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**Los Alamos**  
NATIONAL LABORATORY

*Los Alamos National Laboratory*  
*Los Alamos, New Mexico 87545*

Date: September 19, 1995  
In Reply Refer To: ESH-18/WQ&H:95-0415  
Mail Stop: K497  
Telephone: (505) 667-4882

Mark Ashley  
Oil Conservation Division  
2040 South Pachecho Street  
Santa Fe, New Mexico 87505

**SUBJECT: STORMWATER SAMPLES FROM MILAGRO PROJECT LAND  
APPLICATION SITE**

Dear Mr. Ashley

Pursuant to your Division's conditional approval of the Laboratory's Notice of Intent to Discharge (NOI) for the Milagro Project, I am submitting analytical results for recent stormwater runoff samples taken at the site. These samples were obtained on August 18, 1995, from the northernmost stormwater sampling station at Fenton Hill. This station is designated as SWR-1 on the Milagro Project Sampling Plan previously submitted to your office and is approximately 100-150 feet downgradient from the application site.

As the analytical data indicates, there does not seem to be any migration of potential contaminants from the Milagro site. Concentrations of heavy metals in the stormwater are significantly lower than those found in the pond water being applied at the site.

I appreciate the time and effort which you have provided in assisting us to address the activities which have been implemented as a result of the Milagro Project. I would like to invite you to tour the site again at your convenience in order to observe the changes which have occurred since your last visit.

If you have any questions regarding the enclosed analytical results, or the status of operations at Milagro, please feel free to contact me at 667-4882 or Bob Beers at 667-7969.

Thank you.

Sincerely,

*Alex A. Puglisi*  
Alex A. Puglisi

AP/rj

Enclosures: a/s

Cy: R. Beers, ESH-18, MS K497  
M. Saladen, ESH-18, MS K497  
K. Zamora, DOE/LAAO, w/enc., MS A316  
G. Sennis, P-23, MS H803  
J. Thompson, EES-4, MS D443



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Mark Ashley  
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J. Albright. EES-4, MS D443  
R. Anderson. Oil Conservation Division, w/enc., Santa Fe  
WQ&H File, w/enc., MS K-497  
CRM-4, w/enc., MS A150

MILAGRO 1995

SAMPLE #	DESCRIPTION	DATE	Ag ppm	Al Std.D. +/-	As ppm	B Std.D. +/-	Ba Std.D. +/-	Be ppm
M95-1	Milagro, Rain/Runoff	08/21/95	(0.001	0.24 0.01	0.0006	0.014 0.002	0.02 0.01	(0.002

SAMPLE #	Br ppm	Ca Std.D. ppm +/-	Cd ppm	Cl ppm	Co ppm	CO3 Cond. (L) ppm usho/cm	Cr ppm	Cu ppm	F ppm	Fe Std.D. ppm +/-	HCO3 ppm
M95-1	(0.02	3.07 0.04	(0.001	0.60	(0.002	0 30.6	(0.002	(0.002	0.02	0.12 0.01	11.6

SAMPLE #	Hg ppm	K Std.D. ppm +/-	Li ppm	Mg Std.D. ppm +/-	Mn Std.D. ppm +/-	Mo ppm	Na Std.D. ppm +/-	Ni ppm	NO2 ppm	NO3 ppm	Pb ppm
M95-1	0.0005	3.31 0.01	(0.01	0.83 0.02	0.13 0.01	(0.002	0.20 0.01	0.008	0.01	0.70	(0.002

SAMPLE #	pH (L)	PO4 ppm	Sb ppm	Se ppm	Si Std.D. ppm +/-	SiO2 calculated	SO4 ppm	Sr Std.D. ppm +/-	Ti Std.D. ppm +/-	Tl ppm	V ppm
M95-1	6.60	0.09	(0.0002	0.0003	2.28 0.01	4.83	0.80	0.05 0.01	0.007 0.002	(0.002	(0.002

SAMPLE #	Zn Std.D. ppm +/-	TDS ppm	Cation Sum	Anion Sum	Balance	B/CL by wt	LI/CL by wt	F/CL by wt	NA/CL by wt	K/CL by wt	SO4/CL. by wt
M95-1	0.05 0.01	26.7	0.349	0.240	0.3728	0.3233	0.0000	0.0333	0.3333	5.5197	1.3333

SAMPLE #	HCO3/CL by wt
M95-1	19.3333