



1575-2050010-1

报告编号

YNZKEBG20250813001

Report No

项目名称

华新水泥(昭通)有限公司土壤检测

Name

委托单位

华新水泥（昭通）有限公司

Client

项目地址

昭通市昭阳区北闸镇塘房村

Address

样品类别

土壤

Type

编制:

Compiled by

杨怀艳

校核:

Proofread check

审核:

Inspected by

马江

签发:

Approved by

签发日期:

2025 年 08 月 13 日

Approved Date

Y M D

云南

Yunnan

报告日期

日

Report Date

Y M D

声 明

Introduction

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4.对委托人送检的样品进行检测的，检测报告对样品所检项目的符合性情况负责，送样样品的代表性和真实性由委托人负责；除委托方特别声明并支付样品管理费以外，所有样品

If the sample submitted by the client is tested, the test report shall be responsible for the
performance of the items tested by the sample, and the client shall be responsible for the

附件 1: 土壤

土壤环境质量标准

样品检出限 实测质量浓度 毒性当量因子

NO.1

多氯代
TEQ=实测质量浓度*毒性
苯并呋喃

样品编号	YNZKSC	取样量 (g)	10.0122	含水率	2.01%
	20250723015-1S001				
测试液组分浓度					毒性当量质量浓度
单位	单位	单位			(TEQ)
二噁英类	(ng/mL)	(ng/kg)	(ng/kg)	I-TEF	单位
					(ng TEQ/kg)

1,2,3,7,8-P5CDF	0.50	0.001	1.50	0.1	0.150
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1,2,3,7,8-P5CDF	1.30	0.05	2.65	0.05	0.133
2,3,4,7,8-P5CDF	2.19	0.02	4.46	0.5	2.23
1,2,3,4,7,8-H6CDF	3.08	0.03	6.28	0.1	0.628
1,2,3,6,7,8-H6CDF	2.69	0.03	5.48	0.1	0.548
2,3,4,6,7,8-H6CDF	2.69	0.04	5.48	0.1	0.548
1,2,3,7,8,9-H6CDF	0.62	0.07	1.26	0.1	0.126
1,2,3,4,6,7,8-H7CDF	7.79	0.03	15.9	0.01	0.159
1,2,3,4,7,8,9-H7CDF	1.08	0.03	2.20	0.01	0.0220
O8CDF	2.64	0.05	5.38	0.001	0.00538
2,3,7,8-T4CDD	0.13	0.01	0.265	1	0.265
1,2,3,7,8-P5CDD	0.35	0.04	0.713	0.5	0.357
1,2,3,4,7,8-H6CDD	0.34	0.02	0.693	0.1	0.0693

多氯代二苯

样品加标回收率

NO.2

样品编号:	YNZKSC20250723015-1S001	回收率 (%)	控制要求
采样内标	$^{37}\text{Cl}_4\text{-2,3,7,8-T}_4\text{CDD}$	/	70%~130%
	$^{13}\text{C}_{12}\text{-2,3,7,8-T}_4\text{CDF}$	71	24%~169%
	$^{13}\text{C}_{12}\text{-1,2,3,7,8-P}_5\text{CDF}$	102	24%~185%
	$^{13}\text{C}_{12}\text{-2,3,4,7,8-P}_5\text{CDF}$	95	21%~178%
	$^{13}\text{C}_{12}\text{-1,2,3,4,7,8-H}_6\text{CDF}$	82	32%~141%
	$^{13}\text{C}_{12}\text{-1,2,3,6,7,8-H}_6\text{CDF}$	79	28%~130%
	$^{13}\text{C}_{12}\text{-2,3,4,6,7,8-H}_6\text{CDF}$	84	28%~136%

净化内标	$^{13}\text{C}_{12}\text{-1,2,3,4,6,7,8-H}_7\text{CDF}$	65	28%~143%
	$^{13}\text{C}_{12}\text{-1,2,3,4,7,8,9-H}_7\text{CDF}$	51	26%~138%

附件 2: 土壤

TEQ=实测质量浓度*毒性
当量因子

2,3,7,8-TCDF

NO.1

样品编号	YNZKSC 20250723015-1S002	量 (g)	10.0389	含水率	1.87%
					毒性当量质量浓度

二噁英类	单位 (ng/mL)	单位 (ng/kg)	单位 (ng/kg)	I-TEF	单位 (ng TEQ/kg)
2,3,7,8-T ₄ CDF	1.07	0.004	2.17	0.1	0.217
	1.98	0.05	4.02	0.05	0.201

样品加标回收率

NO.2

样品编号: YNZKSC20250723015-1S002 回收率 (%) 控制要求

采样内标	³⁷ Cl ₄ -2,3,7,8-T ₄ CDD	/	70%~130%
	¹³ C ₁₂ -2,3,7,8-T ₄ CDF	71	24%~169%
	¹³ C ₁₂ -1,2,3,7,8-P ₅ CDF	106	24%~185%
	¹³ C ₁₂ -2,3,4,7,8-P ₅ CDF	97	21%~178%
	¹³ C ₁₂ -1,2,3,4,7,8-H ₆ CDF	81	32%~141%

	¹³ C ₁₂ -1,2,3,6,8-H ₆ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,8-H ₆ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%

	¹³ C ₁₂ -2,3,4,6,7,8-H ₆ CDF	82	28%~136%
	¹³ C ₁₂ -1,2,3,7,8,9-H ₆ CDF	75	29%~147%

净化内标	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%
	¹³ C ₁₂ -1,2,3,4,6,7,8-H ₇ CDF	62	22%~142%

ReportNo

of

附件 3: 土壤

TEQ=实测质量浓度×毒性当量因子
毒性当量因子

1,2,3,7,8-P₅CDF

多氯二苯并呋喃

样品编号

YNZKSC202507230
15-1S002PX

量 (g)

10.0796

含水率

1.87%

毒性当量质量浓度

测得浓度/公称浓度 样品检出限 实测质量浓度 毒性当量因子

样品加标回收率

NO.2

样品编号: YNZKSC20250723015-1S002PX 回收率 (%) 控制要求

采样内标 $^{37}\text{Cl}_4\text{-2,3,7,8-T}_4\text{CDD}$ / 70%~130%

$^{13}\text{C}_{12}\text{-2,3,7,8-T}_4\text{CDF}$ 71 24%~169%

$^{13}\text{C}_{12}\text{-1,2,3,7,8-P}_5\text{CDF}$ 105 24%~185%

$^{13}\text{C}_{12}\text{-2,3,4,7,8-P}_5\text{CDF}$ 98 24%~179%

$^{13}\text{C}_{12}\text{-1,2,3,4,7,8-H}_6\text{CDF}$ 80 32%~141%

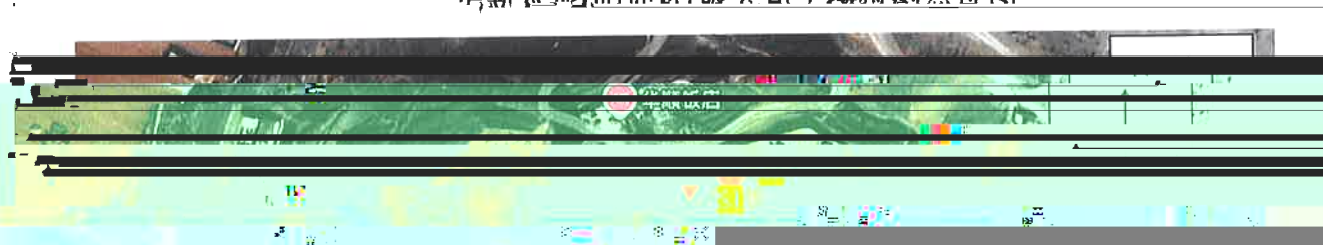
$^{13}\text{C}_{12}\text{-1,2,3,6,7,8-H}_6\text{CDF}$ 78 29%~139%

$^{13}\text{C}_{12}\text{-2,3,4,6,7,8-H}_6\text{CDF}$ 82 28%~136%

$^{13}\text{C}_{12}\text{-1,2,3,7,8,9-H}_6\text{CDF}$ 74 29%~147%

附图:

华新水泥(昭通)有限公司土壤检测点位图



土壤监测点

报告结束