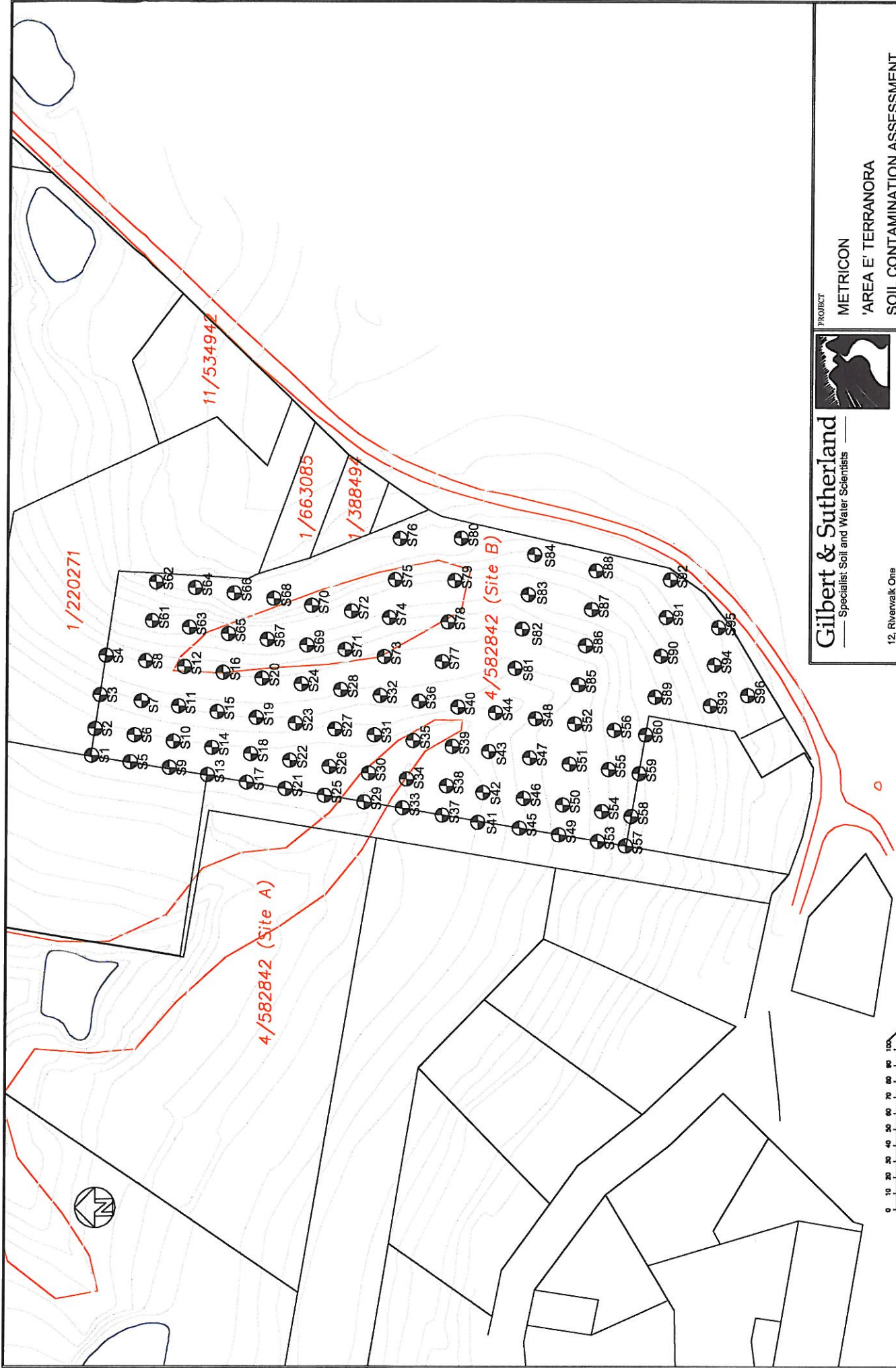




Gilbert & Sutherland
Specialist Soil and Water Scientists

12, Riverwalk One
140 Robina Town Centre Drive, Robina, Qld. 4228
Phone 557 88944 Mobile 0418 760919 Fax 557 88945

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PROJECT

METRICON
'AREA E' TERRANORA
SOIL CONTAMINATION ASSESSMENT

SCALE AS SHOWN

DRAWN C.A.B.

CHECKED

DRAWING No.

DATE 27.10.05

GJ0128.1.7A



Composite sample no.	Arsenic	Cadmium	Copper	Lead	Zinc	Mercury	Aldrin + Dieldrin	Chlordane	DDT + DDD + DDE
C18 (S69,S70,S71,S72)	3	<1	59	9	55	0.1	<0.1	<0.1	<0.3
C19 (S73,S74,S75,S76)	5	<1	65	9	55	0.2	<0.1	<0.1	<0.3
C20 (S77,S78,S79,S80)	10	<1	46	7	217	0.1	<0.1	<0.1	<0.3
C21 (S81,S82,S83,S84)	4	<1	53	9	52	0.1	<0.1	<0.1	<0.3
C22 (S85,S86,S87,S88)	6	<1	5	11	66	0.2	<0.1	<0.1	<0.3
C23 (S89,S90,S91,S92)	1	<1	47	8	58	0.1	<0.1	<0.1	<0.3
C24 (S93,S94,S95,S96)	2	<1	57	7	48	0.2	<0.1	<0.1	<0.3
Mean	7.5	<1	55	8	66	0.14	<0.1	<0.1	<0.3

Two (2) of the twenty-four (24) composite samples (C14 & C15) analysed exceeded the adjusted HIL of 25mg/kg for arsenic. The arsenic concentration of these samples was 31mg/kg for both samples. The concentrations of lead, cadmium, copper, zinc, mercury and organochlorine compounds were below the adjusted HIL's within all twenty-four (24) of the composite samples analysed.

The eight (8) samples used to form composite samples C14 & C15 were subsequently analysed for arsenic concentration. The analytical results for these samples are shown in Table 6.7.2.2 below.

Table 6.7.2.2. Arsenic results (mg/kg).

Sample no.	Arsenic
S53	27
S54	44
S55	16
S56	8
S57	43
S58	54
S59	12
S60	15
Mean	17

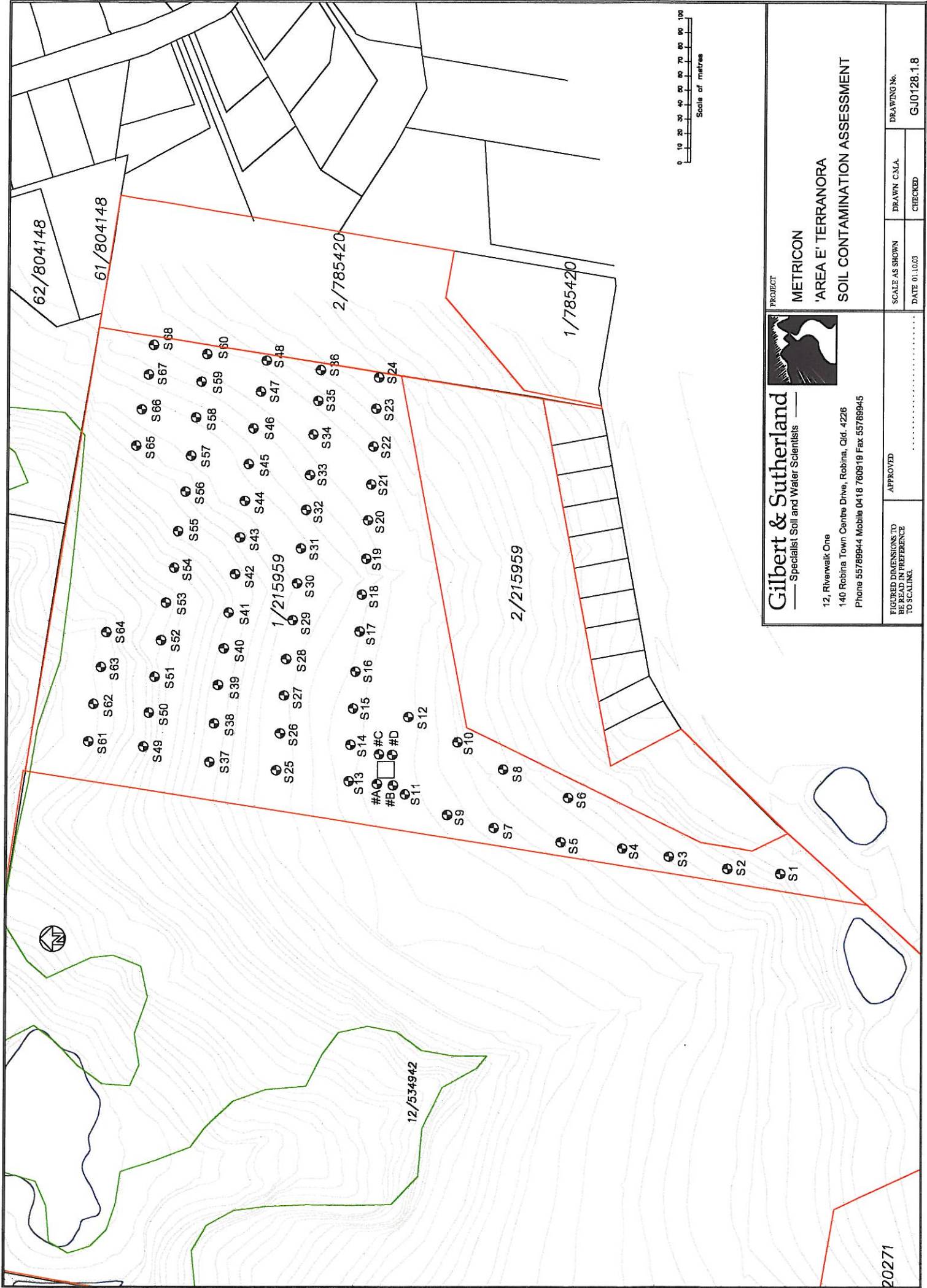
The concentration of arsenic was below the HIL of 100 mg/kg for all eight (8) samples submitted to ALS.

6.8 Results for Lot 1 DP 215959 (Nichols)

A summary of the analytical results for Lot 1 DP 215959 are shown in Table 6.8.1 below. The sample locations are shown on Drawing Number GJ0128.1.8.

Table 6.8.1. Summary of analytical results for Lot 1 DP 215959 (mg/kg).

Composite sample no.	Arsenic	Lead	Aldrin + Dieldrin	Chlordane	DDT + DDD + DDE
C1 (S1,S2,S3,S4)	2	12	<0.1	<0.1	<0.3
C2 (S5,S6,S7,S8)	<1	8	<0.1	<0.1	<0.3
C3 (S9,S10,S11,S12)	2	7	<0.1	<0.1	<0.31
C4 (S13,S14,S15,S16)	5	6	<0.1	<0.1	<0.36
C5 (S17,S18,S19,S20)	<1	6	<0.1	<0.1	<0.3
C6 (S21,S22,S23,S24)	4	6	<0.1	<0.1	<0.3
C7 (S25,S26,S27,S28)	2	6	<0.1	<0.1	<0.33
C8 (S29,S30,S31,S32)	<1	7	<0.1	<0.1	<0.3
C9 (S33,S34,S35,S36)	<1	6	<0.1	<0.1	<0.3



Gilbert & Sutherland
 — Specialist Soil and Water Scientists —

12, Riverwalk One
 140 Robina Town Centre Drive, Robina, Qld. 4226
 Phone 55789944 Mobile 0418 760919 Fax 55789945

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Composite sample no.	Arsenic	Lead	Aldrin + Dieldrin	Chlordane	DDT + DDD + DDE
C10 (S37,S38,S39,S40)	3	8	<0.1	<0.1	<0.3
C11 (S41,S42,S43,S44)	<1	6	<0.1	<0.1	<0.3
C12 (S45,S46,S47,S48)	<1	6	<0.1	<0.1	<0.3
C13 (S49,S50,S51,S52)	<1	7	<0.1	<0.1	<0.3
C14 (S53,S54,S55,S56)	2	6	<0.1	<0.1	<0.3
C15 (S57,S58,S59,S60)	<1	7	<0.1	<0.1	<0.3
C16 (S61,S62,S63,S64)	7	6	<0.1	<0.1	<0.3
C17 (S65,S66,S67,S68)	<1	7	<0.1	<0.1	<0.3
Mean	<2	7	<0.1	<0.1	<0.31

The concentrations of arsenic, lead and organochlorine compounds were below the adjusted HIL's within all seventeen (17) of the composite samples analysed.

Additionally, four (4) samples were recovered from within the vicinity of a shed used possibly for the storage and mixing of agricultural chemicals. The results are shown in Table 6.8.2 below.

Table 6.8.2. Summary of analytical results for samples recovered from within the vicinity of a shed located on Lot 1 DP 215959 (mg/kg).

Sample no.	Arsenic	Lead	Aldrin + Dieldrin	Chlordane	DDT + DDD + DDE
#A Shed	4	58	<0.1	<0.1	<3.56
#B Shed	2	9	<0.1	<0.1	<0.3
#C Shed	6	11	<0.1	<0.1	<0.35
#D Shed	4	18	<0.1	<0.1	<0.49
Mean	4	24	<0.1	<0.1	<4.70

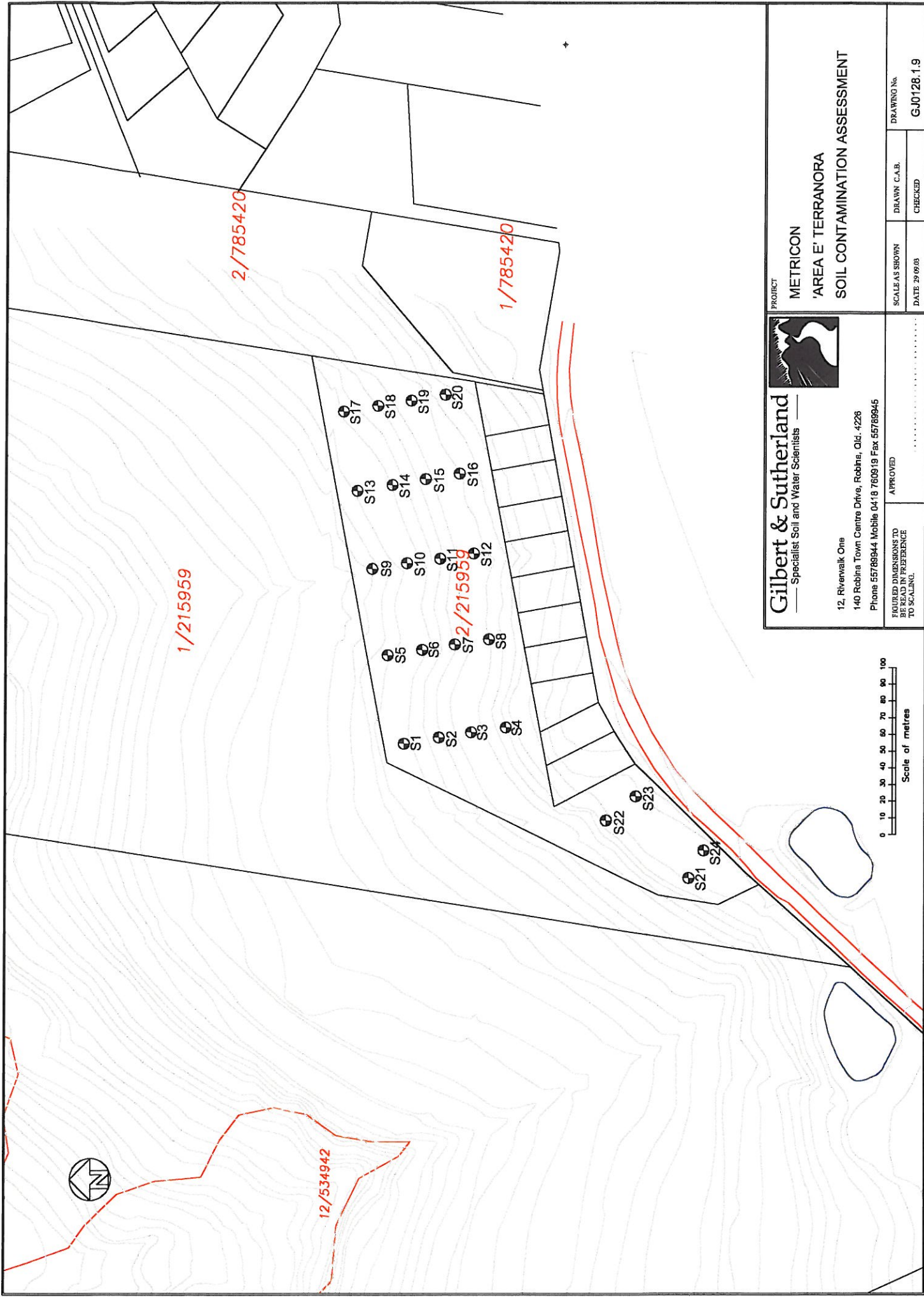
The concentrations of arsenic, lead and organochlorine compounds were below the HIL's (100, 300, 10, 50 & 200 mg/kg respectively) within all four (4) of the samples analysed.

6.9 Results for Lot 2 DP 215959 (Nichols)

A summary of the analytical results for Lot 2 DP 215959 are shown in Table 6.9.1 below. The sample locations are shown on Drawing Number GJ0128.1.9.

Table 6.9.1. Summary of analytical results for Lot 2 DP 215959 (mg/kg).

Composite sample no.	Arsenic	Lead	Aldrin + Dieldrin	Chlordane	DDT + DDD + DDE
C1 (S1,S2,S3,S4)	2	7	<0.1	<0.1	<0.3
C2 (S5,S6,S7,S8)	<1	7	<0.1	<0.1	<0.3
C3 (S9,S10,S11,S12)	1	7	<0.1	<0.1	<0.3
C4 (S13,S14,S15,S16)	2	8	<0.1	<0.1	<0.3
C5 (S17,S18,S19,S20)	<1	8	<0.1	<0.1	<0.3
C6 (S21,S22,S23,S24)	4	18	<0.1	<0.1	<0.31
Mean	<2	9	<0.1	<0.1	<0.30



Gilbert & Sutherland
— Specialist Soil and Water Scientists —

12, Rivervale One

140 Robina Town Centre Drive, Robina, Qld. 4226

Phone 55788944 Mobile 0418 760919 Fax 55788945

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The concentrations of arsenic, lead and organochlorine compounds were below the adjusted HIL's within all six (6) of the composite samples analysed.

6.10 Results for Lot 12 DP 534942 (Nichols)

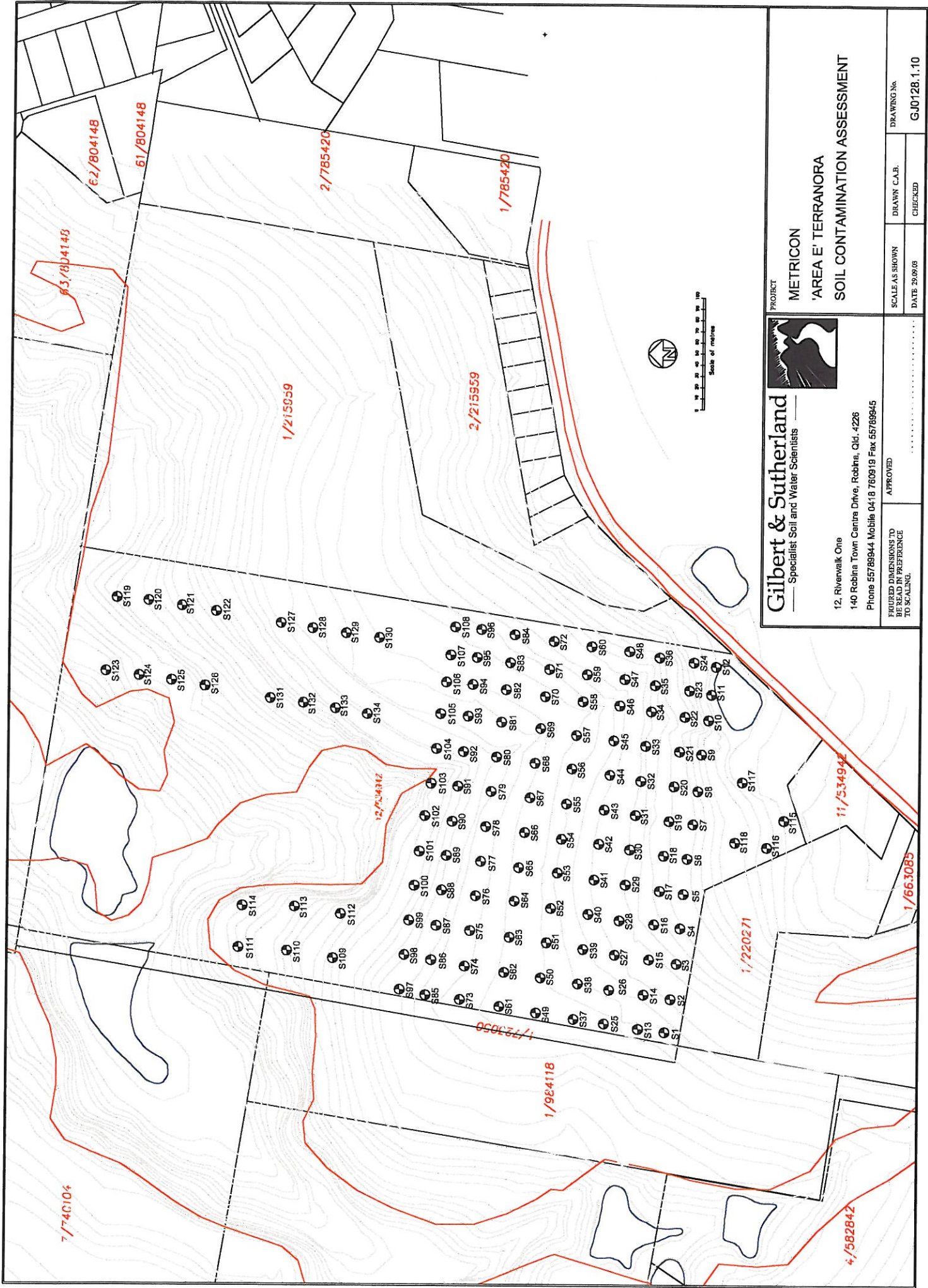
A summary of the analytical results for Lot 12 DP 534942 are shown in Table 6.10.1 below. The sample locations are shown on Drawing Number GJ0128.1.10.

Table 6.10.1. Summary of analytical results for Lot 12 DP 534942 (mg/kg).

Composite sample no.	Arsenic	Lead	Aldrin+ Dieldrin	Chlordane	DDT + DDD + DDE
C1 (S1,S2,S3,S4)	<1	6	<0.1	<0.1	<0.3
C2 (S5,S6,S7,S8)	1	7	<0.1	<0.1	<0.3
C3 (S9,S10,S11,S12)	1	8	<0.1	<0.1	<0.3
C4 (S13,S14,S15,S16)	<1	7	<0.1	<0.1	<0.3
C5 (S17,S18,S19,S20)	<1	6	<0.1	<0.1	<0.3
C6 (S21,S22,S23,S24)	<1	8	<0.1	<0.1	<0.3
C7 (S25,S26,S27,S28)	4	6	<0.1	<0.1	<0.32
C8 (S29,S30,S31,S32)	<1	7	<0.1	<0.1	0.71
C9 (S33,S34,S35,S36)	2	11	<0.1	<0.1	<0.3
C10 (S37,S38,S39,S40)	2	7	<0.1	<0.1	<0.3
C11 (S41,S42,S43,S44)	3	8	<0.1	<0.1	<0.3
C12 (S45,S46,S47,S48)	3	10	<0.1	<0.1	<0.3
C13 (S49,S50,S51,S52)	8	8	<0.1	<0.1	<0.32
C14 (S53,S54,S55,S56)	2	6	<0.1	<0.1	<0.3
C15 (S57,S58,S59,S60)	8	9	<0.1	<0.1	<0.3
C16 (S61,S62,S63,S64)	3	7	<0.1	<0.1	<0.3
C17 (S65,S66,S67,S68)	3	8	<0.1	<0.1	<0.3
C18 (S69,S70,S71,S72)	1	8	<0.1	<0.1	<0.3
C19 (S73,S74,S75,S76)	2	8	<0.1	<0.1	<0.3
C20 (S77,S78,S79,S80)	4	8	<0.1	<0.1	<0.3
C21 (S81,S82,S83,S84)	5	9	<0.1	<0.1	<0.3
C22 (S85,S86,S87,S88)	5	14	<0.1	<0.1	<0.3
C23 (S89,S90,S91,S92)	8	7	<0.1	<0.1	<0.3
C24 (S93,S94,S95,S96)	8	10	<0.1	<0.1	<0.3
C25 (S97,S98,S99,S100)	4	7	<0.1	<0.1	<0.3
C26 (S101,S102,S103,S104)	2	7	<0.1	<0.1	<0.3
C27 (S105,S106,S107,S108)	8	9	<0.1	<0.1	<0.32
C28 (S109,S110,S112,S113)	53	6	<0.1	<0.1	<0.3
C29 (S115,S116,S117,S118)	<1	6	<0.1	<0.1	<0.3
C30 (S119,S120,S121,S122)	9	13	<0.1	<0.1	<0.3
C31 (S123,S124,S125,S126)	7	8	<0.1	<0.1	<0.3
C32 (S127,S128,S129,S130)	8	8	<0.1	<0.1	<0.31
C33 (S131,S132,S133,S134)	6	8	<0.1	<0.1	<0.3
Mean	<6	8	<0.1	<0.1	<0.31

One (1) of the thirty-three (33) composite samples, (C28) exceeded the adjusted HIL of 25mg/kg for arsenic. The arsenic concentration of this sample was 53 mg/kg. The concentrations of lead and organochlorine compounds were below the adjusted HIL's within all thirty-three (33) of the composite samples analysed.

The four (4) samples used to form composite sample C28 were subsequently analysed for arsenic. Additionally, samples S111 and S114 were analysed to further determine the extent of contamination within this area of the subject property. The analytical results for these samples are shown in Table 6.10.2 on the following page.



Gilbert & Sutherland
— Specialist Soil and Water Scientists —

12, Rivervale One
140 Robina Town Centre Drive, Robina, Qld. 4226
Phone 55789944 Mobile 0418 780919 Fax 55789945

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