5. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/kg	Trichlorofluoromethane (Freon 11)	ND	10. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/kg	1,2,3-Trichloropropane	ND	5. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/kg	1,2,4-Trimethylbenzene	ND	5. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/kg	1,3,5-Trimethylbenzene	ND	5. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/kg	Vinyl chloride	ND	5. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/kg	o-Xylene	ND	5. µg/kg
cis-1,2-Dichloroethene	ND	5. µg/kg	m,p-Xylene	ND	5 µg/kg
trans-1,2-Dichloroethene	ND	5. µg/kg			
1,2-Dichloropropane	ND	5. µg/kg			
1,3-Dichloropropane	ND	5. µg/kg			
2,2-Dichloropropane	ND	10. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
4-Bromofluorobenzene	99	Sf	74 - 121 %
Dibromofluoromethane	109		80 - 120 %
Toluene-d8	90	Sf	81 - 117 %

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S00-0122
PROJECT ID:	Burton Flats Plant (BFPS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-11
TEST:	Semi-Volatile Organic Compounds by EPA 8270C, December 1996		
METHOD:	EPA 8270	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/13/00
DILUTION:	20	ANALYST:	VMM - Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acenaphthene	ND	10000. µg/kg	4,6-Dinitro-2-methyl phenol	ND	50000 µg/kg
Acenaphthylene	ND	10000. µg/kg	2,4-Dinitrotoluene (DNT)	ND	10000. µg/kg
Aniline	ND	20000. µg/kg	2,6-Dinitrotoluene (DNT)	ND	10000. µg/kg
Anthracene	ND	10000. µg/kg	2,4-Dinitrophenol	ND	50000. µg/kg
Azobenzene	ND	10000. µg/kg	Di-n-octyl phthalate	ND	10000. µg/kg
Benzo (a) anthracene	ND	10000. µg/kg	Fluoranthene	ND	10000. µg/kg
Benzo (b&k) fluoranthene	ND	10000. µg/kg	Fluorene	ND	10000. µg/kg
Benzoic Acid	ND	50000. µg/kg	Hexachlorobenzene	ND	10000. µg/kg
Benzo (g,h,i) perylene	ND	10000. µg/kg	Hexachlorobutadiene	ND	10000. µg/kg
Benzo (a) pyrene	ND	10000. µg/kg	Hexachlorocyclopentadiene	ND	10000. µg/kg
Benzyl alcohol	ND	20000. µg/kg	Hexachloroethane	ND	10000. µg/kg
bis (2-Chloroethyl) ether	ND	10000 µg/kg	Indeno (1,2,3-c,d) pyrene	ND	10000. µg/kg
bis (2-Chloroethoxy) methane	ND	10000 µg/kg	Isophorone	ND	10000. µg/kg
bis (2-chloroisopropyl) ether	ND	10000. µg/kg	2-Methylnaphthalene	ND	10000 µg/kg
bis (2-Ethylhexyl)phthalate	ND	10000 µg/kg	2-Methylphenol	ND	10000. µg/kg
Butylbenzylphthalate	ND	10000. µg/kg	3,4-Methylphenol (isomeric pair)	ND	10000. µg/kg
4-Bromodiaryl phenyl ether	ND	10000. µg/kg	Naphthalene	ND	10000 µg/kg
Carbazole	ND	10000. µg/kg	2-Nitroaniline	ND	50000. µg/kg
4-Chloroaniline	ND	20000. µg/kg	3-Nitroaniline	ND	50000. µg/kg
4-Chloro-3-methyl phenol	ND	20000. µg/kg	4-Nitroaniline	ND	20000. µg/kg
2-Chloronaphthalene	ND	10000. µg/kg	Nitrobenzene	ND	10000. µg/kg
2-Chlorophenol	ND	10000. µg/kg	2-Nitrophenol	ND	10000. µg/kg
4-Chlorophenyl phenyl ether	ND	10000. µg/kg	4-Nitrophenol	ND	50000. µg/kg
Chrysene	ND	10000. µg/kg	N-Nitrosodi-n-propylamine	ND	10000. µg/kg
Dibenzo (a,h) anthracene	ND	10000 µg/kg	N-Nitroso-Dimethylamine	ND	10000. µg/kg
Dibenzofuran	ND	10000. µg/kg	N-Nitrosodiphenylamine	ND	10000. µg/kg
Di-n-butyl phthalate	ND	10000. µg/kg	Pentachlorophenol	ND	50000. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	10000. µg/kg	Phenol	ND	10000. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	10000. µg/kg	Phenanthrene	ND	10000. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	10000. µg/kg	Pyrene	ND	10000. µg/kg
2,4-Dichlorophenol	ND	10000. µg/kg	Pyridine	ND	10000. µg/kg
3,3'-Dichlorobenzidine	ND	20000. µg/kg	1,2,4-Trichlorobenzene	ND	10000. µg/kg
Diethylphthalate	ND	10000. µg/kg	2,4,5-Trichlorophenol	ND	10000. µg/kg
2,4-Dimethylphenol	ND	20000. µg/kg	2,4,6-Trichlorophenol	ND	10000. µg/kg
Dimethylphthalate	ND	10000. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	77	19 - 122 %
2-Fluorobiphenyl	85	30 - 115 %
2-Fluorophenol	65	25 - 121 %
Nitrobenzene-d5	73	23 - 120 %
p-Terphenyl d14	100	18 - 137 %
Phenol-d5	79	24 - 113 %

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0123
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-12

TEST: **TCLP-8 Metals**
MATRIX: Solid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (BPFS)
PROJECT #: NA

CLIENT ID: S00-0123
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-12

TEST: **Inorganic Non-Metals**
MATRIX: Solid

ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	7.15	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	27.1	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co	CLIENT ID:	S00-0123
PROJECT ID:	Burton Flats Plant (BFPS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-12
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/12/00
MATRIX:	Solid	ANALYZED:	7/12/00
DILUTION:	1	ANALYST:	BJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	66	25. µg/kg	1,1-Dichloropropene	ND	5. µg/kg
Benzene	ND	5. µg/kg	cis-1,3-Dichloropropene	ND	5. µg/kg
Bromobenzene	ND	5. µg/kg	trans-1,3-Dichloropropene	ND	5. µg/kg
Bromochloromethane	ND	5. µg/kg	Ethylbenzene	ND	5. µg/kg
Bromodichloromethane	ND	5. µg/kg	Hexachlorobutadiene	ND	5. µg/kg
Bromoform	ND	5. µg/kg	2-Hexanone	ND	25. µg/kg
Bromomethane	ND	5. µg/kg	Iodomethane	ND	5. µg/kg
2-Butanone	ND	25. µg/kg	Isopropylbenzene	ND	5. µg/kg
n-Butylbenzene	ND	5. µg/kg	p-Isopropyltoluene	ND	5. µg/kg
sec-Butylbenzene	ND	5. µg/kg	Methylene chloride (Dichloromethane)	7.4	5. µg/kg
tert-Butylbenzene	ND	5. µg/kg	4-Methyl-2-pentanone	ND	25. µg/kg
Carbon disulfide	ND	5. µg/kg	MTBE	ND	5. µg/kg
Carbon tetrachloride	ND	5. µg/kg	Naphthalene	ND	10. µg/kg
Chlorobenzene	ND	5. µg/kg	n-Propylbenzene	ND	5. µg/kg
Chloroethane	ND	5. µg/kg	Styrene	ND	5. µg/kg
Chloroform	ND	5 µg/kg	1,1,1,2-Tetrachloroethane	ND	5. µg/kg
Chloromethane	ND	5. µg/kg	1,1,2,2-Tetrachloroethane	ND	5. µg/kg
2-Chlorotoluene	ND	5. µg/kg	Tetrachloroethene (PCE)	ND	5. µg/kg
4-Chlorotoluene	ND	5. µg/kg	Toluene	7.3	5. µg/kg
Dibromochloromethane	ND	5. µg/kg	1,2,3-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/kg	1,2,4-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromoethane (EDB)	ND	5. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/kg
Dibromomethane	ND	5. µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/kg	Trichloroethene (TCE)	ND	5. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/kg	Trichlorofluoromethane (Freon 11)	ND	10. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/kg	1,2,3-Trichloropropane	ND	5. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/kg	1,2,4-Trimethylbenzene	ND	5. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	5 µg/kg	1,3,5-Trimethylbenzene	ND	5. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/kg	Vinyl chloride	ND	5. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/kg	o-Xylene	ND	5. µg/kg
cis-1,2-Dichloroethene	ND	5. µg/kg	m,p-Xylene	ND	5. µg/kg
trans-1,2-Dichloroethene	ND	5. µg/kg			
1,2-Dichloropropane	ND	5. µg/kg			
1,3-Dichloropropane	ND	5. µg/kg			
2,2-Dichloropropane	ND	10. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
4-Bromofluorobenzene	49	Sf	74 - 121 %
Dibromofluoromethane	114		80 - 120 %
Toluene-d8	72	Sf	81 - 117 %

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (BFPS)
PROJECT #: NA
CLIENT ID: SVE-0123
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-12

TEST: Semi-Volatile Organic Compounds by EPA 8270C, December 1996
METHOD: EPA 8270
MATRIX: Solid
DILUTION: 150
EXTRACTED: 7/12/00
ANALYZED: 7/13/00
ANALYST: VMM - Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acenaphthene	ND	75000. µg/kg	4,6-Dinitro-2-methyl phenol	ND	375000. µg/kg
Acenaphthylene	ND	75000. µg/kg	2,4-Dinitrotoluene (DNT)	ND	75000. µg/kg
Aniline	ND	150000 µg/kg	2,6-Dinitrotoluene (DNT)	ND	75000. µg/kg
Anthracene	ND	75000. µg/kg	2,4-Dinitrophenol	ND	375000. µg/kg
Azobenzene	ND	75000. µg/kg	Di-n-octyl phthalate	ND	75000. µg/kg
Benzo (a) anthracene	ND	75000. µg/kg	Fluoranthene	ND	75000 µg/kg
Benzo (b&k) fluoranthene	ND	75000. µg/kg	Fluorene	ND	75000. µg/kg
Benzoic Acid	ND	375000. µg/kg	Hexachlorobenzene	ND	75000. µg/kg
Benzo (g,h,i) perylene	ND	75000. µg/kg	Hexachlorobutadiene	ND	75000. µg/kg
Benzo (a) pyrene	ND	75000 µg/kg	Hexachlorocyclopentadiene	ND	75000. µg/kg
Benzyl alcohol	ND	150000 µg/kg	Hexachloroethane	ND	75000. µg/kg
bis (2-Chloroethyl) ether	ND	75000. µg/kg	Indeno (1,2,3-c,d) pyrene	ND	75000. µg/kg
bis (2-Chloroethoxy) methane	ND	75000. µg/kg	Isophorone	ND	75000. µg/kg
bis (2-chloroisopropyl) ether	ND	75000. µg/kg	2-Methylnaphthalene	ND	75000. µg/kg
bis (2-Ethylhexyl)phthalate	ND	75000. µg/kg	2-Methylphenol	ND	75000. µg/kg
Butylbenzylphthalate	ND	75000. µg/kg	3,4-Methylphenol (isomeric pair)	ND	75000 µg/kg
4-Bromophenyl phenyl ether	ND	75000. µg/kg	Naphthalene	ND	75000. µg/kg
Carbazole	ND	75000. µg/kg	2-Nitroaniline	ND	375000. µg/kg
4-Chloroaniline	ND	150000. µg/kg	3-Nitroaniline	ND	375000. µg/kg
4-Chloro-3-methyl phenol	ND	150000. µg/kg	4-Nitroaniline	ND	150000. µg/kg
2-Chloronaphthalene	ND	75000. µg/kg	Nitrobenzene	ND	75000. µg/kg
2-Chlorophenol	ND	75000. µg/kg	2-Nitrophenol	ND	75000. µg/kg
4-Chlorophenyl phenyl ether	ND	75000. µg/kg	4-Nitrophenol	ND	375000 µg/kg
Chrysene	ND	75000. µg/kg	N-Nitrosodi-n-propylamine	ND	75000. µg/kg
Dibenzo (a,h) anthracene	ND	75000. µg/kg	N-Nitroso-Dimethylamine	ND	75000. µg/kg
Dibenzofuran	ND	75000. µg/kg	N-Nitrosodiphenylamine	ND	75000. µg/kg
Di-n-butyl phthalate	ND	75000. µg/kg	Pentachlorophenol	ND	375000. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	75000. µg/kg	Phenol	ND	75000. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	75000. µg/kg	Phenanthrene	ND	75000. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	75000 µg/kg	Pyrene	ND	75000. µg/kg
2,4-Dichlorophenol	ND	75000. µg/kg	Pyridine	ND	75000. µg/kg
3,3'-Dichlorobenzidine	ND	150000. µg/kg	1,2,4-Trichlorobenzene	ND	75000. µg/kg
Diethylphthalate	ND	75000. µg/kg	2,4,5-Trichlorophenol	ND	75000. µg/kg
2,4-Dimethylphenol	ND	150000. µg/kg	2,4,6-Trichlorophenol	ND	75000. µg/kg
Dimethylphthalate	ND	75000. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	20	19 - 122 %
2-Fluorobiphenyl	86	30 - 115 %
2-Fluorophenol	77	25 - 121 %
Nitrobenzene-d5	96	23 - 120 %
p-Terphenyl-d14	130	18 - 137 %
Phenol-d5	69	24 - 113 %

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA

CLIENT ID: S00-0124
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-13

TEST: **TCLP-8 Metals**
MATRIX: **Solid**

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	0.27	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Barium	ND	1. mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Cadmium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Chromium	ND	0.01 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Lead	ND	0.05 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/9/00	7/10/00	7/10/00
Selenium	ND	0.1 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00
Silver	ND	0.02 mg/L	1	EPA 6010	7/9/00	7/10/00	7/12/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Burton Flats Plant (EPFS)
PROJECT #: NA
CLIENT ID: S00-0124
DATE SAMPLED: 6/29/00
NEL SAMPLE ID: P0007001-13

TEST: **Inorganic Non-Metals**
MATRIX: Solid
ANALYST: GWD - Division

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/kg	7/10/00
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/12/00
pH	8.09	2.	1	EPA 9045C	pH Units	7/13/00
pH Temperature	26.9	0.	1	EPA 9045C	°C	7/13/00
Sulfide, Reactive	ND	0.15	5	SW846 Chapter Seven	mg/kg	7/10/00

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	800-0124
PROJECT ID:	Burton Flats Plant (EPFS)	DATE SAMPLED:	6/29/00
PROJECT #:	NA	NEL SAMPLE ID:	P0007001-13
TEST:	Volatile Organic Compounds by EPA 8260B, December 1996		
METHOD:	EPA 8260B	EXTRACTED:	7/11/00
MATRIX:	Solid	ANALYZED:	7/11/00
DILUTION:	1	ANALYST:	BJV - Las Vegas Division

PARAMETER	Result µg/kg	Reporting Limit	PARAMETER	Result µg/kg	Reporting Limit
Acetone	ND	25. µg/kg	1,1-Dichloropropene	ND	5. µg/kg
Benzene	ND	5. µg/kg	cis-1,3-Dichloropropene	ND	5. µg/kg
Bromobenzene	ND	5. µg/kg	trans-1,3-Dichloropropene	ND	5. µg/kg
Bromochloromethane	ND	5. µg/kg	Ethylbenzene	ND	5. µg/kg
Bromodichloromethane	ND	5. µg/kg	Hexachlorobutadiene	ND	5. µg/kg
Bromoform	ND	5. µg/kg	2-Hexanone	ND	25. µg/kg
Bromomethane	ND	5. µg/kg	Iodomethane	ND	5. µg/kg
2-Butanone	ND	25. µg/kg	Isopropylbenzene	ND	5 µg/kg
n-Butylbenzene	ND	5. µg/kg	p-Isopropyltoluene	ND	5. µg/kg
sec-Butylbenzene	ND	5. µg/kg	Methylene chloride (Dichloromethane)	ND	5. µg/kg
tert-Butylbenzene	ND	5 µg/kg	4-Methyl-2-pentanone	ND	25. µg/kg
Carbon disulfide	ND	5. µg/kg	MTBE	ND	5. µg/kg
Carbon tetrachloride	ND	5 µg/kg	Naphthalene	ND	10. µg/kg
Chlorobenzene	ND	5. µg/kg	n-Propylbenzene	ND	5 µg/kg
Chloroethane	ND	5. µg/kg	Styrene	ND	5. µg/kg
Chloroform	ND	5. µg/kg	1,1,1,2-Tetrachloroethane	ND	5. µg/kg
Chloromethane	ND	5 µg/kg	1,1,2,2-Tetrachloroethane	ND	5. µg/kg
2-Chlorotoluene	ND	5. µg/kg	Tetrachloroethene (PCE)	ND	5. µg/kg
4-Chlorotoluene	ND	5. µg/kg	Toluene	ND	5. µg/kg
Dibromochloromethane	ND	5. µg/kg	1,2,3-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromo-3-chloropropane (DBCP)	ND	5. µg/kg	1,2,4-Trichlorobenzene	ND	5. µg/kg
1,2-Dibromoethane (EDB)	ND	5. µg/kg	1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/kg
Dibromomethane	ND	5. µg/kg	1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/kg
1,2-Dichlorobenzene (o-DCB)	ND	5. µg/kg	Trichloroethene (TCE)	ND	5. µg/kg
1,3-Dichlorobenzene (m-DCB)	ND	5. µg/kg	Trichlorofluoromethane (Freon 11)	ND	10. µg/kg
1,4-Dichlorobenzene (p-DCB)	ND	5. µg/kg	1,2,3-Trichloropropane	ND	5. µg/kg
Dichlorodifluoromethane (Freon 12)	ND	5. µg/kg	1,2,4-Trimethylbenzene	ND	5. µg/kg
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/kg	1,3,5-Trimethylbenzene	ND	5. µg/kg
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/kg	Vinyl chloride	ND	5. µg/kg
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/kg	o Xylene	ND	5. µg/kg
cis-1,2-Dichloroethene	ND	5. µg/kg	m,p-Xylene	ND	5. µg/kg
trans-1,2-Dichloroethene	ND	5. µg/kg			
1,2-Dichloropropane	ND	5. µg/kg			
1,3-Dichloropropane	ND	5. µg/kg			
2,2-Dichloropropane	ND	10. µg/kg			

QUALITY CONTROL DATA:

Surrogate	% Recovery		Acceptable Range
4-Bromofluorobenzene	71	SI	74 - 121 %
Dibromofluoromethane	105		80 - 120 %
Toluene-d8	83		81 - 117 %

ND Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

P0007001-

due 7/13 (Must have - per Wendy)

EL PASO NATURAL GAS

CHAIN OF CUSTODY RECORD

Page 1 of 2

PROJECT NUMBER: | PROJECT NAME: Burton Flats Plant (EPFS)

SAMPLER: Kathleen Nyman | DATE: 6/29/00

CONTRACT LABORATORY: NEL-Reno

ABID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	PRESERVATIVE USED	REQUESTED ANALYSIS: TCLP Metals	8260	8270	Reactivity	Corrosivity	Flashpoint	REMARKS
01	6/29/00	08:30	Soil	S00-0112	1	C	X	X	X	X	X	X	
02		09:00	Sludge	S00-0113	1	C							
03		09:15	Oil	S00-0114	1	C							
04		09:30	Oil	S00-0115	1	C							Custody Seal Intact? Y N None Temp. 6°
05		10:00	Soil	S00-0116	1	C							Condition when received: good
06		10:30	Oil	S00-0117	1	C							
07		10:45	Oil	S00-0118	1	C							
08		11:00	Oil	S00-0119	1	C							
09		11:30	Sludge	S00-0120	1	C							
10		12:00	Sludge	S00-0121	1	C							
11		12:30	Soil	S00-0122	1	C							
12	6/29/00	13:00	Sludge	S00-0123	1	C	X	X	X	X	X	X	

NEL INTERLAB SAMPLE CUSTODY RECORD

Shipment for Case Complete? Samples for Client to be Held Until

Relinquished/Date/Time | Received/Date/Time/Temp °C

Relinquished Date/Time | Received/Date/Time/Temp °C

# of Containers

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)
Kathleen Nyman	07/05/00 1600	NEL-Reno 7/6/00 (Fedex)			

REQUESTED TURNAROUND TIME: X ROUTINE 3 DAY 24 HR

CARRIER CO

AIR BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-587-3729 FAX 915 587-3855

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sample

FV-98-1164 (Rev. 10-94)

F-264 P.02 T-776 15056217371 FROM-AGRA EARTH & ENVIRONMENTAL JUL-28-00 12:39 PAGE

P000TCW1

Fac - 7/13

EL PASO NATURAL GAS

CHAIN OF CUSTODY RECORD

Page 2 of 2

F-264

T-776 P.03

15058217371

FROM-AGRA EARTH & ENVIRONMENTAL

JUL-28-00 12:40

P.O. / CET NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY
	Burton Flats Plant (EPFS)									NEL-Reno
SHIPPED VIA	DATE			TCLP Metals	8240	8270	Reactivity	Corrosivity	Ignitability	
SHIPPED BY Robin Mason	6/29/00									
ADD	DATE / TIME / MATRIX / SAMPLE NUMBER									REMARKS
13	6/29/00 13:30 Soil S00-0124	1	C	X	X	X	X	X	X	

Custody Seal Intact? Y N None Temp. 6°

Condition when received good

NEL INTERLAB SAMPLE CUSTODY RECORD

Relinquished/Date/Time

Received/Date/Time/Temp °C

# of Containers

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Robin Mason	07/05/00 1600	NEL-RENO 7/6/00 (VIA FEDEX)			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME

X ROUTINE Other _____

CARRIER CO.

WAYBILL NO.

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
6645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-597-3729 FAX: 915-597-3833

White - Fed'l Laboratory Canary - EPNG Lab Pink - Field Sampler

PN 96 9585 Rev. 12-93

O. Box 1980
bbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
esia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
., NM 87410
trict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator Gandy Corp
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site Lovington Yd.
2. Management Facility Destination Gandy-Marley landfarm	6. Transporter Gandy Corp.
3. Address of Facility Operator P.O. Box 1658 Roswell, NM 88201	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Lovington Yard	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Material from Wash Bay pit.

Estimated Volume 100 Yds cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: Vice-President DATE: 2/22/00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. (505) 398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 03-06-00

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 03-08-00

RECEIVED
MAR 0 8 2000
Environmental Bureau
Oil Conservation Division

GM inc.

COMMERCIAL LAND FARMS

A New Mexico Enterprise
Serving New Mexico's Needs

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: GANDY CORPORATION
LOVINGTON YARD

Source: WASH BAY PIT

Disposal Location: 34 Miles West of Tatum, NM on Hwy 380

"As a condition of acceptance for disposal, I hereby certify that this waste as defined by the Environmental Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."
In addition, Generator certifies that nothing has been added to the exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occuring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

I, the undersigned as the agent for GANDY CORPORATION concur with the status of the waste from the subject site.

Name LARRY GANDY

Title/Agency VICE-PRESIDENT

Address P.O. BOX 827
TATUM, NM 88267

Signature

Date FEB 22, 2000

Hall Environmental
Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	1/12/00
Project:	Gandy Lovington Yard	**Date Received:**	1/14/00
Project Manager:	L. Gandy	**Sample Matrix:**	Soil
Project Number:	01-2000	**Extraction Date:**	1/17/00

EPA Method -TCLP 8260

Units PPM mg/L

			Client ID:	Gandy Lovington Yard	-
			HEAL#:	0001053-1	Reagent Blank
			Analysis Date:	1/18/00	1/18/00
Compound	MDL	Action Level		Result	Result
Benzene	0.05	0.5		ND	ND
Carbon Tetracholride	0.05	0.5		ND	ND
Chlorobenzene	10	100		ND	ND
Chloroform	0.6	6.0		ND	ND
1,4-Dichlorobenzene	0.75	7.5		ND	ND
1,2-Dichloroethane (EDC)	0.05	0.5		ND	ND
1,1-Dichloroethene	0.07	0.7		ND	ND
Hexachlorobutadiene	0.05	0.5		ND	ND
Hexachloroethane	0.3	3.0		ND	ND
2-Butanone (MEK)	20	200		ND	ND
Tetrachloroethene (PCE)	0.07	0.7		ND	ND
Trichloroethene (TCE)	0.05	0.5		ND	ND
Vinyl Chloride	0.02	0.2		ND	ND
Surrogates:					
1,2-DCA-d4 Recovery				98%	83%
d8-Toluene Recovery				103%	107%
BFB Recovery				95%	95%
Dilution				1	1

Hall Environmental Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	NA
Project:	Gandy Lovington Yard	**Date Received:**	NA
Project Manager:	L. Gandy	**Sample Matrix:**	Aqueous
Project Number:	01-2000	**Date Extracted:**	NA

TCLP 8260 QC: BS/BSD 1/17

Compound	Sample Amount (mg/L)	Spike	Recovery	% Rec	Dup	% Dup	RPD
Benzene	<0.05	0.02	0.021	105	0.021	105	0
MEK	<20	0.120	0.100	83	0.102	85	2

Hall Environmental
Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	1/12/00
Project:	Gandy Lovington Yard	**Date Received:**	1/14/00
Project Manager:	L. Gandy	**Sample Matrix:**	Aqueous
Project Number:	01-2000	**Extraction Date:**	1/19/00

EPA Method -TCLP 8270

Units PPM mg/L

	Client ID:		-	Gandy Lovington Yard
	HEAL#:		Extraction Blank	0001053-1
	Analysis Date:		1/25/00	1/26/00
Compound	MDL	Action Level	Result	Result
o-Cresol	20	200	ND	<200
m-Cresol	20	200	ND	<200
p-Cresol	20	200	ND	<200
Cresol	20	200	ND	<200
2,4-Dinitrotoluene	0.013	0.13	ND	<0.13
Hexachlorobenzene	0.013	0.13	ND	<0.13
Nitrobenzene	0.2	2.0	ND	<2.0
Pentachlorophenol	10	100	ND	<100
Pyridine	0.5	5.0	ND	<5.0
2,4,5-Trichlorophenol	40	400	ND	<400
2,4,6-Trichlorophenol	0.2	2.0	ND	<2.0
Surrogates:				
2-Fluorophenol			47%	*
Phenol-d6			38%	*
Nitrobenzene-d5			62%	52%
2-Fluorobiphenyl			69%	48%
2,4,6-Tribromophenol			64%	*
Terphenyl-d14			44%	29%
Dilution			1	10

*Phenol surrogates not recoverable due to matrix interferences.

Hall Environmental Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	NA
Project:	Gandy Lovington Yard	**Date Received:**	NA
Project Manager:	L. Gandy	**Sample Matrix:**	Aqueous
Project Number:	01-2000	**Date Extracted:**	1/19/00

TCLP 8270 QC: BS/BSD 1/19

PPM mg/L

Compound	Sample Amount (mg/L	Spike	Recovery	% Rec	Dup	% Dup	RPD
o-Cresol	<20	0.10	0.059	59	0.063	63	7
2,4-Dinitrotoluene	<0.013	0.10	0.079	79	0.082	82	4
Hexachlorobenzene	<0.013	0.10	0.062	62	0.062	62	0
Nitrobenzene	<0.2	0.10	0.061	61	0.060	60	2
Pyridine	<0.5	0.10	0.048	48	0.042	42	13
2,4,5-Trichlorophenol	<40	0.10	0.061	61	0.063	63	3
2,4,6-Trichlorophenol	<0.2	0.10	0.053	53	0.047	47	12

SVL ANALYTICAL, INC.
One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS

CLIENT : Hall Environmental Lab
SVL JOB No. : 93450
SVL SAMPLE No.: 225355

CLIENT SAMPLE ID: G.LOVINGTON YARD
Sample Collected: 1/14/00 16:00
Sample Receipt : 1/19/00
Date of Report : 2/01/00
Matrix: EWATER

Determination	Result	Units	Dilution	Method	Test Date	Reference
Silver	<0.006	mg/L Ext	1	6010B	1/26/00	2
Arsenic	<0.04	mg/L Ext	1	6010B	1/26/00	2
Barium	0.814	mg/L Ext	1	6010B	1/26/00	2
Cadmium	0.0072	mg/L Ext	1	6010B	1/26/00	2
Chromium	0.005	mg/L Ext	1	6010B	1/26/00	2
Mercury	<0.0002	mg/L Ext	1	7470	1/24/00	2
Lead	<0.04	mg/L Ext	1	6010B	1/26/00	2
Selenium	<0.04	mg/L Ext	1	6010B	1/26/00	2

REFERENCES: 1) "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-20; 2) "Test Methods for Evaluating Solid Wastes, 3rd Edition", SW 846, 1994; 3) "Standard Methods for the Examination of Water and Wastewater", 18th ED. 1992; 4) ASTM Method; 5) 40 CFR, Part 261

Reviewed By: Blake Johnson Date 2/1/00
2/01/00 10:26

SVL ANALYTICAL, INC.
One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS

CLIENT : Hall Environmental Lab
SVL JOB No. : 93450
SVL SAMPLE No.: 225359

CLIENT SAMPLE ID: G.LOVINGTON YARD
Sample Collected: 1/12/00 12:20
Sample Receipt : 1/19/00
Matrix: SOIL
Date of Report : 2/01/00 As Received Basis

Determination	Result	Units	Dilution	Method	Test Date	Reference
Corrosivity, pH	7.5		1	9045C	1/31/00	2
Ignitibility	>140	°F	1	1010	1/31/00	2
Reactivity	NO	YES/NO	1	SW846	1/31/00	2

REFERENCES: 1) "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-20; 2) "Test Methods for Evaluating Solid Wastes, 3rd Edition", SW 846, 1994; 3) "Standard Methods for the Examination of Water and Wastewater", 18th ED. 1992; 4) ASTM Method; 5) 40 CFR, Part 261

Reviewed By: Blake Johnson Date 2/1/00
2/01/00 10:27

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Gandy Marley Inc.

Address: PO Box 1658
Roswell NM 88201

Phone #: 505-398-4960

Fax #: 505-398-6897

Project Name: Gandy Lovington Yard.

Project #: 01-2000

Project Manager: L Gandy

Sampler: Larry Gandy

Samples Cold?: ☑ Yes ☐ No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HCl	Preservative: Ice	HEAL No.
01-12-00	1220	Soil	Gandy Lovington Yard	2-4oz			✓	0001053-1

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B MOD (Gas/Diesel)	TPH (Method 418.1)	Volatiles Full List (8021)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals TCLP ✓	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260 (VOA) TCLP ✓	8270 (Semi-VOA) TCLP ✓	RCT ✓		Air Bubbles or Headspace (Y or N)
								✓				✓	✓	✓		

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
1-12-00	1 pm	Larry Gandy	Rosa Stone 1/14/00
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:

Full TCLP
DAT

FEB-20-2000(SUN) 23:00 HALL ENVIRONMENTAL (FAX)505 345 4107 P.014/015

Q. Box 1980
bbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
tesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
c, NM 87410
trict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator Barriga Tank Service
Verbal Approval Received: Yes ☐ No ☑	5. Originating Site Tatum Yard
2. Management Facility Destination Gandy-Marley Landfarm	6. Transporter Gandy Corp.
3. Address of Facility Operator P.O. Box 1658 Roswell, NM 88201	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Barriga Tank Service Tatum, NM 88267

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Residue from tank remanufacturing

Estimated Volume 50 Yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy (Waste Management Facility Authorized Agent) TITLE: Vice-President DATE: 2/22/00

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. (505) 398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 03-06-00

APPROVED BY: Matthew J. Kuhy TITLE: Environmental Geologist DATE: 03-08-00

GM inc.

COMMERCIAL LAND FARMS

A New Mexico Enterprise
Serving New Mexico's Needs

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Barriga Tank Service

Source: Residue from tank remanufacturing

Disposal Location: 34 Miles West of Tatum, NM on Hwy 380

"As a condition of acceptance for disposal, I hereby certify that this waste as defined by the Environmental Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."
In addition, Generator certifies that nothing has been added to the exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occuring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

I, the undersigned as the agent for Barriga Tank Service concur with the status of the waste from the subject site.

Name Larry Gandy

Title/Agency Vice Pesident

Address P.O. BOX 827
TATUM, NM 88267

Signature Larry Gandy

Date Feb 22, 2000

Hall Environmental Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	1/12/00
Project:	Barriga Tank	**Date Received:**	1/14/00
Project Manager:	L. Manual Barriga	**Sample Matrix:**	Soil
Project Number:	02-2000	**Extraction Date:**	1/17/00

EPA Method -TCLP 8260

Units PPM mg/L

			Barriga Tank	-
Client ID:				
HEAL#:			0001052-1	Reagent Blank
Analysis Date:			1/18/00	1/18/00
Compound	MDL	Action Level	Result	Result
Benzene	0.05	0.5	1.0	ND
Carbon Tetrachoiride	0.05	0.5	ND	ND
Chlorobenzene	10	100	ND	ND
Chloroform	0.6	6.0	ND	ND
1,4-Dichlorobenzene	0.75	7.5	ND	ND
1,2-Dichloroethane (EDC)	0.05	0.5	ND	ND
1,1-Dichloroethene	0.07	0.7	ND	ND
Hexachlorobutadiene	0.05	0.5	ND	ND
Hexachloroethane	0.3	3.0	ND	ND
2-Butanone (MEK)	20	200	ND	ND
Tetrachloroethene (PCE)	0.07	0.7	ND	ND
Trichloroethene (TCE)	0.05	0.5	ND	ND
Vinyl Chloride	0.02	0.2	ND	ND
Surrogates:				
1,2-DCA-d4 Recovery			96%	83%
d8-Toluene Recovery			105%	107%
BFB Recovery			99%	95%
Dilution			1	1

Hall Environmental
Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	NA
Project:	Barriga Tank	**Date Received:**	NA
Project Manager:	L. Manual Barriga	**Sample Matrix:**	Aqueous
Project Number:	02-2000	**Date Extracted:**	NA

TCLP 8260 QC: BS/BSD 1/17

Compound	Sample Amount (mg/L)	Spike	Recovery	% Rec	Dup	% Dup	RPD
Benzene	<0.05	0.02	0.021	105	0.021	105	0
MEK	<20	0.120	0.100	83	0.102	85	2

Hall Environmental Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	1/12/00
Project:	Barriga Tank	**Date Received:**	1/14/00
Project Manager:	L. Manual Barriga	**Sample Matrix:**	Aqueous
Project Number:	02-2000	**Extraction Date:**	1/19/00

EPA Method -TCLP 8270

Units PPM mg/L

Client ID:		-	**Barriga Tank**
HEAL#:		Extraction Blank	0001052-1
Analysis Date:		1/25/00	1/25/00

Compound	MDL	Action Level	Result	Result
o-Cresol	20	200	ND	ND
m-Cresol	20	200	ND	ND
p-Cresol	20	200	ND	ND
Cresol	20	200	ND	ND
2,4-Dinitrotoluene	0.013	0.13	ND	ND
Hexachlorobenzene	0.013	0.13	ND	ND
Nitrobenzene	0.2	2.0	ND	ND
Pentachlorophenol	10	100	ND	ND
Pyridine	0.5	5.0	ND	ND
2,4,5-Trichlorophenol	40	400	ND	ND
2,4,6-Trichlorophenol	0.2	2.0	ND	ND
Surrogates:				
2-Fluorophenol			47%	50%
Phenol-d6			38%	44%
Nitrobenzene-d5			62%	63%
2-Fluorobiphenyl			69%	73%
2,4,6-Tribromophenol			64%	86%
Terphenyl-d14			44%	56%
Dilution			1	1

Hall Environmental Analysis Laboratory

Client:	Gandy Marley Inc.	**Date Collected:**	NA
Project:	Barriga Tank	**Date Received:**	NA
Project Manager:	L. Manual Barriga	**Sample Matrix:**	Aqueous
Project Number:	02-2000	**Date Extracted:**	1/19/00

TCLP 8270 QC: BS/BSD 1/19

PPM mg/L

Compound	Sample Amount (mg/L	Spike	Recovery	% Rec	Dup	% Dup	RPD
o-Cresol	<20	0.10	0.059	59	0.063	63	7
2,4-Dinitrotoluene	<0.013	0.10	0.079	79	0.082	82	4
Hexachlorobenzene	<0.013	0.10	0.062	62	0.062	62	0
Nitrobenzene	<0.2	0.10	0.061	61	0.060	60	2
Pyridine	<0.5	0.10	0.048	48	0.042	42	13
2,4,5-Trichlorophenol	<40	0.10	0.061	61	0.063	63	3
2,4,6-Trichlorophenol	<0.2	0.10	0.053	53	0.047	47	12

SVL ANALYTICAL, INC.
One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS

CLIENT : Hall Environmental Lab
SVL JOB No. : 93450
SVL SAMPLE No.: 225356

CLIENT SAMPLE ID: BARRIGA TANK
Sample Collected: 1/14/00 16:00
Sample Receipt : 1/19/00
Date of Report : 2/01/00
Matrix: EWATER

Determination	Result	Units	Dilution	Method	Test Date	Reference
Silver	<0.006	mg/L Ext	1	6010B	1/26/00	2
Arsenic	<0.04	mg/L Ext	1	6010B	1/26/00	2
Barium	0.648	mg/L Ext	1	6010B	1/26/00	2
Cadmium	<0.0024	mg/L Ext	1	6010B	1/26/00	2
Chromium	<0.005	mg/L Ext	1	6010B	1/26/00	2
Mercury	<0.0002	mg/L Ext	1	7470	1/24/00	2
Lead	<0.04	mg/L Ext	1	6010B	1/26/00	2
Selenium	<0.04	mg/L Ext	1	6010B	1/26/00	2

REFERENCES: 1) "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-20; 2) "Test Methods for Evaluating Solid Wastes, 3rd Edition", SW 846, 1994; 3) "Standard Methods for the Examination of Water and Wastewater", 18th ED. 1992; 4) ASTM Method; 5) 40 CFR, Part 261

Reviewed By: Becka Johnson Date 2/1/00
2/01/00 10:26

SVL ANALYTICAL, INC.
One Government Gulch ■ P.O. Box 929 ■ Kellogg, Idaho 83837-0929 ■ Phone: (208)784-1258 ■ Fax: (208)783-0891

REPORT OF ANALYTICAL RESULTS

CLIENT : Hall Environmental Lab
SVL JOB No. : 93450
SVL SAMPLE No.: 225360

CLIENT SAMPLE ID: BARRIGA TANK
Sample Collected: 1/12/00 10:30
Sample Receipt : 1/19/00
Date of Report : 2/01/00 As Received Basis
Matrix: SOIL

Determination	Result	Units	Dilution	Method	Test Date	Reference
Corrosivity, pH	7.6		1	9045C	1/31/00	2
Ignitibility	>140	°F	1	1010	1/31/00	2
Reactivity	NO	YES/NO	1	SW846	1/31/00	2

REFERENCES: 1) "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-20; 2) "Test Methods for Evaluating Solid Wastes, 3rd Edition", SW 846, 1994; 3) "Standard Methods for the Examination of Water and Wastewater", 18th ED. 1992; 4) ASTM Method; 5) 40 CFR, Part 261

Reviewed By: Brooke Johnson Date 2/1/00
2/01/00 10:27

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Gandy Marley Inc.

Address: PO Box 1658
Roswell NM 88202

Phone #: 398-4960

Fax #: 398-1887

Project Name: Barriga Tank

Project #: 02-2000

Project Manager: L Manuel Barriga

Sampler: L Gandy

Samples Cold?: ☑ Yes ☐ No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HCl	Preservative: H2O	HEAL No.
1-12-00	1050	Soil	Barriga Tank	2 4oz			✓	0001521

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B MOD (Gas/Diesel)	TPH (Method 418.1)	Volatiles Full List (8021)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals TCLP	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260 (VOA) TCLP	8270 (Semi-VOA) TCLP	RCI		Air Bubbles or Headspace (Y or N)
								✓				✓	✓	✓		

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	
1-DOO	1pm	Larry Gandy	Anne Thompson	1/14/00 1320
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

Remarks: Full TCLP
RCI

FEB-10-2000(THU) 01:56 HALL ENVIRONMENTAL (FAX)505 345 4107 P.013/014

O. Box 1980
bbs, NM 88241-1980
strict II (505) 748-1283
S. First
esia, NM 88210
strict III - (505) 334-6178
0 Rio Brazos Road
., NM 87410
strict IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Transwestern Pipeline
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site WT #1
2. Management Facility Destination GMI Landfarm	6. Transporter Gandy
3. Address of Facility Operator 36 Miles West of Tatum on Highway 380	8. State NM
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

8 drums of contaminated soil, accumulated from pigging operations, tank containment cleanup, and engine room pits cleanup

stimated Volume 8 drums cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

IGNATURE: _____ TITLE: Vice-President DATE: 5-10-99
Waste Management Facility Authorized Agent

YPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 5-20-99

APPROVED BY: Martyne J Kelly TITLE: Environmental Geologist DATE: 5-29-99

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: TRANSWESTERN PIPELINE
WT #1

Source: 8 DRUM's OF CONTAMINATED SOIL, ACCUMALATED FROM Pigging Operations, TANK CONTAINMENT CLEANUP & ENG Rm Pits CLEANUP

Disposal Location: GMI-36 miles west of Tatum on Highway 380

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for TRANSWESTERN PIPELINE CO concur with the status of the waste from the subject site.

Name JAMES JONES

Title/Agency SENIOR OPERATIONS AND MAINTENANCE TECH.

Address PO BOX TT
CARLSBAD N.M. 88220

Signature James Jones

Date 4-30-99

Pace Analytical

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
St. Rose, LA 70087
Tel: 504-469-0333
Fax: 504-469-0555

Larry Campbell
Transwestern Pipeline
6381 N. Main Street
Roswell, NM 88201

Project:
Site:
Episode: QUJ

To: Larry Campbell

Enclosed please find the analytical results for sample(s) received by Pace Analytical Services, Inc. - New Orleans.

This report contains a summary of the quality control data associated with the analyses as well as copies of the chain-of-custody documents.

You may direct any inquires concerning this report to your Project Manager, or any one of the Project Managers listed below:

Ms. Karen H. Brown, Manager, Ext. 325
Mr. William R. Shackelford, Ext. 326
Ms. Cindy Olavesen, Ext. 327

Sincerely,

Cindy Olavesen
Project Manager

3/23/99
Date

Enclosures

Pace Analytical Services, Inc. - New Orleans
Sample Cross Reference Summary

Episode: QUJ Client: Transwestern Pipeline

Project:

Site:

Lab ID	Client ID	Description	Matrix	Collected	Received
QUJ-001	ENGINE ROOM PIT	OILY SOIL #1009	Soil	03/07/99	03/09/99
QUJ-002	MUFFLER PIT SOIL	#1011	Soil	03/07/99	03/09/99
QUJ-003	DEHY CONTAINMENT	SOIL #1012	Soil	03/07/99	03/09/99
QUJ-004	CRAWFORD SOIL	#1014	Soil	03/07/99	03/09/99
QUJ-005	OIL CONTAMINATED SOIL	#1015	Soil	03/07/99	03/09/99
QUJ-006	PIPELINE PIGGING	SLUDGE #1016	Soil	03/07/99	03/09/99
QUJ-007	MONUMENT JUNCTION	SOIL #1018	Soil	03/07/99	03/09/99
QUJ-008	ENGINE ROOM PIT	OILY SOIL #1017	Soil	03/07/99	03/09/99

RCI 1,2,3,4,5 1999

TPH For ? Different Lab# " " 1998
PCB For ? Different Lab # No chain of Custody

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ENGINE ROOM PIT
Client: TRANSWESTERN PIPELINE
Project: None
Site: None
Lab ID: QUJ-001
Episode: QUJ
Description: OILY SOIL #1009
Matrix: Soil
%Moisture: wet

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	29609	1	1	6.48	C3	S.U.			09-Mar-99	16:45 MC	
Reactive Cyanide	SW 7.3.3.2	29615	1	1	ND	C3	mg/kg	25.0	19-Mar-99	22-Mar-99	15:25 LAK	
Reactive Sulfide	SW 7.3.4.2	29615	1	1	ND	C3	mg/kg	50.0	19-Mar-99	22-Mar-99	11:00 DM	

3 parameter(s) reported

✓

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

3/23/99 07:21:41

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: MUFFLER PIT SOIL
Client: TRANSWESTERN PIPELINE
Project: None
Site: None
Lab ID: QUJ-002
Episode: QUJ
Description: #1011
Matrix: Soil
%Moisture: wet

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	29609	1	1	6.68	C3	S.U.			09-Mar-99	16:45 MC	
Reactive Cyanide	SW 7.3.3.2	29615	1	1	ND	C3	mg/kg	25.0	19-Mar-99	22-Mar-99	15:25 LAK	
Reactive Sulfide	SW 7.3.4.2	29615	1	1	ND	C3	mg/kg	50.0	19-Mar-99	22-Mar-99	11:00 DM	

3 parameter(s) reported

✓

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: DEHY CONTAINMENT
Client: TRANSWESTERN PIPELINE
Project: None
Site: None
Lab ID: QUJ-003
Episode: QUJ
Description: SOIL #1012
Matrix: Soil
%Moisture: wet

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	29609	1	1	6.97	C3	S.U.			09-Mar-99	16:45 MC	
Reactive Cyanide	SW 7.3.3.2	29615	1	1	ND	C3	mg/kg	25.0	19-Mar-99	22-Mar-99	15:25 LAK	
Reactive Sulfide	SW 7.3.4.2	29615	1	1	ND	C3	mg/kg	50.0	19-Mar-99	22-Mar-99	11:00 DM	

3 parameter(s) reported

✓

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

3/23/99 07:21:50

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: CRAWFORD SOIL
Client: TRANSWESTERN PIPELINE
Project: None
Site: None
Lab ID: QUJ-004
Episode: QUJ
Description: #1014
Matrix: Soil
%Moisture: wet

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	29609	1	1	6.88	C3	S.U.			09-Mar-99	16:45 MC	
Reactive Cyanide	SW 7.3.3.2	29615	1	1	ND	C3	mg/kg	25.0	19-Mar-99	22-Mar-99	15:25 LAK	
Reactive Sulfide	SW 7.3.4.2	29615	1	1	ND	C3	mg/kg	50.0	19-Mar-99	22-Mar-99	11:00 DM	

3 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: OIL CONTAMINATED SOIL
Client: TRANSWESTERN PIPELINE
Project: None
Site: None
Lab ID: QUJ-005
Episode: QUJ
Description: #1015
Matrix: Soil
%Moisture: wet

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	29609	1	1	7.03	C3	S.U.			09-Mar-99	16:45 MC	
Reactive Cyanide	SW 7.3.3.2	29615	1	1	ND	C3	mg/kg	25.0	19-Mar-99	22-Mar-99	15:25 LAK	
Reactive Sulfide	SW 7.3.4.2	29615	1	1	ND	C3	mg/kg	50.0	19-Mar-99	22-Mar-99	11:00 DM	

3 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Analytical Results - Conventional Paramete

MURPHY OIL COMPANY

Non-Liquid Ignitability Data Sheet

Prepared Date: NA
Analyzed Date: 3/10/99

Client ID/ Lab ID	Spontaneous Ignition	Ignitable With Moisture	Ignites When Agitated	Burns Vigorously When Lit	Meet Ignitable Characteristics
ENGINE ROOM PIT OILY SOIL #1009					
QUJ-001	No	No	No	No	No
MUFFLER PIT SOIL #1011					
QUJ-002	No	No	No	Yes	No
DEHY CONTAINMENT SOIL #1012					
QUJ-003	No	No	No	Yes	No
CRAWFORD SOIL #1014					
QUJ-004	No	No	No	No	No
OIL CONTAMINATED SOIL #1015					
QUJ-005	No	No	No	No	No
PIPELINE PIGING SLUDGE #1016					
QUJ-006	No	No	No	No	No
MONUMENT JUNCTION SOIL #1018					
QUJ-007	No	No	No	No	No
ENGINE ROOM PIT OILY SOIL #1017					
QUJ-008	No	No	No	No	No

RCRA Characteristic - Ignitability

For non-liquid samples, the EPA methods and guidelines for judging samples as meeting the characteristic of ignitability are ill-defined. For liquid samples, a closed cup flashpoint test is performed and this allows the determination of a flash temperature.

For the non-liquid samples the regulation specifically states:

> "It is not a liquid and is capable, under standard temperature and pressure,, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard" - and there is NO method referenced.

In order to determine whether samples meet this characteristic, we have devised the following set of tests, and present the results of each component to our clients. As opposed to the temperature of flashpoint presented for liquid samples, only a YES or NO is provided as final data for the determination of non-liquid Ignitability.

Test Components

A)	Sample undergoes spontaneous combustion	YES or NO
B)	Sample ignites when moisture is added (water)	YES or NO
C)	Sample ignites when agitated (friction)	YES or NO
D)	Sample burns vigorously when lit with a flame (open container)	YES or NO

Determination:

If ANY of the A, B, or C components is YES, the sample WILL be determined as Ignitable.

If ONLY D is YES, the sample would NOT meet the criteria and would be deemed NOT Ignitable.

If ALL components are NO, the sample is NOT Ignitable.

If you have any questions with regard to procedures or data, please contact the laboratory.

s:\data\word\ignite.doc

Pace Analytical Services, Inc. - New Orleans
Laboratory Quality Control Definitions

Our laboratory employs quality control (QC) measures to ensure the quality of our analytical data by defining its accuracy and precision. Presentation of the QC data with the report allows the data user the opportunity to evaluate these results and to gauge the method performance. In order to assist the understanding of these data, routine components of our QC program are defined below.

BATCH - A batch is a group of 20 samples or less of a given matrix and analysis by a specific protocol or analytical method.

BLANK - A method blank is a "clean" laboratory sample carried through the entire analytical process. One or more method blanks are prepared with each batch of samples. The analysis of method blanks demonstrates that method interferences caused by contaminants, reagents and glassware are known and minimized. A method blank should not contain any analytes of interest above the reporting limit. There are method allowances for common laboratory artifacts such as methylene chloride, acetone and bis-2-ethylhexyl phthalate.

LABORATORY CONTROL SPIKE - A laboratory control spike (LCS or blank spike) is a blank which has been spiked with known concentrations of target analytes. The LCS is carried through the entire analytical process. One or more LCS are prepared with each batch of samples. The percent recovery of the spiked analytes provides a measure of the accuracy of the analytical process in the absence of matrix effects.

MATRIX SPIKE - A matrix spike (MS) is a client sample which is spiked with known concentrations of target analytes. The MS is carried through the entire analytical process. One or more matrix spikes are prepared with every batch of samples. For organic methods, a matrix spike duplicate (MSD) is also prepared. The percent recovery of the spiked analytes provides a measure of the method accuracy in the selected sample and matrix.

DUPLICATE - A duplicate is a sample for which replicate aliquouts are carried through the entire analytical process. Comparison of the original results to those of the duplicate results provides a measure of the method precision in the sample and matrix. By convention, precision is measured for inorganic analyses using a sample and a sample duplicate, whereas for organics analyses, an MS/MSD are used.

SURROGATE - A surrogate is a non-target analyte which is added to all samples and QC samples prior to extraction or analysis. The percent recovery of the surrogate provides a measure of the method accuracy in each sample tested. Surrogates are used for organics methods only.

QC LIMITS - QC limits specify the expected percent recovery range for a spiked compound. QC limits may be set by method criteria or calculated from laboratory generated data. For many methods, these limits are advisory and do not require corrective action if exceeded.

QA/QC SUMMARY

CONVENTIONAL PARAMETERS

PARAMETER	Matrix/Blank Spike Level	Blank Det'n Limits	Units	Blank Conc.	Spike Recovery (%) Matrix	Blank	Replicate Precision RPD	QC Batch #
Ignitability	NA/NA	NA	°C	NA	NA	NA	0.0	29624

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Multiple Parameters - Multiple Batches

Episode: QUJ

Parameter Name	Batch	Blank	Units	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
pH-Corrosivity	29609	ND	S.U.	6.00	100						99-101		20	
Reactive Cyanide	29615	ND	mg/kg	4.00	20		100	0 *		0	1-30	1-30	20	
Reactive Sulfide	29615	ND	mg/kg	340	85		320	84		0	80-120	75-125	20	

Report Qualifiers

Pace Analytical Services, Inc. - New Orleans

Single Episode

Episode: QUJ

Qualifier	Qualifier Description
C3	The result for this parameter is not corrected for moisture content.

Pace Analytical

Page 1 of 1

408819

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: TRANSWESTERN Pipeline Co	Report To: JAMES "JJ" JONES	Turn around Time: ☐ 24 Hours ☐ 48 Hours ☑ 3-5 Days ☐ 1 Week 2 Weeks ☑ Normal 14 Days See REMARKS	Pace Client No.
Address: PO Box TT	Bill To: PO Box TT-		Pace Project Manager
CARLSBAD N.M. 88220	P.O. # / Billing Reference		Pace Project No.
Phone: 505-885-8525	Project Name / No.		*Requested Due Date: See REMARKS

Sampled By (PRINT): JAMES JONES

Sampler Signature: James Jones Date Sampled: 3-7-99

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH	ANALYSES REQUEST: Asbestos	RUSH	RUSH	RUSH	RUSH	RUSH	Total Arsenic	Total Chromium	Total Lead	Total Halogens Flash Point	REMARKS
1	CRAWFORD Pipeline Coating #1041	10AM	—	—	1	X					X										Please Rush
2	Used Engine Oil #1050	11:30	—	—	1	X											X	X	X		Please Rush
3	Engine Room Pit Oily Soil #1009	12:30	—	—	1	X						X									NO Rush
4	Muffler Pit Soil #1011	12:30	—	—	1	X							X								NO Rush
5	Dehy Containment Soil #1012	12:30	—	—	1	X								X							NO Rush
6	CRAWFORD Soil #1014	12:30	—	—	1	X									X						NO Rush.
7	Oil Contaminated Soil #1015	12:30	—	—	1	X										X					NO Rush
8	Pipeline Pigging Sludge #1016	12:30	—	—	1	X											X				NO Rush

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS
		3-8-99	1

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
1	James Jones TW UPS	3-8-99	1:30pm	UPS Annie Winston Pace	3499	0945

SAMPLE CONDITION

Temp: 4 °C | Received on Ice: (Y)/N | Sealed Cooler: (Y)/N | Samples Intact: (Y)/N

Additional Comments

SEE REVERSE SIDE FOR INSTRUCTIONS

8/97

Pace Analytical

408820

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: TRANSWESTERN PIPELINE CO	Report To: JAMES "JJ" JONES	Turn around Time: ☐ 24 Hours ☐ 48 Hours ☐ 3-5 Days ☐ 1 Week 2 Weeks ☑ Normal 14 Days See Remarks	Pace Client No.
Address: PO BOX TT	Bill To: PO BOX TT		Pace Project Manager
CARLSBAD N.M. 88220	P.O. # / Billing Reference		Pace Project No.
Phone: 505-885-8525	Project Name / No.		*Requested Due Date: See Remarks

Sampled By (PRINT): JAMES JONES

Sampler Signature: James Jones Date Sampled: 3-7-99

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH	ANALYSES REQUEST: RUSH	RCH	REMARKS
1	#1018 MONUMENT JUNCTION SOIL	12:30	—	—	1	X					X		NO RUSH
2	#1017 ENGINE ROOM PIT OILY SOIL	12:30	—	—	1	X						X	NO RUSH
3													
4													
5													
6													
7													
8													

SHIPMENT METHOD	AIR BILL NO.	SHIPPING DATE	NUMBER OF COOLERS
		3-8-99	1

Additional Comments

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				UPS		
	UPS			Annie W Hester / PACE	3-9-99	0945

SAMPLE CONDITION

Temp: _____°C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N

SEE REVERSE SIDE FOR INSTRUCTIONS

8/97

Pace Analytical

Pace Analytical Services, Inc.
1000 Riverbend Blvd.
Suite F
St. Rose, LA 70087
TEL: 504-469-0333
FAX: 504-469-0555

Fax Transmittal Cover Sheet

Date: *4/09/1998*

To: *Shane Youngblood*

TWP

Fax No.: *505-885-1762*

Total Number of Pages (Including This Cover): *19*

Sender: *Cindy Olavesen*

Comments: *Here are your results.*

Have a good day.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1017 ENGINE RM PIT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-009 wrong lab #
Episode: LMS
Sample Qu:
Description: OIL CONTAMINATED SOIL
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8080 PCBs
Batch: 25670
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 19:09 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	1	ND		1000	
11104-28-2	Aroclor-1221	1	ND		1000	
11141-16-5	Aroclor-1232	1	ND		1000	
53469-21-9	Aroclor-1242	1	ND		1000	
12672-29-6	Aroclor-1248	1	ND		1000	
11097-69-1	Aroclor-1254	1	ND		1000	
1109-82-5	Aroclor-1260	1	ND		1000	

7 compound(s) reported

↑ PCB



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:15

APR-9-98 THU 0:43

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: #1016
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-008
Episode: LMS
Sample Qu:
Description: PIPELINE SLUDGE COMP
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8080 PCBs
Batch: 25670
Units: ug/kg

Prep Factor: 10.0
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 18:55 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	10	ND	D2	100000	
11104-28-2	Aroclor-1221	10	ND	D2	100000	
11141-16-5	Aroclor-1232	10	ND	D2	100000	
53469-21-9	Aroclor-1242	10	ND	D2	100000	
12672-29-6	Aroclor-1248	10	ND	D2	100000	
11097-69-1	Aroclor-1254	10	ND	D2	100000	
1109-82-5	Aroclor-1260	10	ND	D2	100000	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:40:15

APR- 9-98 THU 0:43

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1015 DRUM#6 OIL
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-007
Episode: LMS
Sample Qu:
Description: CONTAMINATED SOIL
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8080 PCBs
Batch: 25670
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 18:41 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	1	ND		1000	
11104-28-2	Aroclor-1221	1	ND		1000	
11141-16-5	Aroclor-1232	1	ND		1000	
53469-21-9	Aroclor-1242	1	ND		1000	
12672-29-6	Aroclor-1248	1	ND		1000	
11097-69-1	Aroclor-1254	1	ND		1000	
1109-82-5	Aroclor-1260	1	ND		1000	

7 compound(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:15

APR-9-98 THU 0:42

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1013 DEHY COND
Project: MEGA AUDIT
Lab ID: LMS-005
Description: CONTAMINATED SOIL
Method: Med Soil SW 8020 BTEX

Client: TRANSWESTERN PIPELINE
Site: None
Episode: LMS
Matrix: Other
Batch: 25837

Sample Qu:
% Moisture: n/a
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 02-Apr-98
Analyzed: 03-Apr-98 17:51 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Re Limit
71-43-2	Benzene	2	ND	D1	100	
100-41-4	Ethylbenzene	2	214	D1	100	
108-88-3	Toluene	2	372	D1	100	
1330-20-7	m-p-Xylene	2	1340	D1	100	
1330-20-7	o-Xylene	2	2360	D1	100	

5 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:14

APR- THU 0:41

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1012 DEHY COND
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-004
Episode: LMS
Sample Qu:
Description: CONTAMINATED SOIL
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8080 PCBs
Batch: 25670
Units: ug/kg

Prep Factor: 10.0
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 18:27 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	10	ND	D2	100000	
11104-28-2	Aroclor-1221	10	ND	D2	100000	
11141-16-5	Aroclor-1232	10	ND	D2	100000	
53469-21-9	Aroclor-1242	10	ND	D2	100000	
12672-29-6	Aroclor-1248	10	ND	D2	100000	
11097-69-1	Aroclor-1254	10	ND	D2	100000	
1109-82-5	Aroclor-1260	10	ND	D2	100000	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:14

APR-9-98 THU 0:41

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1011 MUFFLER CONT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-003
Episode: LMS
Sample Qu:
Description: CONTAMINATED SOIL
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8020 BTEX
Batch: 25837
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 02-Apr-98
Analyzed: 03-Apr-98 17:32 SLF

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	2	109	D1	100	
100-41-4	Ethylbenzene	2	108	D1	100	
108-88-3	Toluene	2	899	D1	100	
1330-20-7	m-p-Xylene	2	856	D1	100	
1330-20-7	o-Xylene	2	290	D1	100	

5 compound(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:14

APR-_9-98 THU 0:40

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol



Client ID: 1010 MUFFLER CONT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-002
Episode: LMS
Sample Qu:
Description: CONTAMINATED SOIL
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8080 PCBs
Batch: 25670
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 18:14 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	1	ND		1000	
11104-28-2	Aroclor-1221	1	ND		1000	
11141-16-5	Aroclor-1232	1	ND		1000	
53469-21-9	Aroclor-1242	1	ND		1000	
12672-29-6	Aroclor-1248	1	ND		1000	
11097-69-1	Aroclor-1254	1	ND		1000	
1109-82-5	Aroclor-1260	1	ND		1000	

7 compound(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:14

APR-9-98 THU 0:40

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1009 ENG RM PIT
Project: MEGA AUDIT
Lab ID: LMS-001
Description: OIL/WASTE SLUDGE
Method: Med Soil SW 8080 PCBs

Client: TRANSWESTERN PIPELINE
Site: None
Episode: LMS
Matrix: Other
Batch: 25670

Sample Qu:
% Moisture: n/a
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 18:00 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	1	ND		1000	
11104-28-2	Aroclor-1221	1	ND		1000	
11141-16-5	Aroclor-1232	1	ND		1000	
53469-21-9	Aroclor-1242	1	ND		1000	
12672-29-6	Aroclor-1248	1	ND		1000	
11097-69-1	Aroclor-1254	1	ND		1000	
1109-82-5	Aroclor-1260	1	ND		1000	

7 compound(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:14

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1018 MONUMENT JUNCT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-010
Episode: LMS
Description: OIL CONTAMINATED SOIL
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	Reg. Limit
TPH IR	EPA 418.1	25786	100	2	167000	D1 A	mg/kg	10000	31-Mar-98	03-Apr-98	LAK

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44:05

APR- 9-98 THU 0:58

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1017 ENGINE RM PIT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-009
Episode: LMS
Description: OIL CONTAMINATED SOIL
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
TPH IR	EPA 418.1	25786	500	1	285000	D1 A	mg/kg	25000	31-Mar-98	03-Apr-98	LAK	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44:03

APR-9-98 THU 0:57

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: #1016 Client: TRANSWESTERN PIPELINE

Project: MEGA AUDIT Site: None

Lab ID: LMS-008 Episode: LMS

Description: PIPELINE SLUDGE COMP Matrix: Other %Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Flashpoint	SW 1010 (modif	25688	1	1	55.0		deg C			08-Apr-98	DM	

1 parameter(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44:03

APR-9-98 THU 0:57

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1015 DRUM#6 OIL
Project: MEGA AUDIT
Lab ID: LMS-007
Description: CONTAMINATED SOIL

Client: TRANSWESTERN PIPELINE
Site: None
Episode: LMS
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis	
TPH IR	EPA 418.1	25786	200	1	122000	D1 A	mg/kg	10000	31-Mar-98	03-Apr-98	LAK

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44:03

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1014 CRAWFORD OIL
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-006
Episode: LMS
Description: CONTAMINATED SOIL
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
TPH IR	EPA 418.1	25786	500	2	439000	DI A	mg/kg	50000	31-Mar-98	03-Apr-98	LAK	

1 parameter(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44.02

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1012 DEHY COND
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-004
Episode: LMS
Description: CONTAMINATED SOIL
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
TPH IR	EPA 418.1	25786	500	1	222000	DI A	mg/kg	25000	31-Mar-98	03-Apr-98	LAK	

1 parameter(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44:02

APR- 9-98 THU 0:55

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1010 MUFFLER CONT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-002
Episode: LMS
Description: CONTAMINATED SOIL
Matrix: Other
%Moisture: n/a

ParamcterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
TPH IR	EPA 418.1	25786	100	4	164000	DI A	mg/kg	20000	31-Mar-98	03-Apr-98	LAK	

1 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:11.02

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: 1009 ENG RM PIT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-001
Episode: LMS
Description: OIL/WASTE SLUDGE
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
TPH IR	EPA 418.1	25786	500	1	194000	DI A	mg/kg	25000	31-Mar-98	03-Apr-98	LAK	

1 parameter(s) reported



ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:44:02

APR- 9-98 THU 0:54

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: #1016 Client: TRANSWESTERN PIPELINE

Project: MEGA AUDIT Site: None

Lab ID: LMS-008 Leachate Episode: LMS

Description: PIPELINE SLUDGE COMP Matrix: Other %Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	25729	1	1	ND	C3	mg/l	1.00	30-Mar-98	31-Mar-98	12:59	
Lead	SW 6010	25729	1	1	ND	C3	mg/l	0.500	30-Mar-98	31-Mar-98	12:59 KJR	5.00

2 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:39

APR- 9-98 THU 0:53

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: 1018 MONUMENT JUNCT
Client: TRANSWESTERN PIPELINE
Project: MEGA AUDIT
Site: None
Lab ID: LMS-010
Episode: LMS
Sample Qu:
Description: OIL CONTAMINATED SOIL
Matrix: Other
% Moisture: n/a
Method: Med Soil SW 8080 PCBs
Batch: 25670
Units: ug/kg

Prep Factor: 10.0
Leached: n/a
Prepared: 26-Mar-98
Analyzed: 27-Mar-98 19:23 LSK

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
12674-11-2	Aroclor-1016	10	ND	D2	100000	
11104-28-2	Aroclor-1221	10	ND	D2	100000	
11141-16-5	Aroclor-1232	10	ND	D2	100000	
53469-21-9	Aroclor-1242	10	ND	D2	100000	
12672-29-6	Aroclor-1248	10	ND	D2	100000	
11097-69-1	Aroclor-1254	10	ND	D2	100000	
1109-82-5	Aroclor-1260	10	ND	D2	100000	

7 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

4/9/98 11:43:15

O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
tesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
tec, NM 87410
istrict IV - (505) 827-7131

NEW MEXICO

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

FORM C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EL PASO ENERGY
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site PLAINS COMPRESSOR
2. Management Facility Destination GMI	6. Transporter GANDY
3. Address of Facility Operator 33 MILES WEST OF TATUM ON HIGHWAY 380	8. State NM
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

150 BARRELS NON-EXEMPT FLUID
AND PIGGING SLUDGE

Robbs T
340-0202

Estimated Volume 150 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy (Waste Management Facility Authorized Agent) TITLE: VICE-PRESIDENT DATE: 3-1-99

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 3-29-99

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 3-19-99

O. Box 1980
bbs, NM 88241-1980
strict II - (505) 748-1283
1 S. First
tesia, NM 88210
strict III - (505) 334-6178
00 Rio Brazos Road
ec, NM 87410
strict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 1 1999
Environmental Bureau
Oil Conservation Division

Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EL PASO ENERGY
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site PLAINS COMPRESSOR
2. Management Facility Destination GMI	6. Transporter GANDY
3. Address of Facility Operator 33 MILES WEST OF TATUM ON HIGHWAY 380	8. State NM
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

150 BARRELS NON-EXEMPT FLUID
AND PIGGING SLUDGE

Estimated Volume 150 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: VICE-PRESIDENT DATE: 3-1-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kieling TITLE: Env Geologist DATE: 3-19-99

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: EL PASO NATURAL GAS

Source: PLAINS STATION

Disposal Location: 34 miles West of Tatum on Hiway 380

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for EL PASO ENERGY concur with the status of the waste from the subject site.

Name BILLY W. HAVEMAN

Title/Agency LEAD TECH.

Address HCR3 Box 51

DENVER CITY TX 79323

Signature Billy H

Date 3-1-99

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Burbank

Reno Division
1030 Matley Lane • Reno, Nevada 89502
(702) 348-2522 • Fax: (702) 348-2546
1-800-368-5221

CLIENT: El Paso Natural Gas Co.
8645 Railroad Dr.
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Caprock Plain Pigging
PROJECT #: NA

NEL ORDER ID: P9901024

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 1/14/99.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

S99-0032 and S99-0034 did not filter and were TCLP extracted. During ignitability testing the samples boiled at 136 and167 degrees. Flash point cannont be determined accurately if the sample boils. S99-0033 was filterable with <0.5% solids.

Some results have been flagged as follows:

Jm - This concentration should be considered an estimate due to probable matrix effects.

Some QA results have been flagged as follows:

C - Sample concentration is at least 5 times greater than spike contribution. Spike recovery criteria do not apply.
Jm - This concentration should be considered an estimate due to probable matrix effects.

Eileen M. Ferguson
Eileen M. Ferguson
Laboratory Manager

1/22/99
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
L.A.C.S.D.			10228

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: S99-0032
DATE SAMPLED: 1/13/99
NEL SAMPLE ID: P9901024-01

TEST: Inorganic Non-Metals
MATRIX: Organic Liquid

PARAMETER	RESULT	REPORTING LIMIT	D.F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.1	5	SW846 Chapter Seven	mg/L	1/16/99
Ignitability	>136	50	1	EPA 1010	Temp °F	1/15/99
pH	6.03	2.	1	EPA 9045C	ph Units	1/19/99
pH Temperature	21.6	1.	1	EPA 9045C	°C	1/19/99
Sulfide, Reactive	23	1.875	62.5	SW846 Chapter Seven	mg/L	1/16/99

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: S99-0033
DATE SAMPLED: 1/13/99
NEL SAMPLE ID: P9901024-02

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.02	1	SW846 Chapter Seven	mg/L	1/16/99
pH	7.23	2.	1	EPA 150.1	pH Units	1/19/99
pH Temperature	21.3	1.	1	EPA 150.1	°C	1/19/99
Sulfide, Reactive	0.54	0.075	2.5	SW846 Chapter Seven	mg/L	1/16/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: S99-0034
DATE SAMPLED: 1/13/99
NEL SAMPLE ID: P9901024-03

TEST: **Inorganic Non-Metals**
MATRIX: Organic Liquid

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.04	2	SW846 Chapter Seven	mg/L	1/16/99
Ignitability	> 167	50	1	EPA 1010	Temp °F	1/15/99
pH	6.59	2.	1	EPA 9045C	pH Units	1/19/99
pH Temperature	22.2	1.	1	EPA 9045C	°C	1/19/99
Sulfide, Reactive	0.057	0.0417	1.39	SW846 Chapter Seven	mg/L	1/16/99

D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 990116SULF-BLK

TEST: **Non-Metals**

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	mg/L	ANALYZED
Sulfide, Reactive	ND	0.03	1	846 Chapter Seve	mg/L	1/16/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: S99-0032
DATE SAMPLED: 1/13/99
NEL SAMPLE ID: P9901024-01

TEST: **TCLP-8 Metals**
MATRIX: Organic Liquid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	4.5	0.5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Barium	10	5. mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Cadmium	ND	0.05 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Chromium	ND	0.05 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Lead	ND	0.25 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Mercury	ND	0.002 mg/L	10	EPA 7470A	1/15/99	1/18/99	1/18/99
Selenium	ND	0.5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Silver	ND	0.1 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: S99-0033
DATE SAMPLED: 1/13/99
NEL SAMPLE ID: P9901024-02

TEST: **TCLP-8 Metals**
MATRIX: Aqueous

PARAMETER	RESULT mg/L		REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	3.0		0.5 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Barium	ND		5. mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Cadmium	ND		0.05 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Chromium	ND		0.05 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Lead	ND		0.25 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Mercury	ND		0.002 mg/L	10	EPA 7470A	NA	1/18/99	1/18/99
Selenium	ND	Jm	0.5 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Silver	ND		0.1 mg/L	5	EPA 6010	NA	1/17/99	1/17/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: S99-0034
DATE SAMPLED: 1/13/99
NEL SAMPLE ID: P9901024-03

TEST: **TCLP-8 Metals**
MATRIX: Organic Liquid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	3.2	0.5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Barium	11	5. mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Cadmium	ND	0.05 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Chromium	0.096	0.05 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Lead	ND	0.25 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Mercury	0.0065	0.002 mg/L	10	EPA 7470A	1/15/99	1/18/99	1/18/99
Selenium	ND	0.5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Silver	ND	0.1 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: I.01090i-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Barium	ND	5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Cadmium	ND	0.05 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Chromium	ND	0.05 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Lead	ND	0.25 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Selenium	ND	0.5 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99
Silver	ND	0.1 mg/L	5	EPA 6010	1/15/99	1/17/99	1/17/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P01024-Hg-01a-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Mercury	ND	0.002 mg/L	10	EPA 7470A	1/15/99	1/18/99	1/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P01024-Hg-02-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Mercury	ND	0.002 mg/L	10	EPA 7470A	NA	1/18/99	1/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P01024-Hg-03-BLK

TEST: **TCLP Metals**
MATRIX: *TCLP Extract*

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Mercury	ND	0.002 mg/L	10	EPA 7470A	1/15/99	1/18/99	1/18/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: P01024i-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.5 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Barium	ND	5 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Cadmium	ND	0.05 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Chromium	ND	0.05 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Lead	ND	0.25 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Selenium	ND	0.5 mg/L	5	EPA 6010	NA	1/17/99	1/17/99
Silver	ND	0.1 mg/L	5	EPA 6010	NA	1/17/99	1/17/99

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S99-0032
PROJECT ID:	Caprock Plain Pigging	DATE SAMPLED:	1/13/99
PROJECT #:	NA	NEL SAMPLE ID:	P9901024-01

TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	1/17/99
MATRIX:	Organic Liquid	EXTRACTED	1/18/99
DILUTION:	1	ANALYZED:	1/18/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	0.42	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	104	74 - 121
Dibromofluoromethane	107	80 - 120
Toluene-d8	104	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S99-0033
PROJECT ID:	Caprock Plain Pigging	DATE SAMPLED:	1/13/99
PROJECT #:	NA	NEL SAMPLE ID:	P9901024-02
TEST:	TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	1/14/99
MATRIX:	Aqueous	EXTRACTED	1/14/99
DILUTION:	1	ANALYZED:	1/14/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	104	86 - 115
Dibromofluoromethane	105	86 - 118
Toluene-d8	102	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	S99-0034
PROJECT ID:	Caprock Plain Pigging	DATE SAMPLED:	1/13/99
PROJECT #:	NA	NEL SAMPLE ID:	P9901024-03
TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	1/17/99
MATRIX:	Organic Liquid	EXTRACTED	1/18/99
DILUTION:	1	ANALYZED:	1/18/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	0.19	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2. mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene (TCE)	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	74 - 121
Dibromofluoromethane	104	80 - 120
Toluene-d8	103	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Trip Blank**
PROJECT ID:	Caprock Plain Pigging	DATE SAMPLED:	1/13/99
PROJECT #:	NA	NEL SAMPLE ID:	P9901024-04
TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	1/14/99
MATRIX:	Aqueous	EXTRACTED	1/14/99
DILUTION:	1	ANALYZED:	1/14/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	86 - 115
Dibromofluoromethane	104	86 - 118
Toluene-d8	102	88 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Method Blank**
PROJECT ID:	Caprock Plain Pigging	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	9901141WTCLP-BLK

TEST: **TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**
METHOD: EPA 8260A — TCLP EXTRACT DATE: 1/14/99
MATRIX: TCLP Extract — EXTRACTED: 1/14/99
ANALYZED: 1/14/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	97	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	103	88 - 110

ND - Not Detected

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MIDLAND ID:915-686-3215 MAR 10'99 17:02 No.002 P.20

NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Method Blank**
PROJECT ID:	Caprock Plain Pigging	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	990118TCLP60P-BLK
TEST:	**TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260B, Dec. 1996**		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	1/17/99
MATRIX:	TCLP Extract	EXTRACTED	1/18/99
		ANALYZED:	1/18/99

PARAMETER	Result mg/L	Reporting Limit
Benzene	ND	0.1 mg/L
Carbon tetrachloride	ND	0.1 mg/L
Chlorobenzene	ND	0.1 mg/L
Chloroform	ND	0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND	0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	0.1 mg/L
Methyl Ethyl Ketone	ND	2 mg/L
Tetrachloroethene (PCE)	ND	0.1 mg/L
Trichloroethene (TCE)	ND	0.1 mg/L
Vinyl chloride	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	101	74 - 121
Dibromofluoromethane	103	80 - 120
Toluene-d8	103	81 - 117

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

MIDLAND ID:915-686-3215 MAR 10'99 17:02 No.002 P.21

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA
TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amoun	Spike Result	Percent Recovery	Acceptable Range	RPD
7.00 Buffer	990119PII-LCS	7	6.991	100	99 - 101	

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

MIDLAND ID:915-686-3215 MAR 10'99 17:03 No.002 P.22

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA
TEST: TCLP/STLC Metals
MATRIX: Solid

PARAMETER	NEL Sample ID	Spike Amoun	Spike Result	Percent Recovery	Acceptable Range	RPD
Arsenic	L01090i-LCS	0.5	0.475	95	85 - 115	
Arsenic	L9901090-05-MS	0.5	0.517	103	75 - 125	
Arsenic	L9901090-05-MSD	0.5	0.501	100	75 - 125	3.1
Silver	L01090i-LCS	0.5	0.479	96	85 - 115	
Silver	L9901090-05-MS	0.5	0.493	99	75 - 125	
Silver	L9901090-05-MSD	0.5	0.475	95	75 - 125	3.7
Barium	L01090i-LCS	1	0.931	93	85 - 115	
Barium	L9901090-05-MS	1	0.943	94	75 - 125	
Barium	L9901090-05-MSD	1	0.979	98	75 - 125	3.7
Cadmium	L01090i-LCS	0.2	0.197	99	85 - 115	
Cadmium	L9901090-05-MS	0.2	0.202	101	75 - 125	
Cadmium	L9901090-05-MSD	0.2	0.202	101	75 - 125	0.
Chromium	L01090i-LCS	0.5	0.493	99	85 - 115	
Chromium	L9901090-05-MS	0.5	0.479	96	75 - 125	
Chromium	L9901090-05-MSD	0.5	0.472	94	75 - 125	1.5
Lead	L01090i-LCS	1	1.02	102	85 - 115	
Lead	L9901090-05-MS	1	0.995	100	75 - 125	
Lead	L9901090-05-MSD	1	0.977	98	75 - 125	1.8
Selenium	L01090i-LCS	0.5	0.457	91	85 - 115	
Selenium	L9901090-05-MS	0.5	0.564	113	75 - 125	
Selenium	L9901090-05-MSD	0.5	0.543	109	75 - 125	3.8

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

MIDLAND ID:915-686-3215 MAR 10,99 17:03 No.002 P.23

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Aqueous

PARAMETER	NEL Sample ID	Spike Amoun	Spike Result	Percent Recovery	Acceptable Range	RPD
Mercury	P01024-Hg-02-LCS	0.005	0.00462	92	85 - 115	
Mercury	P9901024-02-MS	0.05	0.0426	85	75 - 125	
Mercury	P9901024-02-MSD	0.05	0.0424	85	75 - 125	0.5

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

MIDLAND ID:915-686-3215 MAR 10'99 17:03 No.002 P.24

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Caprock Plain Pigging
PROJECT #: NA
TEST: **TCLP/STLC Metals**
MATRIX: Organic Liquid

PARAMETER	NEL Sample ID	Spike Amoun	Spike Result	Percent Recovery		Acceptable Range	RPD
Arsenic	P01024i-LCS	0.5	0.519	104		85 - 115	
Arsenic	P9901024-02-MS	0.5	3.29	58	C	75 - 125	
Arsenic	P9901024-02-MSD	0.5	3.39	78		75 - 125	29.4
Silver	P01024i-LCS	0.5	0.492	98		85 - 115	
Silver	P9901024-02-MS	0.5	0.43	86		75 - 125	
Silver	P9901024-02-MSD	0.5	0.479	96		75 - 125	10.8
Barium	P01024i-LCS	1	0.976	98		85 - 115	
Barium	P9901024-02-MS	1	0.93	93		75 - 125	
Barium	P9901024-02-MSD	1	0.74	74		75 - 125	22.8
Cadmium	P01024i-LCS	0.2	0.199	100		85 - 115	
Cadmium	P9901024-02-MS	0.2	0.184	92		75 - 125	
Cadmium	P9901024-02-MSD	0.2	0.181	90		75 - 125	1.6
Chromium	P01024i-LCS	0.5	0.502	100		85 - 115	
Chromium	P9901024-02-MS	0.5	0.509	102		75 - 125	
Chromium	P9901024-02-MSD	0.5	0.508	102		75 - 125	0.2
Lead	P01024i-LCS	1	0.996	100		85 - 115	
Lead	P9901024-02-MS	1	1.01	101		75 - 125	
Lead	P9901024-02-MSD	1	1	100		75 - 125	1.
Selenium	P01024i-LCS	0.5	0.562	112		85 - 115	
Selenium	P9901024-02-MS	0.5	0.201	40	Jm	75 - 125	
Selenium	P9901024-02-MSD	0.5	0.165	33	Jm	75 - 125	19.7

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

MIDLAND ID:915-686-3215 MAR 10'99 17:04 NO.002 P.23

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
(702) 355-1044
FAX: (702) 355-0406
1-800-283-1183

e-mail: alpha@powernet.net
http//www.powernet.net/~alpha

Las Vegas, Nevada
(702) 498-3312
FAX: (702) 736-7523
Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

NEL-Phoenix
3021 S. 35th Street B-6
Phoenix, AZ 85034

Job#:
Phone: (602) 437-0099
Attn: Staci

Alpha Analytical Number: 99011509-01A
Client I.D. Number: S99-0032 P9901024-01

Sampled: 1/13/1999
Received: 1/15/1999
Analyzed: 1/19/1999

TCLP Regulated SVOC List
SW1311/8270A

	Compound	Concentration mg/L	Reporting Limit
1	2,4,5-Trichlorophenol	ND	0.10 mg/L
2	2,4,6-Trichlorophenol	ND	0.10 mg/L
3	2,4-Dinitrotoluene	ND	0.10 mg/L
4	Cresols, Total	ND	0.10 mg/L
5	Hexachlorobenzene	ND	0.10 mg/L
6	Hexachlorobutadiene	ND	0.10 mg/L
7	Hexachloroethane	ND	0.10 mg/L
8	Nitrobenzene	ND	0.10 mg/L
9	Pentachlorophenol	ND	0.10 mg/L
10	Pyridine	ND	0.10 mg/L

ND = Not Detected

Approved By: Roger Scholl Date: 1/20/99
Roger L. Scholl, Ph.D.
Laboratory Director

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21
Sparks, Nevada 89431-5778
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(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

NEL-Phoenix
3021 S. 35th Street B-6
Phoenix, AZ 85034

Job#:
Phone: (602) 437-0099
Attn: Staci

Alpha Analytical Number: 99011509-02A
Client I.D. Number: S99-0033 P9901024-02

Sampled: 1/13/1999
Received: 1/15/1999
Analyzed: 1/19/1999

TCLP Regulated SVOC List
SW1311/8270A

	Compound	Concentration mg/L	Reporting Limit
1	2,4,5-Trichlorophenol	ND	0.10 mg/L
2	2,4,6-Trichlorophenol	ND	0.10 mg/L
3	2,4-Dinitrotoluene	ND	0.10 mg/L
4	Cresols, Total	ND	0.10 mg/L
5	Hexachlorobenzene	ND	0.10 mg/L
6	Hexachlorobutadiene	ND	0.10 mg/L
7	Hexachloroethane	ND	0.10 mg/L
8	Nitrobenzene	ND	0.10 mg/L
9	Pentachlorophenol	ND	0.10 mg/L
10	Pyridine	ND	0.10 mg/L

ND = Not Detected

Approved By: Roger Schell Date: 1/20/99
Roger L. Scholl, Ph.D.
Laboratory Director

NORM ANALYSES
EUNICE P/L DISTRICT

SAMPLE NUMBER	SAMPLE DATE	SAMPLE DESCRIPTION	MATRIX	GROSS ALPHA (DPM)	RPU	GROSS BETA (DPM)	RPU	TOTAL	Pb-210 (pCi/g)	RPU	Ra-226 (pCi/g)	RPU (%)	Ra-228 (pCi/g)	RPU (%)
99-0032	01/13/99	CAPROCK-PLAINS PIGGING WASTE	SLUDGE						239.1	5.6				
99-0034	01/13/99	CAPROCK-PLAINS PIGGING WASTE	OIL						80.4	10.4				

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FAX: (702) 736-7523
Sacramento, California
(916) 366-9089
FAX: (916) 366-9138

ANALYTICAL REPORT

NEL-Phoenix
3021 S. 35th Street B-6
Phoenix, AZ 85034

Job#:
Phone: (602) 437-0099
Attn: Staci

Alpha Analytical Number: 99011509-03A
Client I.D. Number: S99-0034 P9901024-03

Sampled: 1/13/1999
Received: 1/15/1999
Analyzed: 1/19/1999

TCLP Regulated SVOC List
SW1311/8270A

	Compound	Concentration mg/L	Reporting Limit
1	2,4,5-Trichlorophenol	ND	0.20 mg/L
2	2,4,6-Trichlorophenol	ND	0.20 mg/L
3	2,4-Dinitrotoluene	ND	0.20 mg/L
4	Cresols, Total	ND	0.20 mg/L
5	Hexachlorobenzene	ND	0.20 mg/L
6	Hexachlorobutadiene	ND	0.20 mg/L
7	Hexachloroethane	ND	0.20 mg/L
8	Nitrobenzene	ND	0.20 mg/L
9	Pentachlorophenol	ND	0.20 mg/L
10	Pyridine	ND	0.20 mg/L

H = Reporting limit was increased due to the hydrocarbons present in the sample
ND = Not Detected

Approved By: Roger L. Scholl Date: 1/20/99
Roger L. Scholl, Ph.D.
Laboratory Director

MIDLAND ID:915-686-3215 MAR 10'99 17:06 No.002 P.30

Billing Information :

CHAIN-OF-CUSTODY RECORD

72 hour

Alpha Analytical, Inc.
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431
TEL: (702) 355-1044 FAX: (702) 355-0406

WorkOrder:
NEL99011509

Client:
NEL-Phoenix
3021 S. 35th Street B-6
Phoenix, AZ 85034

TEL : (602) 437-0099
FAX : (602) 437-2225
Job :
PO :

Sampled by : Client

Report Attention : Staci
QC Level :

Cooler Temp : °C

15-Jan-99

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles	TAT	PWS #	Requested Tests: TCLP_SEMI	Sample Remarks
NEL99011509-01	S99-0032 P9901024-01	OL	1/13/99	1	3		TCLP/8270	SAMPLE IS OIL
NEL99011509-02	S99-0033 P9901024-02	AQ	1/13/99	2	3		TCLP/8270	
NEL99011509-03	S99-0034 P9901024-03	OL	1/13/99	1	3		TCLP/8270	SAMPLE IS OIL

Comments: 72 HOUR TAT. PLEASE REPORT TO NEL-PHOENIX

	Signature	Print Name	Company	Date/Time
Relinquished by:				
Received by:	Heidi Askew	H. ESkew	Alpha	1/15/99 @ 1015
Relinquished by:				
Received by:				

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.
The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report

Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NEL LABORATORIES

Reno • Las Vegas
Phoenix • So. California

Reno Division • 1030 Matley Lane • Reno, NV 89502
(702) 348-2522 • FAX: (702) 348-2546 • 1-800-368-6221

CHAIN OF CUSTODY

Company: NCI - Phoenix Attn.: Staci
Address: 3221 S. 35th St Ste 6
Phoenix AZ 85034
Phone No.: (602) 437-0099 Fax No.: (602) 437-3795
Billing Address: Expected Due Date: 1/19/99

Project Name: Project No.:
P.O. No.: Sampled By:

Requested Turnaround: ____ 5 Day (Normal) ____ 48 Hr. ____ 24 Hr. X Other 10 BW

Sample Date/Time	Sample ID	N.E.L. Identification	# of Containers	Matrix (Box #1)	Preservative (Box #2)	Expected Concentration (Box #3)	Analysis: TCLP 8270	Analysis: pH (for lab use only)	Remarks
1/15/99 1100	SG99-0032	P9901024-01	1	OL	G	U	X		* Please report to NCI-Phoenix
1150	SG99-0033	P9901024-02	1	AQ	G	U	X		
	SG99-0034	P9901024-03	1	OL	G	U	X		

Custody Seal intact? Y N None Temp. ____
Condition when received good

Box #1: OW - Drinking Water; WW - Waste Water; RW - RCRA Water; OL - Oil; SG - Sludge; SO - Soil; SD - Solid; AQ - Aqueous; A - Air

Box #2: A. HCl; B. HNO3; C. H2SO4; D. NaOH; E. Ice Only; F. Other ____; G. Not Preserved

Box #3: H - High; M - Medium; L - Low; U - Unknown

	Relinquished by (Print)	(Signature)	Date/Time	Received by (Print)	(Signature)	Date/Time
1	GARY FRAZ		1-15-99, 10:15am	HEIDI ESKEW	Heidi Eskew	1-15-99, 1015A
2						
3						
4						

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

17:06 No.002 P.51 MAR 10'99 ID:915-686-3215 MIDLAND

EL PASO NATURAL GAS

F77U1064

CHAIN OF CUSTODY RECORD

1/19

Page 1 of 1

PROJECT NUMBER	PROJECT NAME

SAMPLERS: (Signature) DATE:

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: TCLP Metals	TCLP 8260	TCLP 8270	Corrosivity Reactivity	Ignitability	
(01)	1/13/99	1110	Sludge	599-0032	1	G	X	X	X	XX	X	
(02)	"	1130	Water	599-0033	8	G	X	X	X	XX		
(04)	"		Water	Trip Blank	2	G		X				
(03)	"		Oil	599-0034	1	G	X	X	X	XX	X	

CONTRACT LABORATORY: NEL

REMARKS:
- 599-0033 for 8270 only
The L Ambers was received with a broken lid.
CB 1/14/99

Custody Seal intact? Y N None
Condition when received: Good Temp 1°C

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY (Signature)
Donald Campbell	1/13/99 1900	NEL via FedEx 1/14/99 10:45			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☒ RUSH ASAP

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

LABORATORY SERVICES
EL PASO NATURAL GAS COMPANY
6645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX. 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-98-3566 (Rev. 4-95)

MIDLAND TX 915-686-3215

O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
511 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
FEB 24 1999
Environmental Bureau
Oil Conservation Division

Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator TRANSWESTERN PIPE LINE
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site EUNICE PLANT
2. Management Facility Destination GMI, 34 MILES WEST OF TATUM	6. Transporter GANDY
3. Address of Facility Operator BOX 1658, ROSWELL	8. State NM
7. Location of Material (Street Address or ULSTR) EUNICE PLANT	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

30 YARDS OF NON EXEMPT FROM DRAIN LINE leaks

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: VICE-PRESIDENT DATE: 02-22-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 2-24-99


FEB 1999
RECEIVED

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: ENRON TRANSPORATION & STORAGE

Source: EUNICE PLANT

Disposal Location: GMI landfarm 3½mi east of Tatum

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for ENRON TRANSPORTATION & STORAGE concur with the status of the waste from the subject site.

Name KAY Woods

Title/Agency SR. O&M TECH

Address P.O. Box 759
KERMIT, TX 79745

Signature KayWoods

Date 2/19/99

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

District: Albuq Date: 1-25-99

Sample Location Valve or Receiver No.	Vol. Collect. During Flush	Sampler
Eunice Plant		Greg Moya

SAMPLE ID NUMBER	SOLVENT USED	SAMPLE ICED	ANALYSES REQUESTED
1 A E B	N/A	N/A	Volatiles & Semi Volatiles
2 A B E C	N/A	N/A	TPH E ~~BEX~~ BTX
3 A B E C	N/A	N/A	TPH E BTX
4 A B E C	N/A	N/A	Volatiles & Semi Volatiles

Relinquished By Greg Moya Date 1-25-99
Relinquished To Federal Express Date 1/25/99

Relinquished By [illegible] Date 1-25-99
Relinquished To [illegible] Date 1-9-99

Relinquished By _____ Date _____
Relinquished To _____ Date _____

Relinquished By _____ Date _____
Relinquished By _____ Date _____

Laboratory: _____
Received: _____ Date _____

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

MS. KAY WOODS
TRANSWESTERN PIPELINE CO.
P.O. BOX 759
KERMIT, TEXAS 79745

FEBRUARY 09, 1999

DEAR MS. WOODS:

THE FOLLOWING ARE THE RESULTS OF THE EUNICE PLANT COMPOSITE SAMPLE #2 FOR TCLP METALS, RECEIVED 01/25/99, LAB NO. 186:

TEST REQUESTED	METHOD	TCLP METALS mg/L	REGULATORY LIMIT mg/L	Q.C.REF. mg/L	SPIKE RECOVERY
ARSENIC	7060	< **0.10**	5.00	0.10	102%
BARIUM	7081	**0.60**	100.00	0.10	85%
CADMIUM	7131	< **0.10**	1.00	0.10	116%
CHROMIUM	7191	< **0.10**	5.00	0.10	96%
LEAD	7421	< **0.10**	5.00	0.10	92%
SELENIUM	7740	< **0.10**	1.00	0.10	84%
SILVER	7761	< **0.10**	5.00	0.10	95%
MERCURY	7470	< **0.01**	0.20	0.01	100%

NOTE: < = LESS THAN

SAMPLE MATRIX: SOLIDS

METHODS: METALS EPA 1311, 7000, 7470

SAMPLES CONTAINING HAZARDOUS AND TOXIC SUBSTANCES WILL BE RETURNED TO THE POINT OF ORIGIN FOR DISPOSAL. IF THIS IS NOT POSSIBLE AND MOBILE LABS HAS TO DISPOSE OF THE SAMPLE IN ACCORDANCE WITH EPA REGULATIONS, THEN ADDITIONAL CHARGES WILL BE BILLED TO COVER THE COST OF DISPOSAL OF THIS SAMPLE.

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

Stephen Reid

STEPHEN REID
SR/dt

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

MS. KAY WOODS
TRANSWESTERN PIPELINE CO.
P.O. BOX 759
KERMIT, TEXAS 79745

FEBRUARY 09, 1999

DEAR MS. WOODS:

THE FOLLOWING ARE THE RESULTS OF THE EUNICE PLANT COMPOSITE SAMPLE #3 FOR TCLP METALS, RECEIVED 01/25/99, LAB NO. 187:

TEST REQUESTED	METHOD	TCLP METALS mg/L	REGULATORY LIMIT mg/L	Q.C.REF. mg/L	SPIKE RECOVERY
ARSENIC	7060	< **0.10**	5.00	0.10	109%
BARIUM	7081	**0.23**	100.00	0.10	87%
CADMIUM	7131	< **0.10**	1.00	0.10	119%
CHROMIUM	7191	< **0.10**	5.00	0.10	92%
LEAD	7421	< **0.10**	5.00	0.10	91%
SELENIUM	7740	< **0.10**	1.00	0.10	86%
SILVER	7761	< **0.10**	5.00	0.10	94%
MERCURY	7470	< **0.01**	0.20	0.01	97%

NOTE: < = LESS THAN

SAMPLE MATRIX: SOLIDS

METHODS: METALS EPA 1311, 7000, 7470

SAMPLES CONTAINING HAZARDOUS AND TOXIC SUBSTANCES WILL BE RETURNED TO THE POINT OF ORIGIN FOR DISPOSAL. IF THIS IS NOT POSSIBLE AND MOBILE LABS HAS TO DISPOSE OF THE SAMPLE IN ACCORDANCE WITH EPA REGULATIONS, THEN ADDITIONAL CHARGES WILL BE BILLED TO COVER THE COST OF DISPOSAL OF THIS SAMPLE.

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

Stephen Reid

STEPHEN REID
SR/dt

Mobile Analytical Laboratories

LABORATORIES IN ODESSA, GIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE (915) 337-4744
FAX (915) 337-8781

MS. KAY WOODS
TRANSWESTERN PIPELINE COMPANY
P.O. BOX 759
KERMIT, TEXAS 79745

JANUARY 28, 1999

DEAR MS. WOODS:

THE FOLLOWING ARE THE RESULTS OF THE SOIL SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS, RECEIVED 01/25/99, LAB NOS. 186-187:

	TOTAL PETROLEUM HYDROCARBONS	
	mg/Kg	wt %
LAB NO. 186 SAMPLE 2 A,B&C	4,600	0.46
LAB NO. 187 SAMPLE 3 A,B&C	31,200	3.120

TEST METHOD: TPH 418.1

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

Stephen Reid

STEPHEN REID
SR/md

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FAX (915) 337-8781

January 29, 1999

Ms. Kay Woods
Transwestern Pipeline Co.
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 186-187
Received 01/25/99

	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylenes mg/kg
Lab No. 186 Sample 2 A, B, & C	ND	ND	ND	ND
Lab No. 187 Sample 3 A, B, & C	ND	ND	ND	0.116

Test Method: SW 846-8020,5030

Note: ND = Less Than 0.001
Analyses are from another laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please feel free to contact me at any time.

Sincerely,

Stephen Reid

Stephen Reid
SR/jl

Mobile Analytical Laboratories

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FAX (915) 337-8781

February 15, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 186
Eunice Plant Composite
Sample 2 A, B, C
Sampled 01/25/99, Received 01/25/99

Compound	Method	Concentration	Units
Reactive Cyanide	SW 7.3.4.1	< 0.1	mg/kg
Reactive Sulfide	SW 7.3.4.1	< 0.1	mg/kg
Corrosivity	SW 9045	6.81	pH
Ignitability	SW 1010	> 230	Deg F

NOTE: Results are from another Laboratory.

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid

Stephen Reid
SR/jl

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February 15, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 187
Eunice Plant Composite
Sample 3 A, B, C
Sampled 01/25/99, Received 01/25/99

Compound	Method	Concentration	Units
Reactive Cyanide	SW 7.3.4.1	< 0.1	mg/kg
Reactive Sulfide	SW 7.3.4.1	< 0.1	mg/kg
Corrosivity	SW 9045	7.64	pH
Ignitability	SW 1010	> 230	Deg F

NOTE: Results are from another Laboratory.

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Sincerely,

Stephen Reid
SR/jl

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February 15, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 186
Eunice Plant Composite Sample
Sample 2 A, B, & C
Sampled 01/25/99, Received 01/25/99

Volatile Results Lab No. 186	**Concentration mg/kg**	**Detection Limit mg/kg**
Trichlorofluoromethane	ND	0.025
Chloromethane	ND	0.025
Bromomethane	ND	0.025
Vinyl Chloride	ND	0.025
trans-1,2-Dichloroethene	ND	0.025
Chloroethane	ND	0.025
Methylene chloride	ND	0.025
1,1-Dichloroethene	ND	0.025
1,1-Dichloroethane	ND	0.025
Chloroform	ND	0.025
Bromodichloromethane	ND	0.025
Bromochloromethane	ND	0.025
1,1,1-Trichloroethane	ND	0.025
Carbon Tetrachloride	ND	0.025
1,2-Dichloroethane	ND	0.025
Benzene	ND	0.025
Trichloroethene	ND	0.025
1,2-Dichloropropane	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
trans-1,3-Dichloropropene	ND	0.025
1,2,3-Trichloropropane	ND	0.025
Toluene	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Tetrachloroethene	ND	0.025
Chlorodibromomethane	ND	0.025
1,2-Dibromoethane	ND	0.025
Chlorobenzene	ND	0.025
1,1,1,2-Tetrachloroethane	ND	0.025
Ethylbenzene	ND	0.025
m+p-Xylene	ND	0.025
o-Xylene	ND	0.025
Styrene	ND	0.025
Bromoform	ND	0.025
1,3-Dichlorobenzene	ND	0.025
1,4-Dichlorobenzene	ND	0.025
1,2-Dichlorobenzene	ND	0.025

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Surrogate Standard Recovery **Lab No. 186**		**Limits**
1,2-Dichloroethane-d4	97 %	76-114 %
Toluene-d8	91 %	88-110 %
4-Bromofluorobenzene	94 %	86-115 %

NOTE: ND = None Detected
Test Method - EPA 8260
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

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February 15, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 187
Eunice Plant Composite Sample
Sample 3 A, B, & C
Sampled 01/25/99, Received 01/25/99

Volatile Results **Lab No. 187**	**Concentration** **mg/kg**	**Detection Limit** **mg/kg**
Trichlorofluoromethane	ND	0.025
Chloromethane	ND	0.025
Bromomethane	ND	0.025
Vinyl Chloride	ND	0.025
trans-1,2-Dichloroethene	ND	0.025
Chloroethane	ND	0.025
Methylene chloride	ND	0.025
1,1-Dichloroethene	ND	0.025
1,1-Dichloroethane	ND	0.025
Chloroform	ND	0.025
Bromodichloromethane	ND	0.025
Bromochloromethane	ND	0.025
1,1,1-Trichloroethane	ND	0.025
Carbon Tetrachloride	ND	0.025
1,2-Dichloroethane	ND	0.025
Benzene	ND	0.025
Trichloroethene	ND	0.025
1,2-Dichloropropane	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
trans-1,3-Dichloropropene	ND	0.025
1,2,3-Trichloropropane	ND	0.025
Toluene	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Tetrachloroethene	ND	0.025
Chlorodibromomethane	ND	0.025
1,2-Dibromoethane	ND	0.025
Chlorobenzene	ND	0.025
1,1,1,2-Tetrachloroethane	ND	0.025
Ethylbenzene	ND	0.025
m+p-Xylene	ND	0.025
o-Xylene	ND	0.025
Styrene	ND	0.025
Bromoform	ND	0.025
1,3-Dichlorobenzene	ND	0.025
1,4-Dichlorobenzene	ND	0.025
1,2-Dichlorobenzene	ND	0.025

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Surrogate Standard Recovery **Lab No. 187**		**Limits**
1,2-Dichloroethane-d4	97 %	76-114 %
Toluene-d8	91 %	88-110 %
4-Bromofluorobenzene	98 %	86-115 %

NOTE: ND = None Detected
Test Method - EPA 8260
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid
SR/jl

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February 15, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 186
Eunice Plant Composite Sample
Sample 2 A, B, & C
Sampled 01/25/99, Received 01/25/99

Semi-Volatiles Results Lab No. 186	**Concentration mg/kg**	**Detection Limit mg/kg**
2-Picoline	ND	7.5
N-Nitrosodimethylamine	ND	7.5
1,2-Dichlorobenzene	ND	7.5
Pronamide	ND	7.5
Pyridine	ND	7.5
Methylmethanesulfonate	ND	7.5
Ethylmethanesulfonate	ND	7.5
Phenol	ND	7.5
Aniline	ND	7.5
bis(2-Chloroethyl)ether	ND	7.5
2-Chlorophenol	ND	7.5
1,3-Dichlorobenzene	ND	7.5
1,4-Dichlorobenzene	ND	7.5
Benzyl Alcohol	ND	7.5
o-Cresol	ND	7.5
bis(2-Chloroisopropyl)ether	ND	7.5
Benzoic Acid	ND	7.5
m+p-Cresol	ND	7.5
Acetophenone	ND	7.5
n-Nitrosodi-n-propylamine	ND	7.5
Hexachloroethane	ND	7.5
Nitrobenzene	ND	7.5
N-Nitrosopiperidine	ND	7.5
Isophorone	ND	7.5
2-Nitrophenol	ND	7.5
2,4-Dimethylphenol	ND	7.5
1,2,4-Trichlorobenzene	ND	7.5
bis(2-Chloroethoxy)methane	ND	7.5
2,4-Dichlorophenol	ND	7.5
Naphthalene	ND	7.5
4-Chloroaniline	ND	7.5
2,6-Dichlorophenol	ND	7.5
Hexachlorobutadiene	ND	7.5
N-Nitrosodi-n-butylamine	ND	7.5
4-Chloro-3-methylphenol	ND	7.5

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Semi-Volatiles Results Lab No. 186	Concentration mg/kg	Detection Limit mg/kg
2-Methylnaphthalene	ND	7.5
1,2,4,5-Tetrachlorobenzene	ND	7.5
Hexachlorocyclopentadiene	ND	7.5
2,4,6-Trichlorophenol	ND	7.5
2,4,5-Trichlorophenol	ND	7.5
2-Chloronaphthalene	ND	7.5
1-Chloronaphthalene	ND	7.5
2-Nitroaniline	ND	7.5
Dimethylphthalate	ND	7.5
2,6-Dinitrotoluene	ND	7.5
Acenaphthylene	ND	7.5
3-Nitroaniline	ND	7.5
Acenaphthene	ND	7.5
Diethylphthalate	ND	7.5
2,4-Dinitrophenol	ND	7.5
4-Nitrophenol	ND	7.5
Dibenzofuran	ND	7.5
2,4-Dinitrotoluene	ND	7.5
Pentachlorobenzene	ND	7.5
1-Naphthylamine	ND	7.5
2-Naphthylamine	ND	7.5
2,3,4,6-Tetrachlorobenzene	ND	7.5
Di-n-Butylphthalate	ND	7.5
4-Chlorophenyl-phenyl ether	ND	7.5
Fluorene	ND	7.5
4-Nitroaniline	ND	7.5
4,6-Dinitro-2-methylphenol	ND	7.5
Diphenylamine	ND	7.5
Azobenzene	ND	7.5
Phenacetin	ND	7.5
4-Bromophenyl phenylether	ND	7.5
Hexachlorobenzene	ND	7.5
4-Aminobiphenyl	ND	7.5
Pentachlorophenol	ND	7.5
Pentachloronitrobenzene	ND	7.5
Benzidine	ND	7.5
Phenanthrene	ND	7.5
Anthracene	ND	7.5
Fluoranthene	ND	7.5
1,2-Diphenylhydrazine	ND	7.5
Pyrene	ND	7.5
Dimethylaminoazobenzene	ND	7.5
Di-n-octylphthalate	ND	7.5
Butylbenzylphthalate	ND	7.5
3,3'-Dichlorobenzidine	ND	7.5

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FAX (915) 337-8781

Semi-Volatiles Results Lab No. 186	Concentration mg/kg	Detection Limit mg/kg
Chrysene	ND	7.5
Benz(a)anthracene	ND	7.5
bis(2-Ethylhexyl)phthalate	ND	7.5
7,12-Dimethylbenz(a)anthracene	ND	7.5
Benzo(b)fluoranthene	ND	7.5
Benzo(a)pyrene	ND	7.5
Benzo(k)fluoranthene	ND	7.5
Benzo(g,h,I)perylene	ND	7.5
Indeno(1,2,3-cd)pyrene	ND	7.5
Dibenz(a,j)acridine	ND	7.5
Dibenz(a,h)anthracene	ND	7.5

Surrogate Compound	Recovery (%)	QA/QC Recovery Limits (%)
Nitrobenzene-d5	89.4	35-114
2-Fluorbiphenyl	107.5	43-116
2,4,6 Tribromophenol	116.7	10-123
Terphenyl-d14	126.0	33-141

NOTE: ND = None Detected
Test Method - EPA 8270
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid

Stephen Reid
SR/jl

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February 15, 1999

Ms. Kay Woods
Transwestern Pipeline Company
P.O. Box 759
Kermit, Texas 79745

Sample ID: Lab No. 187
Eunice Plant Composite Sample
Sample 3 A, B, & C
Sampled 01/25/99, Received 01/25/99

Semi-Volatiles Results Lab No. 187	**Concentration mg/kg**	**Detection Limit mg/kg**
2-Picoline	ND	7.5
N-Nitrosodimethylamine	ND	7.5
1,2-Dichlorobenzene	ND	7.5
Pronamide	ND	7.5
Pyridine	ND	7.5
Methylmethanesulfonate	ND	7.5
Ethylmethanesulfonate	ND	7.5
Phenol	ND	7.5
Aniline	ND	7.5
bis(2-Chloroethyl)ether	ND	7.5
2-Chlorophenol	ND	7.5
1,3-Dichlorobenzene	ND	7.5
1,4-Dichlorobenzene	ND	7.5
Benzyl Alcohol	ND	7.5
o-Cresol	ND	7.5
bis(2-Chloroisopropyl)ether	ND	7.5
Benzoic Acid	ND	7.5
m+p-Cresol	ND	7.5
Acetophenone	ND	7.5
n-Nitrosodi-n-propylamine	ND	7.5
Hexachloroethane	ND	7.5
Nitrobenzene	ND	7.5
N-Nitrosopiperidine	ND	7.5
Isophorone	ND	7.5
2-Nitrophenol	ND	7.5
2,4-Dimethylphenol	ND	7.5
1,2,4-Trichlorobenzene	ND	7.5
bis(2-Chloroethoxy)methane	ND	7.5
2,4-Dichlorophenol	ND	7.5
Naphthalene	ND	7.5
4-Chloroaniline	ND	7.5
2,6-Dichlorophenol	ND	7.5
Hexachlorobutadiene	ND	7.5
N-Nitrosodi-n-butylamine	ND	7.5
4-Chloro-3-methylphenol	ND	7.5

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Semi-Volatiles Results Lab No. 187	Concentration mg/kg	Detection Limit mg/kg
2-Methylnaphthalene	ND	7.5
1,2,4,5-Tetrachlorobenzene	ND	7.5
Hexachlorocyclopentadiene	ND	7.5
2,4,6-Trichlorophenol	ND	7.5
2,4,5-Trichlorophenol	ND	7.5
2-Chloronaphthalene	ND	7.5
1-Chloronaphthalene	ND	7.5
2-Nitroaniline	ND	7.5
Dimethylphthalate	ND	7.5
2,6-Dinitrotoluene	ND	7.5
Acenaphthylene	ND	7.5
3-Nitroaniline	ND	7.5
Acenaphthene	ND	7.5
Diethylphthalate	ND	7.5
2,4-Dinitrophenol	ND	7.5
4-Nitrophenol	ND	7.5
Dibenzofuran	ND	7.5
2,4-Dinitrotoluene	ND	7.5
Pentachlorobenzene	ND	7.5
1-Naphthylamine	ND	7.5
2-Naphthylamine	ND	7.5
2,3,4,6-Tetrachlorobenzene	ND	7.5
Di-n-Butylphthalate	ND	7.5
4-Chlorophenyl-phenyl ether	ND	7.5
Fluorene	ND	7.5
4-Nitroaniline	ND	7.5
4,6-Dinitro-2-methylphenol	ND	7.5
Diphenylamine	ND	7.5
Azobenzene	ND	7.5
Phenacetin	ND	7.5
4-Bromophenyl phenylether	ND	7.5
Hexachlorobenzene	ND	7.5
4-Aminobiphenyl	ND	7.5
Pentachlorophenol	ND	7.5
Pentachloronitrobenzene	ND	7.5
Benzidine	ND	7.5
Phenanthrene	ND	7.5
Anthracene	ND	7.5
Fluoranthene	ND	7.5
1,2-Diphenylhydrazine	ND	7.5
Pyrene	ND	7.5
Dimethylaminoazobenzene	ND	7.5
Di-n-octylphthalate	ND	7.5
Butylbenzylphthalate	ND	7.5
3,3'-Dichlorobenzidine	ND	7.5

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Semi-Volatiles Results Lab No. 187	Concentration mg/kg	Detection Limit mg/kg
Chrysene	ND	7.5
Benz(a)anthracene	ND	7.5
bis(2-Ethylhexyl)phthalate	ND	7.5
7,12-Dimethylbenz(a)anthracene	ND	7.5
Benzo(b)fluoranthene	ND	7.5
Benzo(a)pyrene	ND	7.5
Benzo(k)fluoranthene	ND	7.5
Benzo(g,h,I)perylene	ND	7.5
Indeno(1,2,3-cd)pyrene	ND	7.5
Dibenz(a,j)acridine	ND	7.5
Dibenz(a,h)anthracene	ND	7.5

Surrogate Compound	Recovery (%)	QA/QC Recovery Limits (%)
Nitrobenzene-d5	83.8	35-114
2-Fluorbiphenyl	106.6	43-116
2,4,6 Tribromophenol	119.0	10-123
Terphenyl-d14	113.7	33-141

NOTE: ND = None Detected
Test Method - EPA 8270
Results are from another Laboratory

We appreciate the opportunity to work with you on these tests. If you have any questions or require any further information, please fell free to contact me at any time.

Sincerely,

Stephen Reid

Stephen Reid
SR/jl

EXTERNAL NORM MONITORING
DATA SHEET

Facility/Location: **Transwestern Pipeline Company Eunice Station / Eunice NM**

Type of instrument used (Model, probe type, serial number): **Ludlum 3, Scintillation Probe, SN 135674**

Calibration due date: **3/26/98** Background reading: **8 μR/hr**

Battery response checks performed satisfactory: **Yes**

Date	Description of equipment monitored	Reading at 1/2 inch from surface (μR/hr)	Reading at 1 foot from surface (μR/hr)	Reading at 3 feet from surface * (μR/hr)	Initials
2/8/99	**Sample #1: Fiber glass tank and contents (north containment)**	**Background**	**N/A**	**N/A**	**Roger Osborn**
2/8/99	**Sample #2: Grout & soil removed from engine room (north side of yard)**	**Background**	**N/A**	**N/A**	**Roger Osborn**
2/8/99	**Sample # 3: Oil stained soil (south of engine room)**	**Background**	**N/A**	**N/A**	**Roger Osborn**
2/8/99	**Sample #4: Sludge in barrels (south containment)**	**Background**	**N/A**	**N/A**	**Roger Osborn**

* If reading at 3 feet is greater than 600 μR/hr, continue taking readings in increments of 3 feet until the readings are less than 600 μR/hr. On separate sheet or plot plan of the facility indicate the radius around the equipment at which the readings are in excess of 600 μR/hr.

O. Box 1980
obbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
District III - (505) 334-6178
00 Rio Brazos Road
ec, NM 87410
strict IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

RECEIVED
DEC 01 1998
Environmental Bureau
Oil Conservation Division

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator KN Energy
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Lubbock tbs
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp
3. Address of Facility Operator P.O.Box 1658 Roswell	8. State NM ✓
7. Location of Material (Street Address or ULSTR) Lubbock East TBS	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

8 barrels of water from cleaning meter runs

Conditions of Approval
Water Must Be Run through
the Solidification Unit Prior to
Disposal Martyna Kiely

Estimated Volume ~~8 bbls~~ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy (Waste Management Facility Authorized Agent) TITLE: vice pres DATE: 11-20-98

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyna J. Kiely TITLE: Environmental Geologist DATE: 12-3-98

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: KN Energy
Lubbock East TBS

Source: Wash Water from meter run

Disposal Location: GMI-38 miles east of Roswell,NM

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for KN Energy concur with the status of the waste from the subject site.

Name Jack Barber

Title/Agency KN Energy

Address P. O. Box 5810
Lubbock, Texas 79408

Signature Jack Barber

Date 11-5-98

TRACEANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

November 2, 1998
Receiving Date: 10/07/98
Sample Type: Water
Project #: 01-10-98
Project Location: Lubbock East TBS

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88202

Analysis Date: 10/12/13/98
Sampling Date: 10/07/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: KN Energy

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY TO STEEL (mm/yr)	pH (s.u.)	FLASHPOINT (F)
	EPA LIMIT =	---	500	250	>6.5 mm/yr	<2 >12.5	>140 F
T109425	Meter Run Liquids	Non-reactive	<10	<2.5	(0.76) non	8.6	>150 F non
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

11-2-98
DATE

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88202

November 2, 1998
Receiving Date: 10/07/98
Sample Type: Meter Run Liquids.
Project #: 01-10-98
Project Location: Lubbock East TBS

Extraction Date: 10/08/98
Analysis Date: 10/13/98
Sampling Date: 10/07/98
Sample Condition: I & C
Sample Received by: VW
Project Name: KN Energy.

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T110425 Meter Run Liquids	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	100	1	90	100
1,1-Dichloroethene	0.70	0.05	ND	110	2	109	110
Methyl Ethyl Ketone	200.0	0.5	ND	90	4	80	90
Chloroform	6.00	0.05	ND	90	4	101	90
1,2-Dichloroethane	0.50	0.05	ND	100	2	102	100
Benzene	0.50	2.0	ND	90	2	96	90
Carbon Tetrachloride	0.50	0.05	ND	100	1	128	100
Trichloroethene	0.50	0.05	ND	90	1	100	90
Tetrachloroethene	0.70	0.05	ND	100	7	120	100
Chlorobenzene	100.00	0.05	ND	90	1	102	90
1,4-Dichlorobenzene	7.50	0.05	ND	90	1	98	90

SURROGATES	% Recovery
Dibromofluoromethane	94
Toluene-d8	85
4-Bromofluorobenzene	87

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: AG

Director, Dr. Blair Leftwich

11-2-98
DATE

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

November 2, 1998
Receiving Date: 10/07/98
Sample Type: Water
Project #: 01-10-98
Project Location: Lubbock East TBS

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88202

Sampling Date: 10/07/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: KN Energy

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T109425	Meter Run Liquids	<0.10	0.14	0.06	0.12	<0.10	<0.05	<0.10	<0.010
ICV		1.0	0.99	1.0	1.0	1.0	1.0	1.0	5.5
CCV		0.91	0.97	0.96	0.99	0.96	0.95	0.99	4.2
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
EXTRACTION DATE		10/11/98	10/11/98	10/11/98	10/11/98	10/11/98	10/11/98	10/11/98	10/10/98
ANALYSIS DATE		10/13/98	10/13/98	10/13/98	10/13/98	10/13/98	10/13/98	10/13/98	10/14/98
RPD		10	6	0	5	6	0	0	4
% Extraction Accuracy		85	85	85	95	85	100	95	110
% Instrument Accuracy		95	98	98	99	98	97	99	98

***Used LCS for EA/RPD due to nature of sample.**

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: MS
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ag, Ba; 5.0 mg/L Hg.

Director, Dr. Blair Leftwich

11-2-98
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY INC.
Attention: Larry Gandy
P. O. Box 1658
Roswell, N.M. 88202

November 2, 1998
Receiving Date: 10/07/98
Sample Type: Water
Project #: 01-10-98
Project Location: Lubbock East TBS

Extraction Date: 10/12/98
Analysis Date: 10/19/98
Sampling Date: 10/07/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: KN Energy

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T109425 Meter Run Liquids	QC	RPD	%EA	%IA
Pyridine	5.0	25	ND	81	186**	2	101
1,4-Dichlorobenzene	7.5	25	ND	71	10	51	89
o-Cresol	200.0	25	ND	79	13	36	99
m,p-Cresol	200.0	25	ND	84	3	65	105
Hexachloroethane	3.0	25	ND	76	13	52	95
Nitrobenzene	2.0	25	ND	79	8	56	99
Hexachlorobutadiene	0.5	25	ND	67	10	45	84
2,4,6-Trichlorophenol	2.0	25	ND	68	11	45	85
2,4,5-Trichlorophenol	400.0	25	ND	67	11	40	84
2,4-Dinitrotoluene	0.13	25	ND	77	15	56	96
2,4-D	10.0	25	ND	72	16	55	90
Hexachlorobenzene	0.13	25	ND	65	14	45	81
2,4,5-TP	1.0	25	ND	0	13	54	0*
Pentachlorophenol	100.0	25	ND	66	12	18	83

Surrogates	**% RECOVERY**
2-Fluorophenol	0***
Phenol-d6	0***
Nitrobenzene-d5	0***
2-Fluorobiphenyl	82
2,4,6-Tribromophenol	0***
Terphenyl-d14	61

***CV out of control limits (64-96) No 2,4, S-TP was present in CV.**
****RPD out of control limits (20%)**
*****Surrogates out of control limits due to dilution and matrix effects.**

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG

Director, Dr. Blair Leftwich

11/2/98
DATE

109405

~~Star Enterprise~~

Page ____ of ____

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 159

Consulting Company Name:

Phone #: 505-398-4960

Address: Gandy Marley, Inc. Box 1658 Roswell 88202

Fax #: 505 398 ~~3533~~

Consulting Contact: Larry Gandy

Star Contract: 6887

Location Code: KN Energy

Casuality Loss #:

Star Job #

Consultant Job # 01-10.98

Location Address: Lubbock East TBS

Sampler Signature: Larry Gandy

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
109405	meter run liquids	1	1lt	X							X	10-7-98	2:30

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC-MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH					Turn Around Time if different from standard	Hold
					X	X	X	X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Larry Gandy	10-7-98	2:30 pm			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[illegible]	10-7-98	2:45pm			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Nell Green	10-7-98	3:25pm

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp AMB °
Log-In Review AVD

REMARKS:

11/3

Carrier # Carry in

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

Gandy File

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

☒ Telephone ☐ Personal	Time 10:45	Date 11-3-98

Originating Party	Other Parties
Lennah Frost EOTT 915-634-5187	Martyne K.

Subject: Truck trailer Roll over
12 yds Contaminated Soil Crude oil 14 BBL oil

Discussion: Soil to go to Gandy Marley Land Farm
Verbal Approval Given

Conclusions or Agreements

Distribution

Signed Martyne Kf

...505), NM 88241-1980
District II - (505) 748-1283
... S. First
...esia, NM 88210
District III - (505) 334-6178
...0 Rio Brazos Road
...c, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ By W Price Verbal Approval Received: Yes ☒ No ☒	4. Generator Bureau of Land Man
	5. Originating Site Loco Hills NM
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp.
3. Address of Facility Operator Box 1658 Roswell	8. State NM
7. Location of Material (Street Address or ULSTR) Hiway 82 Loco Hills	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Contaminated dirt from old oilfield operations dumping in old pit

DENIED AT THIS TIME! 9/11/98 LWS

RECEIVED SEP 1998 Hobbs OCD

Estimated Volume 2500 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: V-P DATE: 9-2-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: PET ENGR SPEC DATE: 10/7/98

APPROVED BY: _____ TITLE: _____ DATE: _____



FAX TRANSMITTAL FORM

DATE: 9-29-98

CONTACT NAME: Wayne Price

FAX NUMBER: 1-505-393-0720

FAX SENT BY: FWL

IN REFERENCE TO:

NUMBER OF PAGES INCLUDING THIS SHEET: 2

PLEASE CALL (719) 598-1222 IF THIS TRANSMISSION IS NOT RECEIVED IN ITS ENTIRETY.

1040-A Elkton Drive, Colorado Springs, CO 80907 - 719 598-1222 - 719 598-1474 Fax
1630 Welton Street, Suite 300, Denver, CO 80202 - 303 446-9212 - 303 892-5628 Fax



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Aspen Analytical
1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

CES	Client Project ID: 980237, BLM - Lone Hill	Sampled: Sep 15, 1998
1040-A Elkton Drive	Sample Descript: TCLP Extract of Soil, 980237-10	Received: Sep 17, 1998
Colorado Springs, CO 80907		Extracted: Sep 24, 1998
Attention: Frank LaForce	Lab Number: 809-0237	Analyzed: see below
		Reported: Sep 29, 1998

TCLP ORGANICS

Analyte	EPA HW No.	Detection Limit mg/L (ppm)	Date Analyzed	Regulatory Level mg/L (ppm)	Sample Results mg/L (ppm)
VOLATILES D.L. Factor: 1			9/25/98		
Benzene	D018	0.40		0.5	N.D.
Carbon tetrachloride	D019	0.40		0.5	N.D.
Chlorobenzene	D021	0.40		100	N.D.
Chloroform	D022	0.40		6	N.D.
1,2-Dichloroethane	D028	0.40		0.5	N.D.
1,1-Dichloroethylene	D029	0.40		0.7	N.D.
Methyl ethyl ketone	D035	100		200	N.D.
Tetrachloroethylene	D039	0.40		0.7	N.D.
Trichloroethylene	D040	0.40		0.5	N.D.
Vinyl chloride	D043	0.16		0.2	N.D.
SEMI-VOLATILE D.L. Factor: 1			9/25/98		
o-Cresol	D023	20		200	N.D.
m-, p-Cresol	D024, D025	20		200	N.D.
1,4-Dichlorobenzene	D027	0.75		7.5	N.D.
2,4-Dinitrotoluene	D030	0.013		0.13	N.D.
Hexachlorobenzene	D032	0.013		0.13	N.D.
Hexachloro-1,3-butadiene	D033	0.050		0.5	N.D.
Hexachloroethane	D034	0.30		3	N.D.
Nitrobenzene	D036	0.20		2	N.D.
Pentachlorophenol	D037	10		100	N.D.
Pyridine	D038	0.50		5	N.D.
2,4,5-Trichlorophenol	D041	40		400	N.D.
2,4,6-Trichlorophenol	D042	0.20		2	N.D.
PESTICIDES D.L. Factor: 1			9/28/98		
Chlordane	D020	0.0030		0.03	N.D.
Endrin	D012	0.0020		0.02	N.D.
Heptachlor (and its epoxide)	D031	0.00008		0.008	N.D.
Lindane	D013	0.040		0.4	N.D.
Methoxychlor	D014	1.0		10	N.D.
Toxaphene	D015	0.050		0.5	N.D.
HERBICIDES D.L. Factor: 1					
2,4,5-TP (Silvex)	D017	0.0020		1	
2,4-D	D016	0.0020		10	

ARPEN ANALYTICAL

Thomas P. Riordan
Laboratory Director

Please Note:
Analytes reported as N.D. were not present above the stated limit of detection. "D.L. Factor" greater than 1.0 indicates that matrix effects and/or other factors required additional sample dilution and a higher detection limit.

809237.QES

Aspen Analytical
1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

GES	Client Project ID: 980257, BLM - Lace Hill	Sampled:	Sep 15, 1998
1040-A Elkton Drive	Sample Descript: Extract of Soil Sample, 980257-10	Received:	Sep 17, 1998
Colorado Springs, CO 80907			
Attention: Frank LaForce	Lab Number: 809-0360	Analyzed:	see below
		Reported:	Sep 28, 1998

TCLP METALS

Analyte	EPA HW No.	Detection Limit mg/L (ppm)	Date Analyzed	Regulatory Level mg/L (ppm)	Sample Results mg/L (ppm)
Arsenic	D004	0.40	9/22/98	5.0	N.D.
Barium	D005	0.40	9/22/98	100	N.D.
Cadmium	D006	0.040	9/23/98	1.0	N.D.
Chromium	D007	0.20	9/22/98	5.0	N.D.
Lead	D008	0.20	9/22/98	5.0	N.D.
Mercury	D009	0.00020	9/24/98	0.2	N.D.
Selenium	D010	0.80	9/22/98	1.0	N.D.
Silver	D011	0.10	9/22/98	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

ASPEN ANALYTICAL

Thomas R. Palmer
Laboratory Director

809360.GES <1>

TOTAL P.03

TOTAL P.03

P. 01

TRANSACTION REPORT

SEP-30-98 WED 10:19 AM

FOR: OCD HOBBS 15053930720

DATE	START	SENDER	RX TIME	PAGES	TYPE	NOTE
SEP-30	10:17 AM	602 4141810	2'02"	3	RECEIVE	OK

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
DISTRICT I HOBBS
PO BOX 1980, Hobbs, NM 88241
(505) 393-6161
FAX (505) 393-0720

Jennifer A. Salisbury
CABINET SECRETARY

September 11, 1998

Mr. Larry Gandy
Gandy Marley Inc.
P.O. Box 1658
Roswell, NM 88202

Dear Mr. Gandy:

Re: C-138 BLM (Old I&W Hot Oil Service)

New Mexico Oil Conservation Division (NMOCD) is in receipt of the C-138 for the above referenced facility. NMOCD cannot approve the C-138 at this time for the following reason(s).

** The analyticals provided do not represent the above ground waste piles. The analyticals provided are for sub-surface soil samples.

** The most recent analytical does not contain the full TCLP criteria.

Please inform your client to make arrangements to sample the above ground waste. Please notify NMOCD 48 hours in advance so as we may witness this event.

If you require any further information or assistance please do not hesitate to call (505-393-6161) or write this office.

Sincerely Yours,

Wayne Price

Wayne Price-Environmental Engineer

cc: Chris Williams-NMOCD District I Supervisor
Roger Anderson-Environmental Bureau Chief, Santa Fe, NM
FAX 398-6857 GM

file: wp98/gmblm

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

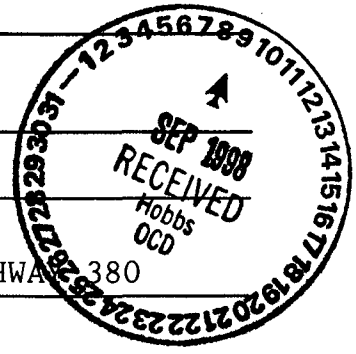
CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: BUREAU OF LAND MANAGEMENT
LOCO HILLS NEW MEXICO

Source: OLD ABANDONED OIL PIT

Disposal Location: 34 MILES WEST OF TATUM ON HIGHWAY 380



"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for BUREAU OF LAND MANAGEMENT concur with the status of the waste from the subject site.

Name Link Lacewell

Title/Agency

BUREAU OF LAND MANAGEMENT

Address ~~WEST SECOND~~ 620 E. Greene
Carlsbad ~~ROSWELL~~, NEW MEXICO 88220

Signature Link Lacewell

Date 9-31-98



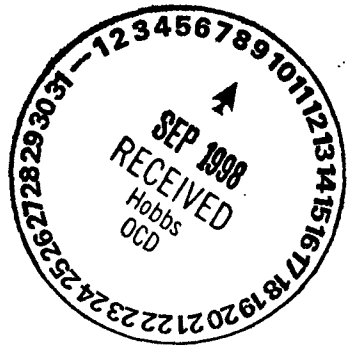
Aspen Analytical

1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

GES	Client Project ID: BLM-I & W Loco Hills		Sampled: Aug 18, 1998
1040-A Elkton Drive	Sample Descript: Soil, 980237-01		Received: Aug 20, 1998
Colorado Springs, CO 80907			Analyzed: Aug 27, 1998
Attention: Frank L. Foree	Lab Number: 808-0485		Reported: Aug 28, 1998

LABORATORY ANALYSIS

Analyte	Detection Limit	Sample Results
Corrosivity:		
pH	N.A.	7.5
Ignitability:		
Flashpoint (Pensky-Martens), °C	20 °C	> 94 °C
Reactivity:		
Sulfide, mg/kg	10	N.D.
Cyanide, mg/kg	0.75	N.D.
Reaction with water	N.A.	Negative



Analytes reported as N.D. were not present above the stated limit of detection.

ASPEN ANALYTICAL

Thomas R. Fowler
Laboratory Director

808485.GES

Aspen Analytical
1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

GES	Client Project ID: BLM-I & W Loco Hills	Sampled: Aug 18, 1998
1040-A Elkton Drive	Sample Matrix: Solid	Received: Aug 20, 1998
Colorado Springs, CO 80907	Analysis Method: EPA 5030/8020	Reported: Aug 28, 1998
Attention: Frank LaForce	First Sample #: 808-0485	

BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 808-0485 980237-01
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.



Quality Control Data	
Report Limit Multiplication Factor:	1.0
Date Analyzed:	8/27/98
Instrument Identification:	HP-1
Surrogate Recovery, %: (QC Limits = 81-108%)	89

Analytes reported as N.D. were not detected above the stated reporting limit.

ASPEN ANALYTICAL

Thomas R. Fowler
Laboratory Director

808O485.GES <1>

Aspen Analytical
1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

GES
1040-A Elkton Drive
Colorado Springs, CO 80907
Attention: Frank L. Foree

Client Project ID: BLM-I & W Loco Hills
Matrix Descript: Soil
Analysis Method: EPA 418.1
First Sample #: 808-0485

Sampled: Aug 18, 1998
Received: Aug 20, 1998
Extracted: Aug 24, 1998
Analyzed: Aug 24, 1998
Reported: Aug 28, 1998

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Sample Results mg/kg
808-0485	980237-01	13,000

SEP 1998
RECEIVED
Hobbs
OCD

Detection Limits:	1000

Analytes reported as N.D. were not present above the stated limit of detection.

ASPEN ANALYTICAL

Thomas R. Fowler
Laboratory Director

808040S.GES <3>

[redacted]
6300 Westpark
Houston, TX 77063
(713) 266-6800

☐ Buffalo
☐ Houston
☐ Pittsburgh

CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Project Manager Frank LaForce
Project Name BLM - I-W Land Mills
Purchase Order No. ____
Sampler(s) ____

Company CES Inc
Address 1040 E Kiowa Dr.
Colorado Springs, Co 80107
Phone 600 530 8411 Fax ____
Mail Report to: ____

Requested Turn Around Time ____
Subcontractor ____

COMMENTS:

25 550 0064

Media: Soil | Water | Air | Other

Preservative: 1. HNO3, 2. H2SO4, 3. H3PO4, 4. HCl, 5. NaOH, 6. Na2SO3, 7. None, 8. Other(s)

SAMPLE IDENTITY	Date Sampled	Time Sampled	Soil	Water	Air	Other	Preservative	Volatile Organics	Semi-Volatile Organics	Pesticides	PCB's	Herbicides	Btex	Metals	Other Analyses	No. of Containers	REMARKS
													4	4	4 4 4 4		550485
980237-01	8/18/98	11:54	X														
																	28

RECEIVED
SEP 1998
OCD
Hobbs

Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Frank LaForce	8-19	10:00	FedEx		
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
				8/19/98	11:00
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time

Delivery Method: ☐ In Person ☐ Common Carrier ____ Specify ☐ Lab Courier ☐ Other
Airbills

White - Lab Copy Canary - File Copy Pink - Client Copy

Attn: Lavry

Check Northland +
Gandy File
File where Needed

10-7-98
mjk

Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ W PRICE'S Verbal Approval Received: Yes ☒ No ☐	4. Generator Northland Operating 5. Originating Site Rock Queen bat 20
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp
3. Address of Facility Operator P.O.Box 1658 Roswell	8. State N.M.
7. Location of Material (Street Address or ULSTR) Rock Queen Bat 20	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

old parafin and b.s. from abandoned pit

ANALYTICAL ON FILE ; OK W/P

SEP 1998
RECEIVED
Hobbs
OCD

Estimated Volume 840 ~~840~~ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: v p DATE: 8-25-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: PET ENGR DATE: 9/10/98 E-MAIL 9/10/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CC: MARTYNN HILLING - SF NORTHLAND file

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Northland Operating, Rock Queen Tract 20

Source: Abandoned B.S. pit

Disposal Location: 34 Miles West of Tatum, NM on Highway 380

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for Northland Operating concur with the status of the waste from the subject site.

Name H.L. PEEL

Title/Agency consultant

Address 3500 Oaklawn L.B.# 31

Dallas Tx. 75219

Signature H L Peel

Date 8/15/98

SEP 1998
RECEIVED
Hobbs
OCD

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non Exempt: ☒ XX Verbal Approval Received: Yes ☐ No ☒ XX	4. Generator Transwestern Pipeline 5. Originating Site Mountainair NM Stat. # 7
2. Management Facility Destination Gandy Marley Inc.	6. Transporter R&R Recycling
3. Address of Facility Operator P.O. Box 1658 Roswell	8. State NM 88202
7. Location of Material (Street Address or ULSTR) Stat. # 7	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

contaminated soil from drain line leak

SANTA FE COPY

RECEIVED
JUL 28 1998
Environmental Bureau
Oil Conservation Division

JUL 1998 RECEIVED Hobbs OCD

Estimated Volume 120 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: supervisor DATE: 7-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: ENVR ENGR DATE: 7/29/98

APPROVED BY: SF By _____ TITLE: ENVR ENGR DATE: 7/29/98

O. Box 1980
obbs, NM 88241-1980
strict II - (505) 748-1283
S. First
sia, NM 88210
strict III - (505) 334-6178
) Rio Brazos Road
, NM 87410
ict IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Origina
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ XX Verbal Approval Received: Yes ☐ No ☒ XX	4. Generator Transwestern Pipeline 5. Originating Site Mountainair NM Stat. # 7
2. Management Facility Destination Gandy Marley Inc.	6. Transporter R&R Recycling
3. Address of Facility Operator P.O. Box 1658 Roswell	8. State NM 88202
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All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

contaminated soil from drain line leak

JUL 1998
RECEIVED
Hobbs
OCD

Estimated Volume 120 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: supervisor DATE: 7-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Trans Western Pipe line
Station #7 Mountainair n.m.

Source: Drain line leak

Disposal Location: 34mi West of Tatum on Hiway 380

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b),"

I, the undersigned as the agent for Transwestern Pipeline concur with the status of the waste from the subject site.

Name Billy Jones

Title/Agency EX Otm Tech

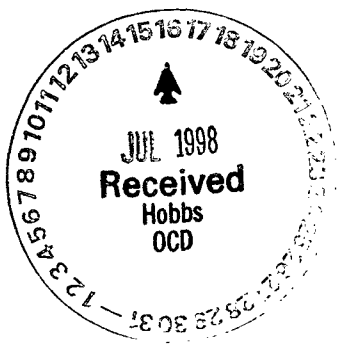
Address PO Box 109

Mountainair n.m. 87036

Signature Billy Jones

Date 7-15-98

JUL 1998
RECEIVED
Hobbs
OCD


JUL 1998
Received
Hobbs
OCD

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel. 281-488-1810
Fax: 281-488-4661

DATE: 07/08/98
PAGE: 1

ranswestern Pipeline Co.
.O. Box 190
'ountain Air, NM 87036

Pace Project Number: 853233
Client Project ID: Transwestern Pipeline Co.

:tn: Mr. Billy Jones
'one: 505-847-2513

olid results are reported on a wet weight basis

nce Sample No: 85352185 Date Collected: 06/18/98 Matrix: Soil
lient Sample ID: WD-6-18-97 Date Received: 06/23/98

arameters	Results	Units	PRL	App. Of	Analyzed	Analyst	CAS#	Footnotes
etals								
TCLP on Solid, ICP Metals	Method: EPA 6010				Prep Method: EPA 3010			
Arsenic	ND	mg/L	0.1	1.00	06/30/98	cjui	7440-38-2	
Barium	0.581	mg/L	0.1	1.00	06/30/98	cjui	7440-39-3	
Cadmium	ND	mg/L	0.05	1.00	06/30/98	cjui	7440-43-9	
Chromium	ND	mg/L	0.01	1.00	06/30/98	cjui	7440-47-3	
Lead	ND	mg/L	0.05	1.00	06/30/98	cjui	7439-92-1	
Selenium	ND	mg/L	0.1	1.00	06/30/98	cjui	7782-49-2	
Silver	ND	mg/L	0.01	1.00	06/30/98	cjui	7440-22-4	
Date Digested					06/29/98			
Mercury, TCLP Leachate, Solid	Method: EPA 7470				Prep Method: EPA 7470			
Mercury	ND	ug/L	20	100	06/30/98	shcu	7439-97-6	



REPORT OF LABORATORY ANALYSIS

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ID: JUL 14,98 14:20 No.006 P.02

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

Pace Analytical

Pace Project Number: 853233
Client Project ID: Transwestern Pipeline Co.

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
App. DF	Applied Dilution Factor

REPORT OF LABORATORY ANALYSIS

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ID: JUL 14'98 14:20 NO.006 P.05

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

Pace Analytical

QUALITY CONTROL DATA

DATE: 07/08/98
PAGE: 3

ranswestern Pipeline Co.
.O. Box 190
ountain Air, NM 87036

Pace Project Number: 853233
Client Project ID: Transwestern Pipeline Co.

tn: Mr. Billy Jones
hone: 505-847-2513

C Batch ID: 8071
nalysis Method: EPA 6010
ssociated Pace Samples: 85352185

QC Batch Method: EPA 3010
Analysis Description: TCLP on Solid, ICP Metals

ETHOD BLANK: 85362366
ssociated Pace Samples:
85352185

arameter	Units	Method Blank Result	PRL	Footnotes
rsenic	mg/L	ND	0.1	
arium	mg/L	ND	0.1	
admium	mg/L	ND	0.05	
hromium	mg/L	ND	0.01	
ead	mg/L	ND	0.05	
elenium	mg/L	ND	0.1	
ilver	mg/L	ND	0.01	

ATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85362382 85362390

arameter	Units	85346765	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
rsenic	mg/L	0.003000	0.50	0.4690	93.2	0.5200	103	10	
arium	mg/L	0.2040	0.50	0.6930	97.8	0.7070	101	3	
admium	mg/L	0	0.50	0.4690	93.8	0.5230	105	11	
hromium	mg/L	0.0007000	0.50	0.4400	87.9	0.4940	98.7	12	
ead	mg/L	0	0.50	0.4170	83.4	0.4710	94.2	12	
elenium	mg/L	0.0003000	0.50	0.5150	103	0.5620	112	9	

REPORT OF LABORATORY ANALYSIS

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JUL 14'98 14:21 No.006 P.04
ID:

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

Pace Analytical

QUALITY CONTROL DATA

DATE: 07/08/98
PAGE: 4

Pace Project Number: 853233
Client Project ID: Transwestern Pipeline Co.

LABORATORY CONTROL SAMPLE: 85362374

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Arsenic	mg/L	1.0	1.050	105	
Barium	mg/L	1.0	1.100	110	
Cadmium	mg/L	1.0	1.080	108	
Chromium	mg/L	1.0	1.110	111	
Lead	mg/L	1.0	1.100	110	
Selenium	mg/L	1.0	1.080	108	

REPORT OF LABORATORY ANALYSIS

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ID: JUL 14'98 14:21 No.006 P.05

Pace Analytical Services, Inc
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1610
Fax: 281-488-4661

Pace Analytical

QUALITY CONTROL DATA

DATE: 07/08/98
PAGE: 5

Transwestern Pipeline Co.
P.O. Box 190
Fountain Air, NM 87036

Pace Project Number: 853233
Client Project ID: Transwestern Pipeline Co.

Attn: Mr. Billy Jones
Phone: 505-847-2513

QC Batch ID: 8076
Analysis Method: EPA 7470
Associated Pace Samples: 85352185

QC Batch Method: EPA 7470
Analysis Description: Mercury, TCLP Leachate, Solid

METHOD BLANK: 85362481
Associated Pace Samples:
85352185

Parameter	Units	Method Blank Result	PRL	Footnotes
Mercury	ug/L	ND	0.2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85364891 85364909

Parameter	Units	85346625	Spike Conc.	Matrix Spike Result	Matrix Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Mercury	ug/L	58.00	200	264.0	103	239.0	90.5	13	

LABORATORY CONTROL SAMPLE: 85362499

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Mercury	ug/L	2.0	2.060	103	

REPORT OF LABORATORY ANALYSIS

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JUL 14'98 14:21 NO.006 P.06
ID:

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

Pace Analytical

Pace Project Number: 853233
Client Project ID: Transwestern Pipeline Co.

UALITY CONTROL DATA PARAMETER FOOTNOTES

onsistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

D	Not Detected
C	Not Calculable
RL	Pace Reporting Limit
PD	Relative Percent Difference

REPORT OF LABORATORY ANALYSIS

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JUL 14'98 14:22 No.006 P.07
ID:

Pace Analytical

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: TRANSWESTERN PIPELINE

Address: PO BOX 190

MOUNTAINAIR NM 87036

Phone: 505 847 2513

Report To: BUTCH RUSSELL / BILLY JONES

Bill To:

P.O. # / Billing Reference

Project Name / No.: SM 7 WEST DRAIN

Pace Client No.:

Pace Project Manager

Pace Project No.

*Requested Due Date:

Sampled By (PRINT): BILLY JONES 6-18-98

Sampler Signature / Date Sampled

Billy Jones 6-18-98

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA	ANALYSES REQUEST: TCLP METALS	REMARKS
1	WD-6-18-98	1.00								✓	85352185
2											
3											
4											
5											
6											
7											
8											

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	SHIPMENT METHOD RETURNED/DATE

Additional Comments

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
	Billy Jones 6-18-98	[illegible] Holland	6-22-98	1100

8.7°C

SEE REVERSE SIDE FOR INSTRUCTIONS

2

ID:

JUL 15'98 8:52 No.003 P.02

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

Pace Analytical

April 29, 1998

Mr. Butch Russell
Transwestern Pipeline Co.
P.O. Box
Mountain Air, NM 87036

RE: Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Dear Mr. Russell:

Enclosed are the results of analyses for sample(s) received by the laboratory on April 8, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katren Jenkins
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4681

DATE: 04/29/98
PAGE: 1

Transwestern Pipeline Co.
P.O. Box
Mountain Air, NM 87036

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Attn: Mr. Butch Russell
Phone: 505-260-4011

Solid results are reported on a wet weight basis

Pace Sample No: 85228336 Date Collected: 04/02/98 Matrix: Soil
Client Sample ID: 7A & 7B Date Received: 04/08/98

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Organics, Prep								
TPH by EPA Method 418.1 Mod		Method: EPA 418.1 Modified			Prep Method: EPA 3540			
Total Petroleum Hydrocarbons	1170	mg/kg	10	1.00	04/10/98	SMAH		
Volatiles, TCLP Leach, Solid		Method: EPA 8260			Prep Method: EPA 1311			
Date Leached	0.00		0	1.00	04/14/98	DMEN		
GC -- Semi-VOA								
PCB's in Solid		Method: EPA 8080			Prep Method: EPA 3550			
PCB-1016 (Arochlor 1016)	ND	mg/kg	1	1.00	04/15/98	SYIN	12674-11-2	
PCB-1221 (Arochlor 1221)	ND	mg/kg	1	1.00	04/15/98	SYIN	11104-28-2	
PCB-1232 (Arochlor 1232)	ND	mg/kg	1	1.00	04/15/98	SYIN	11141-16-5	
PCB-1242 (Arochlor 1242)	ND	mg/kg	1	1.00	04/15/98	SYIN	53469-21-9	
PCB-1248 (Arochlor 1248)	ND	mg/kg	1	1.00	04/15/98	SYIN	12672-29-6	
PCB-1254 (Arochlor 1254)	ND	mg/kg	1	1.00	04/15/98	SYIN	11097-69-1	
PCB-1260 (Arochlor 1260)	ND	mg/kg	1	1.00	04/15/98	SYIN	11096-82-5	
Decachlorobiphenyl (S)	86	%		1.00	04/15/98	SYIN	2051-24-3	
Tetrachloro-meta-xylene (S)	74	%		1.00	04/15/98	SYIN	877-09-8	
Date Extracted					04/10/98			
GC/MS -- VOA								
Volatiles, TCLP Leach, Solid		Method: EPA 8260			Prep Method: EPA 8260			
Vinyl Chloride	ND	mg/L	0.2	20.0	04/16/98	TSHA	75-01-4	
1,1-Dichloroethene	ND	mg/L	0.1	20.0	04/16/98	TSHA	75-35-4	
Chloroform	ND	mg/L	0.1	20.0	04/16/98	TSHA	67-66-3	
1,2-Dichloroethane	ND	mg/L	0.1	20.0	04/16/98	TSHA	107-06-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

Pace Analytical

DATE: 04/29/98
PAGE: 2

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Pace Sample No: 85228336 Date Collected: 04/02/98 Matrix: Soil
Client Sample ID: 7A & 7B Date Received: 04/08/98

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
2-Butanone	ND	mg/L	20	20.0	04/16/98	TSHA	78-93-3	
Carbon Tetrachloride	ND	mg/L	0.1	20.0	04/16/98	TSHA	56-23-5	
Trichloroethene	ND	mg/L	0.1	20.0	04/16/98	TSHA	79-01-6	
Benzene	ND	mg/L	0.1	20.0	04/16/98	TSHA	71-43-2	
Tetrachloroethene	ND	mg/L	0.1	20.0	04/16/98	TSHA	127-18-4	
Chlorobenzene	ND	mg/L	0.1	20.0	04/16/98	TSHA	108-90-7	
Toluene-d8 (S)	98	%		1.00	04/16/98	TSHA	2037-26-5	
4-Bromofluorobenzene (S)	100	%		1.00	04/16/98	TSHA	460-00-4	
Dibromofluoromethane (S)	95	%		1.00	04/16/98	TSHA	1868-53-7	
GC/MS -- Semi-VOA								
Semivolatile, TCLP, Solid	Method: EPA 8270				Prep Method: EPA 3510			
1,4-Dichlorobenzene	ND	ug/L	20	0.50	04/21/98	HGV	106-46-7	
2-Methylphenol	ND	ug/L	20	0.50	04/21/98	HGV	95-48-7	
3-Methylphenol	ND	ug/L	20	0.50	04/21/98	HGV	108-39-4	
4-Methylphenol	ND	ug/L	20	0.50	04/21/98	HGV	106-44-5	
Nitrobenzene	ND	ug/L	20	0.50	04/21/98	HGV	98-95-3	
Hexachlorobutadiene	ND	ug/L	20	0.50	04/21/98	HGV	87-68-3	
2,4,6-Trichlorophenol	ND	ug/L	20	0.50	04/21/98	HGV	88-06-2	
2,4,5-Trichlorophenol	ND	ug/L	50	0.50	04/21/98	HGV	95-95-4	
2,4-Dinitrotoluene	ND	ug/L	20	0.50	04/21/98	HGV	121-14-2	
Hexachlorobenzene	ND	ug/L	20	0.50	04/21/98	HGV	118-74-1	
Pentachlorophenol	ND	ug/L	50	0.50	04/21/98	HGV	87-86-5	
Pyridine	ND	ug/L	20	0.50	04/21/98	HGV	110-86-1	
Hexachloroethane	ND	ug/L	20	0.50	04/21/98	HGV	67-72-1	
Nitrobenzene-d5 (S)	114	%		1.00	04/21/98	HGV	4165-60-0	
2-Fluorobiphenyl (S)	86	%		1.00	04/21/98	HGV	321-60-8	
Terphenyl-d14 (S)	99	%		1.00	04/21/98	HGV	1718-51-0	
Phenol-d5 (S)	29	%		1.00	04/21/98	HGV	13127-88-3	
2-Fluorophenol (S)	33	%		1.00	04/21/98	HGV	367-12-4	
2,4,6-Tribromophenol (S)	52	%		1.00	04/21/98	HGV	118-79-6	
Date Extracted					04/14/98			

REPORT OF LABORATORY ANALYSIS

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Fax: 281-488-4661

Pace Analytical

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Pace Sample No: 85228344 Date Collected: 04/02/98 Matrix: Soil
Client Sample ID: 7C & 7D Date Received: 04/08/98

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Organics, Prep								
TPH by EPA Method 418.1 Mod		Method: EPA 418.1 Modified			Prep Method: EPA 3540			
Total Petroleum Hydrocarbons	32800	mg/kg	1000	100	04/10/98	SMAH		
Volatiles, TCLP Leach, Solid		Method: EPA 8260			Prep Method: EPA 1311			
Date Leached	0.00		0	1.00	04/14/98	DMEN		
GC -- Semi-VOA								
PCB's in Solid		Method: EPA 8080			Prep Method: EPA 3550			
PCB-1016 (Arochlor 1016)	ND	mg/kg	1	1.00	04/15/98	SYIN	12674-11-2	
PCB-1221 (Arochlor 1221)	ND	mg/kg	1	1.00	04/15/98	SYIN	11104-28-2	
PCB-1232 (Arochlor 1232)	ND	mg/kg	1	1.00	04/15/98	SYIN	11141-16-5	
PCB-1242 (Arochlor 1242)	ND	mg/kg	1	1.00	04/15/98	SYIN	53469-21-9	
PCB-1248 (Arochlor 1248)	ND	mg/kg	1	1.00	04/15/98	SYIN	12672-29-6	
PCB-1254 (Arochlor 1254)	ND	mg/kg	1	1.00	04/15/98	SYIN	11097-69-1	
PCB-1260 (Arochlor 1260)	ND	mg/kg	1	1.00	04/15/98	SYIN	11096-82-5	
Decachlorobiphenyl (S)	65	%		1.00	04/15/98	SYIN	2051-24-3	
Tetrachloro-meta-xylene (S)	86	%		1.00	04/15/98	SYIN	877-09-8	
Date Extracted					04/10/98			
GC/MS -- VOA								
Volatiles, TCLP Leach, Solid		Method: EPA 8260			Prep Method: EPA 8260			
Vinyl Chloride	ND	mg/L	0.2	20.0	04/16/98	TSHA	75-01-4	
1,1-Dichloroethene	ND	mg/L	0.1	20.0	04/16/98	TSHA	75-35-4	
Chloroform	ND	mg/L	0.1	20.0	04/16/98	TSHA	67-66-3	
1,2-Dichloroethane	ND	mg/L	0.1	20.0	04/16/98	TSHA	107-06-2	
2-Butanone	ND	mg/L	20	20.0	04/16/98	TSHA	78-93-3	
Carbon Tetrachloride	ND	mg/L	0.1	20.0	04/16/98	TSHA	56-23-5	
Trichloroethene	ND	mg/L	0.1	20.0	04/16/98	TSHA	79-01-6	
Benzene	ND	mg/L	0.1	20.0	04/16/98	TSHA	71-43-2	
Tetrachloroethene	ND	mg/L	0.1	20.0	04/16/98	TSHA	127-18-4	
Chlorobenzene	ND	mg/L	0.1	20.0	04/16/98	TSHA	108-90-7	
Toluene-d8 (S)	99	%		1.00	04/16/98	TSHA	2037-26-5	
4-Bromofluorobenzene (S)	100	%		1.00	04/16/98	TSHA	460-00-4	
Dibromofluoromethane (S)	97	%		1.00	04/16/98	TSHA	1868-53-7	
GC/MS -- Semi-VOA								

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Pace Analytical

DATE: 04/29/98
PAGE: 4

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Pace Sample No: 85228344 Date Collected: 04/02/98 Matrix: Soil
Client Sample ID: 7C & 7D Date Received: 04/08/98

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Semivolatile, TCLP, Solid	Method: EPA 8270				Prep Method: EPA 3510			
1,4-Dichlorobenzene	ND	ug/L	200	5.00	04/17/98	VHEB	106-46-7	
2-Methylphenol	ND	ug/L	200	5.00	04/17/98	VHEB	95-48-7	
3-Methylphenol	ND	ug/L	200	5.00	04/17/98	VHEB	108-39-4	
4-Methylphenol	ND	ug/L	200	5.00	04/17/98	VHEB	106-44-5	
Nitrobenzene	ND	ug/L	200	5.00	04/17/98	VHEB	98-95-3	
Hexachlorobutadiene	ND	ug/L	200	5.00	04/17/98	VHEB	87-68-3	
2,4,6-Trichlorophenol	ND	ug/L	200	5.00	04/17/98	VHEB	88-06-2	
2,4,5-Trichlorophenol	ND	ug/L	500	5.00	04/17/98	VHEB	95-95-4	
2,4-Dinitrotoluene	ND	ug/L	200	5.00	04/17/98	VHEB	121-14-2	
Hexachlorobenzene	ND	ug/L	200	5.00	04/17/98	VHEB	118-74-1	
Pentachlorophenol	ND	ug/L	500	5.00	04/17/98	VHEB	87-86-5	
Pyridine	ND	ug/L	200	5.00	04/17/98	VHEB	110-86-1	
Hexachloroethane	ND	ug/L	200	5.00	04/17/98	VHEB	67-72-1	1
Nitrobenzene-d5 (S)	56	%		1.00	04/17/98	VHEB	4165-60-0	
2-Fluorobiphenyl (S)	82	%		1.00	04/17/98	VHEB	321-60-8	
Terphenyl-d14 (S)	81	%		1.00	04/17/98	VHEB	1718-51-0	
Phenol-d6 (S)	15	%		1.00	04/17/98	VHEB	13127-88-3	
2-Fluorophenol (S)	20	%		1.00	04/17/98	VHEB	367-12-4	
2,4,6-Tribromophenol (S)	18	%		1.00	04/17/98	VHEB	118-79-6	
Date Extracted					04/14/98			

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Pace Project Number: 852117
Client Project ID: Station 7-West Drain

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	*Surrogate*
App. DF	Applied Dilution Factor
[1]	Due to the nature of the sample matrix, this sample was analyzed with 1:10 dilution. The detection limit is elevated accordingly. The surrogates were diluted out and not recovered.

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QUALITY CONTROL DATA

DATE: 04/29/98
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Transwestern Pipeline Co.
P.O. Box
Mountain Air, NM 87036

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Attn: Mr. Butch Russell
Phone: 505-260-4011

QC Batch ID: 4863
Analysis Method: EPA 8080
Associated Pace Samples: 85228336 85228344

QC Batch Method: EPA 3550
Analysis Description: PCB's in Solid

METHOD BLANK: 85230845
Associated Pace Samples: 85228336 85228344

Parameter	Units	Method Blank Result	PRL	Footnotes
PCB-1016 (Arochlor 1016)	mg/kg	ND	1	
PCB-1221 (Arochlor 1221)	mg/kg	ND	1	
PCB-1232 (Arochlor 1232)	mg/kg	ND	1	
PCB-1242 (Arochlor 1242)	mg/kg	ND	1	
PCB-1248 (Arochlor 1248)	mg/kg	ND	1	
PCB-1254 (Arochlor 1254)	mg/kg	ND	1	
PCB-1260 (Arochlor 1260)	mg/kg	ND	1	
Decachlorobiphenyl (S)	%	100		
Tetrachloro-meta-xylene (S)	%	87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85230852 85230860

Parameter	Units	85228336	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
PCB-1242 (Arochlor 1242)	mg/kg	0	0.03	0.03367	101	0.03800	114	12	
Decachlorobiphenyl (S)					117		130		
Tetrachloro-meta-xylene (S)					104		115		

LABORATORY CONTROL SAMPLE: 85230878

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
PCB-1242 (Arochlor 1242)	mg/kg	0.03	0.03367	101	

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QUALITY CONTROL DATA

DATE: 04/29/98
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Pace Project Number: 852117
Client Project ID: Station 7-West Drain

LABORATORY CONTROL SAMPLE: 852308/B

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Decachlorobiphenyl (S)				106	
Tetrachloro-meta-xylene (S)				94	

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QUALITY CONTROL DATA

DATE: 04/29/98
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Transwestern Pipeline Co.
P.O. Box
Mountain Air, NM 87036

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Attn: Mr. Butch Russell
Phone: 505-260-4011

QC Batch ID: 4067
QC Batch Method: EPA 3540
Analysis Method: EPA 418.1 Modified
Analysis Description: TPH by EPA Method 418.1 Mod
Associated Pace Samples: 85228336 85228344

METHOD BLANK: 85231231
Associated Pace Samples:

		85228336	85228344
Parameter	Units	Method Blank Result	PRL	Footnotes
Total Petroleum Hydrocarbons	mg/kg	ND	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85231256 85231264

Parameter	Units	85229169	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Total Petroleum Hydrocarbons	mg/kg	43.40	440.3	500.5	104	531.1	111	7	

LABORATORY CONTROL SAMPLE: 85231249

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Total Petroleum Hydrocarbons	mg/kg	326.7	344.5	105	

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QUALITY CONTROL DATA

DATE: 04/29/98
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Transwestern Pipeline Co.
P.O. Box
Mountain Air, NM 87036

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Attn: Mr. Butch Russell
Phone: 505-260-4011

QC Batch ID: 4960
Analysis Method: EPA 8270
Associated Pace Samples: 85228336 85228344

QC Batch Method: EPA 3510
Analysis Description: Semivolatile, TCLP, Solid

METHOD BLANK: 85235091
Associated Pace Samples:

Parameter	Units	85228336 85228344 Method Blank Result	PRL	Footnotes
1,4-Dichlorobenzene	ug/L	ND	20	
2-Methylphenol	ug/L	ND	20	
3-Methylphenol	ug/L	ND	20	
4-Methylphenol	ug/L	ND	20	
Nitrobenzene	ug/L	ND	20	
Hexachlorobutadiene	ug/L	ND	20	
2,4,6-Trichlorophenol	ug/L	ND	20	
2,4,5-Trichlorophenol	ug/L	ND	50	
2,4-Dinitrotoluene	ug/L	ND	20	
Hexachlorobenzene	ug/L	ND	20	
Pentachlorophenol	ug/L	ND	50	
Pyridine	ug/L	ND	20	
Hexachloroethane	ug/L	ND	20	
Nitrobenzene-d5 (S)	%	72		
2-Fluorobiphenyl (S)	%	69		
Terphenyl-d14 (S)	%	88		
Phenol-d6 (S)	%	14		
2-Fluorophenol (S)	%	18		1
2,4,6-Tribromophenol (S)	%	28		

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QUALITY CONTROL DATA

DATE: 04/29/98
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Pace Project Number: 852117
Client Project ID: Station 7-West Drain

LABORATORY CONTROL SAMPLE & LCSD: 85235109 85235117

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Spike Dup % Rec	RPD	Footnotes
1,4-Dichlorobenzene	ug/L	200	102.0	51.0	136.0	68.0	29	
2-Methylphenol	ug/L	400	104.0	26.0	124.0	31.0	18	
4-Methylphenol	ug/L	400	186.0	46.5	220.0	55.0	17	2,2
Nitrobenzene	ug/L	200	130.0	65.0	154.0	77.0	17	
Hexachlorobutadiene	ug/L	200	90.00	45.0	128.0	64.0	35	
2,4,6-Trichlorophenol	ug/L	400	280.0	70.0	320.0	80.0	13	
2,4,5-Trichlorophenol	ug/L	400	140.0	35.0	168.0	42.0	18	
2,4-Dinitrotoluene	ug/L	200	160.0	80.0	172.0	86.0	7	
Hexachlorobenzene	ug/L	200	136.0	68.0	138.0	69.0	1	
Pentachlorophenol	ug/L	400	360.0	90.0	360.0	90.0	0	
Hexachloroethane	ug/L	200	92.00	46.0	128.0	64.0	33	

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QUALITY CONTROL DATA

DATE: 04/29/98
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Transwestern Pipeline Co.
P.O. Box
Mountain Air, NM 87036

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

Attn: Mr. Butch Russell
Phone: 505-260-4011

QC Batch ID: 5003
Analysis Method: EPA 8260
Associated Pace Samples: 85228336 85228344

QC Batch Method: EPA 8260
Analysis Description: Volatiles, TCLP Leach, Solid

METHOD BLANK: 85246023
Associated Pace Samples:

Parameter	Units	85228336 85228344 Method Blank Result	PRL	Footnotes
Vinyl Chloride	mg/L	ND	0.01	
1,1-Dichloroethene	mg/L	ND	0.005	
Chloroform	mg/L	ND	0.005	
1,2-Dichloroethane	mg/L	ND	0.005	
2-Butanone	mg/L	ND	1	
Carbon Tetrachloride	mg/L	ND	0.005	
Trichloroethene	mg/L	ND	0.005	
Benzene	mg/L	ND	0.005	
Tetrachloroethene	mg/L	ND	0.005	
Chlorobenzene	mg/L	ND	0.005	
Toluene-d8 (S)	%	96		
4-Bromofluorobenzene (S)	%	102		
Dibromofluoromethane (S)	%	86		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85238731 85238749

Parameter	Units	85222792	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
1,1-Dichloroethene	mg/L	0	25	19.64	78.6	20.02	80.1	2	
Trichloroethene	mg/L	0	25	23.60	94.4	25.06	100	6	
Benzene	mg/L	0	25	22.68	90.7	23.57	94.3	4	
Chlorobenzene	mg/L	0	25	26.58	106	28.46	114	7	
Toluene-d8 (S)					89		89		
4-Bromofluorobenzene (S)					101		101		

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QUALITY CONTROL DATA

Pace Project Number: 852117
Client Project ID: Station 7-West Drain

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85238731 85238749

Parameter	Units	85222792	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Dibromofluoromethane (S)					94		96		

LABORATORY CONTROL SAMPLE: 85238723

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1-Dichloroethene	mg/L	0.50	0.4440	88.8	
Trichloroethene	mg/L	0.50	0.4327	86.5	
Benzene	mg/L	0.50	0.4056	81.1	
Chlorobenzene	mg/L	0.50	0.5165	103	

LABORATORY CONTROL SAMPLE: 85240174

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1-Dichloroethene	mg/L	0.02	0.01513	75.7	
Trichloroethene	mg/L	0.02	0.01921	96.1	
Benzene	mg/L	0.02	0.01802	90.1	
Chlorobenzene	mg/L	0.02	0.02015	101	

LABORATORY CONTROL SAMPLE: 85246031

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1-Dichloroethene	mg/L	0.02	0.01574	78.7	
Trichloroethene	mg/L	0.02	0.02065	103	
Benzene	mg/L	0.02	0.01914	95.7	
Chlorobenzene	mg/L	0.02	0.02093	105	

LABORATORY CONTROL SAMPLE: 85250736

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1-Dichloroethene	mg/L	0.20	0.1781	89.1	
Trichloroethene	mg/L	0.20	0.2184	109	
Benzene	mg/L	0.20	0.2103	105	
Chlorobenzene	mg/L	0.20	0.2276	114	

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QUALITY CONTROL DATA

DATE: 04/29/98
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Pace Project Number: 852117
Client Project ID: Station 7-West Drain

LABORATORY CONTROL SAMPLE: 85254332

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1-Dichloroethene	mg/L	0.40	0.3884	97.1	
Trichloroethene	mg/L	0.40	0.3571	89.3	
Benzene	mg/L	0.40	0.3867	96.7	
Chlorobenzene	mg/L	0.40	0.4283	107	

LABORATORY CONTROL SAMPLE: 85259026

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,1-Dichloroethene	mg/L	0.40	0.3964	99.1	
Trichloroethene	mg/L	0.40	0.3905	97.6	
Benzene	mg/L	0.40	0.4176	104	
Chlorobenzene	mg/L	0.40	0.4676	117	

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5991

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: TRANSWESTERN PIPELINE	Report To: BURK RUSSELL / BILLY JONES	Turn around Time: ☐ 24 Hours ☐ 48 Hours ☒ 3-5 Days ☐ 1 Week ☐ 2 Weeks ☐ Normal 14 Days	Pace Client No. 62170
Address: PO Box 180	Bill To:		Pace Project Manager
MOUNTAINAIR NEW MEXICO 8703[illegible]	P.O. # / Billing Reference		Pace Project No.
Phone: 505-260-4011 FAX 505-254-[illegible]37	Project Name / No.: STA. 7 EAST DRAIN		Requested Due Date: 4/15

Sampled By (PRINT): BILLY JONES 4-2-98

Sampler Signature: Billy Jones — Date Sampled: 4-2-98

ITEM #	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH	$Na_2S_2O_3$	ANALYSES REQUEST	REMARKS
1	7A-4-2-98	9:30	GW	228336								✓	Sample #1
2	7B-4-2-98	9:30										✓	
3	7C-4-2-98	9:35	GW	228344								✓	Sample #3
4	7D 4-2-98	9:35										✓	
5													
6													
7													
8													

COOLER(S)	BOTTLES	SHIPMENT METHOD: FEDEX	AIRBILL DATE	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				Billy Jones	4-2-98	1000	[illegible]	4/6/98	0930

Additional Comments:

SAMPLE CONDITION

Temp: ____ °C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N	pH ___

SEE REVERSE SIDE FOR INSTRUCTIONS

TRANSWESTERN PIPELINE 06/02/98 10:32 ID: MAY 11'98 9:48 No.001 P.16

Pace Analytical

DATE: 05/29/98
PAGE: 1

ransWestern Pipeline Co.
.O. Box 190
ountain Air, NM 87036

Pace Project Number: 852752
Client Project ID: Mountainaire Facility

:ttn: Mr. Billy Jones
hone: 505-847-2513

olid results are reported on a wet weight basis

ace Sample No:	85298925	Date Collected:	04/02/98
lient Sample ID:	RELOG 85228336/ 7A & 7B	Date Received:	05/20/98

Matrix: Soil

Parameters	Results	Units	PRL	App. Df	Analyzed	Analyst	CAS#	Footnotes
ct Chemistry								
Cyanide, Reactive		Method: SW846 7.3.3.2			Prep Method: SW846 7.3.3.2			
Cyanide, Reactive	ND	mg/kg	0.5	1.00	05/22/98	mmdn		
Sulfide, Reactive		Method: SW846 7.3.4.2			Prep Method: SW846 7.3.4.2			
Sulfide, Reactive	ND	mg/kg	50	1.00	05/21/98	tmwd		
pH, Soil		Method: EPA 9045			Prep Method: EPA 9045			
pH	8.6		0	1.00	05/27/98	CPFL		
Organics, Prep								
Flash Point, Closed Cup		Method: EPA 1010			Prep Method: EPA 1010			
Flash Point	> 225	deg F		1.00	05/22/98	DMEN		

Pace Analytical

DATE: 05/29/98
PAGE: 2

Pace Project Number: 852752
Client Project ID: Mountainaire Facility

Pace Sample No: 85298933 Date Collected: 04/02/98 Matrix: Soil
Client Sample ID: RELOG 85228344/ 7C & 7D Date Received: 05/20/98

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Wet Chemistry								
Cyanide, Reactive	Method: SW846 7.3.3.2				Prep Method: SW846 7.3.3.2			
Cyanide, Reactive	ND	mg/kg	0.5	1.00	05/22/98	madn		
Sulfide, Reactive	Method: SW846 7.3.4.2				Prep Method: SW846 7.3.4.2			
Sulfide, Reactive	ND	mg/kg	50	1.00	05/21/98	tmad		
pH, Soil	Method: EPA 9045				Prep Method: EPA 9045			
pH	8.12		0	1.00	05/27/98	CPFL		
Organics, Prep								
Flash Point, Closed Cup	Method: EPA 1010				Prep Method: EPA 1010			
Flash Point	> 225	deg F		1.00	05/22/98	DMEN		

Pace Analytical

DATE: 05/29/98
PAGE: 3

Pace Project Number: 852752
Client Project ID: Mountainaire Facility

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
App. DF	Applied Dilution Factor

Received

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

RECEIVED
JUL 01 1998
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator Transwestern Pipeline
	5. Originating Site Thoreau Station
2. Management Facility Destination Gandy Marley Inc.	6. Transporter R&R Recycling
3. Address of Facility Operator Box 1658 Roswell NM 88202	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Station # 5 Thoreau NM.	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

contaminated soil from leaking drain line

JUN 1998 RECEIVED Hobbs OCD

JUN 1998 RECEIVED Hobbs OCD

96-1-2 414 & 5994 of Unit

Estimated Volume 5 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 6-24-98
Waste Management Facility/Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: Env Engr DATE: 6/30/98

APPROVED BY: Martyne J Kelly TITLE: Env Geologist DATE: 7/1/98

O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
tesia, NM 88210
istrict III - (505) 334-6178
00 Rio Brazos Road
tec, NM 87410
istrict IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ per W Price 9/28/98	4. Generator ElPaso Nat. GaS
Verbal Approval Received: Yes ☒ No ☒	5. Originating Site Cordunas Stat
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp.
3. Address of Facility Operator Box 1658 Roswell	8. State NM
7. Location of Material (Street Address or ULSTR) Hiway 82 East	of El Paso Tx.

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

SF Copy

contaminated fresh water from washing pipeline pigs

CONDITIONS OF APPROVAL:

WATER MUST BE RAN THROUGH SOLIDIFICATION UNIT BEFORE DISPOSAL! JS.

RECEIVED
Hobbs OCD

Estimated Volume 120 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

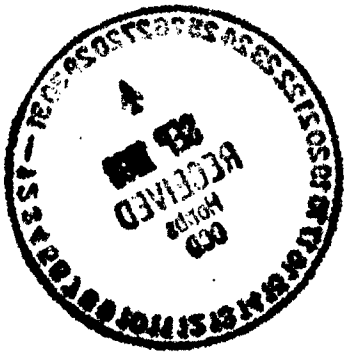
SIGNATURE: _____ TITLE: v-p DATE: 9-2-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: EN per Env Spec DATE: 9/28/98

APPROVED BY: (SANTA FE) _____ TITLE: " DATE: "




1998

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Cornudas Compressor Sta. (El Paso Natural Gas)
65 miles E. of El Paso, Tx.

Source: Pigging Sludge.

Disposal Location: 35 miles west of Tatum, NM on Roswell Highway

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for El Paso Natural Gas concur with the status of the waste from the subject site.

SEP 1998 RECEIVED Hobbs OCD

Name Martin H. Soltero.

Title/Agency Env. Engineer.

Address PO Box 1492
El Paso TX 79978

Signature Martin H. Soltero

Date Sept 4, 1998

SAMPLE KEY

SAMPLE NUMBER: S98-0247 LOCATION: El Paso P/L
MATRIX: WATER
SAMPLE DESCRIPTION: FRAC TANK @ CORNUDAS STATION
S D CONTINUED:
S D CONTINUED:
:
SAMPLE TIME: 14:45 SAMPLE DATE: 06/29/98

SAMPLE KEY

SAMPLE NUMBER: S98-0300 LOCATION: EL PASO P/L DISTRICT
MATRIX: OIL
SAMPLE DESCRIPTION: FRAC TANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:30 SAMPLE DATE: 08/13/98



NEL LABORATORIES
Reno • Las Vegas
Phoenix • Burbank

Reno Division
1030 Matley Lane • Reno, Nevada 89502
(702) 348-2522 • Fax: (702) 348-2546
1-800-368-5221

CLIENT: El Paso Natural Gas Co.
8645 Railroad Dr.
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME:
PROJECT #:

NEL ORDER ID: P9807021

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 7/7/98.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

Method 8270 extract was diluted due to hydrocarbon contamination.



Eileen M. Ferguson
Laboratory Manager

7/15/98
Date

CERTIFICATIONS:

	Reno	Las Vegas	Burbank
Arizona	AZ0520	AZ0518	AZ0325
California	1707	2002	1192
US Army Corps of Engineers	Certified	Certified	Certified

	Reno	Las Vegas	Burbank
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
Washington			Certified

NEL LABORATORIES

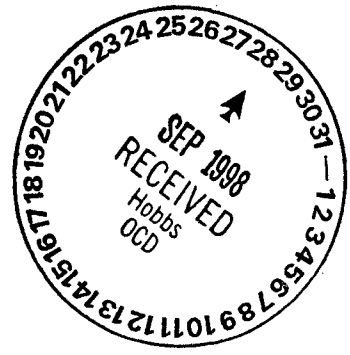
CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0247
DATE SAMPLED: 7/7/98
NEL SAMPLE ID: P9807021-01

TEST: **Volatile Organic Compounds (8240 List) by EPA 8260B, December 1996**
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 5

EXTRACTED: 7/12/98
ANALYZED: 7/12/98
ANALYST: DJH

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acetone	ND	125. µg/L	m,p-Xylene	32	25. µg/L
Benzene	78	25. µg/L	o-Xylene	ND	25. µg/L
Bromodichloromethane	ND	25. µg/L	1,2-Dichlorobenzene (o-DCB)	ND	25. µg/L
Bromoform	ND	25. µg/L	1,3-Dichlorobenzene (m-DCB)	ND	25. µg/L
Bromomethane	ND	25. µg/L	1,4-Dichlorobenzene (p-DCB)	ND	25. µg/L
2-Butanone	ND	125. µg/L			
Carbon disulfide	ND	25. µg/L			
Carbon tetrachloride	ND	25. µg/L			
Chlorobenzene	ND	25. µg/L			
Chloroethane	ND	25. µg/L			
Chloroform	ND	25. µg/L			
Chloromethane	ND	25. µg/L			
2-Chloroethylvinyl ether	ND	125. µg/L			
Dibromochloromethane	ND	25. µg/L			
1,1-Dichloroethane (1,1-DCA)	ND	25. µg/L			
1,2-Dichloroethane (1,2-DCA)	ND	25. µg/L			
1,1-Dichloroethene (1,1-DCE)	ND	25. µg/L			
cis-1,2-Dichloroethene	ND	25. µg/L			
trans-1,2-Dichloroethene	ND	25. µg/L			
1,2-Dichloropropane	ND	25. µg/L			
cis-1,3-Dichloropropene	ND	25. µg/L			
trans-1,3-Dichloropropene	ND	25. µg/L			
Ethylbenzene	ND	25. µg/L			
2-Hexanone	ND	125. µg/L			
Methylene chloride (Dichloromethane)	ND	25. µg/L			
4-Methyl-2-pentanone	ND	125. µg/L			
Styrene	ND	25. µg/L			
Tetrachloroethene (PCE)	ND	25. µg/L			
1,1,2,2-Tetrachloroethane	ND	25. µg/L			
Toluene	96	25. µg/L			
1,1,1-Trichloroethane (1,1,1-TCA)	ND	25. µg/L			
1,1,2-Trichloroethane (1,1,2-TCA)	ND	25. µg/L			
Trichloroethene (TCE)	ND	25. µg/L			
Trichlorofluoromethane (Freon 11)	ND	25. µg/L			
Vinyl chloride	ND	25. µg/L			



QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	105	86 - 115
Dibromofluoromethane	98	86 - 118
Toluene-d8	92	88 - 110

ND - Not Detected

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NEL LABORATORIES

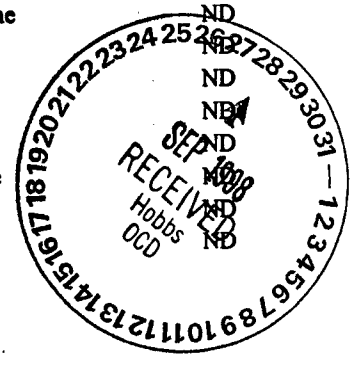
CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0247
DATE SAMPLED: 7/7/98
NEL SAMPLE ID: P9807021-01

TEST: **Semi-Volatile Organic Compounds by EPA 8270C, December 1996**
METHOD: EPA 8270
MATRIX: Aqueous
DILUTION: 10

EXTRACTED: 7/9/98
ANALYZED: 7/14/98
ANALYST: CCJ

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acenaphthene	ND	100. µg/L	2,4-Dinitrophenol	ND	500. µg/L
Acenaphthylene	ND	100. µg/L	Di-n-octyl phthalate	ND	100. µg/L
Anthracene	ND	100. µg/L	Fluoranthene	ND	100. µg/L
Benzo (a) anthracene	ND	100. µg/L	Fluorene	ND	100. µg/L
Benzo (b&k) fluoranthene	ND	100. µg/L	Hexachlorobenzene	ND	100. µg/L
Benzoic Acid	ND	500. µg/L	Hexachlorobutadiene	ND	100. µg/L
Benzo (g,h,i) perylene	ND	100. µg/L	Hexachlorocyclopentadiene	ND	100. µg/L
Benzo (a) pyrene	ND	100. µg/L	Hexachloroethane	ND	100. µg/L
Benzyl alcohol	ND	200. µg/L	Indeno (1,2,3-c,d) pyrene	ND	100. µg/L
bis (2-Chloroethyl) ether	ND	100. µg/L	Isophorone	ND	100. µg/L
bis (2-Chloroethoxy) methane	ND	100. µg/L	2-Methylnaphthalene	ND	100. µg/L
bis (2-Ethylhexyl)phthalate	ND	100. µg/L	2-Methylphenol	ND	100. µg/L
Butylbenzylphthalate	ND	100. µg/L	4-Methylphenol	ND	100. µg/L
4-Bromophenyl phenyl ether	ND	100. µg/L	Naphthalene	ND	100. µg/L
Carbazole	ND	100. µg/L	2-Nitroaniline	ND	500. µg/L
4-Chloroanaline	ND	200. µg/L	3-Nitroaniline	ND	500. µg/L
4-Chloro-3-methyl phenol	ND	200. µg/L	4-Nitroaniline	ND	200. µg/L
2-Chloronaphthalene	ND	100. µg/L	Nitrobenzene	ND	100. µg/L
2-Chlorophenol	ND	100. µg/L	2-Nitrophenol	ND	100. µg/L
4-Chlorophenyl phenyl ether	ND	100. µg/L	4-Nitrophenol	ND	500. µg/L
Chrysene	ND	100. µg/L	N-Nitrosodi-n-propylamine	ND	100. µg/L
Dibenzo (a,h) anthracene	ND	100. µg/L	N-Nitroso-Diethylamine	ND	100. µg/L
Dibenzofuran	ND	100. µg/L	N-Nitrosodiphenylamine	ND	100. µg/L
Di-n-butyl phthalate	ND	100. µg/L	Pentachlorophenol	ND	500. µg/L
1,2-Dichlorobenzene (o-DCB)	ND	100. µg/L	Phenol	ND	100. µg/L
1,3-Dichlorobenzene (m-DCB)	ND	100. µg/L	Phenanthrene	ND	100. µg/L
1,4-Dichlorobenzene (p-DCB)	ND	100. µg/L	Pyrene	ND	100. µg/L
2,4-Dichlorophenol	ND	100. µg/L	1,2,4-Trichlorobenzene	ND	100. µg/L
3,3'-Dichlorobenzidine	ND	200. µg/L	2,4,5-Trichlorophenol	ND	100. µg/L
Diethylphthalate	ND	100. µg/L	2,4,6-Trichlorophenol	ND	100. µg/L
2,4-Dimethylphenol	ND	100. µg/L			
Dimethylphthalate	ND	100. µg/L			
4,6-Dinitro-2-methyl phenol	ND	500. µg/L			
2,4-Dinitrotoluene (DNT)	ND	100. µg/L			
2,6-Dinitrotoluene (DNT)	ND	100. µg/L			



QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	D	10 - 123
2-Fluorobiphenyl	D	43 - 116
2-Fluorophenol	D	21 - 100
Nitrobenzene-d5	94	35 - 114
p-Terphenyl-d14	D	33 - 141
Phenol-d5	D	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Trip Blank
DATE SAMPLED: 7/7/98
NEL SAMPLE ID: P9807021-02

TEST: **Volatile Organic Compounds (8240 List) by EPA 8260B, December 1996**
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

EXTRACTED: 7/12/98
ANALYZED: 7/12/98
ANALYST: DJH

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acetone	ND	25. µg/L	m,p-Xylene	ND	5. µg/L
Benzene	ND	5. µg/L	o-Xylene	ND	5. µg/L
Bromodichloromethane	ND	5. µg/L	1,2-Dichlorobenzene (o-DCB)	ND	5. µg/L
Bromoform	ND	5. µg/L	1,3-Dichlorobenzene (m-DCB)	ND	5. µg/L
Bromomethane	ND	5. µg/L	1,4-Dichlorobenzene (p-DCB)	ND	5. µg/L
2-Butanone	ND	25. µg/L			
Carbon disulfide	ND	5. µg/L			
Carbon tetrachloride	ND	5. µg/L			
Chlorobenzene	ND	5. µg/L			
Chloroethane	ND	5. µg/L			
Chloroform	ND	5. µg/L			
Chloromethane	ND	5. µg/L			
2-Chloroethylvinyl ether	ND	25. µg/L			
Dibromochloromethane	ND	5. µg/L			
1,1-Dichloroethane (1,1-DCA)	ND	5. µg/L			
1,2-Dichloroethane (1,2-DCA)	ND	5. µg/L			
1,1-Dichloroethene (1,1-DCE)	ND	5. µg/L			
cis-1,2-Dichloroethene	ND	5. µg/L			
trans-1,2-Dichloroethene	ND	5. µg/L			
1,2-Dichloropropane	ND	5. µg/L			
cis-1,3-Dichloropropene	ND	5. µg/L			
trans-1,3-Dichloropropene	ND	5. µg/L			
Ethylbenzene	ND	5. µg/L			
2-Hexanone	ND	25. µg/L			
Methylene chloride (Dichloromethane)	ND	5. µg/L			
4-Methyl-2-pentanone	ND	25. µg/L			
Styrene	ND	5. µg/L			
Tetrachloroethene (PCE)	ND	5. µg/L			
1,1,2,2-Tetrachloroethane	ND	5. µg/L			
Toluene	ND	5. µg/L			
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5. µg/L			
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5. µg/L			
Trichloroethene (TCE)	ND	5. µg/L			
Trichlorofluoromethane (Freon 11)	ND	5. µg/L			
Vinyl chloride	ND	5. µg/L			



QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	108	86 - 115
Dibromofluoromethane	97	86 - 118
Toluene-d8	94	88 - 110

ND - Not Detected

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NEL LABORATORIES

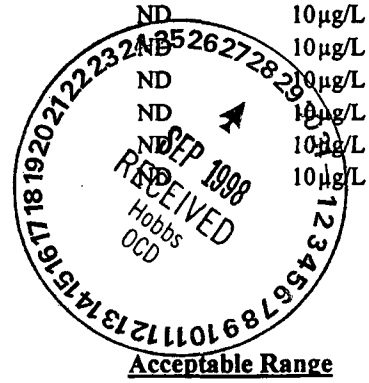
CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 070998-E1-BLK

TEST: **Volatile Organic Compounds (8240 List) by EPA 8260B, December 1996**
METHOD: EPA 8270
MATRIX: Aqueous

ANALYST: CCJ
EXTRACTED: 7/9/98
ANALYZED: 7/11/98

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acenaphthene	ND	10µg/L	2,6-Dinitrotoluene (DNT)	ND	10µg/L
Acenaphthylene	ND	10µg/L	2,4-Dinitrophenol	ND	50µg/L
Anthracene	ND	10µg/L	Di-n-octyl phthalate	ND	10µg/L
Benzo (a) anthracene	ND	10µg/L	Fluoranthene	ND	10µg/L
Benzo (b&k) fluoranthene	ND	10µg/L	Fluorene	ND	10µg/L
Benzoic Acid	ND	50µg/L	Hexachlorobenzene	ND	10µg/L
Benzo (g,h,i) perylene	ND	10µg/L	Hexachlorobutadiene	ND	10µg/L
Benzo (a) pyrene	ND	10µg/L	Hexachlorocyclopentadiene	ND	10µg/L
Benzyl alcohol	ND	20µg/L	Hexachloroethane	ND	10µg/L
bis (2-Chloroethyl) ether	ND	10µg/L	Indeno (1,2,3-c,d) pyrene	ND	10µg/L
bis (2-Chloroethoxy) methane	ND	10µg/L	Isophorone	ND	10µg/L
bis (2-Ethylhexyl)phthalate	ND	10µg/L	2-Methylnaphthalene	ND	10µg/L
Butylbenzylphthalate	ND	10µg/L	2-Methylphenol	ND	10µg/L
4-Bromophenyl phenyl ether	ND	10µg/L	4-Methylphenol	ND	10µg/L
Carbazole	ND	10µg/L	Naphthalene	ND	10µg/L
4-Chloroanaline	ND	20µg/L	2-Nitroaniline	ND	50µg/L
4-Chloro-3-methyl phenol	ND	20µg/L	3-Nitroaniline	ND	50µg/L
2-Chloronaphthalene	ND	10µg/L	4-Nitroaniline	ND	20µg/L
2-Chlorophenol	ND	10µg/L	Nitrobenzene	ND	10µg/L
4-Chlorophenyl phenyl ether	ND	10µg/L	2-Nitrophenol	ND	10µg/L
Chrysene	ND	10µg/L	4-Nitrophenol	ND	50µg/L
Dibenzo (a,h) anthracene	ND	10µg/L	N-Nitrosodi-n-propylamine	ND	10µg/L
Dibenzofuran	ND	10µg/L	N-Nitroso-Diethylamine	ND	10µg/L
Di-n-butyl phthalate	ND	10µg/L	N-Nitrosodiphenylamine	ND	10µg/L
1,2-Dichlorobenzene (o-DCB)	ND	10µg/L	Pentachlorophenol	ND	50µg/L
1,3-Dichlorobenzene (m-DCB)	ND	10µg/L	Phenol	ND	10µg/L
1,4-Dichlorobenzene (p-DCB)	ND	10µg/L	Phenanthrene	ND	10µg/L
2,4-Dichlorophenol	ND	10µg/L	Pyrene	ND	10µg/L
3,3'-Dichlorobenzidine	ND	20µg/L	1,2,4-Trichlorobenzene	ND	10µg/L
Diethylphthalate	ND	10µg/L	2,4,5-Trichlorophenol	ND	10µg/L
2,4-Dimethylphenol	ND	10µg/L	2,4,6-Trichlorophenol	ND	10µg/L
Dimethylphthalate	ND	10µg/L			
4,6-Dinitro-2-methyl phenol	ND	50µg/L			
2,4-Dinitrotoluene (DNT)	ND	10µg/L			



QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	75	10 - 123
2-Fluorobiphenyl	78	43 - 116
2-Fluorophenol	47	21 - 100
Nitrobenzene-d5	79	35 - 114
p-Terphenyl-d14	88	33 - 141
Phenol-d5	34	10 - 94

ND - Not Detected

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NEL LABORATORIES

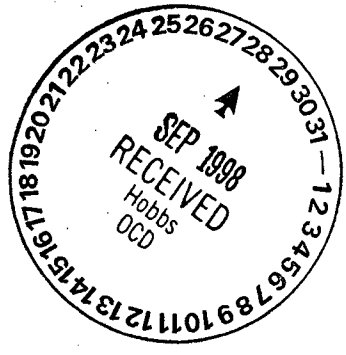
CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: 071298-V1-8240-BLK

TEST: **Volatile Organic Compounds (8240 List) by EPA 8260B, December 1996**
METHOD: EPA 8260A
MATRIX: Aqueous

ANALYST: DJH
EXTRACTED: 7/12/98
ANALYZED: 7/12/98

PARAMETER	Result µg/L	Reporting Limit	PARAMETER	Result µg/L	Reporting Limit
Acetone	ND	25 µg/L	Vinyl chloride	ND	5 µg/L
Benzene	ND	5 µg/L	m,p-Xylene	ND	5 µg/L
Bromodichloromethane	ND	5 µg/L	o-Xylene	ND	5 µg/L
Bromoform	ND	5 µg/L	1,2-Dichlorobenzene (o-DCB)	ND	5 µg/L
Bromomethane	ND	5 µg/L	1,3-Dichlorobenzene (m-DCB)	ND	5 µg/L
2-Butanone	ND	25 µg/L	1,4-Dichlorobenzene (p-DCB)	ND	5 µg/L
Carbon disulfide	ND	5 µg/L			
Carbon tetrachloride	ND	5 µg/L			
Chlorobenzene	ND	5 µg/L			
Chloroethane	ND	5 µg/L			
Chloroform	ND	5 µg/L			
Chloromethane	ND	5 µg/L			
2-Chloroethylvinyl ether	ND	25 µg/L			
Dibromochloromethane	ND	5 µg/L			
1,1-Dichloroethane (1,1-DCA)	ND	5 µg/L			
1,2-Dichloroethane (1,2-DCA)	ND	5 µg/L			
1,1-Dichloroethene (1,1-DCE)	ND	5 µg/L			
cis-1,2-Dichloroethene	ND	5 µg/L			
trans-1,2-Dichloroethene	ND	5 µg/L			
1,2-Dichloropropane	ND	5 µg/L			
cis-1,3-Dichloropropene	ND	5 µg/L			
trans-1,3-Dichloropropene	ND	5 µg/L			
Ethylbenzene	ND	5 µg/L			
2-Hexanone	ND	25 µg/L			
Methylene chloride (Dichloromethane)	ND	5 µg/L			
4-Methyl-2-pentanone	ND	25 µg/L			
Styrene	ND	5 µg/L			
Tetrachloroethene (PCE)	ND	5 µg/L			
1,1,2,2-Tetrachloroethane	ND	5 µg/L			
Toluene	ND	5 µg/L			
1,1,1-Trichloroethane (1,1,1-TCA)	ND	5 µg/L			
1,1,2-Trichloroethane (1,1,2-TCA)	ND	5 µg/L			
Trichloroethene (TCE)	ND	5 µg/L			
Trichlorofluoromethane (Freon 11)	ND	5 µg/L			



QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	100	86 - 115
Dibromofluoromethane	95	86 - 118
Toluene-d8	99	88 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **S98-0247**
DATE SAMPLED: 7/7/98
NEL SAMPLE ID: P9807021-01

TEST: **Inorganic Non-Metals**
MATRIX: Aqueous

PARAMETER	RESULT	REPORTING LIMIT	D. F.	METHOD	UNITS	ANALYZED
Cyanide, Reactive	ND	0.02	1	W846 Chapter Seve	mg/L	7/13/98
Ignitability	>212	212.	1	EPA 1010	Temp °F	7/13/98
pH	5.45	2.	1	EPA 150.1	pH Units	7/10/98
pH Temperature	20.4	1.	1	EPA 150.1	°C	7/10/98
Sulfide, Reactive	5.4	0.375	12.5	W846 Chapter Seve	mg/L	7/10/98



D.F. - Dilution Factor
ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **S98-0247**
DATE SAMPLED: 7/7/98
NEL SAMPLE ID: P9807021-01

TEST: **TCLP-8 Metals**
MATRIX: Aqueous

PARAMETER	RESULT mg/L	REPORTING LIMIT	D. F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Barium	ND	1. mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Cadmium	ND	0.01 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Chromium	ND	0.01 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Lead	ND	0.05 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	7/12/98	7/14/98	7/14/98
Selenium	ND	0.1 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Silver	ND	0.02 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98



D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: L07052HG-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Mercury	ND	0.002mg/L	10	EPA 7470A	7/12/98	7/14/98	7/14/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **Method Blank**
DATE SAMPLED: NA
NEL SAMPLE ID: L07052I-BLK

TEST: **TCLP Metals**
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D. F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Barium	ND	1 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Cadmium	ND	0.01 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Chromium	ND	0.01 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Lead	ND	0.05 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Selenium	ND	0.1 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98
Silver	ND	0.02 mg/L	1	EPA 6010A	7/12/98	7/13/98	7/13/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **Laboratory Control Spike**
DATE SAMPLED: NA
NEL SAMPLE ID: 070998-E1-LCS

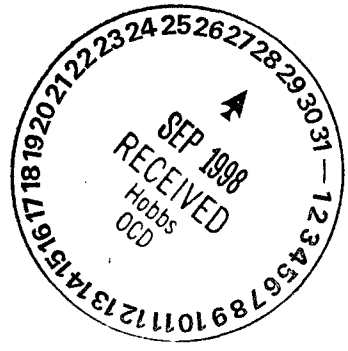
TEST: **Semi-Volatile Organic Compounds by EPA 8270C, December 1996**
MATRIX: Aqueous

ANALYST: CCJ
EXTRACTED: 7/9/98
ANALYZED: 7/11/98

PARAMETER	Percent Recovery	Acceptable Range
Acenaphthene	79	46 - 118
4-Chloro-3-methyl phenol	79	23 - 97
2-Chlorophenol	78	27 - 123
1,4-Dichlorobenzene (p-DCB)	75	36 - 97
2,4-Dinitrotoluene (DNT)	80	24 - 96
4-Nitrophenol	28	10 - 80
N-Nitrosodi-n-propylamine	82	41 - 116
Pentachlorophenol	86	9 - 103
Phenol	25	12 - 89
Pyrene	84	26 - 127
1,2,4-Trichlorobenzene	83	39 - 98

QUALITY CONTROL DATA:

Surrogate	Percent Recovery	Acceptable Range
2,4,6-Tribromophenol	78	10 - 123
2-Fluorobiphenyl	81	43 - 116
2-Fluorophenol	47	21 - 100
Nitrobenzene-d5	78	35 - 114
p-Terphenyl-d14	92	33 - 141
Phenol-d5	36	10 - 94



ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: **Laboratory Control Spike Duplicate**
DATE SAMPLED: NA
NEL SAMPLE ID: 070998-E1-LCSD

TEST: **Semi-Volatile Organic Compounds by EPA 8270C, December 1996**
MATRIX: Aqueous

ANALYST: CCJ
EXTRACTED: 7/9/98
ANALYZED: 7/11/98

PARAMETER	Percent Recovery	Acceptable Range	RPD
Acenaphthene	61	46 - 118	25.8
4-Chloro-3-methyl phenol	66	23 - 97	18.2
2-Chlorophenol	64	27 - 123	20.1
1,4-Dichlorobenzene (p-DCB)	57	36 - 97	27.3
2,4-Dinitrotoluene (DNT)	63	24 - 96	23.2
4-Nitrophenol	25	10 - 80	11.4
N-Nitrosodi-n-propylamine	71	41 - 116	14.8
Pentachlorophenol	75	9 - 103	13.2
Phenol	20	12 - 89	24.3
Pyrene	67	26 - 127	22.8
1,2,4-Trichlorobenzene	63	39 - 98	27.8

QUALITY CONTROL DATA:

Surrogate	Percent Recovery	Acceptable Range
2,4,6-Tribromophenol	63	10 - 123
2-Fluorobiphenyl	66	43 - 116
2-Fluorophenol	37	21 - 100
Nitrobenzene-d5	62	35 - 114
p-Terphenyl-d14	66	33 - 141
Phenol-d5	29	10 - 94



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Laboratory Control Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	071298-V1-8240-LCS

TEST: **Volatile Organic Compounds (8240 List) by EPA 8260B, December 1996**

MATRIX:	Aqueous	ANALYST:	DJH
		EXTRACTED:	7/12/98
		ANALYZED:	7/12/98

PARAMETER	Percent Recovery	Acceptable Range
Benzene	105	76 - 127
Chlorobenzene	103	75 - 130
1,1-Dichloroethene (1,1-DCE)	97	61 - 145
Toluene	102	76 - 125
Trichloroethene (TCE)	101	71 - 120

QUALITY CONTROL DATA:

Surrogate	Percent Recovery	Acceptable Range
4-Bromofluorobenzene	98	86 - 115
Dibromofluoromethane	96	86 - 118
Toluene-d8	100	88 - 110



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Laboratory Control Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	980710PHAQ-LCS
TEST:	**pH**		
MATRIX:	Aqueous	ANALYST:	Brett
		EXTRACTED:	7/10/98
		ANALYZED:	7/10/98

PARAMETER	Percent Recovery	Acceptable Range
7.00 Buffer	99	99 - 101



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Laboratory Control Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	980710SULF-LCS
TEST:	**Inorganic Non-Metals**		
MATRIX:	Waste Water	ANALYST:	Brett
		EXTRACTED:	7/10/98
		ANALYZED:	7/10/98

PARAMETER	Percent Recovery	Acceptable Range
Sulfide	96	85 - 115



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Laboratory Control Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	L07052HG-LCS
TEST:	**TCLP Metals**		
MATRIX:	Solid	ANALYST:	JPF
		EXTRACTED:	7/14/98
		ANALYZED:	7/14/98

PARAMETER	Percent Recovery	Acceptable Range
Mercury	104	85 - 115



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Laboratory Control Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	980713flash-LCS
TEST:	**Ignitability by SW846 1010**		
MATRIX:	Aqueous	ANALYST:	Brett
		EXTRACTED:	7/14/98
		ANALYZED:	7/13/98

PARAMETER	Percent Recovery	Acceptable Range
Ignitability	101	102 - 98



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Matrix Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	L9807052-01-MS
TEST:	**TCLP Metals**		
MATRIX:	Solid	ANALYST:	JPF
		EXTRACTED:	7/14/98
		ANALYZED:	7/14/98

PARAMETER	Percent Recovery	Acceptable Range
Mercury	101	85 - 115



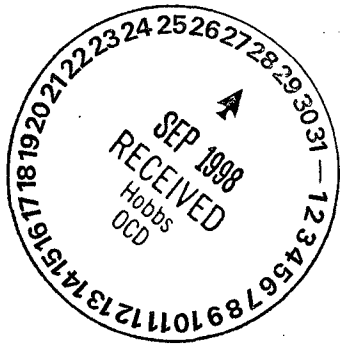
ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Matrix Spike Duplicate**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	L9807052-01-MSD
TEST:	**TCLP Metals**		
MATRIX:	Solid	ANALYST:	JPF
		EXTRACTED:	7/14/98
		ANALYZED:	7/14/98

PARAMETER	Percent Recovery	Acceptable Range	RPD
Mercury	101	85 - 115	0.2



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Laboratory Control Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	L07052I-LCS
TEST:	**TCLP Metals**		
MATRIX:	Solid	ANALYST:	JPF
		EXTRACTED:	7/13/98
		ANALYZED:	7/13/98

PARAMETER	Percent Recovery	Acceptable Range
Arsenic	108	85 - 115
Silver	104	85 - 115
Barium	102	85 - 115
Cadmium	107	85 - 115
Chromium	103	85 - 115
Lead	104	85 - 115
Selenium	109	85 - 115



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Matrix Spike**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	L9807052-01-MS
TEST:	**TCLP Metals**		
MATRIX:	Solid	ANALYST:	JPF
		EXTRACTED:	7/13/98
		ANALYZED:	7/13/98

PARAMETER	Percent Recovery	Acceptable Range
Silver	108	75 - 125
Arsenic	110	75 - 125
Barium	103	75 - 125
Cadmium	107	75 - 125
Chromium	94	75 - 125
Lead	99	75 - 125
Selenium	122	75 - 125



ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	**Matrix Spike Duplicate**
PROJECT ID:		DATE SAMPLED:	NA
PROJECT #:		NEL SAMPLE ID:	L9807052-01-MSD
TEST:	**TCLP Metals**		
MATRIX:	Solid	ANALYST:	JPF
		EXTRACTED:	7/13/98
		ANALYZED:	7/13/98

PARAMETER	Percent Recovery	Acceptable Range	RPD
Arsenic	111	75 - 125	1.1
Silver	104	75 - 125	4.
Barium	106	75 - 125	2.9
Cadmium	106	75 - 125	0.9
Chromium	89	75 - 125	5.9
Lead	99	75 - 125	0.3
Selenium	125	75 - 125	2.8



ND - Not Detected

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District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

RECEIVED
JUN 02 1998
Environmental
Oil Conservation Division

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Transwestern Pipeline
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Atoka 1,2,&3
2. Management Facility Destination Gandy Marley Inc	6. Transporter R&R Recycling
3. Address of Facility Operator P.O. Box 1658 Roswell 88202	8. State N.M.
7. Location of Material (Street Address or ULSTR) Artesia dist.	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

contaminated soil from drain line leaks

MAY 1998 RECEIVED Hobbs OCD

Sent to Hobbs 6/2/98

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy (Waste Management Facility Authorized Agent) TITLE: vice-pres DATE: 5-21-98

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: Envir Engr DATE: 5/29/98

APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 6/2/98

O. Box 1980
obbs, NM 88241-1980
istrict II - (505) 748-1283
11 S. First
rtesia, NM 88210
District III - (505) 334-6178
000 Rio Brazos Road
ztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

JUN [illegible]
RECEIVED
OCD - ARTESIA

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Transwestern Pipeline
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Atoka 1,2,&3
2. Management Facility Destination Gandy Marley Inc	6. Transporter R&R Recycling
3. Address of Facility Operator P.O. Box 1658 Roswell 88202	8. State N.M.
7. Location of Material (Street Address or ULSTR) Artesia dist.	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

contaminated soil from drain line leaks

MAY 1998
RECEIVED
Hobbs
OCD

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: vice-pres DATE: 5-21-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: [signature] TITLE: Env Engr TLG 6/1/98 DATE: 5/29/98

APPROVED BY: _____ TITLE: _____ DATE: _____

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

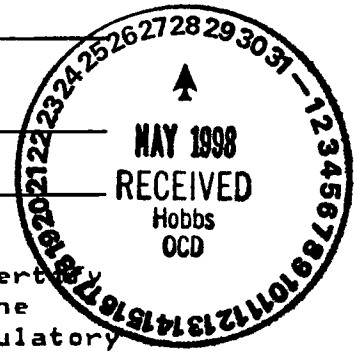
CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: ATOKA #1 - ATOKA #2 - ATOKA #3
ARTESIA NEW MEXICO

Source: DRAIN LINE Leaks

Disposal Location: 34 miles west of Tatum on hiway 380



"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for Trans western Pipeline concur with the status of the waste from the subject site.

Name JAMES R. RUSSELL

Title/Agency ENV. SPEC.
TRANSWESTERN PIPELINE

Address 4001 INDIAN SCHOOL RD
ALBUQUERQUE, N.M 87110

Signature James R. Russell

Date 5-19-98

Pace Analytical

Pace Analytical Services, Inc.
1000 Riverbend Blvd, Suite F
St. Rose, LA 70087
Tel: 504-469-0333
Fax: 504-469-0555

Larry Campbell
Transwestern Pipeline
6381 N. Main Street
Roswell, NM 88201

COPY

Project: ATOKA
Site:
Episode: MAH

To: Larry Campbell

Enclosed please find the analytical results for sample(s) received by Pace Analytical Services, Inc. - New Orleans.

This report contains a summary of the quality control data associated with the analyses as well as copies of the chain-of-custody documents.

You may direct any inquires concerning this report to your Project Manager, or any one of the Project Managers listed below:

Ms. Karen H. Brown, Manager, Ext. 325
Mr. William R. Shackelford, Ext. 326
Ms. Cindy Olavesen, Ext. 327

Sincerely,

Project Manager

5/13/96
Date

Enclosures

Pace Analytical Services, Inc. - New Orleans
Sample Cross Reference Summary

Episode: MAH Client: Transwestern Pipeline

Project: ATOKA

Site:

Lab ID	Client ID	Description	Matrix	Collected	Received
MAH-001	ATOKA #1 732		Soil	04/21/98	04/24/98
MAH-002	ATOKA #1 720		Soil	04/21/98	04/24/98
MAH-003	ATOKA #3 822		Soil	04/21/98	04/24/98
MAH-004	ATOKA #3 845		Soil	04/21/98	04/24/98
MAH-005	ATOKA #3 762		Soil	04/21/98	04/24/98
MAH-006	ATOKA #2 DRAIN	DRAIN LINE	Soil	04/21/98	04/24/98
MAH-007	ATOKA #2 BULK	BULK TANK	Soil	04/21/98	04/24/98

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #1 732 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-001 **Episode:** MAH **Sample Qu:** M1 M2

Description: None **Matrix:** Soil **% Moisture:** 5

Method: Low Soil SW 8260 Volatile Organics **Batch:** 26135 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 04-May-98 22:22 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	93.1	A11	10.5	
71-43-2	Benzene	1	ND		5.25	
75-27-4	Bromodichloromethane	1	ND		5.25	
75-25-2	Bromoform	1	ND		5.25	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.5	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	83.2		10.5	
75-15-0	Carbon disulfide	1	ND		5.25	
56-23-5	Carbon tetrachloride	1	ND		5.25	
108-90-7	Chlorobenzene	1	ND		5.25	
75-00-3	Chloroethane	1	ND		10.5	
67-66-3	Chloroform	1	ND		5.25	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.5	
124-48-1	Dibromochloromethane	1	ND		5.25	
75-34-3	1,1-Dichloroethane	1	ND		5.25	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.25	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.25	
540-59-0	1,2-Dichloroethene (total)	1	ND		5.25	
78-87-5	1,2-Dichloropropane	1	ND		5.25	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.25	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.25	
100-41-4	Ethylbenzene	1	15.2		5.25	
591-78-6	2-Hexanone	1	ND		10.5	
75-09-2	Methylene chloride (Dichloromethane)	1	42.6	A11	5.25	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	117		10.5	
100-42-5	Styrene	1	ND		5.25	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.25	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.25	
108-88-3	Toluene	1	24.2		5.25	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.25	
79-00-5	1,1,2-Trichloroethane	1	ND		5.25	
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.25	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.5	
1330-20-7	Xylene (total)	1	140		5.25	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #1 732	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-001	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 M2 **% Moisture:** 5 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 16:02 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	4	ND		1400	
208-96-8	Acenaphthylene	4	ND		1400	
120-12-7	Anthracene	4	ND		1400	
56-55-3	Benzo(a)anthracene	4	ND		1400	
205-99-2	Benzo(b)fluoranthene	4	ND		1400	
207-08-09	Benzo(k)fluoranthene	4	ND		1400	
65-85-0	Benzoic acid	4	ND		3500	
191-24-2	Benzo(g,h,i)perylene	4	ND		1400	
50-32-8	Benzo(a)pyrene	4	ND		1400	
100-51-6	Benzyl alcohol	4	ND		1400	
101-55-3	4-Bromophenyl phenyl ether	4	ND		1400	
85-68-7	Butylbenzylphthalate	4	ND		1400	
106-47-8	4-Chloroaniline (p-Chloroaniline)	4	ND		1400	
111-91-1	bis(2-Chloroethoxy)methane	4	ND		1400	
111-44-4	bis(2-Chloroethyl) ether	4	ND		1400	
108-60-1	bis(2-Chloroisopropyl) ether	4	ND		1400	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	4	ND		1400	
91-58-7	2-Chloronaphthalene	4	ND		1400	
95-57-8	2-Chlorophenol (o-Chlorophenol)	4	ND		1400	
7005-72-3	4-Chlorophenyl phenyl ether	4	ND		1400	
218-01-9	Chrysene	4	ND		1400	
53-70-3	Dibenz(a,h)anthracene	4	ND		1400	
132-64-9	Dibenzofuran	4	ND		1400	
84-74-2	Di-n-butylphthalate	4	ND		1400	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	4	ND		1400	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	4	ND		1400	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	4	ND		1400	
91-94-1	3,3'-Dichlorobenzidine	4	ND		2800	
120-83-2	2,4-Dichlorophenol	4	ND		1400	
84-66-2	Diethylphthalate	4	ND		1400	
105-67-9	2,4-Dimethylphenol	4	ND		1400	
131-11-3	Dimethylphthalate	4	ND		1400	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	4	ND		3500	
51-28-5	2,4-Dinitrophenol	4	ND		3500	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #1 732 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-001 **Episode:** MAH **Sample Qu:** D6 M2

Description: None **Matrix:** Soil **% Moisture:** 5

Method: Low Soil SW 8270 Semivolatile Organics **Batch:** 26131 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 16:02 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	4	ND		1400	
606-20-2	2,6-Dinitrotoluene	4	ND		1400	
117-84-0	Di-n-octylphthalate	4	ND		1400	
117-81-7	bis(2-Ethylhexyl)phthalate	4	ND		1400	
206-44-0	Fluoranthene	4	ND		1400	
86-73-7	Fluorene	4	ND		1400	
118-74-1	Hexachlorobenzene	4	ND		1400	
87-68-3	Hexachlorobutadiene	4	ND		1400	
77-47-4	Hexachlorocyclopentadiene	4	ND		1400	
67-72-1	Hexachloroethane	4	ND		1400	
193-39-5	Indeno(1,2,3-cd)pyrene	4	ND		1400	
78-59-1	Isophorone	4	ND		1400	
91-57-6	2-Methylnaphthalene	4	ND		1400	
95-48-7	2-Methylphenol (o-Cresol)	4	ND		1400	
106-44-5	4-Methylphenol (p-Cresol)	4	ND		1400	
91-20-3	Naphthalene	4	ND		1400	
88-74-4	2-Nitroaniline (o-Nitroaniline)	4	ND		3500	
99-09-2	3-Nitroaniline (m-Nitroaniline)	4	ND		3500	
100-01-6	4-Nitroaniline (p-Nitroaniline)	4	ND		3500	
98-95-3	Nitrobenzene	4	ND		1400	
88-75-5	2-Nitrophenol (o-Nitrophenol)	4	ND		1400	
100-02-7	4-Nitrophenol (p-Nitrophenol)	4	ND		3500	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	4	ND	A10	1400	
621-64-7	N-Nitroso-di-n-propylamine	4	ND		1400	
87-86-5	Pentachlorophenol	4	ND		3500	
85-01-8	Phenanthrene	4	ND		1400	
108-95-2	Phenol	4	ND		1400	
129-00-0	Pyrene	4	ND		1400	
120-82-1	1,2,4-Trichlorobenzene	4	ND		1400	
95-95-4	2,4,5-Trichlorophenol	4	ND		3500	
88-06-2	2,4,6-Trichlorophenol	4	ND		1400	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #1 720	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-002	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu:

% Moisture: 6

Units: ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 15:20 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	1	ND		353	
208-96-8	Acenaphthylene	1	ND		353	
120-12-7	Anthracene	1	ND		353	
56-55-3	Benzo(a)anthracene	1	ND		353	
205-99-2	Benzo(b)fluoranthene	1	ND		353	
207-08-09	Benzo(k)fluoranthene	1	ND		353	
65-85-0	Benzoic acid	1	ND		883	
191-24-2	Benzo(g,h,i)perylene	1	ND		353	
50-32-8	Benzo(a)pyrene	1	ND		353	
100-51-6	Benzyl alcohol	1	ND		353	
101-55-3	4-Bromophenyl phenyl ether	1	ND		353	
85-68-7	Butylbenzylphthalate	1	ND		353	
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		353	
111-91-1	bis(2-Chloroethoxy)methane	1	ND		353	
111-44-4	bis(2-Chloroethyl) ether	1	ND		353	
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		353	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		353	
91-58-7	2-Chloronaphthalene	1	ND		353	
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		353	
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		353	
218-01-9	Chrysene	1	ND		353	
53-70-3	Dibenz(a,h)anthracene	1	ND		353	
132-64-9	Dibenzofuran	1	ND		353	
84-74-2	Di-n-butylphthalate	1	ND		353	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		353	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		353	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		353	
91-94-1	3,3'-Dichlorobenzidine	1	ND		707	
120-83-2	2,4-Dichlorophenol	1	ND		353	
84-66-2	Diethylphthalate	1	ND		353	
105-67-9	2,4-Dimethylphenol	1	ND		353	
131-11-3	Dimethylphthalate	1	ND		353	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		883	
51-28-5	2,4-Dinitrophenol	1	ND		883	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #1 720 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-002 **Episode:** MAH **Sample Qu:** M1 M2

Description: None **Matrix:** Soil **% Moisture:** 6

Method: Low Soil SW 8260 Volatile Organics **Batch:** 26135 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 04-May-98 22:50 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	81.6	A11	10.6	
71-43-2	Benzene	1	ND		5.30	
75-27-4	Bromodichloromethane	1	ND		5.30	
75-25-2	Bromoform	1	ND		5.30	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.6	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.6	
75-15-0	Carbon disulfide	1	ND		5.30	
56-23-5	Carbon tetrachloride	1	ND		5.30	
108-90-7	Chlorobenzene	1	ND		5.30	
75-00-3	Chloroethane	1	ND		10.6	
67-66-3	Chloroform	1	ND		5.30	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.6	
124-48-1	Dibromochloromethane	1	ND		5.30	
75-34-3	1,1-Dichloroethane	1	ND		5.30	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.30	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.30	
540-59-0	1,2-Dichloroethene (total)	1	ND		5.30	
78-87-5	1,2-Dichloropropane	1	ND		5.30	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.30	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.30	
100-41-4	Ethylbenzene	1	ND		5.30	
591-78-6	2-Hexanone	1	ND		10.6	
75-09-2	Methylene chloride (Dichloromethane)	1	30.6	A11	5.30	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.6	
100-42-5	Styrene	1	ND		5.30	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.30	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.30	
108-88-3	Toluene	1	ND		5.30	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.30	
79-00-5	1,1,2-Trichloroethane	1	ND		5.30	
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.30	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.6	
1330-20-7	Xylene (total)	1	6.90		5.30	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:24:13

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #1 720	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-002	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu:

% Moisture: 6

Units: ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 15:20 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	1	ND		353	
606-20-2	2,6-Dinitrotoluene	1	ND		353	
117-84-0	Di-n-octylphthalate	1	ND		353	
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		353	
206-44-0	Fluoranthene	1	ND		353	
86-73-7	Fluorene	1	ND		353	
118-74-1	Hexachlorobenzene	1	ND		353	
87-68-3	Hexachlorobutadiene	1	ND		353	
77-47-4	Hexachlorocyclopentadiene	1	ND		353	
67-72-1	Hexachloroethane	1	ND		353	
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		353	
78-59-1	Isophorone	1	ND		353	
91-57-6	2-Methylnaphthalene	1	ND		353	
95-48-7	2-Methylphenol (o-Cresol)	1	ND		353	
106-44-5	4-Methylphenol (p-Cresol)	1	ND		353	
91-20-3	Naphthalene	1	ND		353	
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		883	
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		883	
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		883	
98-95-3	Nitrobenzene	1	ND		353	
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		353	
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		883	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	353	
621-64-7	N-Nitroso-di-n-propylamine	1	ND		353	
87-86-5	Pentachlorophenol	1	ND		883	
85-01-8	Phenanthrene	1	ND		353	
108-95-2	Phenol	1	ND		353	
129-00-0	Pyrene	1	ND		353	
120-82-1	1,2,4-Trichlorobenzene	1	ND		353	
95-95-4	2,4,5-Trichlorophenol	1	ND		883	
88-06-2	2,4,6-Trichlorophenol	1	ND		353	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #3 822 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-003 **Episode:** MAH **Sample Qu:** M1 M2

Description: None **Matrix:** Soil **% Moisture:** 5

Method: Low Soil SW 8260 Volatile Organics **Batch:** 26135 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 04-May-98 23:18 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	93.0	A11	10.5	
71-43-2	Benzene	1	ND		5.25	
75-27-4	Bromodichloromethane	1	ND		5.25	
75-25-2	Bromoform	1	ND		5.25	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.5	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.5	
75-15-0	Carbon disulfide	1	ND		5.25	
56-23-5	Carbon tetrachloride	1	ND		5.25	
108-90-7	Chlorobenzene	1	ND		5.25	
75-00-3	Chloroethane	1	ND		10.5	
67-66-3	Chloroform	1	ND		5.25	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.5	
124-48-1	Dibromochloromethane	1	ND		5.25	
75-34-3	1,1-Dichloroethane	1	ND		5.25	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.25	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.25	
540-59-0	1,2-Dichloroethene (total)	1	ND		5.25	
78-87-5	1,2-Dichloropropane	1	ND		5.25	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.25	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.25	
100-41-4	Ethylbenzene	1	ND		5.25	
591-78-6	2-Hexanone	1	ND		10.5	
75-09-2	Methylene chloride (Dichloromethane)	1	42.9	A11	5.25	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	57.9		10.5	
100-42-5	Styrene	1	ND		5.25	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.25	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.25	
108-88-3	Toluene	1	ND		5.25	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.25	
79-00-5	1,1,2-Trichloroethane	1	ND		5.25	
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.25	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.5	
1330-20-7	Xylene (total)	1	8.32		5.25	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #3 822	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-003	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 **% Moisture:** 5 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 18:09 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	10	ND		3500	
208-96-8	Acenaphthylene	10	ND		3500	
120-12-7	Anthracene	10	ND		3500	
56-55-3	Benzo(a)anthracene	10	ND		3500	
205-99-2	Benzo(b)fluoranthene	10	ND		3500	
207-08-09	Benzo(k)fluoranthene	10	ND		3500	
65-85-0	Benzoic acid	10	ND		8750	
191-24-2	Benzo(g,h,i)perylene	10	ND		3500	
50-32-8	Benzo(a)pyrene	10	ND		3500	
100-51-6	Benzyl alcohol	10	ND		3500	
101-55-3	4-Bromophenyl phenyl ether	10	ND		3500	
85-68-7	Butylbenzylphthalate	10	ND		3500	
106-47-8	4-Chloroaniline (p-Chloroaniline)	10	ND		3500	
111-91-1	bis(2-Chloroethoxy)methane	10	ND		3500	
111-44-4	bis(2-Chloroethyl) ether	10	ND		3500	
108-60-1	bis(2-Chloroisopropyl) ether	10	ND		3500	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	10	ND		3500	
91-58-7	2-Chloronaphthalene	10	ND		3500	
95-57-8	2-Chlorophenol (o-Chlorophenol)	10	ND		3500	
7005-72-3	4-Chlorophenyl phenyl ether	10	ND		3500	
218-01-9	Chrysene	10	ND		3500	
53-70-3	Dibenz(a,h)anthracene	10	ND		3500	
132-64-9	Dibenzofuran	10	ND		3500	
84-74-2	Di-n-butylphthalate	10	ND		3500	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	10	ND		3500	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	10	ND		3500	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	10	ND		3500	
91-94-1	3,3'-Dichlorobenzidine	10	ND		7000	
120-83-2	2,4-Dichlorophenol	10	ND		3500	
84-66-2	Diethylphthalate	10	ND		3500	
105-67-9	2,4-Dimethylphenol	10	ND		3500	
131-11-3	Dimethylphthalate	10	ND		3500	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	10	ND		8750	
51-28-5	2,4-Dinitrophenol	10	ND		8750	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #3 822 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-003 **Episode:** MAH **Sample Qu:** D6

Description: None **Matrix:** Soil **% Moisture:** 5

Method: Low Soil SW 8270 Semivolatile Organics **Batch:** 26131 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 18:09 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	10	ND		3500	
606-20-2	2,6-Dinitrotoluene	10	ND		3500	
117-84-0	Di-n-octylphthalate	10	ND		3500	
117-81-7	bis(2-Ethylhexyl)phthalate	10	ND		3500	
206-44-0	Fluoranthene	10	ND		3500	
86-73-7	Fluorene	10	ND		3500	
118-74-1	Hexachlorobenzene	10	ND		3500	
87-68-3	Hexachlorobutadiene	10	ND		3500	
77-47-4	Hexachlorocyclopentadiene	10	ND		3500	
67-72-1	Hexachloroethane	10	ND		3500	
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND		3500	
78-59-1	Isophorone	10	ND		3500	
91-57-6	2-Methylnaphthalene	10	ND		3500	
95-48-7	2-Methylphenol (o-Cresol)	10	ND		3500	
106-44-5	4-Methylphenol (p-Cresol)	10	ND		3500	
91-20-3	Naphthalene	10	ND		3500	
88-74-4	2-Nitroaniline (o-Nitroaniline)	10	ND		8750	
99-09-2	3-Nitroaniline (m-Nitroaniline)	10	ND		8750	
100-01-6	4-Nitroaniline (p-Nitroaniline)	10	ND		8750	
98-95-3	Nitrobenzene	10	ND		3500	
88-75-5	2-Nitrophenol (o-Nitrophenol)	10	ND		3500	
100-02-7	4-Nitrophenol (p-Nitrophenol)	10	ND		8750	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	10	ND	A10	3500	
621-64-7	N-Nitroso-di-n-propylamine	10	ND		3500	
87-86-5	Pentachlorophenol	10	ND		8750	
85-01-8	Phenanthrene	10	ND		3500	
108-95-2	Phenol	10	ND		3500	
129-00-0	Pyrene	10	ND		3500	
120-82-1	1,2,4-Trichlorobenzene	10	ND		3500	
95-95-4	2,4,5-Trichlorophenol	10	ND		8750	
88-06-2	2,4,6-Trichlorophenol	10	ND		3500	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #3 845	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-004	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8260 Volatile Organics	**Batch:**	26135

Sample Qu: M1 M2
% Moisture: 9
Units: ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 04-May-98 23:46 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	65.7	A11	11.0	
71-43-2	Benzene	1	ND		5.50	
75-27-4	Bromodichloromethane	1	ND		5.50	
75-25-2	Bromoform	1	ND		5.50	
74-83-9	Bromomethane (Methyl bromide)	1	ND		11.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		11.0	
75-15-0	Carbon disulfide	1	ND		5.50	
56-23-5	Carbon tetrachloride	1	ND		5.50	
108-90-7	Chlorobenzene	1	ND		5.50	
75-00-3	Chloroethane	1	ND		11.0	
67-66-3	Chloroform	1	ND		5.50	
74-87-3	Chloromethane (Methyl chloride)	1	ND		11.0	
124-48-1	Dibromochloromethane	1	ND		5.50	
75-34-3	1,1-Dichloroethane	1	ND		5.50	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.50	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.50	
540-59-0	1,2-Dichloroethene (total)	1	ND		5.50	
78-87-5	1,2-Dichloropropane	1	ND		5.50	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.50	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.50	
100-41-4	Ethylbenzene	1	ND		5.50	
591-78-6	2-Hexanone	1	ND		11.0	
75-09-2	Methylene chloride (Dichloromethane)	1	25.1	A11	5.50	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	11.3		11.0	
100-42-5	Styrene	1	ND		5.50	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.50	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.50	
108-88-3	Toluene	1	ND		5.50	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.50	
79-00-5	1,1,2-Trichloroethane	1	ND		5.50	
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.50	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		11.0	
1330-20-7	Xylene (total)	1	ND		5.50	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #3 845 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-004 **Episode:** MAH **Sample Qu:** D6

Description: None **Matrix:** Soil **% Moisture:** 9

Method: Low Soil SW 8270 Semivolatile Organics **Batch:** 26131 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 16:45 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	4	ND		1470	
208-96-8	Acenaphthylene	4	ND		1470	
120-12-7	Anthracene	4	ND		1470	
56-55-3	Benzo(a)anthracene	4	ND		1470	
205-99-2	Benzo(b)fluoranthene	4	ND		1470	
207-08-09	Benzo(k)fluoranthene	4	ND		1470	
65-85-0	Benzoic acid	4	ND		3670	
191-24-2	Benzo(g,h,i)perylene	4	ND		1470	
50-32-8	Benzo(a)pyrene	4	ND		1470	
100-51-6	Benzyl alcohol	4	ND		1470	
101-55-3	4-Bromophenyl phenyl ether	4	ND		1470	
85-68-7	Butylbenzylphthalate	4	ND		1470	
106-47-8	4-Chloroaniline (p-Chloroaniline)	4	ND		1470	
111-91-1	bis(2-Chloroethoxy)methane	4	ND		1470	
111-44-4	bis(2-Chloroethyl) ether	4	ND		1470	
108-60-1	bis(2-Chloroisopropyl) ether	4	ND		1470	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	4	ND		1470	
91-58-7	2-Chloronaphthalene	4	ND		1470	
95-57-8	2-Chlorophenol (o-Chlorophenol)	4	ND		1470	
7005-72-3	4-Chlorophenyl phenyl ether	4	ND		1470	
218-01-9	Chrysene	4	ND		1470	
53-70-3	Dibenz(a,h)anthracene	4	ND		1470	
132-64-9	Dibenzofuran	4	ND		1470	
84-74-2	Di-n-butylphthalate	4	ND		1470	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	4	ND		1470	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	4	ND		1470	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	4	ND		1470	
91-94-1	3,3'-Dichlorobenzidine	4	ND		2930	
120-83-2	2,4-Dichlorophenol	4	ND		1470	
84-66-2	Diethylphthalate	4	ND		1470	
105-67-9	2,4-Dimethylphenol	4	ND		1470	
131-11-3	Dimethylphthalate	4	ND		1470	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	4	ND		3670	
51-28-5	2,4-Dinitrophenol	4	ND		3670	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #3 845	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-004	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 **% Moisture:** 9 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 16:45 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	4	ND		1470	
606-20-2	2,6-Dinitrotoluene	4	ND		1470	
117-84-0	Di-n-octylphthalate	4	ND		1470	
117-81-7	bis(2-Ethylhexyl)phthalate	4	ND		1470	
206-44-0	Fluoranthene	4	ND		1470	
86-73-7	Fluorene	4	ND		1470	
118-74-1	Hexachlorobenzene	4	ND		1470	
87-68-3	Hexachlorobutadiene	4	ND		1470	
77-47-4	Hexachlorocyclopentadiene	4	ND		1470	
67-72-1	Hexachloroethane	4	ND		1470	
193-39-5	Indeno(1,2,3-cd)pyrene	4	ND		1470	
78-59-1	Isophorone	4	ND		1470	
91-57-6	2-Methylnaphthalene	4	ND		1470	
95-48-7	2-Methylphenol (o-Cresol)	4	ND		1470	
106-44-5	4-Methylphenol (p-Cresol)	4	ND		1470	
91-20-3	Naphthalene	4	ND		1470	
88-74-4	2-Nitroaniline (o-Nitroaniline)	4	ND		3670	
99-09-2	3-Nitroaniline (m-Nitroaniline)	4	ND		3670	
100-01-6	4-Nitroaniline (p-Nitroaniline)	4	ND		3670	
98-95-3	Nitrobenzene	4	ND		1470	
88-75-5	2-Nitrophenol (o-Nitrophenol)	4	ND		1470	
100-02-7	4-Nitrophenol (p-Nitrophenol)	4	ND		3670	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	4	ND	A10	1470	
621-64-7	N-Nitroso-di-n-propylamine	4	ND		1470	
87-86-5	Pentachlorophenol	4	ND		3670	
85-01-8	Phenanthrene	4	ND		1470	
108-95-2	Phenol	4	ND		1470	
129-00-0	Pyrene	4	ND		1470	
120-82-1	1,2,4-Trichlorobenzene	4	ND		1470	
95-95-4	2,4,5-Trichlorophenol	4	ND		3670	
88-06-2	2,4,6-Trichlorophenol	4	ND		1470	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #3 762 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-005 **Episode:** MAH **Sample Qu:** D2 M2

Description: None **Matrix:** Soil **% Moisture:** 2

Method: Low Soil SW 8260 Volatile Organics **Batch:** 26135 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** **Analyzed:** 05-May-98 0:14 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	5	256	A11 D2	51.0	
71-43-2	Benzene	5	ND	D2	25.5	
75-27-4	Bromodichloromethane	5	ND	D2	25.5	
75-25-2	Bromoform	5	ND	D2	25.5	
74-83-9	Bromomethane (Methyl bromide)	5	ND	D2	51.0	
78-93-3	2-Butanone (Methyl ethyl ketone)	5	1300	D2	51.0	
75-15-0	Carbon disulfide	5	ND	D2	25.5	
56-23-5	Carbon tetrachloride	5	ND	D2	25.5	
108-90-7	Chlorobenzene	5	ND	D2	25.5	
75-00-3	Chloroethane	5	ND	D2	51.0	
67-66-3	Chloroform	5	ND	D2	25.5	
74-87-3	Chloromethane (Methyl chloride)	5	ND	D2	51.0	
124-48-1	Dibromochloromethane	5	ND	D2	25.5	
75-34-3	1,1-Dichloroethane	5	ND	D2	25.5	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	5	ND	D2	25.5	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	5	ND	D2	25.5	
540-59-0	1,2-Dichloroethene (total)	5	ND	D2	25.5	
78-87-5	1,2-Dichloropropane	5	ND	D2	25.5	
10061-01-5	cis-1,3-Dichloropropene	5	ND	D2	25.5	
10061-02-6	trans-1,3-Dichloropropene	5	ND	D2	25.5	
100-41-4	Ethylbenzene	5	ND	D2	25.5	
591-78-6	2-Hexanone	5	ND	D2	51.0	
75-09-2	Methylene chloride (Dichloromethane)	5	164	A11 D2	25.5	
108-10-1	4-Methyl-2-pentanone (MIBK)	5	775	D2	51.0	
100-42-5	Styrene	5	ND	D2	25.5	
79-34-5	1,1,2,2-Tetrachloroethane	5	ND	D2	25.5	
127-18-4	Tetrachloroethene (Perchloroethylene)	5	ND	D2	25.5	
108-88-3	Toluene	5	ND	D2	25.5	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	5	ND	D2	25.5	
79-00-5	1,1,2-Trichloroethane	5	ND	D2	25.5	
79-01-6	Trichloroethene (Trichloroethylene)	5	ND	D2	25.5	
75-01-4	Vinyl chloride (Chloroethene)	5	ND	D2	51.0	
1330-20-7	Xylene (total)	5	ND	D2	25.5	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #3 762	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-005	**Episode:**	MAH
Description:	None	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 M2 **% Moisture:** 2 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 18:52 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	10	ND		3400	
208-96-8	Acenaphthylene	10	ND		3400	
120-12-7	Anthracene	10	ND		3400	
56-55-3	Benzo(a)anthracene	10	ND		3400	
205-99-2	Benzo(b)fluoranthene	10	ND		3400	
207-08-09	Benzo(k)fluoranthene	10	ND		3400	
65-85-0	Benzoic acid	10	ND		8500	
191-24-2	Benzo(g,h,i)perylene	10	ND		3400	
50-32-8	Benzo(a)pyrene	10	ND		3400	
100-51-6	Benzyl alcohol	10	ND		3400	
101-55-3	4-Bromophenyl phenyl ether	10	ND		3400	
85-68-7	Butylbenzylphthalate	10	ND		3400	
106-47-8	4-Chloroaniline (p-Chloroaniline)	10	ND		3400	
111-91-1	bis(2-Chloroethoxy)methane	10	ND		3400	
111-44-4	bis(2-Chloroethyl) ether	10	ND		3400	
108-60-1	bis(2-Chloroisopropyl) ether	10	ND		3400	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	10	ND		3400	
91-58-7	2-Chloronaphthalene	10	ND		3400	
95-57-8	2-Chlorophenol (o-Chlorophenol)	10	ND		3400	
7005-72-3	4-Chlorophenyl phenyl ether	10	ND		3400	
218-01-9	Chrysene	10	ND		3400	
53-70-3	Dibenz(a,h)anthracene	10	ND		3400	
132-64-9	Dibenzofuran	10	ND		3400	
84-74-2	Di-n-butylphthalate	10	ND		3400	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	10	ND		3400	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	10	ND		3400	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	10	ND		3400	
91-94-1	3,3'-Dichlorobenzidine	10	ND		6800	
120-83-2	2,4-Dichlorophenol	10	ND		3400	
84-66-2	Diethylphthalate	10	ND		3400	
105-67-9	2,4-Dimethylphenol	10	ND		3400	
131-11-3	Dimethylphthalate	10	ND		3400	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	10	ND		8500	
51-28-5	2,4-Dinitrophenol	10	ND		8500	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #3 762 | **Client:** TRANSWESTERN PIPELINE

Project: ATOKA | **Site:** None

Lab ID: MAH-005 | **Episode:** MAH | **Sample Qu:** D6 M2

Description: None | **Matrix:** Soil | **% Moisture:** 2

Method: Low Soil SW 8270 Semivolatile Organics | **Batch:** 26131 | **Units:** ug/kg

Prep Factor: 1.00 | **Leached:** n/a | **Prepared:** 30-Apr-98 | **Analyzed:** 08-May-98 18:52 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	10	ND		3400	
606-20-2	2,6-Dinitrotoluene	10	ND		3400	
117-84-0	Di-n-octylphthalate	10	ND		3400	
117-81-7	bis(2-Ethylhexyl)phthalate	10	ND		3400	
206-44-0	Fluoranthene	10	ND		3400	
86-73-7	Fluorene	10	ND		3400	
118-74-1	Hexachlorobenzene	10	ND		3400	
87-68-3	Hexachlorobutadiene	10	ND		3400	
77-47-4	Hexachlorocyclopentadiene	10	ND		3400	
67-72-1	Hexachloroethane	10	ND		3400	
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND		3400	
78-59-1	Isophorone	10	ND		3400	
91-57-6	2-Methylnaphthalene	10	ND		3400	
95-48-7	2-Methylphenol (o-Cresol)	10	ND		3400	
106-44-5	4-Methylphenol (p-Cresol)	10	ND		3400	
91-20-3	Naphthalene	10	ND		3400	
88-74-4	2-Nitroaniline (o-Nitroaniline)	10	ND		8500	
99-09-2	3-Nitroaniline (m-Nitroaniline)	10	ND		8500	
100-01-6	4-Nitroaniline (p-Nitroaniline)	10	ND		8500	
98-95-3	Nitrobenzene	10	ND		3400	
88-75-5	2-Nitrophenol (o-Nitrophenol)	10	ND		3400	
100-02-7	4-Nitrophenol (p-Nitrophenol)	10	ND		8500	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	10	ND	A10	3400	
621-64-7	N-Nitroso-di-n-propylamine	10	ND		3400	
87-86-5	Pentachlorophenol	10	ND		8500	
85-01-8	Phenanthrene	10	3780		3400	
108-95-2	Phenol	10	ND		3400	
129-00-0	Pyrene	10	ND		3400	
120-82-1	1,2,4-Trichlorobenzene	10	ND		3400	
95-95-4	2,4,5-Trichlorophenol	10	ND		8500	
88-06-2	2,4,6-Trichlorophenol	10	ND		3400	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #2 DRAIN
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-006
Episode: MAH
Sample Qu: M1 M2
Description: DRAIN LINE
Matrix: Soil
% Moisture: 3
Method: Low Soil SW 8260 Volatile Organics
Batch: 26135
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 05-May-98 13:16 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	ND		10.3	
71-43-2	Benzene	1	ND		5.15	
75-27-4	Bromodichloromethane	1	ND		5.15	
75-25-2	Bromoform	1	ND		5.15	
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.3	
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.3	
75-15-0	Carbon disulfide	1	ND		5.15	
56-23-5	Carbon tetrachloride	1	ND		5.15	
108-90-7	Chlorobenzene	1	ND		5.15	
75-00-3	Chloroethane	1	ND		10.3	
67-66-3	Chloroform	1	ND		5.15	
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.3	
124-48-1	Dibromochloromethane	1	ND		5.15	
75-34-3	1,1-Dichloroethane	1	ND		5.15	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.15	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.15	
540-59-0	1,2-Dichloroethene (total)	1	ND		5.15	
78-87-5	1,2-Dichloropropane	1	ND		5.15	
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.15	
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.15	
100-41-4	Ethylbenzene	1	ND		5.15	
591-78-6	2-Hexanone	1	ND		10.3	
75-09-2	Methylene chloride (Dichloromethane)	1	13.5	A11	5.15	
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.3	
100-42-5	Styrene	1	ND		5.15	
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.15	
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.15	
108-88-3	Toluene	1	ND		5.15	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.15	
79-00-5	1,1,2-Trichloroethane	1	ND		5.15	
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.15	
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.3	
1330-20-7	Xylene (total)	1	21.1		5.15	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #2 DRAIN
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-006
Episode: MAH
Sample Qu: D6
Description: DRAIN LINE
Matrix: Soil
% Moisture: 3
Method: Low Soil SW 8270 Semivolatile Organics
Batch: 26131
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared: 30-Apr-98
Analyzed: 08-May-98 17:27 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	4	ND		1370	
208-96-8	Acenaphthylene	4	ND		1370	
120-12-7	Anthracene	4	ND		1370	
56-55-3	Benzo(a)anthracene	4	ND		1370	
205-99-2	Benzo(b)fluoranthene	4	ND		1370	
207-08-09	Benzo(k)fluoranthene	4	ND		1370	
65-85-0	Benzoic acid	4	ND		3430	
191-24-2	Benzo(g,h,i)perylene	4	ND		1370	
50-32-8	Benzo(a)pyrene	4	ND		1370	
100-51-6	Benzyl alcohol	4	ND		1370	
101-55-3	4-Bromophenyl phenyl ether	4	ND		1370	
85-68-7	Butylbenzylphthalate	4	ND		1370	
106-47-8	4-Chloroaniline (p-Chloroaniline)	4	ND		1370	
111-91-1	bis(2-Chloroethoxy)methane	4	ND		1370	
111-44-4	bis(2-Chloroethyl) ether	4	ND		1370	
108-60-1	bis(2-Chloroisopropyl) ether	4	ND		1370	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	4	ND		1370	
91-58-7	2-Chloronaphthalene	4	ND		1370	
95-57-8	2-Chlorophenol (o-Chlorophenol)	4	ND		1370	
7005-72-3	4-Chlorophenyl phenyl ether	4	ND		1370	
218-01-9	Chrysene	4	ND		1370	
53-70-3	Dibenz(a,h)anthracene	4	ND		1370	
132-64-9	Dibenzofuran	4	ND		1370	
84-74-2	Di-n-butylphthalate	4	ND		1370	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	4	ND		1370	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	4	ND		1370	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	4	ND		1370	
91-94-1	3,3'-Dichlorobenzidine	4	ND		2750	
120-83-2	2,4-Dichlorophenol	4	ND		1370	
84-66-2	Diethylphthalate	4	ND		1370	
105-67-9	2,4-Dimethylphenol	4	ND		1370	
131-11-3	Dimethylphthalate	4	ND		1370	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	4	ND		3430	
51-28-5	2,4-Dinitrophenol	4	ND		3430	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #2 DRAIN	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-006	**Episode:**	MAH
Description:	DRAIN LINE	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 **% Moisture:** 3 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 17:27 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	4	ND		1370	
606-20-2	2,6-Dinitrotoluene	4	ND		1370	
117-84-0	Di-n-octylphthalate	4	ND		1370	
117-81-7	bis(2-Ethylhexyl)phthalate	4	ND		1370	
206-44-0	Fluoranthene	4	ND		1370	
86-73-7	Fluorene	4	ND		1370	
118-74-1	Hexachlorobenzene	4	ND		1370	
87-68-3	Hexachlorobutadiene	4	ND		1370	
77-47-4	Hexachlorocyclopentadiene	4	ND		1370	
67-72-1	Hexachloroethane	4	ND		1370	
193-39-5	Indeno(1,2,3-cd)pyrene	4	ND		1370	
78-59-1	Isophorone	4	ND		1370	
91-57-6	2-Methylnaphthalene	4	ND		1370	
95-48-7	2-Methylphenol (o-Cresol)	4	ND		1370	
106-44-5	4-Methylphenol (p-Cresol)	4	ND		1370	
91-20-3	Naphthalene	4	ND		1370	
88-74-4	2-Nitroaniline (o-Nitroaniline)	4	ND		3430	
99-09-2	3-Nitroaniline (m-Nitroaniline)	4	ND		3430	
100-01-6	4-Nitroaniline (p-Nitroaniline)	4	ND		3430	
98-95-3	Nitrobenzene	4	ND		1370	
88-75-5	2-Nitrophenol (o-Nitrophenol)	4	ND		1370	
100-02-7	4-Nitrophenol (p-Nitrophenol)	4	ND		3430	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	4	ND	A10	1370	
621-64-7	N-Nitroso-di-n-propylamine	4	ND		1370	
87-86-5	Pentachlorophenol	4	ND		3430	
85-01-8	Phenanthrene	4	ND		1370	
108-95-2	Phenol	4	ND		1370	
129-00-0	Pyrene	4	ND		1370	
120-82-1	1,2,4-Trichlorobenzene	4	ND		1370	
95-95-4	2,4,5-Trichlorophenol	4	ND		3430	
88-06-2	2,4,6-Trichlorophenol	4	ND		1370	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
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Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID: ATOKA #2 BULK
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-007
Episode: MAH
Sample Qu: D2 M2
Description: BULK TANK
Matrix: Soil
% Moisture: 3
Method: Low Soil SW 8260 Volatile Organics
Batch: 26135
Units: ug/kg

Prep Factor: 1.00
Leached: n/a
Prepared:
Analyzed: 05-May-98 16:55 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	2	ND	D2	25.7	
71-43-2	Benzene	2	13.0	D2	12.9	
75-27-4	Bromodichloromethane	2	ND	D2	12.9	
75-25-2	Bromoform	2	ND	D2	12.9	
74-83-9	Bromomethane (Methyl bromide)	2	ND	D2	25.7	
78-93-3	2-Butanone (Methyl ethyl ketone)	2	ND	D2	25.7	
75-15-0	Carbon disulfide	2	ND	D2	12.9	
56-23-5	Carbon tetrachloride	2	ND	D2	12.9	
108-90-7	Chlorobenzene	2	ND	D2	12.9	
75-00-3	Chloroethane	2	ND	D2	25.7	
67-66-3	Chloroform	2	ND	D2	12.9	
74-87-3	Chloromethane (Methyl chloride)	2	ND	D2	25.7	
124-48-1	Dibromochloromethane	2	ND	D2	12.9	
75-34-3	1,1-Dichloroethane	2	ND	D2	12.9	
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	2	ND	D2	12.9	
75-35-4	1,1-Dichloroethene (Dichloroethylene)	2	ND	D2	12.9	
540-59-0	1,2-Dichloroethene (total)	2	ND	D2	12.9	
78-87-5	1,2-Dichloropropane	2	ND	D2	12.9	
10061-01-5	cis-1,3-Dichloropropene	2	ND	D2	12.9	
10061-02-6	trans-1,3-Dichloropropene	2	ND	D2	12.9	
100-41-4	Ethylbenzene	2	ND	D2	12.9	
591-78-6	2-Hexanone	2	ND	D2	25.7	
75-09-2	Methylene chloride (Dichloromethane)	2	40.9	A11 D2	12.9	
108-10-1	4-Methyl-2-pentanone (MIBK)	2	427	D2	25.7	
100-42-5	Styrene	2	ND	D2	12.9	
79-34-5	1,1,2,2-Tetrachloroethane	2	ND	D2	12.9	
127-18-4	Tetrachloroethene (Perchloroethylene)	2	ND	D2	12.9	
108-88-3	Toluene	2	31.3	D2	12.9	
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	2	ND	D2	12.9	
79-00-5	1,1,2-Trichloroethane	2	ND	D2	12.9	
79-01-6	Trichloroethene (Trichloroethylene)	2	ND	D2	12.9	
75-01-4	Vinyl chloride (Chloroethene)	2	ND	D2	25.7	
1330-20-7	Xylene (total)	2	17.3	D2	12.9	

33 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #2 BULK	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-007	**Episode:**	MAH
Description:	BULK TANK	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 M2
% Moisture: 3
Units: ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 19:34 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
83-32-9	Acenaphthene	10	ND		3430	
208-96-8	Acenaphthylene	10	ND		3430	
120-12-7	Anthracene	10	ND		3430	
56-55-3	Benzo(a)anthracene	10	ND		3430	
205-99-2	Benzo(b)fluoranthene	10	ND		3430	
207-08-09	Benzo(k)fluoranthene	10	ND		3430	
65-85-0	Benzoic acid	10	ND		8580	
191-24-2	Benzo(g,h,i)perylene	10	ND		3430	
50-32-8	Benzo(a)pyrene	10	ND		3430	
100-51-6	Benzyl alcohol	10	ND		3430	
101-55-3	4-Bromophenyl phenyl ether	10	ND		3430	
85-68-7	Butylbenzylphthalate	10	ND		3430	
106-47-8	4-Chloroaniline (p-Chloroaniline)	10	ND		3430	
111-91-1	bis(2-Chloroethoxy)methane	10	ND		3430	
111-44-4	bis(2-Chloroethyl) ether	10	ND		3430	
108-60-1	bis(2-Chloroisopropyl) ether	10	ND		3430	
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	10	ND		3430	
91-58-7	2-Chloronaphthalene	10	ND		3430	
95-57-8	2-Chlorophenol (o-Chlorophenol)	10	ND		3430	
7005-72-3	4-Chlorophenyl phenyl ether	10	ND		3430	
218-01-9	Chrysene	10	ND		3430	
53-70-3	Dibenz(a,h)anthracene	10	ND		3430	
132-64-9	Dibenzofuran	10	ND		3430	
84-74-2	Di-n-butylphthalate	10	ND		3430	
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	10	ND		3430	
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	10	ND		3430	
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	10	ND		3430	
91-94-1	3,3'-Dichlorobenzidine	10	ND		6870	
120-83-2	2,4-Dichlorophenol	10	ND		3430	
84-66-2	Diethylphthalate	10	ND		3430	
105-67-9	2,4-Dimethylphenol	10	ND		3430	
131-11-3	Dimethylphthalate	10	ND		3430	
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	10	ND		8580	
51-28-5	2,4-Dinitrophenol	10	ND		8580	

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Protocol

Client ID:	ATOKA #2 BULK	**Client:**	TRANSWESTERN PIPELINE
Project:	ATOKA	**Site:**	None
Lab ID:	MAH-007	**Episode:**	MAH
Description:	BULK TANK	**Matrix:**	Soil
Method:	Low Soil SW 8270 Semivolatile Organics	**Batch:**	26131

Sample Qu: D6 M2 **% Moisture:** 3 **Units:** ug/kg

Prep Factor: 1.00 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 08-May-98 19:34 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
121-14-2	2,4-Dinitrotoluene	10	ND		3430	
606-20-2	2,6-Dinitrotoluene	10	ND		3430	
117-84-0	Di-n-octylphthalate	10	ND		3430	
117-81-7	bis(2-Ethylhexyl)phthalate	10	ND		3430	
206-44-0	Fluoranthene	10	ND		3430	
86-73-7	Fluorene	10	ND		3430	
118-74-1	Hexachlorobenzene	10	ND		3430	
87-68-3	Hexachlorobutadiene	10	ND		3430	
77-47-4	Hexachlorocyclopentadiene	10	ND		3430	
67-72-1	Hexachloroethane	10	ND		3430	
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND		3430	
78-59-1	Isophorone	10	ND		3430	
91-57-6	2-Methylnaphthalene	10	ND		3430	
95-48-7	2-Methylphenol (o-Cresol)	10	ND		3430	
106-44-5	4-Methylphenol (p-Cresol)	10	ND		3430	
91-20-3	Naphthalene	10	ND		3430	
88-74-4	2-Nitroaniline (o-Nitroaniline)	10	ND		8580	
99-09-2	3-Nitroaniline (m-Nitroaniline)	10	ND		8580	
100-01-6	4-Nitroaniline (p-Nitroaniline)	10	ND		8580	
98-95-3	Nitrobenzene	10	ND		3430	
88-75-5	2-Nitrophenol (o-Nitrophenol)	10	ND		3430	
100-02-7	4-Nitrophenol (p-Nitrophenol)	10	ND		8580	
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	10	ND	A10	3430	
621-64-7	N-Nitroso-di-n-propylamine	10	ND		3430	
87-86-5	Pentachlorophenol	10	ND		8580	
85-01-8	Phenanthrene	10	ND		3430	
108-95-2	Phenol	10	ND		3430	
129-00-0	Pyrene	10	ND		3430	
120-82-1	1,2,4-Trichlorobenzene	10	ND		3430	
95-95-4	2,4,5-Trichlorophenol	10	ND		8580	
88-06-2	2,4,6-Trichlorophenol	10	ND		3430	

65 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #1 732 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-001 Leachate **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 5

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:36 KJR	5.00
Barium	SW 6010	26121	1	1	1.03	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:36 KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	14:36 KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:36 KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:36 KJR	5.00
Mercury	SW 7470	26120	1	1	ND	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	14:46 DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	14:36 KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:36 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:24:58

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #1 720 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-002 Leachate **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 6

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:42 KJR	5.00
Barium	SW 6010	26121	1	1	2.18	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:42 KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	14:42 KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:42 KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:42 KJR	5.00
Mercury	SW 7470	26120	1	1	0.0004	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	14:53 DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	14:42 KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:42 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #3 822 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-003 Leachate **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 5

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:47 KJR	5.00
Barium	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:47 KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	14:47 KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:47 KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:47 KJR	5.00
Mercury	SW 7470	26120	1	1	ND	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	14:55 DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	14:47 KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:47 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #3 845 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-004 Leachate **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 9

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis			Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:51	KJR	5.00
Barium	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:51	KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	14:51	KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:51	KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:51	KJR	5.00
Mercury	SW 7470	26120	1	1	ND	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	14:58	DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	14:51	KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:51	KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #3 762 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-005 Leachate **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 2

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:55 KJR	5.00
Barium	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	14:55 KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	14:55 KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:55 KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:55 KJR	5.00
Mercury	SW 7470	26120	1	1	0.0003	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	15:00 DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	14:55 KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	14:55 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #2 DRAIN
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-006 Leachate
Episode: MAH
Description: DRAIN LINE
Matrix: Soil
%Moisture: 3

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	15:00 KJR	5.00
Barium	SW 6010	26121	1	1	1.66	C3	mg/l	1.00	29-Apr-98	29-Apr-98	15:00 KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	15:00 KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	15:00 KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	15:00 KJR	5.00
Mercury	SW 7470	26120	1	1	ND	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	15:02 DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	15:00 KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	15:00 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:24:59

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #2 BULK
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-007 Leachate
Episode: MAH
Description: BULK TANK
Matrix: Soil
%Moisture: 3

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	26121	1	1	ND	C3	mg/l	1.00	29-Apr-98	29-Apr-98	15:04 KJR	5.00
Barium	SW 6010	26121	1	1	1.53	C3	mg/l	1.00	29-Apr-98	29-Apr-98	15:04 KJR	100
Cadmium	SW 6010	26121	1	1	ND	C3	mg/l	0.100	29-Apr-98	29-Apr-98	15:04 KJR	1.00
Chromium	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	15:04 KJR	5.00
Lead	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	15:04 KJR	5.00
Mercury	SW 7470	26120	1	1	ND	C3	mg/l	0.0002	29-Apr-98	29-Apr-98	15:10 DNT	0.200
Selenium	SW 6010	26121	1	1	ND	C3	mg/l	0.200	29-Apr-98	29-Apr-98	15:04 KJR	1.00
Silver	SW 6010	26121	1	1	ND	C3	mg/l	0.500	29-Apr-98	29-Apr-98	15:04 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:24:59

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #1 732 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-001 **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 5

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	7.37	C3	S.U.			06-May-98	LAK	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	20	1	17400	D1 A	mg/kg	1050	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #1 720 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-002 **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 6

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	8.30	C3	S.U.			06-May-98	DM	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	5	1	3350	D1 A	mg/kg	265	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.


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Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #3 822 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-003 **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 5

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	7.75	C3	S.U.			06-May-98	LAK	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	20	1	17800	D1 A	mg/kg	1050	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #3 845 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-004 **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 9

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	7.61	C3	S.U.			06-May-98	LAK	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	5	1	2260	D1 A	mg/kg	275	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:25:40

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #3 762 **Client:** TRANSWESTERN PIPELINE

Project: ATOKA **Site:** None

Lab ID: MAH-005 **Episode:** MAH

Description: None **Matrix:** Soil **%Moisture:** 2

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	7.56	C3	S.U.			06-May-98	LAK	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	100	1	69800	D1 A	mg/kg	5100	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #2 DRAIN
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-006
Episode: MAH
Description: DRAIN LINE
Matrix: Soil
%Moisture: 3

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	8.40	C3	S.U.			06-May-98	LAK	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	100	1	26500	D1 A	mg/kg	5150	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:25:41

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: ATOKA #2 BULK
Client: TRANSWESTERN PIPELINE
Project: ATOKA
Site: None
Lab ID: MAH-007
Episode: MAH
Description: BULK TANK
Matrix: Soil
%Moisture: 3

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	26229	1	1	8.65	C3	S.U.			06-May-98	LAK	
Reactive Cyanide	SW 7.3.3.2	26114	1	10	ND	C3	mg/kg	25.0	06-May-98	07-May-98	LAK	
Reactive Sulfide	SW 7.3.4.2	26114	1	1	ND	C3	mg/kg	50.0	06-May-98	07-May-98	LAK	
TPH IR	EPA 418.1	26043	200	1	111000	D1 A	mg/kg	10300	29-Apr-98	30-Apr-98	DM	

4 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

5/12/98 15:25:41

Analytical Results - Conventional Parameter

Transwestern Pipeline

Non-Liquid Ignitability Data Sheet

Prepared Date: NA
Analyzed Date: 5/12/98

Client ID/ Lab ID	Spontaneous Ignition	Ignitable With Moisture	Ignites When Agitated	Burns Vigorously When Lit	Meet Ignitable Characteristics
ATOKA #1 732 MAH-001	No	No	No	No	No
ATOKA #1 720 MAH-002	No	No	No	No	No
ATOKA #1 732 MAH-003	No	No	No	No	No
ATOKA #3 822 MAH-004	No	No	No	No	No
ATOKA #3 762 MAH-005	No	No	No	No	No
ATOKA #2 DRAIN (DRAIN LINE) MAH-006	No	No	No	No	No
ATOKA #2 BULK (BULK TANK) MAH-007	No	No	No	No	No

Pace Analytical Services, Inc. - New Orleans
Laboratory Quality Control Definitions

Our laboratory employs quality control (QC) measures to ensure the quality of our analytical data by defining its accuracy and precision. Presentation of the QC data with the report allows the data user the opportunity to evaluate these results and to gauge the method performance. In order to assist the understanding of these data, routine components of our QC program are defined below.

BATCH - A batch is a group of 20 samples or less of a given matrix and analysis by a specific protocol or analytical method.

BLANK - A method blank is a "clean" laboratory sample carried through the entire analytical process. One or more method blanks are prepared with each batch of samples. The analysis of method blanks demonstrates that method interferences caused by contaminants, reagents and glassware are known and minimized. A method blank should not contain any analytes of interest above the reporting limit. There are method allowances for common laboratory artifacts such as methylene chloride, acetone and bis-2-ethylhexyl phthalate.

LABORATORY CONTROL SPIKE - A laboratory control spike (LCS or blank spike) is a blank which has been spiked with known concentrations of target analytes. The LCS is carried through the entire analytical process. One or more LCS are prepared with each batch of samples. The percent recovery of the spiked analytes provides a measure of the accuracy of the analytical process in the absence of matrix effects.

MATRIX SPIKE - A matrix spike (MS) is a client sample which is spiked with known concentrations of target analytes. The MS is carried through the entire analytical process. One or more matrix spikes are prepared with every batch of samples. For organic methods, a matrix spike duplicate (MSD) is also prepared. The percent recovery of the spiked analytes provides a measure of the method accuracy in the selected sample and matrix.

DUPLICATE - A duplicate is a sample for which replicate aliquouts are carried through the entire analytical process. Comparison of the original results to those of the duplicate results provides a measure of the method precision in the sample and matrix. By convention, precision is measured for inorganic analyses using a sample and a sample duplicate, whereas for organics analyses, an MS/MSD are used.

SURROGATE - A surrogate is a non-target analyte which is added to all samples and QC samples prior to extraction or analysis. The percent recovery of the surrogate provides a measure of the method accuracy in each sample tested. Surrogates are used for organics methods only.

QC LIMITS - QC limits specify the expected percent recovery range for a spiked compound. QC limits may be set by method criteria or calculated from laboratory generated data. For many methods, these limits are advisory and do not require corrective action if exceeded.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: MAH

Method: Low Soil GC/MS Volatile Organics Batch: 26135 Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Acetone (2-Propanone, Dimethyl ketone)	50.0	51		50.0	38	19	24	1-200	1-200	50	
Benzene	50.0	94		50.0	92	94	2	66-142	66-142	21	
Bromodichloromethane	50.0	86		50.0	82	85	4	1-200	1-200	50	
Bromoform	50.0	95		50.0	93	96	3	1-200	1-200	50	
Bromomethane (Methyl bromide)	50.0	73		50.0	68	81	18	1-200	1-200	50	
2-Butanone (Methyl ethyl ketone)	50.0	97		50.0	76	95	21	1-200	1-200	50	
Carbon disulfide	50.0	87		50.0	76	85	11	1-200	1-200	50	
Carbon tetrachloride	50.0	106		50.0	102	108	6	1-200	1-200	50	
Chlorobenzene	50.0	97		50.0	95	94	0	60-133	60-133	21	
Chloroethane	50.0	74		50.0	70	86	21	1-200	1-200	50	
Chloroform	50.0	97		50.0	90	97	8	1-200	1-200	50	
Chloromethane (Methyl chloride)	50.0	55		50.0	56	68	19	1-200	1-200	50	
Dibromochloromethane	50.0	102		50.0	105	107	2	1-200	1-200	50	
1,1-Dichloroethane	50.0	94		50.0	88	93	6	1-200	1-200	50	
1,2-Dichloroethane (Ethylene dichloride)	50.0	95		50.0	92	97	5	1-200	1-200	50	
1,1-Dichloroethene (Dichloroethylene)	50.0	89		50.0	84	95	12	59-172	59-172	22	
1,2-Dichloroethene (total)	100	95		100	88	96	8	1-200	1-200	50	
1,2-Dichloropropane	50.0	90		50.0	83	88	6	1-200	1-200	50	
cis-1,3-Dichloropropene	50.0	90		50.0	83	89	7	1-200	1-200	50	
trans-1,3-Dichloropropene	50.0	89		50.0	78	85	8	1-200	1-200	50	
Ethylbenzene	50.0	99		50.0	101	102	1	1-200	1-200	50	
2-Hexanone	50.0	89		50.0	90	101	11	1-200	1-200	50	
Methylene chloride (Dichloromethane)	50.0	59		50.0	39	42	5	1-200	1-200	50	
4-Methyl-2-pentanone (MIBK)	50.0	85		50.0	93	100	7	1-200	1-200	50	
Styrene	50.0	97		50.0	89	92	4	1-200	1-200	50	
1,1,2,2-Tetrachloroethane	50.0	96		50.0	109	111	1	1-200	1-200	50	
Tetrachloroethene (Perchloroethylene)	50.0	111		50.0	114	118	3	1-200	1-200	50	
Toluene	50.0	94		50.0	89	91	3	59-139	59-139	21	
1,1,1-Trichloroethane (Methyl chloroform)	50.0	101		50.0	96	101	5	1-200	1-200	50	
1,1,2-Trichloroethane	50.0	96		50.0	94	99	6	1-200	1-200	50	
Trichloroethene (Trichloroethylene)	50.0	100		50.0	97	101	4	62-137	62-137	24	
Vinyl chloride (Chloroethene)	50.0	62		50.0	58	77	27	1-200	1-200	50	
Xylene (total)	150	98		150	98	99	0	1-200	1-200	50	

33 compound(s) reported

*** denotes recovery outside of QC limits.**
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: MAH

Method: Low Soil GC/MS Semivolatile Organics Batch: 26131 Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Acenaphthene	1660	64		1660	57	58	1	28-137	31-137	19	
Acenaphthylene	1660	69		1660	56	55	2	1-200	1-200	50	
Anthracene	1660	79		1660	58	60	3	1-200	1-200	50	
Benzo(a)anthracene	1660	75		1660	58	58	1	1-200	1-200	50	
Benzo(b)fluoranthene	1660	67		1660	54	54	0	1-200	1-200	50	
Benzo(k)fluoranthene	1660	80		1660	49	50	1	1-200	1-200	50	
Benzoic acid	1660	28		1660	86	81	6	1-200	1-200	50	
Benzo(g,h,i)perylene	1660	73		1660	63	58	7	1-200	1-200	50	
Benzo(a)pyrene	1660	75		1660	55	58	5	1-200	1-200	50	
Benzyl alcohol	1660	66		1660	130	117	11	1-200	1-200	50	
4-Bromophenyl phenyl ether	1660	81		1660	61	66	7	1-200	1-200	50	
Butylbenzylphthalate	1660	78		1660	57	56	1	1-200	1-200	50	
4-Chloroaniline (p-Chloroaniline)	1660	61		1660				1-200	1-200	50	Q1
bis(2-Chloroethoxy)methane	1660	64		1660	59	60	2	1-200	1-200	50	
bis(2-Chloroethyl) ether	1660	56		1660	54	55	2	1-200	1-200	50	
bis(2-Chloroisopropyl) ether	1660	48		1660	61	59	5	1-200	1-200	50	
4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1660	70		1660	96	86	12	28-103	26-103	33	
2-Chloronaphthalene	1660	66		1660	57	57	0	1-200	1-200	50	
2-Chlorophenol (o-Chlorophenol)	1660	64		1660	57	56	1	28-102	25-102	50	
4-Chlorophenyl phenyl ether	1660	67		1660	55	56	1	1-200	1-200	50	
Chrysene	1660	73		1660	54	56	3	1-200	1-200	50	
Dibenz(a,h)anthracene	1660	70		1660	59	58	2	1-200	1-200	50	
Dibenzofuran	1660	66		1660	73	67	9	1-200	1-200	50	
Di-n-butylphthalate	1660	86		1660	54	54	0	1-200	1-200	50	
1,2-Dichlorobenzene (o-Dichlorobenzene)	1660	53		1660	54	53	1	1-200	1-200	50	
1,3-Dichlorobenzene (m-Dichlorobenzene)	1660	53		1660	53	49	8	1-200	1-200	50	
1,4-Dichlorobenzene (p-Dichlorobenzene)	1660	51		1660	51	49	6	28-104	28-104	27	
3,3'-Dichlorobenzidine	1660	64		1660				1-200	1-200	50	Q1
2,4-Dichlorophenol	1660	72		1660	57	57	1	1-200	1-200	50	
Diethylphthalate	1660	68		1660	52	53	1	1-200	1-200	50	
2,4-Dimethylphenol	1660	71		1660	53	52	2	1-200	1-200	50	
Dimethylphthalate	1660	67		1660	55	53	3	1-200	1-200	50	
4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cres	1660	75		1660				1-200	1-200	50	Q1
2,4-Dinitrophenol	1660	40		1660				1-200	1-200	50	Q1
2,4-Dinitrotoluene	1660	67		1660	53	52	2	28-89	28-89	47	
2,6-Dinitrotoluene	1660	69		1660	58	58	0	1-200	1-200	50	
Di-n-octylphthalate	1660	74		1660	49	51	5	1-200	1-200	50	
bis(2-Ethylhexyl)phthalate	1660	78		1660	58	58	0	1-200	1-200	50	
Fluoranthene	1660	79		1660	38	39	5	1-200	1-200	50	
Fluorene	1660	64		1660	55	55	1	1-200	1-200	50	
Hexachlorobenzene	1660	80		1660	65	66	2	1-200	1-200	50	
Hexachlorobutadiene	1660	63		1660	59	61	3	1-200	1-200	50	

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: MAH

Method: Low Soil GC/MS Semivolatile Organics Batch: 26131 Units: ug/kg

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	RPD %	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Hexachlorocyclopentadiene	1660	65		1660	28	41	37	1-200	1-200	50	
Hexachloroethane	1660	54		1660	66	77	14	1-200	1-200	50	
Indeno(1,2,3-cd)pyrene	1660	70		1660	60	59	1	1-200	1-200	50	
Isophorone	1660	69		1660	56	54	4	1-200	1-200	50	
2-Methylnaphthalene	1660	67		1660	59	59	1	1-200	1-200	50	
2-Methylphenol (o-Cresol)	1660	65		1660	57	58	1	1-200	1-200	50	
4-Methylphenol (p-Cresol)	1660	67		1660	63	61	3	1-200	1-200	50	
Naphthalene	1660	61		1660	69	66	4	1-200	1-200	50	
2-Nitroaniline (o-Nitroaniline)	1660	67		1660				1-200	1-200	50	Q1
3-Nitroaniline (m-Nitroaniline)	1660	59		1660				1-200	1-200	50	Q1
4-Nitroaniline (p-Nitroaniline)	1660	66		1660				1-200	1-200	50	Q1
Nitrobenzene	1660	57		1660	51	48	5	1-200	1-200	50	
2-Nitrophenol (o-Nitrophenol)	1660	63		1660	55	52	5	1-200	1-200	50	
4-Nitrophenol (p-Nitrophenol)	1660	76		1660	89	84	6	28-114	11-114	50	
N-Nitrosodiphenylamine (Diphenylamine)	1660	80		1660	61	59	4	1-200	1-200	50	
N-Nitroso-di-n-propylamine	1660	61		1660	58	56	2	28-126	41-126	38	
Pentachlorophenol	1660	69		1660	60	61	1	17-109	17-109	47	
Phenanthrene	1660	75		1660	60	61	1	1-200	1-200	50	
Phenol	1660	64		1660	75	70	7	26-90	26-90	35	
Pyrene	1660	77		1660	58	60	3	35-142	35-142	36	
1,2,4-Trichlorobenzene	1660	61		1660	56	54	4	38-107	38-107	23	
2,4,5-Trichlorophenol	1660	73		1660	58	61	5	1-200	1-200	50	
2,4,6-Trichlorophenol	1660	70		1660	59	58	1	1-200	1-200	50	

65 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: MAH

Method: Low Soil GC/MS Semivolatile Organics **Batch:** 26131

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
26131B1	66	70	70	71	59	62		
26131MS	57	56	53	57	50	63		
26131MSD	56	58	66	57	48	67		
26131S1	64	70	75	69	61	86		
MAH-001	83	72	69	82	79	102		
MAH-001RE	71	74	67	78	66	113		
MAH-002	67	73	77	72	66	75		
MAH-003	41	40	34	44	36	50		
MAH-004	74	70	58	69	62	100		
MAH-005	40	36	39	43	32	31		
MAH-005RE	36	38	35	40	36	32		
MAH-006	26	26 D	24	28	24 D	34		
MAH-007	29	28 D	24	27	21 D	24		
MAH-007RE	14 D	30	31	28	23 D	33		
MAR-001	46	58	72	54	43	76		
MAR-002	64	68	70	69	59	74		
MAR-003	64	68	68	68	59	71		
MAR-004	63	58	54	55	42	42		
MAR-005	59	65	66	62	50	52		
MBJ-001	62	63	72	63	58	67		
MBJ-002	77	83	91	80	73	97		
MBJ-003	70	74	73	71	55	51		
MBJ-004	56	58	61	56	53	71		
MBJ-005	38	40	43	37	34	49		
MBJ-006	65	68	66	68	60	78		
MBJ-007	56	59	53	55	51	71		
MBJ-008	69	72	70	75	66	82		
QC limits:	**23 - 120**	**30 - 115**	**18 - 137**	**24 - 113**	**25 - 121**	**19 - 122**		

Sur 1: SS Nitrobenzene-d5
Sur 2: SS 2-Fluorobiphenyl
Sur 3: SS Terphenyl-d14
Sur 4: SS Phenol-d5
Sur 5: SS 2-Fluorophenol
Sur 6: SS 2,4,6-Tribromophenol

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: MAH

Method: Water GC/MS Volatile Organics **Batch:** 26135

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
26135B1A04	91	109	93					
26135BA05	97	107	94					
26135BA06	97	104	94					
26135BA07	93	99	95					
26135MS	95	102	94					
26135MSD	95	104	96					
26135SA06	97	94	98					
MAH-001	72 *	148 *	121 *					
MAH-001RE	71 *	155 *	120					
MAH-002	88	136 *	105					
MAH-002RE	88	131 *	104					
MAH-003	72 *	176 *	122 *					
MAH-003RE	65 *	202 *	126 *					
MAH-004	86	140 *	102					
MAH-004RE	86	134 *	103					
MAH-005	69 D	196 D	108					
MAH-005RE	79 D	142 D	109					
MAH-006	60 *	161 *	138 *					
MAH-006RE	77 *	158 *	112					
MAH-007	56 D	161 D	124 D					
MAH-007RE	62 D	158 D	116					
MAR-002	91	131 *	95					
MAR-002RE	94	121	96					
MAR-003	93	115	98					
MAR-005	89	118	94					
MAR-005RE	89	118	94					
MHJ-001	92	102	97					
QC limits:	**88 - 110**	**86 - 115**	**86 - 118**					

Sur 1: SS Toluene-d8
Sur 2: SS 4-Bromofluorobenzene
Sur 3: SS Dibromofluoromethane

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 26135B1A04

Description: Water Method Blank **Episode:** MAH **% Moisture:** n/a

Method: Water GC/MS Volatile Organics **Batch:** 26135 **Units:** ug/l

Prep Factor: 1 **Leached:** n/a **Prepared:** **Analyzed:** 04-May-98 14:23 GL

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
67-64-1	Acetone (2-Propanone, Dimethyl ketone)	1	16.7		10.0
71-43-2	Benzene	1	ND		5.00
75-27-4	Bromodichloromethane	1	ND		5.00
75-25-2	Bromoform	1	ND		5.00
74-83-9	Bromomethane (Methyl bromide)	1	ND		10.0
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND		10.0
75-15-0	Carbon disulfide	1	ND		5.00
56-23-5	Carbon tetrachloride	1	ND		5.00
108-90-7	Chlorobenzene	1	ND		5.00
75-00-3	Chloroethane	1	ND		10.0
67-66-3	Chloroform	1	ND		5.00
74-87-3	Chloromethane (Methyl chloride)	1	ND		10.0
124-48-1	Dibromochloromethane	1	ND		5.00
75-34-3	1,1-Dichloroethane	1	ND		5.00
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND		5.00
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND		5.00
540-59-0	1,2-Dichloroethene (total)	1	ND		5.00
78-87-5	1,2-Dichloropropane	1	ND		5.00
10061-01-5	cis-1,3-Dichloropropene	1	ND		5.00
10061-02-6	trans-1,3-Dichloropropene	1	ND		5.00
100-41-4	Ethylbenzene	1	ND		5.00
591-78-6	2-Hexanone	1	ND		10.0
75-09-2	Methylene chloride (Dichloromethane)	1	25.2		5.00
108-10-1	4-Methyl-2-pentanone (MIBK)	1	ND		10.0
100-42-4	Styrene	1	ND		5.00
79-34-5	1,1,2,2-Tetrachloroethane	1	ND		5.00
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND		5.00
108-88-3	Toluene	1	ND		5.00
71-55-6	1,1,1-Trichloroethane (Methyl chloroform)	1	ND		5.00
79-00-5	1,1,2-Trichloroethane	1	ND		5.00
79-01-6	Trichloroethene (Trichloroethylene)	1	ND		5.00
75-01-4	Vinyl chloride (Chloroethene)	1	ND		10.0
1330-20-7	Xylene (total)	1	ND		5.00

33 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 26131B1F

Description: Low Soil Method Blank **Episode:** MAH **% Moisture:** n/a

Method: Low Soil GC/MS Semivolatile Organics **Batch:** 26131 **Units:** ug/kg

Prep Factor: 1 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 05-May-98 11:38 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
83-32-9	Acenaphthene	1	ND		333
208-96-8	Acenaphthylene	1	ND		333
120-12-7	Anthracene	1	ND		333
56-55-3	Benzo(a)anthracene	1	ND		333
205-99-2	Benzo(b)fluoranthene	1	ND		333
207-08-09	Benzo(k)fluoranthene	1	ND		333
65-85-0	Benzoic acid	1	ND		833
191-24-2	Benzo(g,h,i)perylene	1	ND		333
50-32-8	Benzo(a)pyrene	1	ND		333
100-51-6	Benzyl alcohol	1	ND		333
101-55-3	4-Bromophenyl phenyl ether	1	ND		333
85-68-7	Butylbenzylphthalate	1	ND		333
106-47-8	4-Chloroaniline (p-Chloroaniline)	1	ND		333
111-91-1	bis(2-Chloroethoxy)methane	1	ND		333
111-44-4	bis(2-Chloroethyl) ether	1	ND		333
108-60-1	bis(2-Chloroisopropyl) ether	1	ND		333
59-50-7	4-Chloro-3-methylphenol (p-Chloro-m-cresol)	1	ND		333
91-58-7	2-Chloronaphthalene	1	ND		333
95-57-8	2-Chlorophenol (o-Chlorophenol)	1	ND		333
7005-72-3	4-Chlorophenyl phenyl ether	1	ND		333
218-01-9	Chrysene	1	ND		333
53-70-3	Dibenz(a,h)anthracene	1	ND		333
132-64-9	Dibenzofuran	1	ND		333
84-74-2	Di-n-butylphthalate	1	ND		333
95-50-1	1,2-Dichlorobenzene (o-Dichlorobenzene)	1	ND		333
541-73-1	1,3-Dichlorobenzene (m-Dichlorobenzene)	1	ND		333
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND		333
91-94-1	3,3'-Dichlorobenzidine	1	ND		667
120-83-2	2,4-Dichlorophenol	1	ND		333
84-66-2	Diethylphthalate	1	ND		333
105-67-9	2,4-Dimethylphenol	1	ND		333
131-11-3	Dimethylphthalate	1	ND		333
534-52-1	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	1	ND		833
51-28-5	2,4-Dinitrophenol	1	ND		833
121-14-2	2,4-Dinitrotoluene	1	ND		333
606-20-2	2,6-Dinitrotoluene	1	ND		333
117-84-0	Di-n-octylphthalate	1	ND		333
117-81-7	bis(2-Ethylhexyl)phthalate	1	ND		333
206-44-0	Fluoranthene	1	ND		333

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 26131B1F

Description: Low Soil Method Blank **Episode:** MAH **% Moisture:** n/a

Method: Low Soil GC/MS Semivolatile Organics **Batch:** 26131 **Units:** ug/kg

Prep Factor: 1 **Leached:** n/a **Prepared:** 30-Apr-98 **Analyzed:** 05-May-98 11:38 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
86-73-7	Fluorene	1	ND		333
118-74-1	Hexachlorobenzene	1	ND		333
87-68-3	Hexachlorobutadiene	1	ND		333
77-47-4	Hexachlorocyclopentadiene	1	ND		333
67-72-1	Hexachloroethane	1	ND		333
193-39-5	Indeno(1,2,3-cd)pyrene	1	ND		333
78-59-1	Isophorone	1	ND		333
91-57-6	2-Methylnaphthalene	1	ND		333
95-48-7	2-Methylphenol (o-Cresol)	1	ND		333
106-44-5	4-Methylphenol (p-Cresol)	1	ND		333
91-20-3	Naphthalene	1	ND		333
88-74-4	2-Nitroaniline (o-Nitroaniline)	1	ND		833
99-09-2	3-Nitroaniline (m-Nitroaniline)	1	ND		833
100-01-6	4-Nitroaniline (p-Nitroaniline)	1	ND		833
98-95-3	Nitrobenzene	1	ND		333
88-75-5	2-Nitrophenol (o-Nitrophenol)	1	ND		333
100-02-7	4-Nitrophenol (p-Nitrophenol)	1	ND		833
86-30-6	N-Nitrosodiphenylamine (Diphenylamine)	1	ND	A10	333
621-64-7	N-Nitroso-di-n-propylamine	1	ND		333
87-86-5	Pentachlorophenol	1	ND		833
85-01-8	Phenanthrene	1	ND		333
108-95-2	Phenol	1	ND		333
129-00-0	Pyrene	1	ND		333
120-82-1	1,2,4-Trichlorobenzene	1	ND		333
95-95-4	2,4,5-Trichlorophenol	1	ND		833
88-06-2	2,4,6-Trichlorophenol	1	ND		333

65 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Multiple Parameters - Multiple Batches

Episode: MAH

Parameter Name	Batch	Blank	Units	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Mercury	26120	ND	mg/l	0.0010	98		0.0010	97		0	80-120	50-150	100	
Arsenic	26121	ND	mg/l	5.00	94		5.00	102		0	80-120	50-150	100	
Barium	26121	ND	mg/l	5.00	99		5.00	103		28	80-120	50-150	39	Q8
Cadmium	26121	ND	mg/l	1.00	97		1.00	100		0	80-120	50-150	100	
Chromium	26121	ND	mg/l	5.00	98		5.00	102		0	80-120	50-150	100	
Lead	26121	ND	mg/l	5.00	99		5.00	100		0	80-120	50-150	100	
Selenium	26121	ND	mg/l	1.00	95		1.00	103		0	80-120	50-150	100	
Silver	26121	ND	mg/l	1.00	105		1.00	105		0	80-120	50-150	100	

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Multiple Parameters - Multiple Batches

Episode: MAH

Parameter Name	Batch	Blank	Units	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
pH-Corrosivity	26229	ND	S.U.	6.00	100					1	99-101		20	
Reactive Cyanide	26114	ND	mg/kg	100	17		100	21		0	1-30	1-30	20	
Reactive Sulfide	26114	ND	mg/kg	380	87		400	80		0	80-120	75-125	20	
TPH IR	26043	ND	mg/kg	250	88		250	85		0	80-120	75-125	20	

QA/QC SUMMARY

CONVENTIONAL PARAMETERS

PARAMETER	Matrix/Blank Spike Level	Blank Det'n Limits	Units	Blank Conc.	Spike Recovery (%) Matrix	Blank	Replicate Precision RPD	QC Batch #
Ignitability	NA/NA	NA	°C	NA	NA	NA	0.0	26282

Report Qualifiers

Pace Analytical Services, Inc. - New Orleans

Single Episode

Episode: MAH

Qualifier	Qualifier Description
A10	N-Nitrosodiphenylamine is reported as diphenylamine.
A11	This analyte is a common solvent. Its presence in field samples may be an artifact of sample collection, transport or analysis.
A18	There is no promulgated method which exactly applies to this analysis. A modified version of the method referenced was performed.
C3	The result for this parameter is not corrected for moisture content.
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.
D6	The sample was analyzed at a dilution based upon the screening information.
M1	The sample required reextraction and/or reanalysis due to surrogate recoveries outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.
M2	The sample required reanalysis due to internal standard response outside the QC limits. Reanalysis yielded similar results, indicating a sample matrix effect. The results reported are from the original analysis.
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q8	The sample and/or duplicate concentration reported is less than 5 times the reporting limit; therefore, the replicate precision RPD is not statistically valid.

TRANSWESTERN PIPELINE COMPANY

CHAIN OF CUSTODY

DISTRICT:

COLLECTED BY: BUTCH RUSSELL

FACILITY: ATOKA 1-3

SHIPPED VIA:

SAMPLE DATE: 4-21-98

SAMPLE CONTAINER DESCRIPTION: GLASS

SAMPLE CHARACTERISTICS		PCB'S	FLASHPOINT	TCLP-AS	TCLP-O	TCLP-M	TCLP-F	TPH	BTEX	8240	8270	SELEXOL *	SEAL VOL	VOL	
Sample ID Number	Matrix														
ATOKA#1 732	SOIL					X		X					X	X	
ATOKA#1 720	SOIL					X		X					X	X	
ATOKA#3 732	SOIL					X		X					X	X	
ATOKA#3 845	SOIL					X		X					X	X	
ATOKA#3 762	SOIL					X		X					X	X	
Atoka #2 drain Line	soil					X		X					X	X	
Atoka #2 Bulk Tank	soil					X		X					X	X	

COMMENTS: RESULTS TO BUTCH RUSSELL
FAX 505-354-1437
PHONE 505-260-4011
4001 INDIAN SCHOOL RD. NLB. N.M 87110

* If Selexol column is marked, analyze for Polyethylene Glycol Di-methyl Ether.

Relinquished by: Karl McDonald
Received From Ed El: Phone Hands/Pace

Date: 4/24/98 0920

Relinquished by:

Date:

Laboratory:

Date:

Temp 6.°C pa

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAY 22 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Bureau of Land Management
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 1/2 mi. E of Loco Hills
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp
3. Address of Facility Operator 34 mi. w. of Tatum Hiway 380	8. State N.M.
7. Location of Material (Street Address or ULSTR) E. of Loco Hills	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Oilfield tank bottoms and contaminated soil from old landfill site.

WAITING ON SITE ASSESSMENT!

ATT: MARTYNE
SEE E-MAIL NOTE ATTACHED!

5/14/98

APR 1998
Received
Hobbs
OCD

Estimated Volume 500 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: v-p DATE: 4-28-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: ENVR ENGR DATE: 5/14/98

APPROVED BY: _____ TITLE: Env Geologist DATE: 5/19/98

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

MAY ... RECEIVED ... ARTESIA

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Bureau of Land Management
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 1/2 mi. E of Loco Hills
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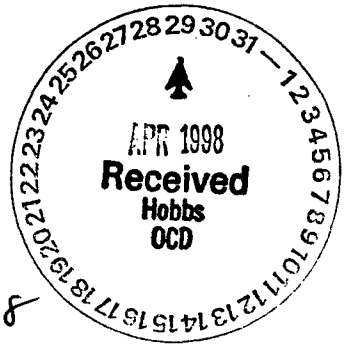
All transporters must certify the wastes delivered are only those consigned for transport.

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ATT: MARTY'S
SEE E-MAIL NOTE ATTACHED!
5/14/98



Estimated Volume 500 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: v-p DATE: 4-28-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: ENVR ENGR SPEC DATE: 5/14/98

APPROVED BY: _____ TITLE: _____ DATE: _____

Price, Wayne

From: Price, Wayne
Sent: Thursday, May 14, 1998 11:31 AM
To: Martyne Kieling
Cc: Chris Williams
Subject: C-138 Gandy-Marley / BLM Landfill closure waste

Dear Martyne:

I am dropping in the mail today a C-138 submitted by Gandy-Marley to accept some what appears to be oil field waste that was dumped into the old Loco Hills Landfill. This landfill has been closed for sometime and the BLM is cleaning it up. Apparently this landfill had some pits dug and the city of Loco Hills allowed Oil Field trucks to dump here. The report does include one name of one company.

After reviewing the documents it appears that this material is probably oil field waste. However it was also probably been co-mingled with non-oilfield waste. I have not visited the site, but Larry Gandy indicated he knew the history and several of the oilfield service companies would use this facility because it was so cheap. Larry has looked at material and in his opinion it is tank bottoms, waste crude and produced water from his observation. The analyticals pretty well coincides with this.

The BLM consultant has performed extensive testing which appears to be total values. They have run RCI & BTEX recently on a stocked pile in which they dug out of the pits.

After reviewing I found one Benzene sample that the total value was extremely high and if diluted by 20 for TCLP it would exceed the .5ppm level. However this was from one of the soil borings taken in the pit. The composite sample shows levels much less i.e. 3.2 ppm total.

There were some heavy metals noted, Chrome and Lead but all at values if divided by 20 would pass TCLP. There was one sample that reflected small quantities 8.8 ppm of 1,1,2-Trichloroethane which is not on the TCLP list but is on the RCRA "Listed Waste List" as U-227. Depending upon how it entered the landfill would probably determine if this is a listed Hazardous waste. I would have to say at this time this is an unknown.

I have signed and made notes for your review:

It is my recommendation that we have the generator and/or NMED determine if this is hazardous waste.

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 1/2 miles East of Loco Hills in old landfill area out of shollow pit area and various other piles.

Source: oilfield tank bottoms and hydrcarbon contaminated soils from unknown sources.

Disposal Location: 34 miles West of Tatum on Hiway 380

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for Burea of Land Management concur with the status of the waste from the subject site.

Name Joe Torrez

Title/Agency Bureau of Land Management

Address 2909 West Second
~~Carlsbad~~, NM 88201
Roswell

Signature Joe Torrez

Date 4-22-98

APR 1998
Received
Hobbs
OCD

325

Aspen Analytical

1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

GES
1040-A Elkton Drive
Colorado Springs, CO 80907
Attention:

Client Project ID: BLM-Loco Hills Landfill
Sample Matrix: Solid
Analysis Method: EPA 5030/8020
First Sample #: 804-0636

Sampled: Apr 22, 1998
Received: Apr 24, 1998
Reported: Apr 27, 1998

BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 804-0636 980238-02
Benzene	0.0050	3.2
Toluene	0.0050	9.2
Ethyl Benzene	0.0050	11
Total Xylenes	0.0050	24

Post-it® Fax Note 7671 | Date 4/28 | # of pages ▶ 1
To Frank LeForce | From Betty
Co./Dept. room 325 | Co. GES
Phone # | Phone # 719-598-1222
Fax # 505 887 6338 | Fax #

Quality Control Data

Report Limit Multiplication Factor:	10
Date Analyzed:	4/27/98
Instrument Identification:	HP-1
Surrogate Recovery, %: (QC Limits = 81-108%)	80

Analytes reported as N.D. were not detected above the stated reporting limit.

ASPEN ANALYTICAL

Thomas R. Fowler
Laboratory Director

APR 1998 Received Hobbs OCD

8040636.GES

TOTAL P.01

322

Aspen Analytical

1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

GES 1040-A Elkton Drive Colorado Springs, CO 80907 Attention:	Client Project ID: BLM-Loco Hills Landfill Sample Descript: Soil, 980238-02 Lab Number: 804-0636	Sampled: Apr 22, 1998 Received: Apr 24, 1998 Analyzed: Apr 27, 1998 Reported: 4/27/ & 28/1998

LABORATORY ANALYSIS

Analyte	Detection Limit	Sample Results
Corrosivity:		
pH	N.A.	8.0
Ignitability:		
Flashpoint (Pensky-Martens), °C	20 °C	> 94 °C
Reactivity:		
Sulfide, mg/kg	13	N.D.
Cyanide, mg/kg	0.50	N.D.
Reaction with water	N.A.	-

Post-it® Fax Note 7671 | Date 4/28 | # of pages ▶ 1

To Frank LeForce | From Betty

Co./Dept. room 325 | Co. GES

Phone # Jim Moots (322) | Phone # 719-598-1222

Fax # 505 887 6338 | Fax #

Analytes reported as N.D. were not present above the stated limit of detection.

ASPEN ANALYTICAL

Thomas R. Fowler
Laboratory Director

APR 1998
Received
Hobbs
OCD

0040636.GES <1>

TOTAL P.03

ASPEN ANALYTICAL CHAIN OF CUSTODY

1110 Elkton Drive, Suite A • Colorado Springs, CO 80907
(719) 593-9595 • FAX (719) 593-9911

180238

Company Name: GES, Inc.	Project Name: BLM. Loco Hills Landfill
Address: 1640 A Elkton Dr	Billing Address (# different):
City Colorado Spr. State: CO Zip Code: 80907	
Telephone: 1-719-598-1222 FAX #: 719-598-1414	P.O. #: 180238
Report To:	Sampler: Frank LaTorre

QC Data: ☐ Level A (Standard) ☐ Level B

Turnaround Time: ☐ 5 Working Days ☐ 3 Working Days ☑ 24 Hours ☑ FAX Report ☐ 2 Working Days

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested: Ign. Lab. Ign. Corrosivity Reactivity BTEX

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Aspen's Sample #	Ign. Lab.	Ign. Corrosivity	Reactivity	BTEX	Comments
1. 180238.02	4-22-98 17:00	Soil	1			Y	Y	Y	X	
2.										
3.										
4.										
5.										
6.										
7.										
8.										
9.										
10.										

Received APR 1998 Hobbs OCD

Relinquished By: Frank LaTorre	Date: 4-23-98	Time: 17:30	Received By:	Date: 4/24/98	Time: 1150
Relinquished By:	Date: 4/24/98	Time: 1521	Received By:	Date: 4/24/98	Time: 1561
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page __ of __

Pink - Client
Yellow - Sequoia
White - Sequoia

APR-28-1998 14:37 FROM GES TO 15053986887 P.02 TOTAL P.02

Turner Laboratories, Inc.

Date: 20-Apr-98

CLIENT: GES, Inc.
Lab Order: 9804167
Project: BLM, Loco Hills, #980238
Lab ID: 9804167-01A **Field pH:**

Client Sample ID: 980238-01
Tag Number:
Collection Date: 4/8/98 10:00:00 AM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
C6 - C32 HYDROCARBONS IN SOIL		**8015AZ**				Analyst: KP
Gasoline Range Organics (C6-C10)	ND	100		mg/Kg	5	4/16/98 8:12:00 PM
Diesel Range Organics (C10-C22)	1700	150		mg/Kg	5	4/16/98 8:12:00 PM
Oil Range Organics (C22-C32)	21000	2500		mg/Kg	50	4/18/98 2:09:00 AM
TPH (C6-C32)	23000	500		mg/Kg	5	4/16/98 8:12:00 PM
Surr: o-Terphenyl	552.7	70-130	S	%REC	5	4/16/98 8:12:00 PM
Surr: Trifluorotoluene	94.3	70-130		%REC	5	4/16/98 8:12:00 PM

#127

Post-it® Fax Note 7671	Date 4/21/98	# of pages ▶ 1
To Frank LeForce or	From Jim	
Co./Dept. Tom Spencer	Co. GES	
Phone # 505-748-3324	Phone # 719-598-1022	
Fax # 505-748-2868	Fax # 719-598-1474	



Qualifiers:
- ND - Not Detected at the Practical Quantitation Limit (PQL)
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

1 of 1

Received
APR 1998
Hobbs
OCD

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1001
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

WHAT EPA METHOD ?

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/25/93	0005	3.0- 5.0	%		97.0	0.10	RWL	1.0
	05/25/93	0010	8.0- 10.0	%		94.7	0.10	RWL	1.0
	05/25/93	0017	15.0- 17.0	%		98.5	0.10	RWL	1.0
ACETONE	05/25/93	0005	3.0- 5.0	UG/KG	B	16.	10.	RWL	1.
ARSENIC, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		1.3	0.99	RWL	1.0
BENZENE	05/25/93	0005	3.0- 5.0	UG/KG		6.	5.	RWL	1.
BICARBONATE	05/25/93	0005	3.0- 5.0	MG/KG		516.	50.0	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		1200.	10.0	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		213.	10.0	RWL	1.0
CALCIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		102000.	5130.	RWL	10.0
	05/25/93	0010	8.0- 10.0	MG/KG		10200.	486.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		3560.	482.	RWL	1.0
CARBONATE	05/25/93	0005	3.0- 5.0	MG/KG		206.	50.0	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		63.4	10.0	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		40.6	10.0	RWL	1.0
CHEMICAL OXYGEN DEMAND	05/25/93	0005	3.0- 5.0	MG/KG		141.	25.8	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		170.	26.4	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		174.	25.4	RWL	1.0
CHROMIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		2.8	1.0	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		4.4	0.97	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		2.4	0.96	RWL	1.0
COPPER, TOTAL	05/25/93	0017	15.0- 17.0	MG/KG		3.2	2.4	RWL	1.0
DI-N-BUTYL PHTHALATE	05/25/93	0005	3.0- 5.0	UG/KG	JB	190.	340.	RWL	1.
	05/25/93	0010	8.0- 10.0	UG/KG	JB	140.	350.	RWL	1.
	05/25/93	0017	15.0- 17.0	UG/KG	JB	170.	370.	RWL	1.
LEAD, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		3.4	0.31	RWL	1.0

Notes:
B = Compound was found in the blank and sample.
J = Result is an estimated value below the reporting limit.

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1001
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
LEAD, TOTAL	05/25/93	0010	8.0- 10.0	MG/KG		1.8	0.32	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		2.2	0.30	RWL	1.0
MAGNESIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		2080.	513.	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		2120.	486.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		756.	482.	RWL	1.0
POTASSIUM, TOTAL	05/25/93	0010	8.0- 10.0	MG/KG		700.	486.	RWL	1.0
SILICON, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		240.	10.3	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		303.	9.7	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		447.	9.6	RWL	1.0
TOTAL ORGANIC CARBON	05/25/93	0005	3.0- 5.0	MG/KG		13600.	1160.	RWL	8.0
	05/25/93	0010	8.0- 10.0	MG/KG		325.	139.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		47.2	39.3	RWL	1.0
ZINC, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		9.4	2.1	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		9.2	1.9	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		7.5	1.9	RWL	1.0

Table 2 continued

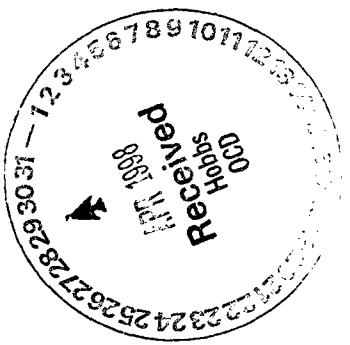
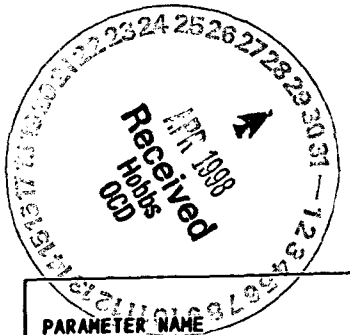


TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS



SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1002
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/25/93	0005	3.0- 5.0	%		92.0	0.10	RWL	1.0
	05/25/93	0010	8.0- 10.0	%		80.0	0.10	RWL	1.0
	05/25/93	0017	15.0- 17.0	%		84.2	0.10	RWL	1.0
1,1,2-TRICHLOROETHANE	05/25/93	0017	15.0- 17.0	UG/KG		6.	5.	RWL	1.
	05/25/93	0017	15.0- 17.0	UG/KG		11.	5.	RWL	1.
2-METHYLNAPHTHALENE	05/25/93	0005	3.0- 5.0	UG/KG	J	4500.	14000.	RWL	40.
ACETONE	05/25/93	0010	8.0- 10.0	UG/KG	B	140.	120.	RWL	10.
ARSENIC, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		4.7	1.1	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		9.7	2.4	RWL	2.0
	05/25/93	0017	15.0- 17.0	MG/KG		6.1	1.2	RWL	1.0
BENZENE	05/25/93	0017	15.0- 17.0	UG/KG	J	5.	5.	RWL	1.
	05/25/93	0017	15.0- 17.0	UG/KG		8.	5.	RWL	1.
BICARBONATE	05/25/93	0005	3.0- 5.0	MG/KG		315.	10.0	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		450.	10.0	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		368.	10.0	RWL	1.0
BIS(2-ETHYLHEXYL)PHTHALATE	05/25/93	0017	15.0- 17.0	UG/KG	J	260.	720.	RWL	1.
CALCIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		28500.	540.	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		20400.	606.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		17000.	547.	RWL	1.0
CARBONATE	05/25/93	0010	8.0- 10.0	MG/KG		50.0	10.0	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		47.5	10.0	RWL	1.0
CHEMICAL OXYGEN DEMAND	05/25/93	0005	3.0- 5.0	MG/KG		369.	27.2	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		2440.	312.	RWL	10.0
	05/25/93	0017	15.0- 17.0	MG/KG		1620.	297.	RWL	10.0
CHROMIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		4.2	1.1	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		11.7	1.2	RWL	1.0

Table 2 continued

Received
JUN 1998
Hobbs
OCD

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1002
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
CHROMIUM, TOTAL	05/25/93	0017	15.0- 17.0	MG/KG		6.5	1.1	RWL	1.0
COPPER, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		4.2	2.7	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		9.3	3.0	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		4.4	2.7	RWL	1.0
DI-N-BUTYL PHTHALATE	05/25/93	0010	8.0- 10.0	UG/KG	JB	170.	800.	RWL	2.0
	05/25/93	0010	8.0- 10.0	UG/KG	JB	210.	800.	RWL	2.0
	05/25/93	0017	15.0- 17.0	UG/KG	JB	160.	720.	RWL	1.
ETHYLBENZENE	05/25/93	0005	3.0- 5.0	UG/KG	J	1100.	2700.	RWL	500.
LEAD, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		2.1	0.32	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		5.1	0.38	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		2.4	0.36	RWL	1.0
MAGNESIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		1630.	540.	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		9600.	606.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		2660.	547.	RWL	1.0
NAPHTHALENE	05/25/93	0005	3.0- 5.0	UG/KG	J	1600.	14000.	RWL	40.
PHENANTHRENE	05/25/93	0005	3.0- 5.0	UG/KG	J	1900.	14000.	RWL	40.
POTASSIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		1170.	540.	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		3200.	606.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		1250.	547.	RWL	1.0
SILICON, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		521.	10.8	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		592.	12.1	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		610.	10.9	RWL	1.0
SODIUM, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		1270.	540.	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		5480.	606.	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		3550.	547.	RWL	1.0
TOLUENE	05/25/93	0005	3.0- 5.0	UG/KG	J	1700.	2700.	RWL	500.

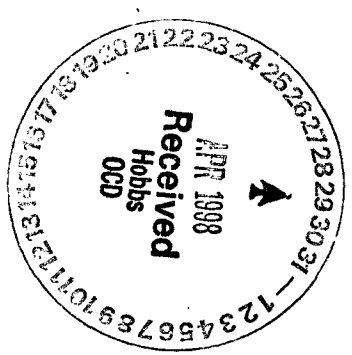
Table 2 continued

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1002
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
TOTAL ORGANIC CARBON	05/25/93	0005	3.0- 5.0	MG/KG		35200.	947.	RWL	16.0
	05/25/93	0010	8.0- 10.0	MG/KG		24400.	1100.	RWL	16.0
	05/25/93	0017	15.0- 17.0	MG/KG		11300.	748.	RWL	8.0
TOTAL XYLENES	05/25/93	0005	3.0- 5.0	UG/KG	J	2200.	2700.	RWL	500.
	05/25/93	0010	8.0- 10.0	UG/KG		140.	61.	RWL	10.
ZINC, TOTAL	05/25/93	0005	3.0- 5.0	MG/KG		10.3	2.2	RWL	1.0
	05/25/93	0010	8.0- 10.0	MG/KG		26.4	2.4	RWL	1.0
	05/25/93	0017	15.0- 17.0	MG/KG		13.9	2.2	RWL	1.0

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

Table 2 continued



Received
MAY 1998
Hobbs
OCD

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1003
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/26/93	0005	3.0- 5.0	%		88.9	0.10	RWL	-
	05/26/93	0010	8.0- 10.0	%		91.6	0.10	RWL	-
	05/26/93	0017	15.0- 17.0	%		90.0	0.10	RWL	-
1,1,2-TRICHLOROETHANE	05/26/93	0010	8.0- 10.0	UG/KG		8800.	270.	RWL	50.
2-METHYLNAPHTHALENE	05/26/93	0005	3.0- 5.0	UG/KG	J	11000.	15000.	RWL	20.
	05/26/93	0010	8.0- 10.0	UG/KG	J	12000.	14000.	RWL	20.
ACETONE	05/26/93	0017	15.0- 17.0	UG/KG		22.	11.	RWL	1.
ARSENIC, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		4.1	1.1	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		3.4	1.1	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		1.3	1.0	RWL	1.0
BENZENE	05/26/93	0010	8.0- 10.0	UG/KG		1200.	270.	RWL	50.
BICARBONATE	05/26/93	0005	3.0- 5.0	MG/KG		20400.	50.0	RWL	-
	05/26/93	0010	8.0- 10.0	MG/KG		481.	10.0	RWL	-
	05/26/93	0017	15.0- 17.0	MG/KG		211.	50.0	RWL	-
BROMOMETHANE	05/26/93	0005	3.0- 5.0	UG/KG		1500.	1100.	RWL	100.
	05/26/93	0010	8.0- 10.0	UG/KG		1700.	540.	RWL	50.
CALCIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		137000.	2810.	RWL	5.0
	05/26/93	0010	8.0- 10.0	MG/KG		159000.	2650.	RWL	5.0
	05/26/93	0017	15.0- 17.0	MG/KG		13600.	512.	RWL	1.0
CARBONATE	05/26/93	0005	3.0- 5.0	MG/KG		562.	50.0	RWL	-
	05/26/93	0010	8.0- 10.0	MG/KG		43.7	10.0	RWL	-
	05/26/93	0017	15.0- 17.0	MG/KG		316.	50.0	RWL	-
CHEMICAL OXYGEN DEMAND	05/26/93	0005	3.0- 5.0	MG/KG		2160.	702.	RWL	25.0
	05/26/93	0010	8.0- 10.0	MG/KG		268.	27.3	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		180.	26.3	RWL	1.0
CHROMIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		3.4	1.1	RWL	1.0

Table 2 continued

Received
Hobbs
OCD

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1003
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
CHROMIUM, TOTAL	05/26/93	0010	8.0- 10.0	MG/KG		3.1	1.1	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		3.6	1.0	RWL	1.0
DI-N-BUTYL PHTHALATE	05/26/93	0017	15.0- 17.0	UG/KG	JB	120.	370.	RWL	1.
ETHYLBENZENE	05/26/93	0005	3.0- 5.0	UG/KG		880.	560.	RWL	100.
	05/26/93	0010	8.0- 10.0	UG/KG		13000.	1100.	RWL	200.
LEAD, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		2.2	0.34	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		1.3	0.32	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		2.3	0.31	RWL	1.0
MAGNESIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		1890.	562.	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		2650.	530.	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		1430.	512.	RWL	1.0
NAPHTHALENE	05/26/93	0005	3.0- 5.0	UG/KG	J	5400.	15000.	RWL	20.
	05/26/93	0010	8.0- 10.0	UG/KG	J	7500.	14000.	RWL	20.
PHENANTHRENE	05/26/93	0005	3.0- 5.0	UG/KG	J	4100.	15000.	RWL	20.
	05/26/93	0010	8.0- 10.0	UG/KG	J	5700.	14000.	RWL	20.
POTASSIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		763.	562.	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		632.	530.	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		890.	512.	RWL	1.0
SILICON, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		909.	11.2	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		671.	10.6	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		712.	10.2	RWL	1.0
SODIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		1380.	562.	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		2120.	530.	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		1790.	512.	RWL	1.0
TOLUENE	05/26/93	0010	8.0- 10.0	UG/KG		1300.	270.	RWL	50.
TOTAL ORGANIC CARBON	05/26/93	0005	3.0- 5.0	MG/KG		34300.	3370.	RWL	32.0

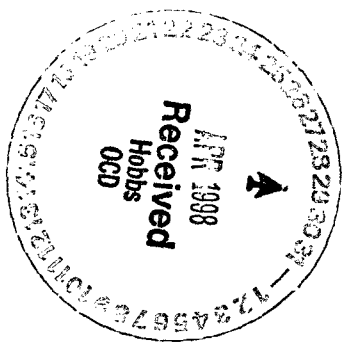
Table 2 continued

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1003
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
TOTAL ORGANIC CARBON	05/26/93	0010	8.0- 10.0	MG/KG		10900.	386.	RWL	4.0
	05/26/93	0017	15.0- 17.0	MG/KG		1050.	123.	RWL	1.0
TOTAL XYLENES	05/26/93	0010	8.0- 10.0	UG/KG		17000.	1100.	RWL	200.
ZINC, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		6.8	2.2	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		7.1	2.1	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		9.1	2.0	RWL	1.0

Table 2 continued

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS



Received
Hobbs
OCD
1998

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1004
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/26/93	0005	3.0- 5.0	%		96.5	0.10	RWL	-
	05/26/93	0010	8.0- 10.0	%		85.8	0.10	RWL	-
	05/26/93	0017	15.0- 17.0	%		93.9	0.10	RWL	-
ARSENIC, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		1.1	0.93	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		1.1	1.1	RWL	1.0
BENZENE	05/26/93	0005	3.0- 5.0	UG/KG		7.	5.	RWL	1.
BICARBONATE	05/26/93	0005	3.0- 5.0	MG/KG		1290.	50.0	RWL	-
	05/26/93	0010	8.0- 10.0	MG/KG		235.	50.0	RWL	-
	05/26/93	0017	15.0- 17.0	MG/KG		84.9	50.0	RWL	-
CALCIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		48200.	490.	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		175000.	2670.	RWL	5.0
	05/26/93	0017	15.0- 17.0	MG/KG		24100.	496.	RWL	1.0
CARBONATE	05/26/93	0010	8.0- 10.0	MG/KG		44.7	10.0	RWL	-
	05/26/93	0017	15.0- 17.0	MG/KG		21.2	10.0	RWL	-
CHEMICAL OXYGEN DEMAND	05/26/93	0005	3.0- 5.0	MG/KG		305.	25.9	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		246.	27.9	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		134.	26.5	RWL	1.0
CHROMIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		4.4	0.98	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		3.4	1.1	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		5.8	0.99	RWL	1.0
DI-N-BUTYL PHTHALATE	05/26/93	0005	3.0- 5.0	UG/KG	JB	130.	340.	RWL	1.
	05/26/93	0010	8.0- 10.0	UG/KG	JB	130.	390.	RWL	1.
	05/26/93	0017	15.0- 17.0	UG/KG	JB	120.	350.	RWL	1.
LEAD, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		2.8	0.28	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		2.2	0.32	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		3.7	0.32	RWL	1.0
MAGNESIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		1020.	490.	RWL	1.0

Table 2 continued

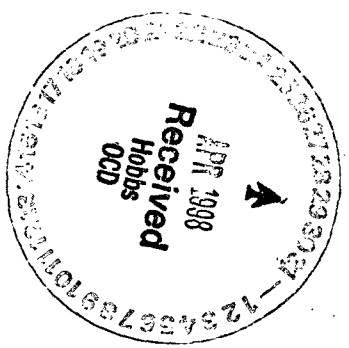
TABLE 2
ANALYTICAL RESULTS FOR SOIL BORINGS

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 1004
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
MAGNESIUM, TOTAL	05/26/93	0010	8.0- 10.0	MG/KG		2180.	534.	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		2060.	496.	RWL	1.0
POTASSIUM, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		617.	490.	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		756.	496.	RWL	1.0
SILICON, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		570.	9.8	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		510.	10.7	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		763.	9.9	RWL	1.0
TOTAL ORGANIC CARBON	05/26/93	0005	3.0- 5.0	MG/KG		1590.	175.	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		20500.	748.	RWL	8.0
	05/26/93	0017	15.0- 17.0	MG/KG		696.	192.	RWL	1.0
ZINC, TOTAL	05/26/93	0005	3.0- 5.0	MG/KG		11.2	2.0	RWL	1.0
	05/26/93	0010	8.0- 10.0	MG/KG		7.4	2.1	RWL	1.0
	05/26/93	0017	15.0- 17.0	MG/KG		12.2	2.0	RWL	1.0

Notes:
B = Compound was found in the blank and sample.
J = Result is an estimated value below the reporting limit.

Table 2 concluded



SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 4001
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/25/93	0001	0.5- 1.0	%		98.9	0.10	RWL	1.0
BICARBONATE	05/25/93	0001	0.5- 1.0	MG/KG		1210.	50.0	RWL	1.0
CALCIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		8460.	506.	RWL	1.0
CARBONATE	05/25/93	0001	0.5- 1.0	MG/KG		202.	50.0	RWL	1.0
CHEMICAL OXYGEN DEMAND	05/25/93	0001	0.5- 1.0	MG/KG		223.	25.3	RWL	1.0
CHROMIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		3.7	1.0	RWL	1.0
DI-N-BUTYL PHTHALATE	05/25/93	0001	0.5- 1.0	UG/KG	JB	180.	330.	RWL	1.
LEAD, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		2.5	0.30	RWL	1.0
MAGNESIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		595.	506.	RWL	1.0
POTASSIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		670.	506.	RWL	1.0
SILICON, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		386.	10.1	RWL	1.0
TOTAL ORGANIC CARBON	05/25/93	0001	0.5- 1.0	MG/KG		1490.	244.	RWL	1.0
ZINC, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		14.5	2.0	RWL	1.0

Notes:
B = Compound was found in the blank and sample.
J = Result is an estimated value below the reporting limit.

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TABLE 3
ANALYTICAL RESULTS FOR BACKGROUND SAMPLES

SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: [redacted]
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/25/93	0001	0.5- 1.0	%		99.1	0.10	RWL	1.0
BICARBONATE	05/25/93	0001	0.5- 1.0	MG/KG		1720.	50.0	RWL	1.0
CALCIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		10400.	502.	RWL	1.0
CARBONATE	05/25/93	0001	0.5- 1.0	MG/KG		101.	50.0	RWL	1.0
CHEMICAL OXYGEN DEMAND	05/25/93	0001	0.5- 1.0	MG/KG		315.	50.5	RWL	2.0
CHROMIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		4.0	1.0	RWL	1.0
DI-N-BUTYL PHTHALATE	05/25/93	0001	0.5- 1.0	UG/KG	JB	230.	340.	RWL	1.
LEAD, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		16.6	3.0	RWL	10.0
MAGNESIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		604.	502.	RWL	1.0
POTASSIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		562.	502.	RWL	1.0
SILICON, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		268.	10.0	RWL	1.0
TOTAL ORGANIC CARBON	05/25/93	0001	0.5- 1.0	MG/KG		1290.	160.	RWL	1.0
ZINC, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		18.4	2.0	RWL	1.0

Table 3 continued

TABLE 3
ANALYTICAL RESULTS FOR BACKGROUND SAMPLES

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SOIL CHEMISTRY DATA BY LOCATION
SITE: BLM10
LOCATION: 4003
NORTH COORDINATE: UNKNOWN
EAST COORDINATE: UNKNOWN
05/25/93 TO 06/30/93
REPORT DATE: 10/21/93

PARAMETER NAME	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	LAB CODE	DILUTION FACTOR
% SOLIDS	05/25/93	0001	0.5- 1.0	%		99.0	0.10	RWL	1.0
BICARBONATE	05/25/93	0001	0.5- 1.0	MG/KG		1310.	50.0	RWL	1.0
CALCIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		9780.	491.	RWL	1.0
CARBONATE	05/25/93	0001	0.5- 1.0	MG/KG		101.	50.0	RWL	1.0
CHEMICAL OXYGEN DEMAND	05/25/93	0001	0.5- 1.0	MG/KG		183.	25.3	RWL	1.0
CHROMIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		4.4	0.98	RWL	1.0
COPPER, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		2.6	2.5	RWL	1.0
DI-N-BUTYL PHTHALATE	05/25/93	0001	0.5- 1.0	UG/KG	JB	170.	340.	RWL	1.
LEAD, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		15.0	3.0	RWL	10.0
MAGNESIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		717.	491.	RWL	1.0
POTASSIUM, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		843.	491.	RWL	1.0
SILICON, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		444.	9.8	RWL	1.0
TOTAL ORGANIC CARBON	05/25/93	0001	0.5- 1.0	MG/KG		952.	110.	RWL	1.0
ZINC, TOTAL	05/25/93	0001	0.5- 1.0	MG/KG		13.0	2.0	RWL	1.0

Notes:
B = Compound was found in the blank and sample.
J = Result is an estimated value below the reporting limit.

Table 3 concluded

TABLE 3
ANALYTICAL RESULTS FOR BACKGROUND SAMPLES

5.0 SUMMARY AND CONCLUSIONS

The Loco Hills Landfill FSI attempted to gather data necessary to evaluate the site as a candidate for the NPL. Soil samples were collected and analyzed to characterize the types of substances deposited at the site and potential migration pathways. Additionally, information was collected to confirm target populations and environments potentially at risk from the site. Previous investigation information was also utilized in the evaluation process.

The Loco Hills Landfill accepted an unknown quantity of municipal and oil field waste. Municipal waste was impounded in open, unlined trenches and covered with soil. One open trench contained an estimated 889 cubic yards of municipal waste. The oil field waste consisted of approximately 369 yd^3 of oil sludge dumped in three (3) locations. Landfilling operations ceased in late 1989. A chain link fence had been constructed prior to the closing of the landfill.

Ground water was not encountered within 200 feet depth of the Loco Hills site surface elevation therefore no analysis was possible. However, soils samples were obtained to depths of approximately 17 feet in each of the four (4) source locations. Arsenic and Benzene were identified as releases at location 1001. Benzene and Xylenes were identified as releases at location 1002. At location 1003, 1,1,2 Trichloroethane, Acetone, Arsenic, Benzene, Bromomethane, Ethylbenzene, Toluene and Xylene were identified as releases. Arsenic and Benzene were identified as releases at location 1004.

Sediment samples obtained downstream and off-site in a previous investigation revealed an absence of organic compounds. Thus, no release due to surface water runoff has occurred.

There are no targets for surface water and groundwater migration from the site.

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6.0 REFERENCES

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9. David Putt, P.E., Vice President, Urban Engineering. 1993. Loco Hills Landfill Topographic Survey.

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WESTON ANALYTICS
VOLATILE ANALYTICAL DATA PACKAGE FOR
BLM - LOCO HILLS

DATE RECEIVED: 05/20/88

CLIENT ID	RFW BATCH NUMBER	COLLECTION	EXTR./PREP.	ANALYSIS
BLM-04-03	8805-044-001	05/17/88	NA	05/30/88
BLM-04-04	8805-044-002	05/17/88	NA	05/30/88
BLM-04-06	8805-044-003	05/17/88	NA	05/30/88
LAB QC:				
BLANK 05/30	8805-044-0001BL	NA	NA	05/30/88

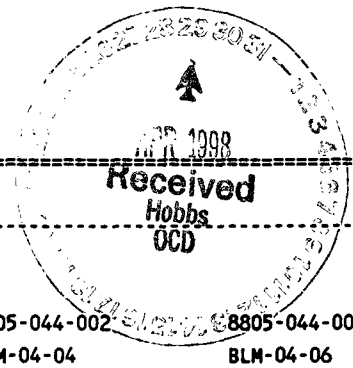
Who is to review this data?
Tech. assistance contractor?



[signature] June 9/88
DATE

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WESTON ANALYTICS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS



RFW Batch Number: 8805-044 Client: BLM - LOCO HILLS Page

Sample Information

RFW Batch ID:	8805-044-0001BL	8805-044-001	8805-044-002	8805-044-003
Customer ID:	BLANK 05/30	BLM-04-03	BLM-04-04	BLM-04-06
Matrix:	Water	Soil	Soil	Soil
Units:	UG/L	UG/KG	UG/KG	UG/KG
Dilution Factor:	1	5	1	1

Surrogate Recovery

Toluene-d8:	84 %	123 %	93 %	91 %
Bromofluorobenzene:	90 %	71 %	91 %	97 %
1,2-Dichloroethane-d4:	107 %	112 %	110 %	114 %

Analytes

Chloromethane	10 U	50 U	10 U	10 U
Bromomethane	10 U	50 U	10 U	10 U
Vinyl Chloride	10 U	50 U	10 U	10 U
Chloroethane	10 U	50 U	10 U	10 U
Methylene Chloride	5.0 U	12 J	3.0 J	3.0 J
Acetone	10 U	32 J	10 U	13
Carbon Disulfide	5.0 U	25 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	25 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	25 U	5.0 U	5.0 U
Trans-1,2-Dichloroethene	5.0 U	25 U	5.0 U	5.0 U
Chloroform	5.0 U	25 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	25 U	5.0 U	5.0 U
2-Butanone	10 U	50 U	10 U	10 U
1,1,1-Trichloroethane	5.0 U	25 U	5.0 U	5.0 U
Carbon Tetrachloride	5.0 U	25 U	5.0 U	5.0 U
Vinyl Acetate	10 U	50 U	10 U	10 U
Bromodichloromethane	5.0 U	25 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	25 U	5.0 U	5.0 U
Trans-1,3-Dichloropropene	5.0 U	25 U	5.0 U	5.0 U
Trichloroethene	5.0 U	25 U	5.0 U	5.0 U
Dibromochloromethane	5.0 U	25 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	25 U	5.0 U	5.0 U
Benzene	5.0 U	25 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	25 U	5.0 U	5.0 U
2-Chloroethylvinylether	10 U	50 U	10 U	10 U
Bromoform	5.0 U	25 U	5.0 U	5.0 U
4-Methyl-2-pentanone	10 U	50 U	10 U	10 U
2-Hexanone	10 U	50 U	10 U	10 U
Tetrachloroethene	5.0 U	25 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	25 U	5.0 U	5.0 U
Toluene	5.0 U	25 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	25 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	25 U	5.0 U	5.0 U
Styrene	5.0 U	25 U	5.0 U	5.0 U
Total Xylenes	5.0 U	25 U	5.0 U	5.0 U

Modifiers: U=Analyzed, not detected. J=Present below detection limit. B=Present in blank. NS=Not spiked. %=Percent recov

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VOLATILE ANALYTICAL DATA PACKAGE FOR
BLM - LOCO HILLS

DATE RECEIVED: 05/18/88

CLIENT ID	RFW BATCH NUMBER	COLLECTION	EXTR./PREP.	ANALYSIS
BLM 04-01	8805-036-001	05/17/88	NA	05/25/88
BLM 04-02	8805-036-004	05/17/88	NA	05/25/88
LAB QC:				
BLANK 05/25	8805-036-0001BL	NA	NA	05/25/88

WASTE
NOT
PIT
BORING!



June 9/88
DATE

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WESTON ANALYTICS
GC/MS DATA SUMMARY
Volatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS Page: 1

Sample Information

RFW Batch ID:	8805-036-00018L	8805-036-001	8805-036-004
Customer ID:	BLANK 05/25	BLM 04-01	BLM 04-02
Matrix:	Water	Soil	Soil
Units:	UG/L	UG/KG	UG/KG
Dilution Factor:	1	4000	4000

Surrogate Recovery

Toluene-d8:	102 %	100 %	102 %
Bromofluorobenzene:	100 %	97 %	94 %
1,2-Dichloroethane-d4:	99 %	109 %	109 %

Analytes

Chloromethane	10 U	43000 U	49000 U
Bromomethane	10 U	43000 U	49000 U
Vinyl Chloride	10 U	43000 U	49000 U
Chloroethane	10 U	43000 U	49000 U
Methylene Chloride	5.0 U	15000 J	7800 J
Acetone	2 J	25000 J	49000 U
Carbon Disulfide	5.0 U	21000 U	24000 U
1,1-Dichloroethene	5.0 U	21000 U	24000 U
1,1-Dichloroethane	5.0 U	21000 U	24000 U
Trans-1,2-Dichloroethene	5.0 U	21000 U	24000 U
Chloroform	5.0 U	21000 U	24000 U
1,2-Dichloroethane	5.0 U	21000 U	24000 U
2-Butanone	10 U	43000 U	49000 U
1,1,1-Trichloroethane	5.0 U	21000 U	24000 U
Carbon Tetrachloride	5.0 U	21000 U	24000 U
Vinyl Acetate	10 U	43000 U	49000 U
Bromodichloromethane	5.0 U	21000 U	24000 U
1,2-Dichloropropane	5.0 U	21000 U	24000 U
Trans-1,3-Dichloropropene	5.0 U	21000 U	24000 U
Trichloroethene	5.0 U	21000 U	24000 U
Dibromochloromethane	5.0 U	21000 U	24000 U
1,1,2-Trichloroethane	5.0 U	21000 U	24000 U
Benzene	5.0 U	9300 J	160000
cis-1,3-Dichloropropene	5.0 U	21000 U	24000 U
2-Chloroethylvinylether	10 U	43000 U	49000 U
Bromoform	5.0 U	21000 U	24000 U
4-Methyl-2-pentanone	10 U	43000 U	49000 U
2-Hexanone	10 U	43000 U	49000 U
Tetrachloroethene	5.0 U	21000 U	24000 U
1,1,2,2-Tetrachloroethane	5.0 U	21000 U	24000 U
Toluene	5.0 U	56000	430000
Chlorobenzene	5.0 U	21000 U	24000 U
Ethylbenzene	5.0 U	63000	260000
Styrene	5.0 U	21000 U	24000 U
Total Xylenes	5.0 U	164000	60000

160 ÷ 8
20 - DILUTION
87.5 (LIMIT)

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WESTON ANALYTICS
SEMIVOLATILE ANALYTICAL DATA PACKAGE FOR
BLM - LOCO HILLS

DATE RECEIVED: 05/18/88

CLIENT ID	RFW BATCH NUMBER	COLLECTION	EXTR./PREP.	ANALYSIS
BLM 04-01	8805-036-002	05/17/88	05/24/88	06/01/88
BLM 04-02	8805-036-005	05/17/88	05/24/88	05/28/88
BLM 04-03	8805-036-008	05/17/88	05/24/88	06/01/88
BLM 04-04	8805-036-010	05/17/88	05/24/88	06/03/88
BLM 04-05	8805-036-012	05/17/88	05/24/88	05/29/88
BLM 04-06	8805-036-014	05/17/88	05/24/88	05/28/88
BLM 04-06	8805-036-014 MS	05/17/88	05/24/88	06/03/88
BLM 04-06	8805-036-014 MSD	05/17/88	05/24/88	06/03/88
LAB QC:				
BLANK 06/01	8805-036-0001BL	NA	05/24/88	06/01/88

June 9/88
DATE

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WESTON ANALYTICS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS Page: 1

Sample Information

RFW Batch ID:	8805-036-0001BL	8805-036-002	8805-036-005	8805-036-008
Customer ID:	BLANK 06/01	BLM 04-01	BLM 04-02	BLM 04-03
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1	10	100	5

Surrogate Recovery

2-Fluorophenol:	99 %	DL	DL	78 %
Phenol-d5:	107 %	DL	DL	93 %
2,4,6-Br3-Phenol:	116 %	DL	DL	111 %
Nitrobenzene-d5:	89 %	DL	DL	110 %
2-Fluorobiphenyl:	90 %	DL	DL	105 %
p-Terphenyl-d14:	100 %	DL	DL	77 %

Analytes

Phenol	330 U	3500 U	40000 U	1700 U
bis(2-Chloroethyl)Ether	330 U	3500 U	40000 U	1700 U
2-Chlorophenol	330 U	3500 U	40000 U	1700 U
1,3-Dichlorobenzene	330 U	3500 U	40000 U	1700 U
1,4-Dichlorobenzene	330 U	3500 U	40000 U	1700 U
Benzyl Alcohol	330 U	3500 U	40000 U	1700 U
1,2-Dichlorobenzene	330 U	3500 U	40000 U	1700 U
2-Methylphenol	330 U	3500 U	40000 U	1700 U
bis(2-Chloroisopropyl)Ether	330 U	3500 U	40000 U	1700 U
4-Methylphenol	330 U	3500 U	40000 U	1700 U
N-Nitroso-di-n-propylamine	330 U	3500 U	40000 U	1700 U
Hexachloroethane	330 U	3500 U	40000 U	1700 U
Nitrobenzene	330 U	3500 U	40000 U	1700 U
Isophorone	330 U	3500 U	40000 U	1700 U
2-Nitrophenol	330 U	3500 U	40000 U	1700 U
2,4-Dimethylphenol	330 U	3500 U	40000 U	1700 U
Benzoic Acid	1600 U	18000 U	200000 U	8600 U
bis(2-Chloroethoxy)Methane	330 U	3500 U	40000 U	1700 U
2,4-Dichlorophenol	330 U	3500 U	40000 U	1700 U
1,2,4-Trichlorobenzene	330 U	3500 U	40000 U	1700 U
Naphthalene	330 U	3500 U	44000	1700 U
4-Chloroaniline	330 U	3500 U	40000 U	1700 U
Hexachlorobutadiene	330 U	3500 U	40000 U	1700 U
4-Chloro-3-methylphenol	330 U	3500 U	40000 U	1700 U
2-Methylnaphthalene	330 U	3500 U	110000	1700 U
Hexachlorocyclopentadiene	330 U	3500 U	40000 U	1700 U
2,4,6-Trichlorophenol	330 U	3500 U	40000 U	1700 U
2,4,5-Trichlorophenol	1600 U	18000 U	200000 U	8600 U
2-Chloronaphthalene	330 U	3500 U	40000 U	1700 U
2-Nitroaniline	1600 U	18000 U	200000 U	8600 U
Dimethyl Phthalate	330 U	3500 U	40000 U	1700 U
Acenaphthylene	330 U	3500 U	40000 U	1700 U

(continued)

WESTON ANALYTICS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 9805-036 Client: BLM - LOCO HILLS

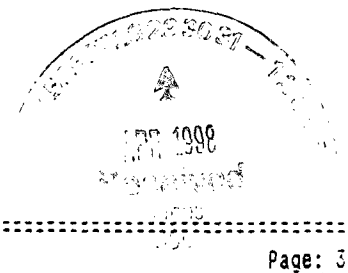
Sample Information

RFW Batch ID:	9805-036-0001BL	9805-036-002	9805-036-005	9805-036-008
Customer ID:	BLANK 06/01	BLM 04-01	BLM 04-02	BLM 04-03
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1	10	100	5

Analytes

2-Nitroaniline	1600 U	18000 U	200000 U	8600 U
Acenaphthene	330 U	3500 U	11000 J	1700 U
2,4-Dinitrophenol	1600 U	18000 U	200000 U	8600 U
4-Nitrophenol	1600 U	18000 U	200000 U	8600 U
Dibenzofuran	330 U	3500 U	17000 J	1700 U
2,4-Dinitrotoluene	330 U	3500 U	11000 J	1700 U
2,6-Dinitrotoluene	330 U	3500 U	40000 U	1700 U
Diethylphthalate	330 U	3500 U	40000 U	1700 U
4-Chlorophenyl-phenylether	330 U	3500 U	40000 U	1700 U
Fluorene	330 U	700 J	13000 J	1700 U
4-Nitroaniline	1600 U	18000 U	200000 U	8600 U
4,6-Dinitro-2-methylphenol	1600 U	18000 U	200000 U	8600 U
N-Nitrosodiphenylamine	330 U	3500 U	40000 U	1700 U
4-Bromophenyl-phenylether	330 U	3500 U	40000 U	1700 U
Hexachlorobenzene	330 U	3500 U	40000 U	1700 U
Pentachlorophenol	1600 U	18000 U	200000 U	8600 U
Phenanthrene	330 U	1200 J	25000 J	1700 U
Anthracene	330 U	730 J	40000 U	1700 U
Di-n-Butyl Phthalate	78 J	3500 U	40000 U	1700 U
Fluoranthene	330 U	3500 U	40000 U	1700 U
Pyrene	330 U	3500 U	40000 U	1700 U
Butyl Benzyl Phthalate	330 U	3500 U	40000 U	1700 U
3,3'-Dichlorobenzidine	660 U	7000 U	80000 U	3400 U
Benzo(a)Anthracene	330 U	3500 U	40000 U	1700 U
bis(2-Ethylhexyl)Phthalate	330 U	3500 U	9200 J	1700 U
Chrysene	330 U	3500 U	9300 J	1700 U
Di-n-Octyl Phthalate	330 U	3500 U	5300 J	1700 U
Benzo(b)Fluoranthene	330 U	3500 U	40000 U	1700 U
Benzo(k)Fluoranthene	330 U	3500 U	40000 U	1700 U
Benzo(a)Pyrene	330 U	3500 U	40000 U	1700 U
Indeno(1,2,3-cd)Pyrene	330 U	3500 U	40000 U	1700 U
Dibenz(a,h)Anthracene	330 U	3500 U	40000 U	1700 U
Benzo(g,h,i)Perylene	330 U	3500 U	40000 U	1700 U

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WESTON ANALYTICS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

RFW Batch ID:	8805-036-010	8805-036-012	8805-036-014	8805-036-014 MS
Customer ID:	BLM 04-04	BLM 04-05	BLM 04-06	BLM 04-06
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1	50	1	1

Sample Information

2-Fluorophenol:	104 %	DL	69 %	83 %
Phenol-d5:	103 %	DL	72 %	79 %
2,4,6-Br3-Phenol:	110 %	DL	83 %	82 %
Nitrobenzene-d5:	84 %	DL	46 %	69 %
2-Fluorobiphenyl:	95 %	DL	46 %	73 %
p-Terphenyl-d14:	139 %	DL	91 %	98 %

Sample Information

Phenol	340 U	17000 U	340 U	71 %
bis(2-Chloroethyl)Ether	340 U	17000 U	340 U	340 U
2-Chlorophenol	340 U	17000 U	340 U	72 %
1,3-Dichlorobenzene	340 U	17000 U	340 U	340 U
1,4-Dichlorobenzene	340 U	17000 U	340 U	62 %
Benzyl Alcohol	340 U	17000 U	340 U	340 U
1,2-Dichlorobenzene	340 U	17000 U	340 U	340 U
2-Methylphenol	340 U	17000 U	340 U	340 U
bis(2-Chloroisopropyl)Ether	340 U	17000 U	340 U	340 U
4-Methylphenol	340 U	17000 U	340 U	340 U
N-Nitroso-di-n-propylamine	340 U	17000 U	340 U	70 %
Hexachloroethane	340 U	17000 U	340 U	340 U
Nitrobenzene	340 U	17000 U	340 U	340 U
Isophorone	340 U	17000 U	340 U	340 U
2-Nitrophenol	340 U	17000 U	340 U	340 U
2,4-Dimethylphenol	340 U	17000 U	340 U	340 U
Benzoic Acid	1700 U	84000 U	1700 U	1700 U
bis(2-Chloroethoxy)Methane	340 U	17000 U	340 U	340 U
2,4-Dichlorophenol	340 U	17000 U	340 U	340 U
1,2,4-Trichlorobenzene	340 U	17000 U	340 U	62 %
Naphthalene	340 U	17000 U	340 U	340 U
4-Chloroaniline	340 U	17000 U	340 U	340 U
Hexachlorobutadiene	340 U	17000 U	340 U	340 U
4-Chloro-3-methylphenol	340 U	17000 U	340 U	68 %
2-Methylnaphthalene	340 U	17000 U	340 U	340 U
Hexachlorocyclopentadiene	340 U	17000 U	340 U	340 U
2,4,6-Trichlorophenol	340 U	17000 U	340 U	340 U
2,4,5-Trichlorophenol	1700 U	84000 U	1700 U	1700 U
2-Chloronaphthalene	340 U	17000 U	340 U	340 U
2-Nitroaniline	1700 U	84000 U	1700 U	1700 U
Dimethyl Phthalate	340 U	17000 U	340 U	340 U
Acenaphthylene	340 U	17000 U	340 U	340 U

(continued)

WESTON ANALYTICS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

RFW Batch ID:	8805-036-010	8805-036-012	8805-036-014	8805-036-014 MS
Customer ID:	BLM 04-04	BLM 04-05	BLM 04-06	BLM 04-06
Matrix:	Soil	Soil	Soil	Soil
Units:	UG/KG	UG/KG	UG/KG	UG/KG
Dilution Factor:	1	50	1	1

Sample Information

3-Nitroaniline.....	1700 U	84000 U	1700 U	1700 U
Acenaphthene.....	340 U	17000 U	340 U	66 %
2,4-Dinitrophenol.....	1700 U	84000 U	1700 U	1700 U
4-Nitrophenol.....	1700 U	84000 U	1700 U	66 %
Dibenzofuran.....	340 U	17000 U	340 U	340 U
2,4-Dinitrotoluene.....	340 U	17000 U	340 U	64 %
2,6-Dinitrotoluene.....	340 U	17000 U	340 U	340 U
Diethylphthalate.....	340 U	17000 U	340 U	340 U
4-Chlorophenyl-phenylether.....	340 U	17000 U	340 U	340 U
Fluorene.....	340 U	17000 U	340 U	340 U
4-Nitroaniline.....	1700 U	84000 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol.....	1700 U	84000 U	1700 U	1700 U
N-Nitrosodiphenylamine.....	44 J	17000 U	340 U	40 J
4-Bromophenyl-phenylether.....	340 U	17000 U	340 U	340 U
Hexachlorobenzene.....	340 U	17000 U	340 U	340 U
Pentachlorophenol.....	1700 U	84000 U	1700 U	55 %
Phenanthrene.....	340 U	17000 U	340 U	340 U
Anthracene.....	340 U	17000 U	340 U	340 U
Di-n-Butyl Phthalate.....	340 U	17000 U	340 U	1200
Fluoranthene.....	340 U	17000 U	340 U	340 U
Pyrene.....	340 U	17000 U	340 U	90 %
Butyl Benzyl Phthalate.....	340 U	17000 U	340 U	340 U
3,3'-Dichlorobenzidine.....	680 U	34000 U	670 U	670 U
Benzo(a)Anthracene.....	340 U	17000 U	340 U	340 U
bis(2-Ethylhexyl)Phthalate.....	34 J	17000 U	42 J	340 U
Chrysene.....	340 U	17000 U	340 U	340 U
di-n-Octyl Phthalate.....	340 U	17000 U	340 U	340 U
Benzo(b)Fluoranthene.....	340 U	17000 U	340 U	340 U
Benzo(k)Fluoranthene.....	340 U	17000 U	340 U	340 U
Benzo(a)Pyrene.....	340 U	17000 U	340 U	340 U
Indeno(1,2,3-cd)Pyrene.....	340 U	17000 U	340 U	340 U
Dibenz(a,h)Anthracene.....	340 U	17000 U	340 U	340 U
Benzo(g,h,i)Perylene.....	340 U	17000 U	340 U	340 U

WESTON ANALYTICS
GC/MS DATA SUMMARY
Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

RFW Batch ID:	8805-036-014 MSD
Customer ID:	BLM 04-06
Matrix:	Soil
Units:	UG/KG
Dilution Factor:	1

Surrogate Recovery

2-Fluorophenol:	81 %
Phenol-d5:	79 %
2,4,6-Br3-Phenol:	88 %
Nitrobenzene-d5:	72 %
2-Fluorobiphenyl:	77 %
p-Terphenyl-d14:	104 %

Analytes

Phenol	71	%
bis(2-Chloroethyl)Ether	340	U
2-Chlorophenol	72	%
1,3-Dichlorobenzene	340	U
1,4-Dichlorobenzene	62	%
Benzyl Alcohol	340	U
1,2-Dichlorobenzene	340	U
2-Methylphenol	340	U
bis(2-Chloroisopropyl)Ether	340	U
4-Methylphenol	340	U
N-Nitroso-di-n-propylamine	70	%
Hexachloroethane	340	U
Nitrobenzene	340	U
Isophorone	340	U
2-Nitrophenol	340	U
2,4-Dimethylphenol	340	U
Benzoic Acid	1700	U
bis(2-Chloroethoxy)Methane	340	U
2,4-Dichlorophenol	340	U
1,2,4-Trichlorobenzene	64	%
Naphthalene	340	U
4-Chloroaniline	340	U
Hexachlorobutadiene	340	U
4-Chloro-3-methylphenol	70	%
2-Methylnaphthalene	340	U
Hexachlorocyclopentadiene	340	U
2,4,6-Trichlorophenol	340	U
2,4,5-Trichlorophenol	1700	U
2-Chloronaphthalene	340	U
2-Nitroaniline	1700	U
Dimethyl Phthalate	340	U
Acenaphthylene	340	U
3-Nitroaniline	1700	U

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WESTON ANALYTICS
GC/MS DATA SUMMARY

Semivolatile HAZARDOUS SUBSTANCE LIST COMPOUNDS

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

RFW Batch ID:	8805-036-014 MSD
Customer ID:	BLM 04-06
Matrix:	Soil
Units:	UG/KG
Dilution Factor:	1

Analytes

Acenaphthene	68	%
2,4-Dinitrophenol	1700	U
4-Nitrophenol	69	%
Dibenzofuran	340	U
2,4-Dinitrotoluene	68	%
2,6-Dinitrotoluene	340	U
Diethylphthalate	340	U
4-Chlorophenyl-phenylether	340	U
Fluorene	340	U
4-Nitroaniline	1700	U
4,6-Dinitro-2-methylphenol	1700	U
N-Nitrosodiphenylamine	43	J
4-Bromophenyl-phenylether	340	U
Hexachlorobenzene	340	U
Pentachlorophenol	58	%
Phenanthrene	340	U
Anthracene	340	U
di-n-Butyl Phthalate	1300	
Fluoranthene	340	U
Pyrene	96	%
Butyl Benzyl Phthalate	340	U
3,3'-Dichlorobenzidine	670	U
Benzo(a)Anthracene	340	U
bis(2-Ethylhexyl)Phthalate	340	U
Chrysene	340	U
di-n-Octyl Phthalate	340	U
Benzo(b)Fluoranthene	340	U
Benzo(k)Fluoranthene	340	U
Benzo(a)Pyrene	340	U
Indeno(1,2,3-cd)Pyrene	340	U
Dibenz(a,h)Anthracene	340	U
Benzo(g,h,i)Perylene	340	U

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WESTON

Client: BLM Loco Hills

Sample ID: Blank QA88112

Sampled: NA
Received: NA

Matrix: SOIL

RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S — EPA 8080

Extracted:	05/24/88	Ext Fact:	3
Analyzed:	05/27/88	Dil Fact:	100
Confirmed:	NC	Blank ID:	NA

RFW Lab #: NA Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.25
BHC-beta	U	0.25
BHC-delta	U	0.25
BHC-gamma (Lindane)	U	0.25
Heptachlor	U	0.25
Aldrin	U	0.25
Heptachlor Epoxide	U	0.25
Endosulfan I	U	0.25
Dieldrin	U	0.51
4,4'-DDE	U	0.51
Endrin	U	0.51
4,4'-DDD	U	0.51
Endosulfan II	U	0.51
4,4'-DDT	U	0.51
Endrin Aldehyde	U	0.51
Endosulfan Sulfate	U	0.51
Endrin Ketone	U	0.51
Methoxychlor	U	2.54
Chlordane-gamma	U	2.54
Chlordane-alpha	U	2.54
Toxaphene	U	5.08
Aroclor 1016	U	2.54
Aroclor 1221	U	2.54
Aroclor 1232	U	2.54
Aroclor 1242	U	2.54
Aroclor 1248	U	2.54
Aroclor 1254	U	5.08
Aroclor 1260	U	5.08

U = Compound analyzed for but not detected
All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager

WESTON

Client: BLM Loco Hills

Sample ID: BLM 04-01

Sampled: 05/17/88 Matrix: SOIL

Received: 05/18/88 % Moist: 6.2

RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S EPA 8080

Extracted: 05/24/88 Ext Fact: 3

Analyzed: 05/27/88 Dil Fact: 100

Confirmed: NC Blank ID: QA88112

RFW Lab #: 002

Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.27
BHC-beta	U	0.27
BHC-delta	U	0.27
BHC-gamma (Lindane)	U	0.27
Heptachlor	U	0.27
Aldrin	U	0.27
Heptachlor Epoxide	U	0.27
Endosulfan I	U	0.27
Dieldrin	U	0.53
4,4'-DDE	U	0.53
Endrin	U	0.53
4,4'-DDD	U	0.53
Endosulfan II	U	0.53
4,4'-DDT	U	0.53
Endrin Aldehyde	U	0.53
Endosulfan Sulfate	U	0.53
Endrin Ketone	U	0.53
Methoxychlor	U	2.67
Chlordane-gamma	U	2.67
Chlordane-alpha	U	2.67
Toxaphene	U	5.33
Aroclor 1016	U	2.67
Aroclor 1221	U	2.67
Aroclor 1232	U	2.67
Aroclor 1242	U	2.67
Aroclor 1248	U	2.67
Aroclor 1254	U	5.33
Aroclor 1260	U	5.33

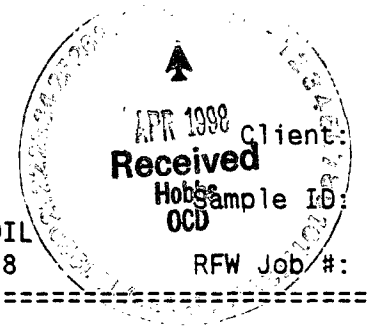
U = Compound analyzed for but not detected

All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager

WESTON



Client: BLM Loco Hills

Sample ID: BLM 04-02

Sampled: 05/17/88 Matrix: SOIL

Received: 05/18/88 % Moist: 18 RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S EPA 8080

Extracted:	05/24/88	Ext Fact:	3
Analyzed:	05/27/88	Dil Fact:	100
Confirmed:	NC	Blank ID:	QA88112

RFW Lab #: 005 Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.30
BHC-beta	U	0.30
BHC-delta	U	0.30
BHC-gamma (Lindane)	U	0.30
Heptachlor	U	0.30
Aldrin	U	0.30
Heptachlor Epoxide	U	0.30
Endosulfan I	U	0.30
Dieldrin	U	0.61
4,4'-DDE	U	0.61
Endrin	U	0.61
4,4'-DDD	U	0.61
Endosulfan II	U	0.61
4,4'-DDT	U	0.61
Endrin Aldehyde	U	0.61
Endosulfan Sulfate	U	0.61
Endrin Ketone	U	0.61
Methoxychlor	U	3.05
Chlordane-gamma	U	3.05
Chlordane-alpha	U	3.05
Toxaphene	U	6.10
Aroclor 1016	U	3.05
Aroclor 1221	U	3.05
Aroclor 1232	U	3.05
Aroclor 1242	U	3.05
Aroclor 1248	U	3.05
Aroclor 1254	U	6.10
Aroclor 1260	U	6.10

U = Compound analyzed for but not detected

All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager

WESTON

Client: BLM Loco Hills

Sample ID: BLM 04-03

Sampled: 05/17/88 Matrix: SOIL
Received: 05/18/88 % Moist: 4.4 RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S EPA 8080

Extracted: 05/24/88 Ext Fact: 3
Analyzed: 05/27/88 Dil Fact: 100
Confirmed: NC Blank ID: QA88112

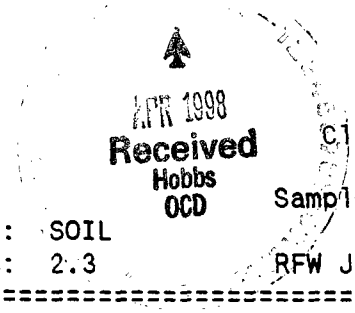
RFW Lab #: 008 Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.26
BHC-beta	U	0.26
BHC-delta	U	0.26
BHC-gamma (Lindane)	U	0.26
Heptachlor	U	0.26
Aldrin	U	0.26
Heptachlor Epoxide	U	0.26
Endosulfan I	U	0.26
Dieldrin	U	0.52
4,4'-DDE	U	0.52
Endrin	U	0.52
4,4'-DDD	U	0.52
Endosulfan II	U	0.52
4,4'-DDT	U	0.52
Endrin Aldehyde	U	0.52
Endosulfan Sulfate	U	0.52
Endrin Ketone	U	0.52
Methoxychlor	U	2.62
Chlordane-gamma	U	2.62
Chlordane-alpha	U	2.62
Toxaphene	U	5.23
Aroclor 1016	U	2.62
Aroclor 1221	U	2.62
Aroclor 1232	U	2.62
Aroclor 1242	U	2.62
Aroclor 1248	U	2.62
Aroclor 1254	U	5.23
Aroclor 1260	U	5.23

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U = Compound analyzed for but not detected
All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager



WESTON

Client: BLM Loco Hills

Sample ID: BLM 04-04

Sampled: 05/17/88 Matrix: SOIL

Received: 05/18/88 % Moist: 2.3

RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S EPA 8080

Extracted:	05/24/88	Ext Fact:	3
Analyzed:	05/27/88	Dil Fact:	100
Confirmed:	NC	Blank ID:	QA88112

RFW Lab #: 010 Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.26
BHC-beta	U	0.26
BHC-delta	U	0.26
BHC-gamma (Lindane)	U	0.26
Heptachlor	U	0.26
Aldrin	U	0.26
Heptachlor Epoxide	U	0.26
Endosulfan I	U	0.26
Dieldrin	U	0.51
4,4'-DDE	U	0.51
Endrin	U	0.51
4,4'-DDD	U	0.51
Endosulfan II	U	0.51
4,4'-DDT	U	0.51
Endrin Aldehyde	U	0.51
Endosulfan Sulfate	U	0.51
Endrin Ketone	U	0.51
Methoxychlor	U	2.56
Chlordane-gamma	U	2.56
Chlordane-alpha	U	2.56
Toxaphene	U	5.12
Aroclor 1016	U	2.56
Aroclor 1221	U	2.56
Aroclor 1232	U	2.56
Aroclor 1242	U	2.56
Aroclor 1248	U	2.56
Aroclor 1254	U	5.12
Aroclor 1260	U	5.12

U = Compound analyzed for but not detected

All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager

WESTON

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Client: BLM Loco Hills

Sample ID: BLM 04-05

Sampled: 05/17/88
Received: 05/18/88

Matrix: SOIL
% Moist: 1.9

RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S — EPA 8080

Extracted: 05/24/88
Analyzed: 05/27/88
Confirmed: NC

Ext Fact: 3
Dil Fact: 100
Blank ID: QA88112

RFW Lab #: 012

Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.25
BHC-beta	U	0.25
BHC-delta	U	0.25
BHC-gamma (Lindane)	U	0.25
Heptachlor	U	0.25
Aldrin	U	0.25
Heptachlor Epoxide	U	0.25
Endosulfan I	U	0.25
Dieldrin	U	0.51
4,4'-DDE	U	0.51
Endrin	U	0.51
4,4'-DDD	U	0.51
Endosulfan II	U	0.51
4,4'-DDT	U	0.51
Endrin Aldehyde	U	0.51
Endosulfan Sulfate	U	0.51
Endrin Ketone	U	0.51
Methoxychlor	U	2.55
Chlordane-gamma	U	2.55
Chlordane-alpha	U	2.55
Toxaphene	U	5.10
Aroclor 1016	U	2.55
Aroclor 1221	U	2.55
Aroclor 1232	U	2.55
Aroclor 1242	U	2.55
Aroclor 1248	U	2.55
Aroclor 1254	U	5.10
Aroclor 1260	U	5.10

U = Compound analyzed for but not detected
All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager

WESTON

APR 1988
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Client: BLM Loco Hills

Sampled: 05/17/88 Matrix: SOIL Sample ID: BLM 04-06
Received: 05/18/88 % Moist: 1.5 RFW Job #: 8805s036

ORGANOCHLORINE PESTICIDES/PCB'S EPA 8080

Extracted: 05/24/88 Ext Fact: 3
Analyzed: 05/27/88 Dil Fact: 100
Confirmed: NC Blank ID: QA88112

RFW Lab #: 014

Compound	Results (ppm) mg/Kg	Det Limit Sample mg/Kg
BHC-alpha	U	0.25
BHC-beta	U	0.25
BHC-delta	U	0.25
BHC-gamma (Lindane)	U	0.25
Heptachlor	U	0.25
Aldrin	U	0.25
Heptachlor Epoxide	U	0.25
Endosulfan I	U	0.25
Dieldrin	U	0.51
4,4'-DDE	U	0.51
Endrin	U	0.51
4,4'-DDD	U	0.51
Endosulfan II	U	0.51
4,4'-DDT	U	0.51
Endrin Aldehyde	U	0.51
Endosulfan Sulfate	U	0.51
Endrin Ketone	U	0.51
Methoxychlor	U	2.54
Chlordane-gamma	U	2.54
Chlordane-alpha	U	2.54
Toxaphene	U	5.08
Aroclor 1016	U	2.54
Aroclor 1221	U	2.54
Aroclor 1232	U	2.54
Aroclor 1242	U	2.54
Aroclor 1248	U	2.54
Aroclor 1254	U	5.08
Aroclor 1260	U	5.08

U = Compound analyzed for but not detected
All values are corrected for % moisture

Approved:

Declan Cowley
Organic Section Manager

WESTON ANALYTICS
METALS ANALYTICAL DATA PACKAGE FOR
BLM - LOCO HILLS

DATE RECEIVED: 05/18/88

CLIENT ID	RFW BATCH NUMBER	COLLECTION	EXTR./PREP.	ANALYSIS
BLM 04-01	8805-036-003	05/17/88	NA	06/08/88
BLM 04-01	8805-036-003 DUP	05/17/88	NA	06/08/88
BLM 04-01	8805-036-003 MS	05/17/88	NA	06/08/88
BLM 04-02	8805-036-006	05/17/88	NA	06/08/88
BLM 04-03	8805-036-009	05/17/88	NA	06/08/88
BLM 04-04	8805-036-011	05/17/88	NA	06/08/88
BLM 04-05	8805-036-013	05/17/88	NA	06/08/88
BLM 04-06	8805-036-015	05/17/88	NA	06/08/88
LAB QC:				
PREP BLANK	8805-036-0001BL	05/17/88	NA	06/08/88
METHOD SPIKE	8805-036-0002BS	05/17/88	NA	06/08/88

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Steve T. Markham 06/09/88
DATE

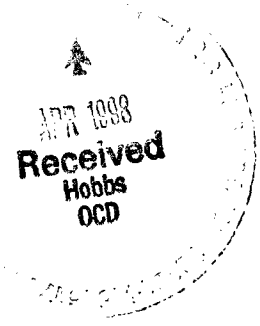
WESTON Analytical Laboratories

WESTON ANALYTICS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

	RFW Batch ID:	8805-036-0001BL	8805-036-0002BS	8805-036-003	8805-036-003 DUP
	Customer ID:	PREP BLANK	METHOD SPIKE	BLM 04-01	BLM 04-01
	Matrix:	Soil	Soil	Soil	Soil
	Units:	MG/KG	MG/KG	MG/KG	MG/KG
Sample Information					
Silver (Ag), total.....		2.0 U	NS	2.0 U	2.0 U
Aluminum (Al), total.....		40 U	86 %	1590	2670
Arsenic (As), total.....		2.0 U	96 %	2.0 U	2.0 U
Barium (Ba), total.....		40 U	97 %	30.4	26.9
Beryllium (Be), total.....		1.0 U	95 %	1.0 U	1.0 U
Calcium (Ca), total.....		200 U	84 %	18300	5340
Cadmium (Cd), total.....		1.0 U	92 %	1.0 U	1.0 U
Cobalt (Co), total.....		10.0 U	91 %	10.0 U	10.0 U
Chromium (Cr), total.....		2.0 U	95 %	3.5	3.0
Cesium (Cs), total.....		NR	NR	NR	NR
Copper (Cu), total.....		5.0 U	89 %	5.0 U	5.0 U
Iron (Fe), total.....		20.0 U	96 %	1900	3140
Mercury (Hg), total.....		0.1 U	102 %	0.1 U	0.1 U
Potassium (K), total.....		1000 U	92 %	1000 U	1000 U
Lithium (Li), total.....		NR	NR	NR	NR
Magnesium (Mg), total.....		200 U	82 %	200 U	907
Manganese (Mn), total.....		3.0 U	97 %	19.8	32.4
Molybdenum(Mo), total.....		NR	NR	NR	NR
Sodium (Na), total.....		1000 U	115 %	1000 U	1830
Nickel (Ni), total.....		8.0 U	92 %	8.0 U	8.0 U
Lead (Pb), total.....		1.0 U	108 %	1.6	1.6
Antimony (Sb), total.....		12 U	115 %	12 U	12 U
Selenium (Se), total.....		1.0 U	36 %	1.0 U	1.0 U
Strontium (Sr), total.....		NR	NR	NR	NR
Thallium (Tl), total.....		2.0 U	107 %	2.0 U	2.0 U
Vanadium (V), total.....		10.0 U	96 %	10.0 U	10.0 U
Zinc (Zn), total.....		4.0 U	95 %	24.9	4.0 U



WESTON ANALYTICS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

RFW Batch ID:	8805-036-003 MS	8805-036-006	8805-036-009	8805-036-011
Customer ID:	BLM 04-01	BLM 04-02	BLM 04-03	BLM 04-04
Matrix:	Soil	Soil	Soil	Soil
Units:	MG/KG	MG/KG	MG/KG	MG/KG

Sample Information

Silver (Ag), total	NS	2.0 U	2.0 U	2.0 U
Aluminum (Al), total	NS	4360	3840	12400
Arsenic (As), total	81 %	16.1	2.9	2.0 U
Barium (Ba), total	95 %	75.8	81.4	122
Beryllium (Be), total	98 %	1.0 U	1.0 U	1.0 U
Calcium (Ca), total	NS	6080	49200	96800
Cadmium (Cd), total	95 %	1.3	1.0 U	1.0 U
Cobalt (Co), total	92 %	10.0 U	10.0 U	10.0 U
Chromium (Cr), total	88 %	6.2	3.6	10.5
Cesium (Cs), total	NR	NR	NR	NR
Copper (Cu), total	87 %	17.1	5.0 U	8.2
Iron (Fe), total	NS	6180	4340	9910
Mercury (Hg), total	87 %	0.22	0.13	0.1 U
Potassium (K), total	NS	1220	1000 U	3390
Lithium (Li), total	NR	NR	NR	NR
Magnesium (Mg), total	NS	1630	1280	8890
Manganese (Mn), total	100 %	85.6	70.7	246
Molybdenum(Mo), total	NR	NR	NR	NR
Sodium (Na), total	NS	1100	1000 U	1000 U
Nickel (Ni), total	91 %	8.0 U	8.0 U	8.0 U
Lead (Pb), total	71 %	41.9	2.6	2.8
Antimony (Sb), total	9 %	12 U	12 U	12 U
Selenium (Se), total	74 %	1.0 U	1.0 U	1.0 U
Strontium (Sr), total	NR	NR	NR	NR
Thallium (Tl), total	77 %	2.0 U	2.0 U	2.0 U
Vanadium (V), total	96 %	10.0 U	10.0 U	10.3
Zinc (Zn), total	82 %	40.0	4.0 U	29.0

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WESTON ANALYTICS
METALS
INORGANICS DATA SUMMARY REPORT

RFW Batch Number: 8805-036 Client: BLM - LOCO HILLS

Sample Information

RFW Batch ID:	8805-036-013	8805-036-015
Customer ID:	BLM 04-05	BLM 04-06
Matrix:	Soil	Soil
Units:	MG/KG	MG/KG

Sample Information

Silver (Ag), total.....	2.0 U	2.0 U
Aluminum (Al), total.....	2470	2220
Arsenic (As), total.....	6.1	2.0 U
Barium (Ba), total.....	74.4	40 U
Beryllium (Be), total.....	1.0 U	1.0 U
Calcium (Ca), total.....	26500	6420
Cadmium (Cd), total.....	1.0 U	1.0 U
Cobalt (Co), total.....	10.0 U	10.0 U
Chromium (Cr), total.....	3.8	3.4
Cesium (Cs), total.....	NR	NR
Copper (Cu), total.....	5.0 U	5.0 U
Iron (Fe), total.....	3470	5110
Mercury (Hg), total.....	0.1 U	0.1 U
Potassium (K), total.....	1000 U	1000 U
Lithium (Li), total.....	NR	NR
Magnesium (Mg), total.....	1050	1240
Manganese (Mn), total.....	57.2	73.1
Molybdenum(Mo), total.....	NR	NR
Sodium (Na), total.....	1340	1000 U
Nickel (Ni), total.....	8.0 U	8.0 U
Lead (Pb), total.....	6.0	1.3
Antimony (Sb), total.....	12 U	12 U
Selenium (Se), total.....	1.0 U	1.0 U
Strontium (Sr), total.....	NR	NR
Thallium (Tl), total.....	2.0 U	2.0 U
Vanadium (V), total.....	10.0 U	10.0 U
Zinc (Zn), total.....	12.6	4.3

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Date Sampled: 05/17/88
Date Received: 05/18/88
Date Completed: 06/09/88

WESTON ANALYTICS
INORGANICS DATA SUMMARY

Approved by: S. Markham

RFW Batch Number: 88-05-S036 CLIENT: BLM - LOCO HILLS PAGE 1

Sample Information		
	Customer ID:	BLM-04-02
	RFW#:	-07
	Matrix:	SOIL

Parameter:	
Cyanide, mg/kg.....	2.5 U
Sulfide, mg/kg.....	< 200
Corrosivity, pH.....	7.67
Ignitability, °C.....	> 200

U = Analyzed, not detected.

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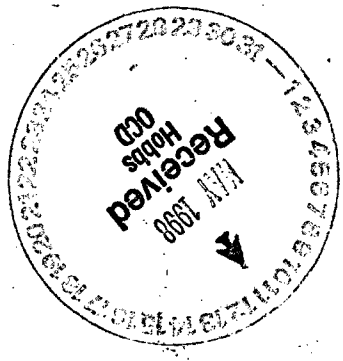
Final Report

Site Inspection

Loco Hills Landfill

Eddy County
New Mexico

March 1990

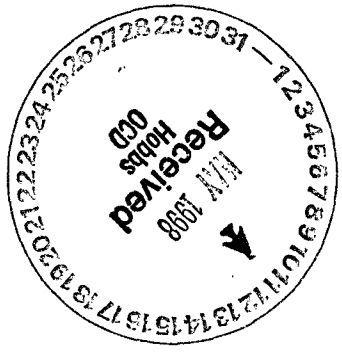


WESTON MANAGERS DESIGNERS CONSULTANTS

LOCO HILLS SITE INSPECTION
DRAFT REPORT
Eddy County, New Mexico

Prepared for
United States Department of the Interior
Bureau of Land Management

March 1990



Prepared by

Roy F. Weston, Inc.
215 Union Boulevard
Suite 600
Lakewood, Colorado 80228

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APPENDIX B - EPA Hazard Ranking System (HRS)

SECTION 1
EXECUTIVE SUMMARY

Roy F. Weston, Inc. (WESTON) conducted a site inspection (SI) at the Loco Hills Landfill on May 17, 1988. The work included a background review, a site-specific work plan, a pre-site fieldwork meeting, and field monitoring and sampling.

The Loco Hills Landfill is located in Eddy County, New Mexico. At the time of the SI, the site was active, operated by the City of Loco Hills under a Recreation and Public Purpose permit granted by the United States Department of Interior, Bureau of Land Management (BLM). Subsequent to the SI, the site has been closed.

The field monitoring and sampling included collecting downgradient sediment, subsurface soils, and surface waste samples. Additional information was also obtained during the site reconnaissance. This information was combined with data generated during the background review and recorded on United States Environmental Protection Agency (USEPA) Site Inspection Report forms. Data generated during the SI, together with the available background information, was used to score the site using the EPA Hazardous Ranking System (HRS). Site conditions during the site inspection were documented with photographs.

Based on the existence of hazardous compounds identified during the SI and the direct contact threat posed by the landfill, a BLM Class II designation has been assigned to the Loco Hills Landfill.

The primary contaminant migration pathways are fugitive dusts generated by any vehicular activity at the site. In addition, during high intensity thunderstorms, runoff could carry contaminants from the site. There is no defined surface drainage to either an intermittent or permanent surface water body; however, runoff could pond at the low point in the closed drainage which the site occupies and percolate through the vadose zone. The ratio of infiltration vs. evaporation is not presently known, although the significant depth to groundwater (500 feet) probably precludes any impact.

An HRS score of Sm=0 has been assigned to this site. The score is zero because there is no

documented surface or groundwater use (e.g., no targets). An estimated 250 persons live within a three mile radius of the site. The nearest residence is located approximately one-half mile west of the site. Residents reportedly receive their water supply via pipe lines from domestic supply wells located in Maljamar, approximately 20 miles east of the landfill.

Although the migration (Sm) score is zero, it is important to note that the Loco Hills Landfill presents a direct contact threat to the public and the environment. Evidence generated during this investigation indicates that organic compounds such as toluene, xylene, ethylbenzene, naphthalene and 2-methylnaphthalene are present in subsurface soils and wastes disposed at the site. Inorganic compounds such as lead and zinc were found to be elevated in all samples collected during the SI.

Under most geological conditions a depth to groundwater of 400 feet would preclude a surface source of contamination from being a groundwater threat. However, the Loco Hills Landfill occupies a topographic depression that may represent a sinkhole geologic environment, given the limestone and evaporite units mapped in the site vicinity. The secondary permeability increases commonly associated with zones of fracturing and paleo-solution channels in such environments may pose potential contaminant migration pathways. For this reason, WESTON recommends that a further investigation be conducted with a very focused scope. The scope of such an investigation should include:

- defining the extent of subsurface contamination;
- determining the depth of bedrock and the relative permeabilities of both the vadose zone and bedrock.

Such an investigation would help to define any necessary remedial alternatives, and could rule out a threat to groundwater posed by the site.

SECTION 2

INTRODUCTION

Roy F. Weston, Inc. was contracted by the Bureau of Land Management (BLM) to conduct site investigations on 22 sites located throughout EPA Regions VI, VII, IX, and X. All of these sites are considered to be potential hazardous waste sites under CERCLA/SARA. The scope of work involved is identified in BLM's contract with WESTON (No. AA852-CT8-14, dated 12 February 1988) and WESTON's technical proposal (No. P-88-6234, dated 5 January 1988), which is incorporated in BLM's contract.

This work encompasses what the EPA refers to as site inspections or investigations (SI). The work is directed toward classification and ranking of the potential hazardous waste sites, along with recommendations for any further actions needed to remediate public health and environmental threats.

Site investigations will collect the following types of information:

- information relating to the amount, nature, and toxicity of the hazardous wastes or hazardous substances at each site, including the results of any systematic testing and analysis of the materials;
- information on the nature and extent of contamination at the site;
- information on the regional hydrogeology of the site and the location of the withdrawal wells and surface water within 1 mile of the site;
- a description of actual or potential pathways by which the hazardous materials could leave the site, including an estimate of the probability that any particular pathway is actually being used;
- the extent and type of injury, destruction, or loss of natural resources caused by the hazardous materials;
- identification of any sites within 3 miles that might compound any known or potential contamination of the environment for which the BLM site might be or is known to be responsible, at least in part;
- descriptions of the type or types of actions that might be taken on an interim basis to clean up and/or control the hazardous materials in order to protect the public health and the environment;
- a ranking of each site using EPA's Hazard Ranking System (HRS), with discussion and justification of the basis for the total score and the individual route scores included; and
- completion of an EPA Site Inspection Report (EPA Form 2070-13) in July 1981.

SECTION 3
SITE INFORMATION

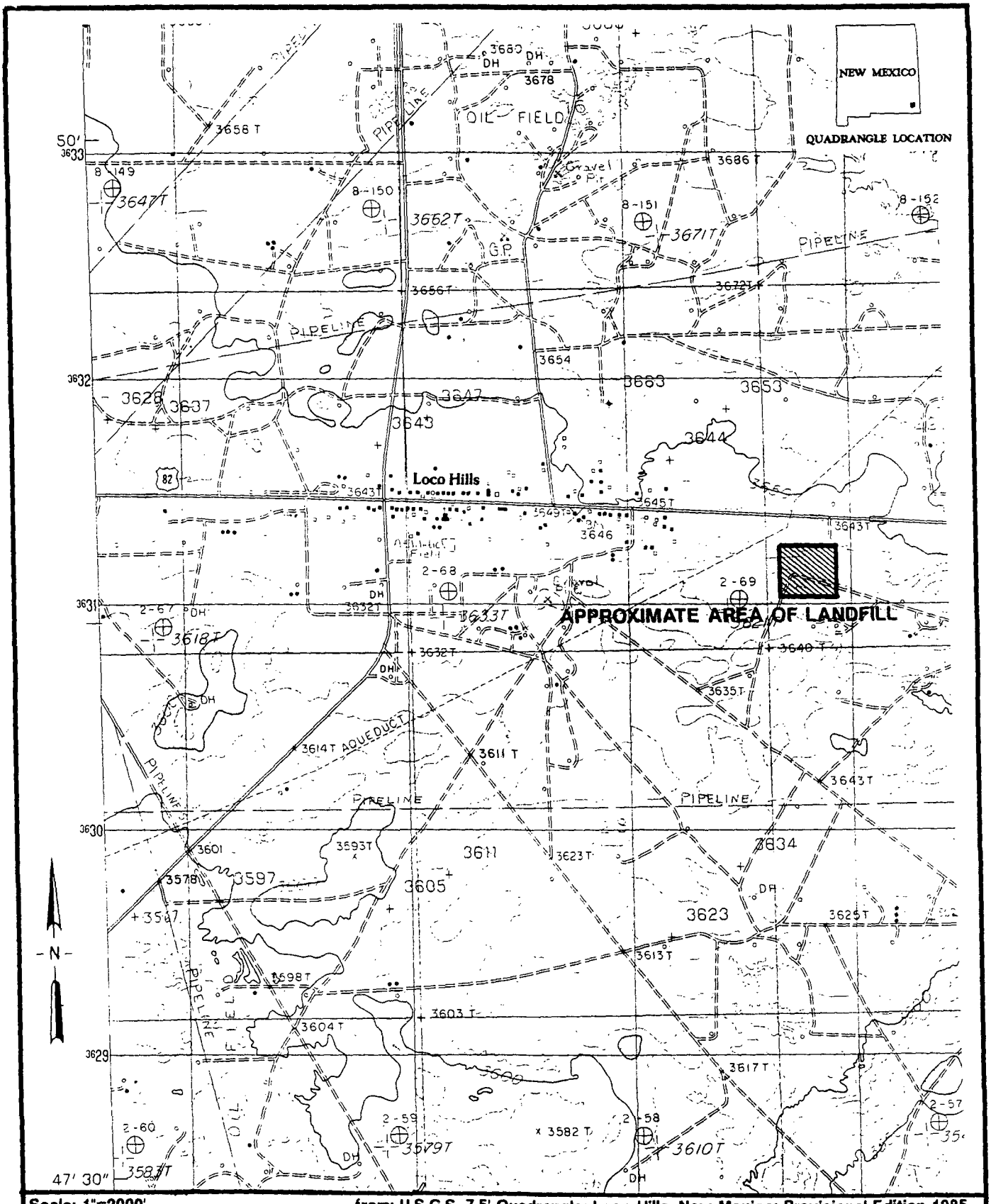
A site inspection (SI) was conducted by WESTON on May 17, 1988 at the Loco Hills Landfill in southeastern New Mexico (Figure 1). The specific on-site scope of work had been identified under separate cover in a document entitled, Site Work Plan-Site Investigation, Loco Hills Landfill, Eddy County, New Mexico, May 1988. The scope of work for the site inspection was approved by BLM's Contracting Officer's Representative and State Hazardous Materials Coordinator prior to initiating on-site field work. The SI sought to monitor, sample, identify, and characterize, potential hazards at the site.

3.1 SITE LOCATION

The Loco Hills Landfill is located in Eddy County in southeastern New Mexico, approximately 1.25 miles east of the town of Loco Hills adjacent to State Road 82. Access to the site is gained by way of an unimproved road, from State Road 82. There is a cattle guard at the entrance to the landfill. The site is located within the United States Geological Survey (USGS) Loco Hills, New Mexico 15-minute quadrangle map. It is in Section 22, Township 17S, Range 30E, based on the New Mexico Principal Meridian. The location of the site is shown on Figure 1.

3.2 SITE DESCRIPTION AND LAYOUT

The site is a landfill leased by the BLM to Eddy County under the Recreation and Public Purposes (R&PP) Act of June 14, 1926, as amended (43 USC 869 et. seg.). The lease was issued March 11, 1970 (NM 9039) for a 20-year period. The landfill is oriented west to east and occupies approximately four acres of a 40-acre parcel of BLM land. Elevation at the site is approximately 3,640 feet MSL. The layout of the site is presented on Figure 2. Terrain is moderate to flat, ranging from about two to three percent. Surrounding terrain slopes to the southwest, with surface runoff eventually directed toward a closed drainage basin west of the landfill. Soils are composed of sand and rocky loam. The soils support only sparse stands of vegetation, dominated by creosote bush, scrub oak, mesquite, and black grama.



Scale: 1"=2000' from: U.S.G.S. 7.5' Quadrangle; Loco Hills, New Mexico; Provisional Edition 1985.

FIGURE 1
SITE LOCATION MAP

PROTOAP1

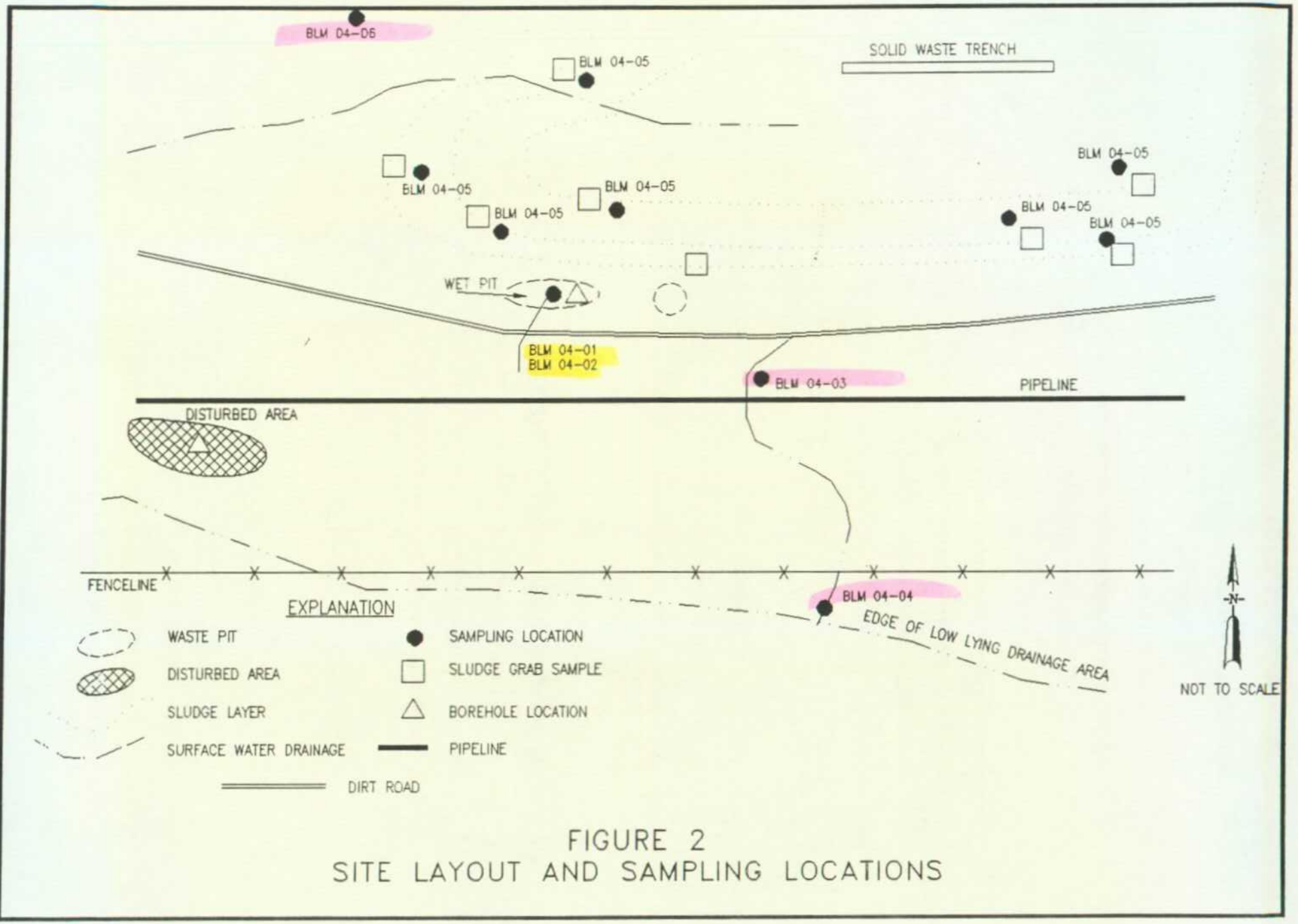


FIGURE 2
SITE LAYOUT AND SAMPLING LOCATIONS

BLM003.PJ-121289

Access to the site is provided by an unimproved dirt road leading south from State Road 82. A second dirt road bisects the site. A barbed wire fence surrounds the landfill, however, areas of disrepair were observed during the SI. There was no locked entrance gate or security personnel at the site at the time of the SI. The landfill is accessible 24 hours a day. The nearest permanent residence is approximately one-half mile east of the landfill. An estimated 250 persons live within a three mile radius of the site.

Known and suspected contaminant sources at the landfill include inactive liquid waste pits and one active solid waste disposal trench. In addition, several disturbed areas were observed during the SI. An underground fuel pipeline reportedly bisects the landfill site. Further information concerning the pipeline was not available. The solid waste disposal trench contains residential and municipal wastes. Two 55-gallon drums were also observed in the western part of the two pits during the SI.

Both waste pits are located in the southern portion of the landfill. The larger, covering an area approximately 30' x 15'. It was observed to be "wet" with oily waste material and oil soaked dirt. The smaller pit is circular in shape and covers an approximate 30 square foot area. Both pits are reportedly unlined and no leachate collection system present.

The inactive waste pits contain an estimated total of 35 cubic yards of sludge material. The solid waste disposal trench is approximately 100' x 15' x 20'. It is located in the northeast corner of the site. The integrity of the solid waste disposal trench is unknown. During the SI, an area covered with hardened sludge-like surface layers was observed in the northern half of the landfill tract. These site features are presented on Figure 2.

3.3 BACKGROUND DATA ACQUISITION

Prior to the fieldwork phase of the site inspection, background data pertinent to the Loco Hills Landfill was acquired. This included conversations with, and a review of files supplied by BLM personnel. The site file included a BLM Land Status Assessment of the landfill, New Mexico Environmental Improvement Division (NMEID) site inspection reports, and New Mexico State Engineer Office (SEO) reports and files. A pre-site investigation meeting was held and the scope of the site inspection was formally agreed upon by WESTON and BLM.

SECTION 4

ENVIRONMENTAL MONITORING AND SAMPLING PROGRAM

The objective of the site inspection at the Loco Hills Landfill was to evaluate the landfill as a potential hazardous waste site with the goal of classifying and ranking the degree of hazard to human health and the environment posed by site conditions. The environmental monitoring and sampling program included the following tasks:

- evaluation of contaminant migration via surface water, air and soil pathways;
- assessment of the various types of wastes;
- identification of potential direct contact threats;
- documentation of site conditions through the use of photographs and the EPA Site Investigation form; and
- application of the EPA Hazard Ranking System to the site.

4.1 SITE RECONNAISSANCE

Prior to the field work portion of the SI, a reconnaissance of the site was made. The concentrations of organic vapors and radioactivity at the site were measured to establish background conditions and to ascertain adequate levels of personal protective gear. A photoionization detector (HnU) and radiation analyzer (beta-gamma) were used. No organic vapor or radioactivity hazards were identified.

4.2 SITE SAMPLING PROGRAM

The Loco Hills SI sampling program focussed on the area surrounding the disposal trenches, the downgradient arroyo channels, and on the hardened sludge layers observed in the northern portion of the landfill. All sampling locations are shown in Figure 2.

4.2.1 Soil Sampling

Site work commenced with the boring of a hand augured hole at a disturbed area south of the landfill. No visible contamination was observed in the upper nine feet of soil. Organic vapor readings of the soils did not exceed background values. The hole was filled and no samples were collected from the location.

A second boring was started at the wet pit. The auger boring was completed to a depth of approximately nine feet below grade. Downhole organic vapor concentrations exceeded background concentrations. A soil sample was collected at the nine-foot interval and labeled BLM-04-01.

A background surface soil sample (0 to 3 inches) was collected approximately 100 feet north and upgradient of the landfill and labeled BLM-04-06.

4.2.2 Waste Sampling

While auguring the second boring, an aliquot of shallow waste was placed in a sample jar and sealed. A second aliquot was placed in an aluminum pan and covered tightly with aluminum foil. The foil pan was placed in the direct sunlight and allowed to heat. Headspace organic vapor readings exceeded 100 parts per million (PPM). Draeger tubes were used to determine the presence or absence of benzene in the collected samples. These samples confirmed that benzene was present in the headspace gases. The sample jar containing the split of the waste material from the liquid disposal trench area was labeled BLM-04-02, (Figure 2).

A composite waste sample, labeled BLM-04-05, was prepared by homogenizing eight grab samples of hardened sludge from different locations around the landfill. The sludge material appears to be oil-field fluids that were dumped at the top and allowed to flow down the sides of the landfill. The samples were collected from along the hardened, crusty ledges the south and west sides of the landfill. Figure 2 shows these locations.

4.2.3 Sediment Sampling

Two surface sediment (0 to 3 inches) samples were collected from the arroyo channels downgradient of the landfill. A sample was collected approximately 50 feet south of the landfill and labeled BLM-04-03. A second sediment sample was collected from the arroyo near the barbed wire fence which marks the lease boundary, and labeled BLM-04-04.

4.3 QUALITY ASSURANCE PROCEDURES

A quality assurance program was followed to ensure that reliable and representative data were obtained. EPA uniform chain-of-custody procedures, as outlined in NIEC Policies and Procedure Manual (EPA-300/9-78-001-R) for sample handling, were followed. All sample containers were cleaned and prepared in WESTON's EPA-approved laboratory in Stockton, California. All bottles had teflon-lined lids, to prevent possible volatile loss. Prior to sampling, all containers were cleaned and labeled with stick-on labels that identified:

- site name and location;
- sample date and time;
- sample number; and
- analytes requested.

To reduce the possibility of cross-contamination between samples, nonexpendable sampling equipment was thoroughly decontaminated using a detergent wash and distilled water rinse between sample locations, and new disposable stainless steel scoops were used to collect and homogenize individual samples. In addition, the individual transferring the soils from the sampling tools to the collection jars changed gloves before handling the jars or samples. Chain-of-custody procedures were not violated at any time during the site inspection or after the completion of sampling activities.

SECTION 5

SAMPLING RESULTS

The soil samples (BLM-04-01 and -06), sediment samples (BLM-04-03 and -04) and waste samples (BLM-04-02 and -05) collected from the Loco Hills Landfill were analyzed for the EPA Hazardous Substance List volatile, semivolatile, and metal compounds; pesticides and PCBs. In addition, waste sample BLM-04-02 was analyzed for ignitability, reactivity, and corrosivity. Complete analytical results are presented in Appendix A. A summary of encountered compounds is presented in Table 5-1. Analytical results are summarized in the following subsections.

5.1 SOIL SAMPLING RESULTS

The subsurface soil sample (BLM-04-01) was shown to contain elevated levels of toluene (56.0 ppm), total xylenes (164.0 ppm) and ethylbenzene (63.0 ppm). Metals encountered included lead (1.6 ppm) and zinc (24.9 ppm).

5.2 WASTE SAMPLING RESULTS

The waste sample collected from the liquid disposal trench area (BLM-04-02) contained a variety of organic compounds. Encountered compounds included toluene (43.0 ppm), total xylenes (60.0 ppm), ethylbenzene (260.0 ppm), naphthalene (44.0 ppm), and 2-methylnapthalene (110.0 ppm). Detected metals included lead (41.9 ppm) and zinc (40.0 ppm). The composite waste sample (BLM-04-05) was shown to contain lead (6.0 ppm) and zinc (12.6 ppm).

5.3 SEDIMENT SAMPLING RESULTS

Two sediment samples were collected from arroyos downgradient of the landfill. Sample BLM-04-03 contained lead (2.6 ppm). Sample BLM-04-04 contained 2.8 ppm lead and 29.0 ppm zinc.

Table 5-1. Summary of concentrations in samples collected during the May 1988 site investigation.

Compound	BLM-04 01 Boring Wet Pit	BLM-04 02 Wet Pit	BLM-04 03 North Arroyo	BLM-04 04 South Arroyo	BLM-04 05 Sludge Composite	BLM-04 06 Soil Back-ground
Organic Compounds (ppm)						
Toluene	56.0	43.0	--	--	--	--
Total Xylenes	164.0	60.0	--	--	--	--
Ethylbenzene-	63.0	260.0	--	--	--	--
Naphthalene	--	44.0	--	--	--	--
2-methylnaphthalene	--	110.0	--	--	--	--
Inorganic Compounds (ppm)						
Lead	1.6	41.9	2.6	2.8	6.0	1.8
Zinc	24.9	40.0	4U	29.0	12.6	4.3

5.4 IGNITABILITY AND CORROSIVITY

Waste sample BLM-04-02 was also analyzed for ignitability, reactivity, and corrosivity. The sample had a pH of 7.67, and ignitability greater than 200 degrees celsius and thus, did not exhibit the characteristic properties of corrosivity or ignitability (40 CFR 261.31-261.33). A waste is corrosive if it exhibits a pH of less than 2.0 or greater than 12.5, or corrodes steel at a rate greater than 6.35 mm per year at 55 degrees celsius. A waste is ignitable if it exhibits a flash point of less than 140 degrees Fahrenheit. Although some of the wastes identified at the site are ignitable (ethylbenzene, toluene, xylene) it is assumed that the concentration of waste in the soil was not sufficient to ignite.

5.5 ANALYTICAL RESULTS SUMMARY

EPA has developed guidance for evaluating the significance of site analytical results from pre-remedial investigations (OSWER Directive 9345.1-02). This guidance states that a contaminant release has occurred if concentrations on-site exceed background concentrations by: ten times for a single contaminant, two to three times for multiple contaminants, and three times the instrument detection limit for contaminants not detected in the background sample. Applying these guidelines to the analytical results on Table 5-1 confirms that all of the organic compounds are present at levels indicative of a release. Also, the zinc levels in BLM-04-01 and -02 and the lead in BLM 04-02 indicate a release.

SECTION 6

HEALTH AND SAFETY

Prior to initiating the sampling effort, a site reconnaissance survey was conducted. Calibrated organic vapor and radiation detection instruments were closely monitored during this inspection. The instrument readings were used to ascertain levels of adequacy of the proposed personnel protection. Level D was deemed to be adequate during the SI. Readings for both organic vapor and radiation were typical background levels (.3 ppm and 8-12 μ Rem); therefore, Level D protective equipment was deemed to be appropriate. Level D protective gear consists of the following:

- tyvek coveralls;
- disposable latex boot covers;
- steel toe/shank boots;
- latex surgical gloves;
- appropriate outer gloves; and
- cotton coveralls (inner).

SECTION 7

WASTE TYPES AND QUANTITY

Sludge-like material, presumably oil production waste, and residential wastes were the primary waste types disposed at the Loco Hills Landfill. An unknown volume of sludge and liquid wastes have been disposed in the two inactive liquid disposal pits. An estimated 34 cubic yards is thought to be present. This quantity was calculated using volumetric estimates of 30' x 15' x 2' for the larger pit and 30 square feet x .5' for the smaller pit. The volume of wastes deposited in the solid waste disposal trench is unknown.

The sludge wastes consist of dark black, fine-grained, tarry substance. The dark solid is mixed with soil and scrap lumber. The wastes in the liquid disposal trenches are fluidized, especially after being heated by the sun. The solid waste trench contains typical municipal and residential type materials. These include cans, bottles, paper, and plastic containers. At the time of the site inspection, the trench was not covered, and burned material was present.

SECTION 8

EFFECTS ON HUMAN HEALTH AND THE ENVIRONMENT

Evaluating the degree of risk to human health and impacts on the environment posed by the landfill was the primary objective of the SI. Waste samples, subsurface soil samples and sediment samples were collected to characterize potentially hazardous constituents present at the site, measure their concentrations and evaluate their potential for migration. The following subsections describe the environmental features of the site focus on these issues.

8.1 SITE LAND USE AND DEMOGRAPHICS

The principal land use and industry in the vicinity of the Loco Hills Landfill is oil production. An oil field is located within 1000 feet of the site. Most of the population is centered in the town of Loco Hills, approximately 1.25 miles west of the landfill. Oil field workers also commute to the area from the City of Artesia. There are an estimated 250 persons within a three-mile radius of the site. The nearest permanent dwelling is about one-half mile west of the site.

8.2 SOILS AND GEOLOGY

The Loco Hills Landfill is located at approximately 3640 feet above mean sea level, approximately 20 miles east of the Pecos River Valley on the Querecho plain. The site is located on the flanks of a topographic depression, presumably the surface expression of dissolution in limestone or evaporites or a combination thereof. The site is underlain by a thin veneer of Triassic shales and sandstones overlying a thick sequence of Permian limestones and evaporites. The site is formed on well-drained gravels, sands, and sandy loam.

Surface runoff from the site is scarce due to low precipitation; and high evaporation and infiltration rates. During low frequency, high intensity convection rainstorms, surface runoff drains into small arroyos and flows westward and southward into a closed basin.

Depth to groundwater is approximately 500 feet in the Rustler Formation. The potable water supply for the town of Loco Hills is pumped from the Caprock aquifer near Maljamar.

8.3 SURFACE WATER CHARACTERISTICS AND USE

The Loco Hills Landfill is located within the Lake McMillan-State Line segment of the Pecos River Basin. Streamflow in the Pecos River is derived from mountain runoff, runoff from precipitation, and groundwater influx. Annual average precipitation ranges from 11 to 12 inches. Rainfall in the summer months is characterized by intense thunderstorms that are localized and of short duration. Annual free water surface evaporation ranges from 55 to 85 inches.

Surface water flow in the immediate vicinity of the landfill occurs only during intense rainfall events. Local arroyos flow from the landfill to the south and west and empty into a closed basin southwest of the site. All surface water from the landfill ultimately infiltrates into the soil or evaporates.

8.4 GROUNDWATER CHARACTERISTICS AND USE

The uppermost aquifer below the site is the Rustler Formation at a depth of approximately 500 feet. An interview with the owners of the Loco Hills Grocery disclosed that the nearest water well to the site is located at the Arrow Gas Corporation facility, five miles west of Loco Hills. Construction details of the well are unknown. The community of Loco Hills reportedly receives their water supply via pipe lines from well fields located in Maljamar, approximately 20 miles to the east.

8.5 TOXICITY AND PERSISTENCE

The following subsections discuss the toxicity and persistence of selected compounds encountered at the Loco Hills Landfill during the SI. A substance is considered toxic when adverse health effects result upon exposure. Persistence is a term used to describe the extent to which a compound remains stable and does not break down or transform in the environment.

8.5.1 Toluene

Toluene is moderately toxic by inhalation. Acute exposure has been shown to cause depression of the central nervous system and narcosis. Toluene has been assigned a hazard ranking of three by Sax. The hazard ranking indicates relative hazard for toxicity, fire and reactivity, with three denoting the worst hazard level. Toluene is listed as a RCRA hazardous waste (No.U220).

Toluene is a very dangerous fire hazard when exposed to heat, flame or oxidizers (Sax, 1989). Volatilization appears to be the major route of removal of toluene from the environment. Precipitation or dry deposition can deposit toluene and its oxidation products into aquatic and terrestrial systems.

8.5.2 Total Xylenes

Total Xylenes, consisting of m-xylene, o-xylene and p-xylene isomers are moderately toxic by intraperitoneal route and mildly toxic by ingestion, skin contact and inhalation. Exposure to high concentrations of xylene adversely affects the central nervous system and irritates the mucous membranes. Xylene is a severe skin irritant (Sax, 1989). It is a very dangerous fire hazard when exposed to heat or flame and can react with oxidizing materials.

Volatilization and subsequent photo-oxidation in the atmosphere are probably the primary transport and fate processes for xylene in the upper layer of soil and in aquatic environments. Xylene binds to sediment in water and to organics in soils and undergoes microbial degradation. Biodegradation is the most important fate process in both soils and the aquatic environment. Xylenes have been shown to persist for up to six months in soil.

8.5.3 Ethylbenzene

Ethylbenzene is a possible carcinogen. It is mildly toxic by inhalation and skin contact. Ethylbenzene has been given a Sax hazard ranking of two. Recent evidence indicates that ethylbenzene causes adverse reproductive effects. Ethylbenzene is a skin irritant.

Ethylbenzene is a very dangerous fire and explosion hazard when exposed to heat or flame and can react vigorously with oxidizing materials. Conclusive data is not available concerning the persistence of ethylbenzene in the environment.

8.5.4 Naphthalene

Much of the information concerning the toxicity and fate of naphthalene is inferred from data for other polycyclic aromatic hydrocarbons (PAHs). Certain PAHs have weak carcinogenic potential (Sax, 1989). Naphthalene has been assigned a hazard ranking of three (Sax, 1989). It is a human poison by ingestion and possibly other routes. It is an eye and skin irritant.

Naphthalene is rapidly accumulated into soils, however it also is rapidly metabolized and excreted. Biodegradation by microorganisms is probably the ultimate fate process for naphthalene. Biodegradation generally appears to be more efficient in soil than in aquatic systems (EPA, 1985).

Atmospheric transport of PAHs can occur, and they may be returned to the environment by wet and dry deposition. Some PAHs may enter surface and groundwaters by leaching from polluted soils.

8.5.5 Lead

Lead is a heavy metal that exists in one of three oxidation states, 0, +2, and +4. Lead is a suspect carcinogen. Lead is also a reproductive hazard, and it can adversely affect the brain and central nervous system. It has been assigned a hazard ranking of three by Sax.

Some industrially produced lead compounds are readily soluble in water (EPA, 1985). Movement of lead and its inorganic and organolead compounds as particulates in the atmosphere is a major environmental transport process.

8.5.6 Zinc

Zinc has been assigned a hazard ranking of three (Sax, 1989). Zinc is a skin irritant and ingestion can cause fever, vomiting and stomach cramps.

Zinc can occur in both suspended and dissolved forms. Dissolved zinc may occur as the free zinc ion or as dissolved complexes and compounds with varying degrees of stability and toxicity (EPA, 1985). Zinc is relatively mobile in soils. Zinc is strongly bioaccumulated even in the absence of abnormally high ambient concentrations.

SECTION 9.0

RESPONSIBLE PARTY INFORMATION

Potentially responsible parties (PRPs) include owners, operators, generators, and transporters. A PRP may be the owner and operator of the facility or hazardous substances; any person who arranged for disposal or treatment, or arranged with a transporter for transport for disposal or treatment of hazardous substances; and any person who accepts or accepted hazardous substances for transport to facilities from which there is a release or threatened release. A "person" can be an individual, firm, corporation, association, partnership, consortium, joint venture, commercial entity, United States Governments, State, municipality, commission, political subdivision of a state, or any interstate body (EPA, 1987).

The Loco Hills Landfill is on land under BLM authority and for this reason the BLM is a PRP. The site was operated for Eddy County by the Jabo Rowland Construction Company. Information developed during the site inspection suggest that AC Hot Oil service may have generated some of the wastes found in the landfill.

SECTION 10

SITE CLASSIFICATION AND RANKING

The BLM site classification system divides potential hazardous waste sites into four categories. These categories are listed below.

Class I	There is no significant reason to believe that hazardous wastes or other hazardous substances have been generated, treated, stored, or disposed of on the site, or alternately that hazardous wastes were disposed but in such quantities, forms, or under such conditions, that there is negligible hazard to human health or the environment.
Class II	Hazardous wastes or other hazardous substances are present but there is small risk of on-site contact or release of contaminants to the environment in such form and quantity that would constitute a significant hazard to human health or to the environment.
Class III	Hazardous wastes or other hazardous substances exist on the site in such form and quantity and under such conditions that there is specific reason to believe that a potentially significant hazard to human health or the environment may exist and that further definitive investigations must be undertaken.
Class IV	Hazardous wastes or other hazardous substances exist on the site in such form and in quantity and under such conditions, including off site considerations, as to constitute an imminent and substantial endangerment to human health or the environment.

The Loco Hills Landfill contains hazardous substances. Soil and waste samples collected during the SI contain relatively high concentrations of toluene, xylenes, ethylbenzene, naphthalene, 2-methylnaphthalene, lead and zinc. A risk of on-site contact or release of contaminants to the environment via surface water runon/runoff and air migration exist. For this reason a Class II designation has been assigned. Subsequent environmental investigations may enable this classification to be lowered. The site hydrology is not well understood, though it is not believed that potable water is drawn from the aquifer of concern. More information is needed about the site hydrology, subsurface soil quality and volume of hazardous materials present.

An EPA Potential Hazardous Waste Site Inspection Report (EPA Form 2070-13) for the site is included in Appendix B. The site has also been ranked using the Hazard Ranking System (HRS) according to 40 CFR Part 300. The EPA HRS is used to evaluate the relative potential of uncontrolled hazardous substance facilities to cause human health or safety problems, or ecological or environmental damage. Uniform application of the HRS can identify potential releases of hazardous substances that pose the greatest hazard to humans or to

the environment. The HRS by itself is not intended to establish priorities for the allocation of funds for remedial action. It does not address the feasibility, desirability, or degree of cleanup required.

Samples and analytical data may not be required in all instances to demonstrate the existence of a hazardous waste site. Hazardous waste sites can be defined on the basis of substantial historical information drawn from facility records, shipping manifests, witness interviews, operational history, etc. Whenever there are viable alternatives for assigning values to a rating factor, the alternative that results in the highest score is to be used.

The HRS assigns three scores to a hazardous facility or site.

- S_m reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater (S_{gw}), surface water (S_w), or air (S_a). It is a composite of separate scores for each of the three routes. It is entirely possible that one route for a specific site (e.g., groundwater) yields a relatively high score and other routes give minimum of insignificant scores. Under these circumstances, the low-scored routes would tend to obscure the health and environmental consequences resulting from hazardous substance migration via the high-scored route.
- S_{fe} reflects the potential for harm from substances that can explode or cause fires.
- S_{dc} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The score for each hazard mode (migration, fire and explosion, and direct contact) or route is obtained by considering a set of factors that characterize the potential of the facility to cause harm. Each factor is assigned a numerical value (on a scale of two, three, five or eight) according to prescribed guidelines. This value is then multiplied by a weighting factor yielding the factor score. The factor scores are then combined. Scores within a factor category are added, then the total scores for each factor category are multiplied together to develop a score for groundwater, surface water, air, fire and explosion, and direct contact.

In computing S_{fe} or S_{dc}, or an individual migration route score, the product of its factor category scores is divided by the maximum possible score, and the resulting ratio is multiplied by 100. The last step puts all scores on a scale of 0 to 100.

The HRS does not quantify the probability of harm from a facility or the magnitude of the harm that could result, although the factors have been selected in order to approximate both those elements of risk. It is only a procedure for ranking facilities in terms of the potential threat they pose by describing:

- the manner in which the hazardous substances are contained;
- the route by which they would be released;
- the characteristics and amount of the harmful substance; and
- the likely targets of harm.

The multiplicative combination of factor category scores is an approximation of the more rigorous approach in which one would express the hazard posed by a facility as the product of the probability of a harmful occurrence and the magnitude of the potential damage.

The ranking of facilities nationally for remedial action is based primarily on S_m. In accordance with the National Contingency Plan, all non-federally owned sites scoring at least 28.5 are eligible for inclusion on the National Priority List (NPL).

S_{fe} and S_{dc} may be used to identify facilities requiring emergency attention. The Loco Hills Landfill site received the following scores:

$S_m = 0$ ($S_{gw}=0$, $S_{sw}=0$, $S_a=0$)

$S_{fe} = 1.25$

$S_{dc} = 25$

SECTION 11

CONCLUSIONS

A site inspection conducted at the Loco Hills Landfill site further characterized the potential hazardous constituents in the inactive liquid disposal pits, the solid waste trench, some of the potentially hazardous surface wastes, and the arroyos downgradient of the landfill. Site conditions present during the SI were documented with photographs. An EPA site investigation form was completed, and a HRS score was assigned.

The site inspection at the Loco Hills Landfill did not identify any imminent threats via any exposure route to either the public health or the environment; however, potential long term threats to groundwater do exist.

The Loco Hills Landfill is located in a rural area of southeastern New Mexico, with an estimated 250 persons residing within a three mile radius of the site. Reportedly, local residents receive their water supply from well fields located in Maljamar, approximately 20 miles to the east. The Arrow Gas Corporation owns a well five miles from the site and is the closest groundwater user. Well construction details are not documented.

Approximately 34 cubic yards of sludge remain in the two inactive liquid disposal trenches. The wastes consist of a dark black, fine-grained, sludge and tar substance. The dark solid is mixed with soil and scrap lumber. Two unmarked 55 gallon drums were observed during the SI. The solid waste disposal area contains an unknown quantity of municipal and household wastes. At the time of the site inspection, the trench was not covered and burned trash was observed.

The compounds of concern encountered at the Loco Hills Landfill were toluene, xylenes, ethylbenzene, naphthalene, 2-methylnaphthalene, lead and zinc. Toluene is moderately toxic by inhalation and has been assigned a hazard ranking of three. A hazard rating indicates the relative hazard for toxicity, fire, and reactivity, with three denoting the worst hazard level (Sax, 1985). Xylenes are moderately toxic and are severe skin irritants (Sax, 1989). Ethylbenzene is a possible carcinogen. Naphthalene is a polycyclic aromatic hydrocarbon (PAH). It is likely that other PAHs exist at the site as well. Certain PAHs are human carcinogens. Naphthalene has received a Sax rating score of three. Lead and zinc concentrations were elevated in all samples collected

during the SI. Waste samples collected contained elevated concentrations of toluene and total xylenes. Some of these compounds are highly soluble and can migrate readily through the vadose zone. The subsurface soil sample collected was shown to contain elevated levels of toluene, total xylenes, and ethylbenzene.

In general, the potential for off-site migration is low. The most significant mode of transport for contaminants appears to be surface water run-off and percolation through the vadose zone to the groundwater. Because of the direct contact threat posed, and the data gaps remaining, a Class II designation has been assigned to the Loco Hills Landfill.

The site received an S_m score of 0.

SECTION 12

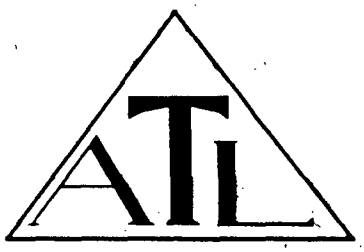
RECOMMENDED ACTIONS

WESTON recommends additional investigations be conducted at the site to fill in data gaps that presently exist. Sufficient information should be gathered to address whether site conditions warrant any remedial action. We feel these data gaps include:

- Identification of all contaminant sources;
- Delineation of the extent of contamination associated with known and suspected contaminant sources; and,
- Site-specific groundwater characteristics, including depth, flow direction, and chemical quality.

WESTON further recommends that access to the landfill be restricted with the installation of a security fence, hazard warning signs, and a locking gate.

In summary, WESTON recommends that BLM identify all potential contaminant sources, more full characterize site geology, evaluate the migration pathways and potential targets, consider the imposed risks, and then evaluate remedial options.



ATL, INC.

CONSTRUCTION QUALITY CONTROL
GEOTECHNICAL CONSULTANTS

FINAL SOLUTIONS REPORT FINAL
FOCUSED SITE INVESTIGATION
LOCO HILLS LANDFILL
EPA CERCLIS NO. NMD980506067
ATL JOB NO. 192063

ATL JOB NO. 192063 *July 26, 1994*

FINAL SOLUTIONS REPORT
FOCUSED SITE INVESTIGATION
LOCO HILLS LANDFILL
EPA CERCLIS NO. NMD980506067
ATL JOB NO. 192063

FINAL

ATL JOB NO. 192063 *July 26, 1994*

FINAL SOLUTIONS REPORT

FOCUSED SITE INVESTIGATION

FOR

BUREAU OF LAND MANAGEMENT

FINAL SOLUTIONS REPORT
LOCO HILLS LANDFILL
EDDY COUNTY, NEW MEXICO
ATL JOB NO. 192063

Prepared by: _____
James D. Rose, P.E., Project Manager



Approved by: _____
BLM State Director

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ATL JOB NO. 192063 *July 26, 1994*

FINAL SOLUTIONS REPORT

FOCUSED SITE INVESTIGATION

FOR

BUREAU OF LAND MANAGEMENT

PROJECT

LOCO HILLS LANDFILL
EPA CERCLIS NO. NMD980506067

1.0 INTRODUCTION

1.1 Purpose

The purpose of this investigation was to evaluate the Loco Hills Landfill, a potential hazardous waste site located on land under the jurisdiction of the U.S. Department of Interior, Bureau of Land Management (BLM). This investigation encompassed what the U.S. Environmental Protection Agency (EPA) refers to as a Focused Site Investigation (FSI). The FSI was conducted in accordance with the EPA Guidance for Performing Site Inspections Under CERCLA Interim Final Version, Publication 9345.1-05, September, 1992.

1.2 Objectives

The objective of the "Final Solutions" report is to provide recommendations for future disposition of the site. EPA guidelines do not allow on FSI to discuss recommendations for site dispensation and/or management, thus BLM requested that

a separate recommendations report be prepared. This recommendations report is to address what future evaluation may be needed at the site and what actions might be taken at the site to alleviate contamination problems and hazards. The report is for BLM use in considering and evaluating future management options for the site.

2.0 RECOMMENDATIONS

Based on the ***Narrative Report for Loco Hills Landfill*** the following actions are recommended:

1. Test the 369 yd^3 of oil sludge to determine the TPH level by EPA Test Method 418.1. Soil with a TPH level below 1000 mg/Kg (1000 ppm) may be remediated on-site by land farming. (Calabrese and Kostecki) EPA recommended soil cleanup levels are 100 mg/Kg for petroleum contaminated soils. (40 CFR). Soil with higher concentrations than 1000 mg/Kg of TPH could remain on the site and be covered with a 2-foot thick soil cover. A notice of on-site petroleum waste would be posted on the fence.
2. Shred and bury the exposed tires in the landfill trench. Cover the landfill trench with 2 feet of compacted soil and revegetate with native plants and grasses. The landfill cover may be on-site soils.
3. Maintain the fence and locked gate at the site.

Typically, soils with TPH levels of 1000 mg/Kg or less may economically be treated by landfarming. Where TPH levels are well above 1000 mg/Kg, it would be more economical to encapsulate the oil sludge (soil mixtures with a compacted 2-foot thick soil cover as there are no targets for groundwater or surface water runoff as established the Hazard Ranking Scoring II (BLM 1993).

3.0 REFERENCES

1. Bureau of Land Management (BLM). 1993, Loco Hills Landfill Hazardous Ranking System II by ATL/Weston. October 1993.
2. Edward J. Calabrese and Paul T. Kostecki 1993. Principles and Practices for Petroleum Contaminated Soils.
3. Code of Federal Regulations, Title 40, Parts 1 through 299.

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Baker Petrolite
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Lovington #1
2. Management Facility Destination Gandy Marley Inc.	6. Transporter Gandy Corp
3. Address of Facility Operator Box 1658 Roswell nm 88202	8. State nmex
7. Location of Material (Street Address or ULSTR) 2mi N. of Lovington on Hiway 206	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Sump water from fiberglass storage tank. (250 bbl)

Approved for 1 month

Estimated Volume 40 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: V-P. DATE: 4-3-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: ENVR ENGR DATE: 4/8/98

APPROVED BY: _____ TITLE: Env. Geologist DATE: 4/10/98

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Baker Petrolite
2mi N. Loving ton on Tatum Hiway 206

Source: Sump water from fiberglass Storage tank (250bbl)

Disposal Location: GMI landfarms to solidify

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for Baker Petrolite concur with the status of the waste from the subject site.

Name Joe Lewis

Title/Agency Supervisor
Baker Petrolite

Address Lovington Hiway
Hobbs nm 88240

Signature Joe T. Lewis

Date 3-30-98

APR 2000 Received Hobbs OCD

13430

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #: 253

Company Name: Gandy Marley Inc
Phone #: 505-398-4960
Address: Box 1658 Roswell NM 88202
Fax #: 505-398-6887
Contact Person: Larry Gandy
Invoice to: (If different from above)
Project #: Baker Petrolite
Project Name:
Project Location: Lovington Yard
Sampler Signature: Larry Gandy

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
93430	Fiberglass Storage	2	1Lr	X						X		3-10-98	1:30 pm

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC-MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
					4	4	4	4							

Relinquished by: Larry Gandy Date: 3-10-98 Time:
Received by: Date: Time:
Relinquished by: Joe T. Lewis 3-10-98 Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 3-13-98 Time: 9:10 AM

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 15°
Log-in Review

REMARKS:

Carrier # Bus 901 415 103 1

Received MAR 1998 Hobbs NM

04/03/1998 12:04 5056259705 GANDY MARLEY, INC. PAGE 01

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202

March 26, 1998
Receiving Date: 03/13/98
Sample Type: Water
Project No: NA
Project Location: Lovington Yard

Extraction Date: 03/16/98
Analysis Date: 03/17/98
Sampling Date: 03/10/98
Sample Condition: I & C
Sample Received by: VW
Project Name: Baker Petro Lite

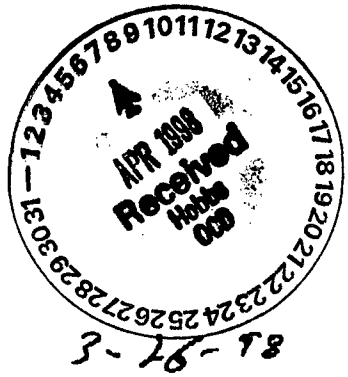
✓

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T93430 Fiberglass Storage	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.001	ND	108	5	113	108
1,1-Dichloroethene	0.70	0.001	ND	89	1	87	89
Methyl Ethyl Ketone	200.0	0.010	ND	81	14	87	81
Chloroform	6.00	0.001	ND	88	9	95	88
1,2-Dichloroethane	0.50	0.001	ND	83	10	95	83
Benzene	0.50	0.001	ND	113	10	112	113
Carbon Tetrachloride	0.50	0.001	ND	98	4	108	98
Trichloroethene	0.50	0.001	ND	102	8	101	102
Tetrachloroethene	0.70	0.001	ND	113	7	110	113
Chlorobenzene	100.00	0.001	ND	106	7	99	106
1,4-Dichlorobenzene	7.50	0.001	ND	103	10	99	103

SURROGATES	% Recovery
Dibromofluoromethane	102
Toluene-d8	95
4-Bromofluorobenzene	102

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: AG



3-26-98

Director, Dr. Blair Leftwich

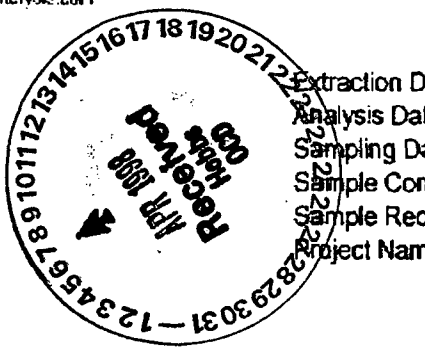
DATE

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

March 26, 1998
Receiving Date: 03/13/98
Sample Type: Water
Project No: NA
Project Location: Lovington Yard

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202



Extraction Date: 03/16/98
Analysis Date: 03/19/98
Sampling Date: 03/10/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Baker Petro Lite

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T83430	Fiberglass Storage	<0.20	<0.10	<0.02	<0.05	<0.10	<0.05	0.17	<0.010
ICV		0.98	0.95	0.99	0.99	0.99	0.20	1.0	0.054
CCV		0.93	0.93	0.96	0.96	0.94	0.19	0.97	0.048
Reporting Limit		0.20	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		9	5	5	0	0	2	0	2
% Extraction Accuracy		115	93	98	95	90	100	110	106
% Instrument Accuracy		96	94	97	98	97	95	98	102

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.50 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg.

Director, Dr. Blair Leftwich

3-26-98
Date

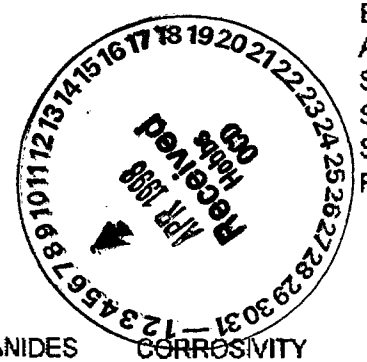
ent By: TRACEANALYSIS; 8067941296; 26 Mar 98 4:37PM;Job 545;Page 3/4

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202

March 26, 1998
Receiving Date: 03/13/98
Sample Type: Water
Project No: NA
Project Location: Lovington Yard



Extraction Date: 03/17/98
Analysis Date: 03/17/98
Sampling Date: 03/10/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Baker Petro Lite

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/yr)	pH (s.u.)	FLASHPOINT (°F)
	EPA LIMIT =	---	500	250	>6.5 mm/yr	<2 >12.5	>140° F
T93430	Fiberglass Storage	Non-reactive	<10	<2.5	Non-corrosive 0.56	7.9	>150
QC	Quality Control	---	---	---	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, 1010.
CHEMIST: RC

Director, Dr. Blair Leftwich

3-26-98
DATE

ent By: TRACEANALYSIS; 8067941296; 26 Mar 98 4:36PM;Job 545;Page 2/4

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202

March 26, 1998
Receiving Date: 03/13/98
Sample Type: Water
Project No: NA
Project Location: Lovington Yard

Extraction Date: 03/13/98
Analysis Date: 03/15/98
Sampling Date: 03/10/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Baker Petro Lite

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T93430 Fiberglass Storage	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	82	116*	53	103
1,4-Dichlorobenzene	7.5	0.05	ND	80	3	67	100
o-Cresol	200.0	0.05	ND	78	1	64	98
m,p-Cresol	200.0	0.05	ND	77	1	119	96
Hexachloroethane	3.0	0.05	ND	81	4	59	101
Nitrobenzene	2.0	0.05	ND	80	1	81	100
Hexachlorobutadiene	0.5	0.05	ND	78	5	66	98
2,4,6-Trichlorophenol	2.0	0.05	ND	84	1	78	105
2,4,5-Trichlorophenol	400.0	0.05	ND	90	2	92	113
2,4-Dinitrotoluene	0.13	0.05	ND	81	1	80	101
2,4-D	10.0	0.05	ND	87	1	84	109
Hexachlorobenzene	0.13	0.05	ND	64	3	56	80
2,4,5-TP	1.0	0.05	ND	70	0	60	88
Pentachlorophenol	100.0	0.05	ND	70	10	43	88

Surrogates	**% RECOVERY**
2-Fluorophenol	7**
Phenol-d6	0.1**
Nitrobenzene-d5	61
2-Fluorobiphenyl	62
2,4,6-Tribromophenol	28
Terphenyl-d14	71

***NOTE: RPD out of range <20%.**
****NOTE: Surrogate out of limits.**

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB



3-26-98

Director, Dr. Blair Leftwich

DATE

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator G & L
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site ARTESIA
2. Management Facility Destination GMI	6. Transporter I & W
3. Address of Facility Operator 34 MILES WEST OF TATUM, NM	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) ARTESIA	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

WASH DOCK SUMP @ G & L YARD

RECEIVED
APR 06 1998
Environmental Bureau
Oil Conservation Division

Received
APR 1998
Hobbs
OCD

Mailed 4/6/98

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: _____ DATE: 3/30/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. (505) 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: 4/2/98

APPROVED BY: _____ TITLE: Env Geologist DATE: 4/6/98


Received
Hobbs
OCD

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
APR 07 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator G & L 5. Originating Site ARTESIA
2. Management Facility Destination GMI	6. Transporter I & W
3. Address of Facility Operator 34 MILES WEST OF TATUM, NM	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) ARTESIA	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

WASH DOCK SUMP @ G & L YARD

APR 1998
RECEIVED
OCD - ARTESIA

APR 1998
Received
Hobbs
OCD

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: _____ DATE: 3/30/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. (505) 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: 4/2/98

APPROVED BY: _____ TITLE: _____ DATE: _____

GANDY MARLEY, INC.
P. O. BOX 827
TATUM, NEW MEXICO 88267
TATUM, NEW MEXICO ROSWELL, NEW MEXICO

CERTIFICATE OF WASTE STATUS

OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 301 COMMERCE STREET, ARTESIA N.M.

Source: WASH DOCK SUMP @ GTL YARD LOCATION.

Disposal Location:

APR 1998
Received
Hobbs
OCD

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3 (b)."

I, the undersigned as the agent for GTL TOOL CO. concur with the status of the waste from the subject site.

Name Paul Stock (PAUL STOCK)

Title/Agency Manager of GTL TOOL CO. for ARTESIA.

Address BOX 892
ARTESIA, N.M. 88211

Signature Paul Stock

Date 3-12-98

91358

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 223

Company Name: Gandy Marley Inc. Phone #: 505-398 4960

Address: Box 1658 Roswell nm 88202 Fax #: 505 398 6887

Contact Person: Larry Gandy

Invoice to: (If different from above)

Project #: GLT #9801 Project Name: GLT Tool

Project Location: Artesia Yard. Sampler Signature: Larry Gandy

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
91358	wash bay pit	2	Hr	X			X			X		2-17-98	12pm
	wash bay pit	4	vials	X			X			X		2-17-98	Dy

MTBE 8020/602 | BTEX 8020/602 | TPH | PAH 8270 | Total Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC.MS Vol. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 8080/608 | BOD, TSS, PH | Turn Around Time if different from standard | Hold

Received by: Hobbs OCD APR 1998

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Larry Gandy	2-17-98	12pm			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Windham	Date: 2-18-98	Time: 9:35

LAB USE ONLY
Intact Y N
Headspace Y N
Temp 2 °
Login Review B

REMARKS:
Please Fax
F 3-12

Carrier # Bus 901901408 1

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

03/23/1998 13:05 5056259706 GANDY MARLEY, INC. PAGE 06

TRACEANALYSIS, INC.

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www.traceanalysis.com

ANALYTICAL RESULTS FOR

Gandy Marley
Attention: Larry Gandy
PO BOX 1658
ROSWELL NM 88202

Date: Feb 23, 1998
Date Rec: 2/18/98
Project: GLT #9801
Proj Name: G&L Tool
Proj Loc: Artesia Yard

Lab Receiving # : 9802000323
Sampling Date: 2/17/98
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Vol in Sludge (mg/L)	EPA Limit	Reporting Limit	Method Blank	T91358 Wash Bay Pit	QC	RPD	%EA	%IA
Vinyl Chloride	0.2	0.05	ND	ND	115	11	78	115
1,1-Dichloroethene	0.7	0.05	ND	ND	95	5	82	95
Methyl Ethyl Ketone	200.0	0.50	ND	ND	102	4	112	102
Chloroform	6.0	0.05	ND	ND	96	5	106	96
1,2-Dichloroethane	0.5	0.05	ND	ND	95	6	114	95
Benzene	0.5	0.05	ND	0.24	104	6	104	104
Carbon Tetrachloride	0.5	0.05	ND	ND	84	1	117	84
Trichloroethene	0.5	0.05	ND	ND	98	4	95	98
Tetrachloroethane	0.7	0.05	ND	ND	96	4	97	96
Chlorobenzene	100.0	0.05	ND	ND	99	5	100	99
1,4-Dichlorobenzene	7.5	0.05	ND	ND	101	3	95	101

	% RECOVERY
Dibromofluoromethane	110
Toluene-d8	101
4-Bromofluorobenzene	99

APR 1998
Received
Hobbs
OCD

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Vol	EPA 1311	2/20/98	EPA 8260	2/22/98	AG	100 ea	100 ea

Director, Dr. Blair Leftwich

2-23-98
Date

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202

March 12, 1997
Receiving Date: 02/18/98
Sample Type: Sludge
Project No: GLT #9801
Project Location: Artesia Yard

Extraction Date: 02/23/98
Analysis Date: 03/06/98
Sampling Date: 02/17/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: G & L Tool

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T91358 Wash Bay Pit	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	87	166**	26	109
1,4-Dichlorobenzene	7.5	0.05	ND	78	0	42	98
o-Cresol	200.0	0.05	ND	71	21**	42	89
m,p-Cresol	200.0	0.05	ND	74	29**	70	93
Hexachloroethane	3.0	0.05	ND	77	6	32	96
Nitrobenzene	2.0	0.05	ND	76	7	51	95
Hexachlorobutadiene	0.5	0.05	ND	82	8	38	103
2,4,6-Trichlorophenol	2.0	0.05	ND	76	18	45	95
2,4,5-Trichlorophenol	400.0	0.05	ND	79	20	45	99
2,4-Dinitrotoluene	0.13	0.05	ND	78	40**	44	98
2,4-D	10.0	0.05	ND	81	47**	150	101
Hexachlorobenzene	0.13	0.05	ND	80	59**	37	100
2,4,5-TP	1.0	0.05	ND	165*	57**	2	206***
Pentachlorophenol	100.0	0.05	ND	94	65**	34	118

Surrogates	% RECOVERY	
2-Fluorophenol	16****	(21-100)
Phenol-d6	13	
Nitrobenzene-d5	60	
2-Fluorobiphenyl	61	
2,4,6-Tribromophenol	50	
Terphenyl-d14	73	

***NOTE: QC out of range. 2,4,5 TP is an unstable compound.**
****NOTE: RPD out of range <20%.**
*****NOTE: Instrument Accuracy out of standard range.**
******NOTE: Surrogate recovery out of standard range.**
ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB

Director, Dr. Blair Leftwich

APR 1998 Received Hobbs OCD

3-12-98
DATE

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Piperey Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202

March 12, 1998
Receiving Date: 02/18/98
Sample Type: Sludge
Project No: GLT #9801
Project Location: Artesia Yard

Extraction Date: 02/20/98
Analysis Date: 02/24/98
Sampling Date: 02/17/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: G & L Tool

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T91358	Wash Bay Pit	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<1.0	<0.010
ICV		1.1	1.0	1.0	1.0	1.0	0.20	1.0	0.052
CCV		1.1	1.1	1.0	1.0	1.1	0.20	0.98	0.051
Reporting Limit		1.0	1.0	0.5	0.5	1.0	0.5	1.0	0.010
RPD		0	0	0	0	0	17	0	4
% Extraction Accuracy		120	120	110	110	110	120	105	104
% Instrument Accuracy		110	105	100	100	105	100	99	103

Received APR 1998 Hobbs OCD

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba, Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg.

Director, Dr. Blair Leftwich

3-12-98
Date

ent By: TRACEANALYSIS; 8067941296; 12 Mar 98 5:23PM;Job 104;Page 3/4

TRACEANALYSIS, INC.

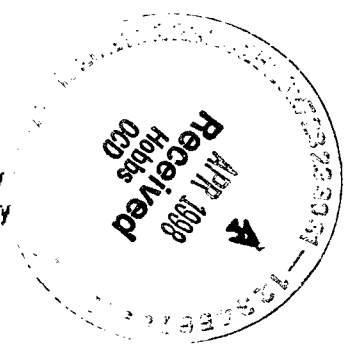
6701 Aberdeen Avenue, Suite 5 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
GANDY MARLEY, INC.
Attention: Larry Gandy
Box 1658
Roswell, NM 88202

March 12, 1998
Receiving Date: 02/18/98
Sample Type: Sludge
Project No: GLT #9801
Project Location: Artesia Yard

Extraction Date: 02/20/98
Analysis Date: 02/20/98
Sampling Date: 02/17/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: G & L Tool

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T91358	Wash Bay Pit	Non-reactive	35	5.0	Non-corrosive	7.2	Nonignitable
QC	Quality Control	—	—	—	—	7.0	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		—	—	—	—	—	—
% Instrument Accuracy		—	—	—	—	100	—



METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

3-12-98
DATE

ent By: TRACEANALYSIS; 8067941296; 12 Mar 98 5:24PM;Job 104;Page 4/4

P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 11 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator D & L Meters
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 710 S. COMMERCIAL Lovington,nm
2. Management Facility Destination Gandy Marley, Inc.	6. Transporter Gandy Corp.
3. Address of Facility Operator Box 1658, Roswell,NM 88202	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 710 S.Commercial	Lovington, NM

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Wash Bay liquids from cleaning exempt blowout preventers and related equipment.

FEB 1998
Received
Hobbs
OCD

Santa Fe 3-11-98

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy Waste Management Facility Authorized Agent TITLE: VP DATE: 2-23

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-8322

(This space for State Use)

APPROVED BY: Wayne Price TITLE: ENVR ENGR DATE: 2-28-98

APPROVED BY: Martyn J. Kilby TITLE: Env Geologist DATE: 3-11-98

strict II - (505) 748-1283
1 S. First
esia, NM 88210
strict III - (505) 334-6178
00 Rio Brazos Road
ec, NM 87410
strict IV - (505) 827-7131

Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Submit Ori
Plus 1 (
to approp
District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator D & L Meters
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 710s. commercial Lovington N.M.
2. Management Facility Destination Gandy Marley Inc	6. Transporter Gandy Corp.
3. Address of Facility Operator box 1658 Roswell N.M. 88202	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 710 S. Commercial	Lovington N.M.

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

RECEIVED
JUN 13 1997
Environmental Bureau
Oil Conservation Division

JUN 20 1997
RECEIVED

BRIEF DESCRIPTION OF MATERIAL:

Wash Bay liquids and solids from cleaning exempt oilfield equipment and related equipment.

HOLD FOR ANALYTICAL OK CHECKED with LAB!
THIS MATERIAL (LRA) WILL BE SOLIDIFIED AT LANDFARM! IF PERMIT ALLOWS?

OCD RECEIVED
FEB 1998
OCD
JUN 5 1997
RECEIVED

NO BLANKET APPROVALS MUST SUBMIT C-138 FOR EACH DISPOSAL EVENT! w/pics to

Estimated Volume 100 bbls. per mo cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: foreman DATE: 6-2-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Larry Gandy TELEPHONE NO. 398-4960

(This space for State Use)

APPROVED BY: _____ TITLE: ENVR ENGR DATE: 6/6/97

APPROVED BY: Martyn J. Kieling TITLE: Environmental Geologist DATE: 6/13/97

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
SAFETY FIRST
Attention: D. G. Williamson
333 W. Comanche
Hobbs, NM 88240

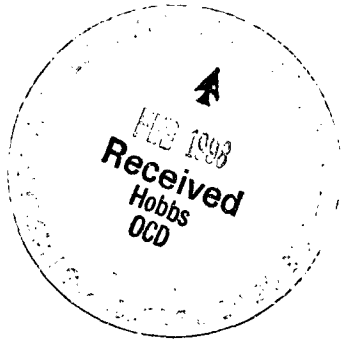
April 9, 1997
Receiving Date: 03/27/97
Sample Type: Sludge
Project No: D & L
Project Location: NA

Extraction Date: 03/31/97
Analysis Date: 04/01/97
Sampling Date: 03/26/97
Sample Condition: I & C
Sample Received by: JH
Project Name: Sump

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T69977 3715	QC	RPD	%EA	%IA
Vinyl chloride	0.2	0.05	ND	0.099	1	98	99
1,1-Dichloroethene	0.7	0.05	ND	0.097	4	115	97
Methyl Ethyl Ketone	200.0	0.05	ND	0.082	3	90	82
Chloroform	6.0	0.05	ND	0.094	3	110	94
1,2-Dichloroethane	0.5	0.05	ND	0.094	3	103	94
Benzene	0.5	0.05	ND	0.094	3	107	94
Carbon Tetrachloride	0.5	0.05	ND	0.095	2	119	95
Trichloroethene	0.5	0.05	ND	0.094	2	110	94
Tetrachloroethene	0.7	0.05	ND	0.094	4	115	94
Chlorobenzene	100.0	0.05	ND	0.095	3	107	95
1,4-Dichlorobenzene	7.5	0.05	ND	0.098	3	104	98

SURROGATES	% Recovery
Dibromofluoromethane	98
Toluene-d8	100
4-Bromofluorobenzene	100

ND = Not Detected



METHODS: EPA SW 846-1311, 8260.
CHEMIST: RP

Director, Dr. Blair Leftwich

4-9-97
DATE

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

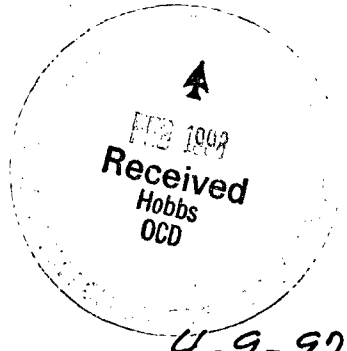
ANALYTICAL RESULTS FOR
SAFETY FIRST
Attention: D. G. Williamson
333 W. Comanche
Hobbs, NM 88240

April 9, 1997
Receiving Date: 03/27/97
Sample Type: Sludge
Project No: D & L
Project Location: NA

Extraction Date: 04/02/97
Analysis Date: 04/03/97
Sampling Date: 03/26/97
Sample Condition: I & C
Sample Received by: JH
Project Name: Sump

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit *	T69977 3715	QC	RPD	%EA	%IA
Pyridine	5.0	1.0	ND	75	6	18	94
1,4-Dichlorobenzene	7.5	1.0	ND	78	7	39	98
o-Cresol	200.0	1.0	ND	78	19	51	98
m,p-Cresol	200.0	1.0	ND	74	23	50	93
Total Cresol	200.0	1.0	ND	---	---	---	---
Hexachloroethane	3.0	1.0	ND	75	7	42	94
Nitrobenzene	2.0	1.0	ND	74	3	47	93
Hexachlorobutadiene	0.5	1.0	ND	77	3	42	96
2,4,6-Trichlorophenol	2.0	5.0	ND	77	3	46	96
2,4,5-Trichlorophenol	400.0	5.0	ND	78	3	51	98
2,4-Dinitrotoluene	0.13	1.0	ND	81	2	61	101
?,4-D	10.0	5.0	ND	81	3	52	101
exachlorobenzene	0.13	1.0	ND	80	8	84	100
2,4,5-TP	1.0	5.0	ND	77	6	45	96
Pentachlorophenol	100.0	5.0	ND	75	8	74	94
Chlordane	0.03	0.1	ND	0.054	5	86	108
Toxaphene	0.5	0.5	ND	2.00	6	92	100
Lindane	0.4	0.1	ND	0.027	5	74	108
Heptachlor	0.008	0.1	ND	0.026	5	74	104
Heptachlor epoxide	0.008	0.1	ND	0.0285	5	78	110
Total Heptachlor	0.008	0.1	ND	---	---	---	---
Endrin	0.02	0.1	ND	0.049	8	71	98
Methoxychlor	10.0	10	ND	0.26	5	74	104
Surrogates	**% RECOVERY**						
2-Fluorophenol	100						
Phenol-d6	115						
Nitrobenzene-d5	105						
2-Fluorobiphenyl	113						
2,4,6-Tribromophenol	88						
Terphenyl-d14	108						

***NOTE: Elevated reporting limits due to sample matrix.**
Methods: EPA SW 846-1311, 8270.
CHEMIST: HC/CC/MB
ND - Not Detected



4-9-97

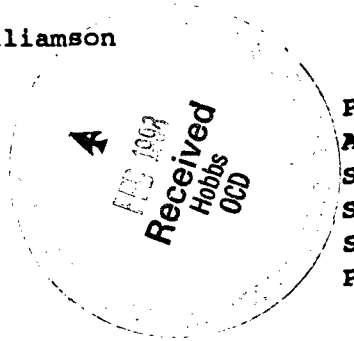
Director, Dr. Blair Leftwich

DATE

TRACE ANALYSIS, INC.
A Laboratory for Advanced Environmental Research and Analysis

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
SAFETY FIRST
Attention: D. G. Williamson
333 W. Comanche
Hobbs, NM 88240



April 9, 1997
Receiving Date: 03/27/97
Sample Type: Sludge
Project No: D & L
Project Location: NA

Prep Date: 04/01/97
Analysis Date: 04/01/97
Sampling Date: 03/26/97
Sample Condition: Intact & Cool
Sample Received by: JH
Project Name: Sump

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	FLASHPOINT (F)
	EPA LIMIT =	---	500	250	---	<2 >12.5	140 F
T69977	3715	Non-reactive	<10	<2.5	Non-corrosive	6.6	>150
QC	Quality Control	---	---	---	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	--	---	---	---
% Instrument Accuracy		---	---	--	---	100	---

METHODS: EPA SW 846-2.1.3, 2.1.2, 1010.
CHEMIST: JT

Director, Dr. Blair Leftwich

4-9-97
DATE

TraceAnalysis, Inc.

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: D. C. Williamson
Phone #: 392-7443
FAX #: 392-7443
Company Name & Address: Safety First 333 W. Comanche Hobbs, NM 88240
Project #: 094
Project Name : Empire
Project Location:
Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
69977	3115	2		✓			✓			✓		3/26/97	4:00

ANALYSIS REQUEST: BTEX, MTBE; TPH; Total Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Metals Ag As Ba Cd Cr Pb Hg Se; TCLP Volatiles; TCLP Semi Volatiles; RCI; 8240 / 8260; 8270

SPECIAL HANDLING: Turn around # of days; Fax ASAP; Hold

Received Hobbs OCD

	Date:	Time:		Date:	Time:
Relinquished by:	3/26/97	10:30 pm	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received at Laboratory by:	3/27/97	9:00A

REMARKS: both #s out of service

F 9-9-97 got

CT

01.NA

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
GANDY CORP.
Attention: Larry Gandy
Box 827
Tatum, NM 88267

May 9, 1997
Receiving Date: 04/30/97
Sample Type: Water
Project No: GC 4-28
Project Location: Lovington Yard

Extraction Date: 05/01/97
Analysis Date: 05/09/97
Sampling Date: 04/28/97
Sample Condition: I & C
Sample Received by: JH
Project Name: D & L Meter

FEB 1998 Received Hobbs OCD

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T72580	D & L Meter	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.20	<0.01
QC	Quality Control	0.98	1.02	1.01	1.0	1.02	1.05	1.01	0.0048
	Reporting Limit	0.10	0.10	0.02	0.05	0.10	0.05	0.20	0.01
	RPD	2	2	3	2	2	6	2	1
	% Extraction Accuracy	98	87	101	90	89	97	101	110
	% Instrument Accuracy	98	102	101	100	102	105	20	96

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: RC
METHODS: EPA SW 846-1311, 6010, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Cd, Pb; 1.5 mg/L Se, Cr, Ag, Ba; 0.05 mg/L Hg.
TCLP METALS QC: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba, Ag; 0.005 mg/L Hg.

Director, Dr. Blair Leftwich

5/9/97
Date



THE REPRODUCTION OF

THE

FOLLOWING

DOCUMENT (S)

CANNOT BE IMPROVED

DUE TO

THE CONDITION OF

THE ORIGINAL

12:00 500

TraceAnalysis, Inc.

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Larry Gandy
Phone #: 505-398-4960
FAX #: 505-398-6887

Company Name & Address: Gandy Corp. Box 8[illegible] atum nm 88267

Project #: GC-4-28
Project Name: D&L Meter

Project Location: Lovington Yard
Sampler Signature: Larry Gandy

LAB # (LAB USE)	MATRIX	PRESERVATIVE METHOD				SAMPLING		ANALYSIS REQUEST														SPECIAL HANDLING				
		HCL	HNO3	ICE	NONE	DATE	TIME	BTEX, MTBE	TPH	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se *	TCLP Volatiles	TCLP Semi Volatiles	RCI	8240 / 8260	8270						Turn around # of days	Fax ASAP	Hold		
					X	4-28	84m				X															

Received Hobbs OCD

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Larry Gandy	4-28-97	84m			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			D Harden	4/29/97	950A

REMARKS: Additional sample for D&L meter

F 5-9-97 90A
5-2-97

I

120AL