

ITEM		COST, \$/Year
Raw Materials		672,000
Waste Disposal		278,000
Utilities		898,000
Labor		870,000
Maintenance		195,000
Administration and General Overhead		90,000
Local Taxes and Insurance		97,000
Depreciation		324,000
Total		3,424,000
OPERATION	TREATMENT CAPACITY	COST/TON, \$/TON
1 year	25,000tons	318
2 years	50,000tons	221
3 years	750,000tons	189
4 years	100,000tons	173
5 years	125,000tons	163
SYSTEM COSTS		
SYSTEM		COST, \$
Soil Solvent Washing		3,412,000
Distillation		1,026,000
Bioreactor		425,000
Total		4,863,000

21.1%,
8.7%

Amid P. Khodadoust et.al, "Integrated system for remediation of contaminated soils" Journal of Environmental Engineering, Vol. 125, No. 11, November, 1999

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3. (25,000 /)

(Loss) 2% 가
4) 50%(9 7 , 10
\$/) 가 3

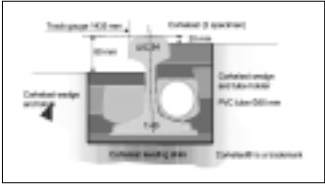
가 1
가 2 5

\$318/ , 5
\$163/ 70.1% 가

FF

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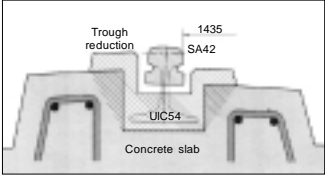
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2.

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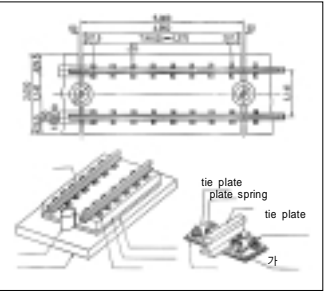
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3.

(FesteFahrbahn, FF)

1996 Mannheim-Karlsruhe
Waghaeusel



1.

UIC54
SA42
225kN

tie plate
plate spring
tie plate



5dB

2 , FF

4). (-

가 가

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가 가

50% 가 가

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4.

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- Innovations in Railway Track, Rail
Tech. Holland, Utrecht

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