



DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

N68311.000869
NAVSTA LONG BEACH
SSIC #5090.3

5090
Ser 56LB.KB/065
October 31, 1996

Mr. Alvaro Gutierrez
Department of Toxic Substances Control
Region IX
245 W. Broadway, Suite 425
Long Beach, CA 90802-4444

Dear Mr. Gutierrez:

Enclosed is a copy of the results of the tin reanalysis (based on EPA comments) for samples collected at Site 12 on August 29, 1996. Reanalysis of soil samples at Site 12 for speciation of Mono di, and tributyl tins. Samples were received by Columbia Analytical Services on August 30, 1996, and have been subsequently on September 11, 1996, and September 13, 1996.

All samples were collected at the same sample locations and at the same depths as were done under the previous study except at one location (HP-12-14), which was inaccessible and was replaced by SP-12-04, which is in close proximity to the original HP-12-14 sample location. A comparison of the results of the reanalysis and the old tin data is presented in Table 1. All reanalyzed samples have a lower detection limit than the ones analyzed previously and have been "J" qualified for the ones that are detected between the detection limit of 0.3 ug/KG and the reporting limit of 1 ug/KG. All results compare well with the previous data and are below the reporting limit of 1ug/KG. A copy of the laboratory and the validation report validated by Laboratory Data Consultants of Carlsbad, California are being sent to Ms. Karla Brasaemle for review.

Sincerely,

A handwritten signature in cursive script that reads "Kurt Baer".

KURT BAER
Remedial Project Manager
By direction of the Commander

Encl:
(1) Comparison of New 1996 Tin Data Vs Old 1994 Tin Data

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Copy to:
Mr. Martin Hausladen
Department of Toxic Substances Control
Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Mr. Hugh Marley
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Ms. Karla Brasaemle
Ray F. Westion, Incorporated
700 5th Avenue, Suite 5700
Seattle, WA 98104-5057

Blind copy to:
56LB.KO
016 Read File
18 Central File

Writer: K. Baer, Code 56LB, X2-3329
Typist: B. Foster, Code 564, DOC: J:\COMMON\REANALYSIS, 30 OCT 96

Table 1

TIN
Tin Data

Comparison of New 1996 TIN data Vs Old 1994 TIN data

SP	Chemical	TRG	0.3	1 UG/KG	U	3.5	4HP-12-14	1	4 UG/KG	U	3.5	4
SP-12-04	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	3.5	4HP-12-14	1	4 UG/KG	U	3.5	4
SP-12-04	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	3.5	4HP-12-14	1	4 UG/KG	U	3.5	4
SP-12-04	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	3.5	4HP-12-14	1	4 UG/KG	U	3.5	4
SP-12-01	DI-BUTYLIN	TRG	0.3	3 UG/KG	U	3.5	4SP-12-01	1	1 UG/KG	U	3.5	4
SP-12-01	MONO-BUTYLIN	TRG	0.3	0.8 UG/KG	J	3.5	4SP-12-01	1	1 UG/KG	U	3.5	4
SP-12-01	TRI-BUTYLIN	TRG	0.3	0.8 UG/KG	J	3.5	4SP-12-01	1	1 UG/KG	U	3.5	4
SP-12-01	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	5.5	6SP-12-01	1	1 UG/KG	U	5.5	6
SP-12-01	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	5.5	6SP-12-01	1	1 UG/KG	U	5.5	6
SP-12-01	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	5.5	6SP-12-01	1	1 UG/KG	U	5.5	6
SP-12-01	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	6	6.5SP-12-01	1	1 UG/KG	U	6	6.5
SP-12-01	MONO-BUTYLIN	TRG	0.3	0.6 UG/KG	J	6	6.5SP-12-01	1	1 UG/KG	U	6	6.5
SP-12-01	TRI-BUTYLIN	TRG	0.3	0.8 UG/KG	J	6	6.5SP-12-01	1	1 UG/KG	U	6	6.5
SP-12-02	DI-BUTYLIN	TRG	1	1 UG/KG	U	2	2.5SP-12-02	1	1 UG/KG	U	2	2.5
SP-12-02	MONO-BUTYLIN	TRG	1	1 UG/KG	U	2	2.5SP-12-02	1	1 UG/KG	U	2	2.5
SP-12-02	TRI-BUTYLIN	TRG	1	1 UG/KG	U	2	2.5SP-12-02	1	1 UG/KG	U	2	2.5
SP-12-02	DI-BUTYLIN	TRG	0.3	0.3 UG/KG	J	5.5	6SP-12-02	1	1 UG/KG	U	5.5	6
SP-12-02	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	5.5	6SP-12-02	1	1 UG/KG	U	5.5	6
SP-12-02	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	5.5	6SP-12-02	1	1 UG/KG	U	5.5	6
SP-12-03	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-03	1	1 UG/KG	U	2	2.5
SP-12-03	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-03	1	1 UG/KG	U	2	2.5
SP-12-03	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-03	1	1 UG/KG	U	2	2.5
SP-12-03	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	5	5.5SP-12-03	1	1 UG/KG	U	5	5.5
SP-12-03	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	5	5.5SP-12-03	1	1 UG/KG	U	5	5.5
SP-12-03	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	5	5.5SP-12-03	1	1 UG/KG	U	5	5.5
SP-12-03	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	6	6.5SP-12-03	1	1 UG/KG	U	6	6.5
SP-12-03	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	6	6.5SP-12-03	1	1 UG/KG	U	6	6.5
SP-12-03	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	6	6.5SP-12-03	1	1 UG/KG	U	6	6.5
SP-12-04	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-04	1	1 UG/KG	U	1.5	2
SP-12-04	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-04	1	1 UG/KG	U	1.5	2
SP-12-04	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-04	1	1 UG/KG	U	1.5	2
SP-12-05	DI-BUTYLIN	TRG	1	1 UG/KG	U	1.5	2SP-12-05	1	4 UG/KG	U	1.5	2
SP-12-05	MONO-BUTYLIN	TRG	1	1 UG/KG	U	1.5	2SP-12-05	1	4 UG/KG	U	1.5	2
SP-12-05	TRI-BUTYLIN	TRG	1	1 UG/KG	U	1.5	2SP-12-05	1	4 UG/KG	U	1.5	2
SP-12-07	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	2.5	3SP-12-07	1	1 UG/KG	U	2.5	3
SP-12-07	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	2.5	3SP-12-07	1	1 UG/KG	U	2.5	3
SP-12-07	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	2.5	3SP-12-07	1	1 UG/KG	U	2.5	3
SP-12-08	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-08	1	4 UG/KG	U	1.5	2
SP-12-08	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-08	1	2 UG/KG	U	1.5	2
SP-12-08	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-08	1	1 UG/KG	U	1.5	2
SP-12-09	DI-BUTYLIN	TRG	1	1 UG/KG	U	1.5	2SP-12-09	1	4 UG/KG	U	1.5	2
SP-12-09	MONO-BUTYLIN	TRG	1	1 UG/KG	U	1.5	2SP-12-09	1	4 UG/KG	U	1.5	2
SP-12-09	TRI-BUTYLIN	TRG	1	1 UG/KG	U	1.5	2SP-12-09	1	4 UG/KG	U	1.5	2
SP-12-18	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-18	1	1 UG/KG	U	2	2.5
SP-12-18	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-18	1	1 UG/KG	U	2	2.5
SP-12-18	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-18	1	1 UG/KG	U	2	2.5
SP-12-22	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-22	1	1 UG/KG	U	1.5	2
SP-12-22	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-22	1	1 UG/KG	U	1.5	2
SP-12-22	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	1.5	2SP-12-22	1	1 UG/KG	U	1.5	2
SP-12-22	DI-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-22	1	1 UG/KG	U	2	2.5
SP-12-22	MONO-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-22	1	1 UG/KG	U	2	2.5
SP-12-22	TRI-BUTYLIN	TRG	0.3	1 UG/KG	U	2	2.5SP-12-22	1	1 UG/KG	U	2	2.5