

OTTEMPERANZA CONDIZIONI AMBIENTALI N. 1÷5

ALLEGATO E

REPORT STATISTICI SURFER - ACQUA E SEDIMENTI

Gridding Report

Acque_AO1_Profondo_Idrocarburi_Totali

Fri Feb 25 16:01:12 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	10.28
Median:	686295.7	4482087	13.48
75%-tile:	686554.4	4482291.4	14.46
Maximum:	686954.1	4482509.1	16.18
Midrange:	686221.1	4481914.8	13.09
Range:	1466	1188.5999999996	6.18
Interquartile Range:	733.80000000005	594.30000000075	4.18
Median Abs. Deviation:	475.09999999998	389.90000000037	2.7
Mean:	686115.3625	4481925.25	12.60125
Trim Mean (10%):	686080.11666667	4481928.7333333	12.438333333333
Standard Deviation:	491.34506697814	368.36158526635	2.1461386109709
Variance:	241419.97484375	135690.25749994	4.6059109375
Coef. of Variation:			0.17031156519955

Coef. of Skewness:

0.075360115025476

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.490
Y:		1.000	0.203
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	516.42092187502
Y:		135690.25749994	160.8423125002
Z:			4.6059109375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0023635306718183	0.0017395237156044	-9405.4687157845
Standard Error:	0.0016274501033101	0.002170800678449	9987.3865715716

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	12.003110228341	6.0015551141707	1.2078
Residual:	5	24.844177271658	4.9688354543316	
Total:	7	36.8472875		

Coefficient of Multiple Determination (R^2): 0.32575288556428

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.7
25%-tile:	399.96126062406	2.92
Median:	400.00431247669	3.49
75%-tile:	402.72925148261	4.18
Maximum:	402.72925148261	4.18
Midrange:	400.07895587358	3.44
Range:	5.3005912180544	1.48
Interquartile Range:	2.7679908585473	1.26
Median Abs. Deviation:	2.5756522121415	0.69
Mean:	400.03087121198	3.3225
Trim Mean (10%):	400.01484299144	3.28333333333333
Standard Deviation:	1.8747205725248	0.57290378773403
Variance:	3.5145772250477	0.32821875
Coef. of Variation:	0.0046864397411253	0.17243153882138
Coef. of Skewness:	0.076886159976531	0.43713875090403
Root Mean Square:	400.03526407035	3.3715315510907
Mean Square:	160028.21249984	11.367225

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 9.5244887849459
Z 25%-tile: 11.027531829862
Z Median: 12.999587454099
Z 75%-tile: 13.912158180224
Z Maximum: 16.098094713756

Z Midrange: 12.811291749351
Z Range: 6.5736059288105
Z Interquartile Range: 2.8846263503614
Z Median Abs. Deviation: 1.2341905073155

Z Mean: 12.551246843102
Z Trim Mean (10%): 12.560398336165
Z Standard Deviation: 1.6667448146159
Z Variance: 2.7780382770489

Z Coef. of Variation: 0.13279515855685

Z Coef. of Skewness: -0.28816982354023

Z Root Mean Square: 12.661431024711

Z Mean Square: 160.31183559352

Gridding Report

Acque_AO1_Profondo_Potenziale_Redox

Fri Feb 25 16:02:16 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	103.90416666667
25%-tile:	685820.6	4481697.1	104.21666666667
Median:	686295.7	4482087	106.22083333333
75%-tile:	686554.4	4482291.4	107.65555555556
Maximum:	686954.1	4482509.1	107.81780821918
Midrange:	686221.1	4481914.8	105.86098744292
Range:	1466	1188.5999999996	3.913641552511
Interquartile Range:	733.80000000005	594.30000000075	3.438888888889
Median Abs. Deviation:	475.09999999998	389.90000000037	1.596974885845
Mean:	686115.3625	4481925.25	105.78173991629
Trim Mean (10%):	686080.11666667	4481928.7333333	105.75532407407
Standard Deviation:	491.34506697814	368.36158526635	1.5730545317036
Variance:	241419.97484375	135690.25749994	2.4745005597131
Coef. of Variation:			0.014870756833348

Coef. of Skewness:

0.043836502076482

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.631
Y:		1.000	-0.130
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	487.94057261946
Y:		135690.25749994	-75.362627235712
Z:			2.4745005597131

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0020017803464713	-8.0372909497715E-005	-907.44513393951
Standard Error:	0.0011278562972912	0.0015044093888796	6921.4637151199

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	7.8639070046775	3.9319535023387	1.6476
Residual:	5	11.932097473022	2.3864194946043	
Total:	7	19.796004477699		

Coefficient of Multiple Determination (R^2): 0.3972471825583

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.016666666665998
25%-tile:	399.96126062406	0.162252663622
Median:	400.00431247669	0.9750000000001
75%-tile:	402.72925148261	3.055555555555
Maximum:	402.72925148261	3.055555555555
Midrange:	400.07895587358	1.5361111111105
Range:	5.3005912180544	3.038888888889
Interquartile Range:	2.7679908585473	2.893302891933
Median Abs. Deviation:	2.5756522121415	0.9583333333401
Mean:	400.03087121198	1.0523687214608
Trim Mean (10%):	400.01484299144	0.89112125824417
Standard Deviation:	1.8747205725248	1.2128199324382
Variance:	3.5145772250477	1.4709321885194
Coef. of Variation:	0.0046864397411253	1.1524667235973
Coef. of Skewness:	0.076886159976531	0.87187550104159
Root Mean Square:	400.03526407035	1.6057434771558
Mean Square:	160028.21249984	2.5784121144283

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 103.90918355475
Z 25%-tile: 104.93080774804
Z Median: 105.73621295643
Z 75%-tile: 106.85283070493
Z Maximum: 107.80884425808

Z Midrange: 105.85901390642
Z Range: 3.8996607033355
Z Interquartile Range: 1.9220229568914
Z Median Abs. Deviation: 0.95993215812388

Z Mean: 105.81896337989
Z Trim Mean (10%): 105.81789841925
Z Standard Deviation: 1.0956139642133
Z Variance: 1.2003699585792

Z Coef. of Variation:	0.010353663740592
Z Coef. of Skewness:	0.032250775898322
Z Root Mean Square:	105.82463503718
Z Mean Square:	11198.853380752

Gridding Report Acque_AO1_Profondo_TOC

Fri Feb 25 16:03:02 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.429
25%-tile:	685820.6	4481697.1	1.75
Median:	686295.7	4482087	1.857
75%-tile:	686554.4	4482291.4	2.333
Maximum:	686954.1	4482509.1	3.857
Midrange:	686221.1	4481914.8	2.643
Range:	1466	1188.5999999996	2.428
Interquartile Range:	733.80000000005	594.30000000075	0.583
Median Abs. Deviation:	475.09999999998	389.90000000037	0.268
Mean:	686115.3625	4481925.25	2.09425
Trim Mean (10%):	686080.11666667	4481928.7333333	1.9113333333333
Standard Deviation:	491.34506697814	368.36158526635	0.7161352438611
Variance:	241419.97484375	135690.25749994	0.5128496875
Coef. of Variation:			0.34195308289894
Coef. of Skewness:			1.7042961210161

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.294
Y:		1.000	0.162
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-103.553090625
Y:		135690.25749994	42.746687500078
Z:			0.5128496875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00039867210730117		0.00022021478224061
	-711.35688590288		
Standard Error:	0.0006278174625197	0.000837424490500783852	8.097923335

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.40557116739593	0.20278558369796	0.27424
Residual:	5	3.6972263326041	0.73944526652082	
Total:	7	4.1027975		

Coefficient of Multiple Determination (R^2): 0.09885234828088

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.028
25%-tile:	399.96126062406	0.208
Median:	400.00431247669	0.232
75%-tile:	402.72925148261	2.428
Maximum:	402.72925148261	2.428
Midrange:	400.07895587358	1.228
Range:	5.3005912180544	2.4
Interquartile Range:	2.7679908585473	2.22
Median Abs. Deviation:	2.5756522121415	0.204
Mean:	400.03087121198	0.724
Trim Mean (10%):	400.01484299144	0.556
Standard Deviation:	1.8747205725248	0.98695896571235
Variance:	3.5145772250477	0.974088
Coef. of Variation:	0.0046864397411253	1.3632029913154
Coef. of Skewness:	0.076886159976531	1.1322532244806
Root Mean Square:	400.03526407035	1.2240359471846
Mean Square:	160028.21249984	1.498264

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.3958927209465
Z 25%-tile: 1.7056181554337
Z Median: 1.8405713836221
Z 75%-tile: 2.1237771493841
Z Maximum: 3.8040787902522

Z Midrange: 2.5999857555994
Z Range: 2.4081860693057
Z Interquartile Range: 0.41815899395035
Z Median Abs. Deviation: 0.16325960704771

Z Mean: 1.9334252915661
Z Trim Mean (10%): 1.9061374198656
Z Standard Deviation: 0.3385598233205
Z Variance: 0.11462275396681

Z Coef. of Variation: 0.17510882101178
Z Coef. of Skewness: 1.5448648955617

Z Root Mean Square: 1.9628438837651
Z Mean Square: 3.8527561120342

Gridding Report

Acque_AO1_Profondo_Fosforo_totale

Fri Feb 25 16:03:54 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	112.5
25%-tile:	685820.6	4481697.1	127.1
Median:	686295.7	4482087	140
75%-tile:	686554.4	4482291.4	145.6
Maximum:	686954.1	4482509.1	175.7
Midrange:	686221.1	4481914.8	144.1
Range:	1466	1188.5999999996	63.2
Interquartile Range:	733.80000000005	594.30000000075	18.5
Median Abs. Deviation:	475.09999999998	389.90000000037	12.9
Mean:	686115.3625	4481925.25	137.3875
Trim Mean (10%):	686080.11666667	4481928.7333333	135.15
Standard Deviation:	491.34506697814	368.36158526635	18.194946929024
Variance:	241419.97484375	135690.25749994	331.05609375
Coef. of Variation:			0.13243524286434

Coef. of Skewness:

0.69336933007328

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.076
Y:		1.000	0.449
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	683.39203125019
Y:		135690.25749994	3011.6431250003
Z:			331.05609375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0059336903077821	0.023536795068375	-109423.96469978
Standard Error:	0.014779492444052	0.019713865364859	90699.250361131

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	599.5132147347	299.75660736735	0.73149
Residual:	5	2048.9355352653	409.78710705306	
Total:	7	2648.44875		

Coefficient of Multiple Determination (R^2): 0.22636391009443

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	1.4
25%-tile:	399.96126062406	5.8
Median:	400.00431247669	18.5
75%-tile:	402.72925148261	34.4
Maximum:	402.72925148261	34.4
Midrange:	400.07895587358	17.9
Range:	5.3005912180544	33
Interquartile Range:	2.7679908585473	28.6
Median Abs. Deviation:	2.5756522121415	15.9
Mean:	400.03087121198	15.025
Trim Mean (10%):	400.01484299144	14.066666666667
Standard Deviation:	1.8747205725248	12.827777477022
Variance:	3.5145772250477	164.551875
Coef. of Variation:	0.0046864397411253	0.853762228088
Coef. of Skewness:	0.076886159976531	0.47383496175382
Root Mean Square:	400.03526407035	19.756075015043
Mean Square:	160028.21249984	390.3025

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 113.04399165327
Z 25%-tile: 131.14126765062
Z Median: 139.76637481749
Z 75%-tile: 147.50627322421
Z Maximum: 174.47936509526

Z Midrange: 143.76167837426
Z Range: 61.435373441994
Z Interquartile Range: 16.365005573597
Z Median Abs. Deviation: 8.016826190906

Z Mean: 139.20701570347
Z Trim Mean (10%): 139.13640169405
Z Standard Deviation: 11.250039127981
Z Variance: 126.56338038111

Z Coef. of Variation: 0.080815173510688

Z Coef. of Skewness: -0.023364001029226

Z Root Mean Square: 139.6608628122

Z Mean Square: 19505.156601448

Gridding Report Acque_AO1_Profondo_Zinco

Fri Feb 25 16:04:31 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_ZINCO.dat

X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	20.63
25%-tile:	685820.6	4481697.1	22.57
Median:	686295.7	4482087	26.86
75%-tile:	686554.4	4482291.4	34
Maximum:	686954.1	4482509.1	55.25
Midrange:	686221.1	4481914.8	37.94
Range:	1466	1188.5999999996	34.62
Interquartile Range:	733.80000000005	594.30000000075	11.43
Median Abs. Deviation:	475.09999999998	389.90000000037	4.57
Mean:	686115.3625	4481925.25	29.26625
Trim Mean (10%):	686080.11666667	4481928.7333333	26.375
Standard Deviation:	491.34506697814	368.36158526635	10.68978360106
Variance:	241419.97484375	135690.25749994	114.2714734375
Coef. of Variation:			0.365259765124
Coef. of Skewness:			1.6449295620892

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.271
Y:		1.000	0.349
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	1424.1119843751
Y:		135690.25749994	1375.2378124992
Z:			114.2714734375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0074572906693244	0.011865949059613	-58269.592151609
Standard Error:	0.0086303781601566	0.011511769686354	52963.173967066

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	215.50691795338	107.75345897669	0.77114
Residual:	5	698.66486954662	139.73297390932	
Total:	7	914.1717875		

Coefficient of Multiple Determination (R^2): 0.23574006647342

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.18
25%-tile:	399.96126062406	4.57
Median:	400.00431247669	13.37
75%-tile:	402.72925148261	25.47
Maximum:	402.72925148261	25.47
Midrange:	400.07895587358	12.825
Range:	5.3005912180544	25.29
Interquartile Range:	2.7679908585473	20.9
Median Abs. Deviation:	2.5756522121415	12.1
Mean:	400.03087121198	10.8975
Trim Mean (10%):	400.01484299144	10.255
Standard Deviation:	1.8747205725248	9.6614320237737
Variance:	3.5145772250477	93.34326875
Coef. of Variation:	0.0046864397411253	0.88657325292716
Coef. of Skewness:	0.076886159976531	0.45055602699057
Root Mean Square:	400.03526407035	14.563611330985
Mean Square:	160028.21249984	212.098775

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\P\ACQUE_A01_P_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 20.97492398656
Z 25%-tile: 24.985302408541
Z Median: 28.672618799677
Z 75%-tile: 34.721311016668
Z Maximum: 54.287100047365

Z Midrange: 37.631012016962
Z Range: 33.312176060805
Z Interquartile Range: 9.7360086081274
Z Median Abs. Deviation: 4.7212323022636

Z Mean: 30.121745874881
Z Trim Mean (10%): 29.762812493616
Z Standard Deviation: 6.2085458968898
Z Variance: 38.546042153787

Z Coef. of Variation: 0.20611507456038
Z Coef. of Skewness: 0.70776379222585

Z Root Mean Square: 30.754928331971
Z Mean Square: 945.86561670467

Gridding Report

Acque_AO1_Superficiale_Idrocarburi_Totali

Fri Feb 25 15:46:27 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	10
Median:	686295.7	4482087	10.73
75%-tile:	686554.4	4482291.4	13.27
Maximum:	686954.1	4482509.1	14.04
Midrange:	686221.1	4481914.8	12.02
Range:	1466	1188.5999999996	4.04
Interquartile Range:	733.80000000005	594.30000000075	3.27
Median Abs. Deviation:	475.09999999998	389.90000000037	0.73
Mean:	686115.3625	4481925.25	11.35
Trim Mean (10%):	686080.11666667	4481928.7333333	11.126666666667
Standard Deviation:	491.34506697814	368.36158526635	1.5352931316201
Variance:	241419.97484375	135690.25749994	2.357125
Coef. of Variation:			0.13526811732336

Coef. of Skewness:

0.66011036208605

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.059
Y:		1.000	0.482
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-44.694250000024
Y:		135690.25749994	272.3258749996
Z:			2.357125

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	8.3321871447166E-005		0.0020212249438198
		-9104.7975252975	
Standard Error:	0.0012425860322071	0.0016574435039576	7625.5407319994

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	4.3738779719733	2.1869389859867	0.755
Residual:	5	14.483122028027	2.8966244056054	
Total:	7	18.857		

Coefficient of Multiple Determination (R^2): 0.231949831467

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.36
25%-tile:	399.96126062406	2.4
Median:	400.00431247669	3.27
75%-tile:	402.72925148261	3.31
Maximum:	402.72925148261	3.31
Midrange:	400.07895587358	1.835
Range:	5.3005912180544	2.95
Interquartile Range:	2.7679908585473	0.91
Median Abs. Deviation:	2.5756522121415	0.87
Mean:	400.03087121198	2.335
Trim Mean (10%):	400.01484299144	2.5016666666667
Standard Deviation:	1.8747205725248	1.196839588249
Variance:	3.5145772250477	1.432425
Coef. of Variation:	0.0046864397411253	0.51256513415374
Coef. of Skewness:	0.076886159976531	-0.86900071097612
Root Mean Square:	400.03526407035	2.6238616579385
Mean Square:	160028.21249984	6.88465

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 9.9803164498034
Z 25%-tile: 10.733494362882
Z Median: 11.464554424522
Z 75%-tile: 12.257063479941
Z Maximum: 14.02999852714

Z Midrange: 12.005157488472
Z Range: 4.0496820773365
Z Interquartile Range: 1.5235691170588
Z Median Abs. Deviation: 0.76291091504431

Z Mean: 11.568040810437
Z Trim Mean (10%): 11.520298612463
Z Standard Deviation: 1.0021834188529
Z Variance: 1.0043716050237

Z Coef. of Variation:	0.086633807338293
Z Coef. of Skewness:	0.57255389607251
Z Root Mean Square:	11.611371141987
Z Mean Square:	134.82393979696

Gridding Report

Acque_AO1_Superficiale_Potenziale_Redox

Fri Feb 25 15:55:24 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	104.875
25%-tile:	685820.6	4481697.1	107.170833333333
Median:	686295.7	4482087	108.168055555556
75%-tile:	686554.4	4482291.4	110.17410958904
Maximum:	686954.1	4482509.1	110.625
Midrange:	686221.1	4481914.8	107.75
Range:	1466	1188.59999999996	5.75
Interquartile Range:	733.800000000005	594.300000000075	3.003276255708
Median Abs. Deviation:	475.099999999998	389.900000000037	2.006054033485
Mean:	686115.3625	4481925.25	107.90370814307
Trim Mean (10%):	686080.11666667	4481928.7333333	107.95494419077
Standard Deviation:	491.34506697814	368.36158526635	2.0030717125382
Variance:	241419.97484375	135690.25749994	4.0122962855705
Coef. of Variation:			0.018563511365913

Coef. of Skewness:

-0.15980914194318

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.843
Y:		1.000	-0.367
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	829.59805795758
Y:		135690.25749994	-271.04133652041
Z:			4.0122962855705

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0032650321519021	-0.0012231587851783	3349.8212390512
Standard Error:	0.000910266203252590	0.0012141733178614	5586.1500370608

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	24.326132272297	12.163066136149	7.8247
Residual:	5	7.7722380122577	1.5544476024515	
Total:	7	32.098370284555		

Coefficient of Multiple Determination (R^2): 0.75786191188661

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.244444444444501
25%-tile:	399.96126062406	0.4027777777778
Median:	400.00431247669	0.450890410959
75%-tile:	402.72925148261	1.3555555555555
Maximum:	402.72925148261	1.3555555555555
Midrange:	400.07895587358	0.8
Range:	5.3005912180544	1.1111111111111
Interquartile Range:	2.7679908585473	0.9527777777777
Median Abs. Deviation:	2.5756522121415	0.206445966514
Mean:	400.03087121198	0.61341704718425
Trim Mean (10%):	400.01484299144	0.551222729579
Standard Deviation:	1.8747205725248	0.43522814605607
Variance:	3.5145772250477	0.18942353911941
Coef. of Variation:	0.0046864397411253	0.70951426611615
Coef. of Skewness:	0.076886159976531	1.0458086282691
Root Mean Square:	400.03526407035	0.75213297554066
Mean Square:	160028.21249984	0.56570401289565

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 104.88246886717
Z 25%-tile: 106.63911188665
Z Median: 108.15596586743
Z 75%-tile: 109.46342572964
Z Maximum: 110.60758220848

Z Midrange: 107.74502553782
Z Range: 5.7251133413059
Z Interquartile Range: 2.824313842986
Z Median Abs. Deviation: 1.3680988669539

Z Mean: 107.95621112558
Z Trim Mean (10%): 107.99294070519
Z Standard Deviation: 1.6635269017379
Z Variance: 2.7673217528056

Z Coef. of Variation: 0.015409274597482

Z Coef. of Skewness: -0.36599583085089

Z Root Mean Square: 107.96902723626

Z Mean Square: 11657.310842344

Gridding Report Acque_AO1_Superficiale_TOC

Fri Feb 25 15:57:07 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.786
25%-tile:	685820.6	4481697.1	1.8
Median:	686295.7	4482087	2.313
75%-tile:	686554.4	4482291.4	2.611
Maximum:	686954.1	4482509.1	2.8
Midrange:	686221.1	4481914.8	2.293
Range:	1466	1188.5999999996	1.014
Interquartile Range:	733.80000000005	594.30000000075	0.811
Median Abs. Deviation:	475.09999999998	389.90000000037	0.487
Mean:	686115.3625	4481925.25	2.20275
Trim Mean (10%):	686080.11666667	4481928.7333333	2.1726666666667
Standard Deviation:	491.34506697814	368.36158526635	0.3885285542917
Variance:	241419.97484375	135690.25749994	0.1509544375
Coef. of Variation:			0.17638340905309
Coef. of Skewness:			0.22132554796771

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.257
Y:		1.000	-0.540
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	48.986253125003
Y:		135690.25749994	-77.261087499965
Z:			0.1509544375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.00013132345216614 - 0.00053694137803083 2318.6308314763		
Standard Error:	0.000296441298860250	0.000395413027642	1819.2102120208

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.38333289959254	0.19166644979627	1.1626
Residual:	5	0.82430260040746	0.16486052008149	
Total:	7	1.2076355		

Coefficient of Multiple Determination (R^2): 0.31742433838069

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.014
25%-tile:	399.96126062406	0.487
Median:	400.00431247669	0.569
75%-tile:	402.72925148261	0.818
Maximum:	402.72925148261	0.818
Midrange:	400.07895587358	0.416
Range:	5.3005912180544	0.804
Interquartile Range:	2.7679908585473	0.331
Median Abs. Deviation:	2.5756522121415	0.249
Mean:	400.03087121198	0.472
Trim Mean (10%):	400.01484299144	0.490666666666667
Standard Deviation:	1.8747205725248	0.29116747757949
Variance:	3.5145772250477	0.0847785
Coef. of Variation:	0.0046864397411253	0.61688024910908
Coef. of Skewness:	0.076886159976531	-0.54420386492609
Root Mean Square:	400.03526407035	0.55458317680939
Mean Square:	160028.21249984	0.3075625

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.7564830181767
Z 25%-tile: 1.9622638948927
Z Median: 2.2812518529281
Z 75%-tile: 2.4959811085526
Z Maximum: 2.7815011685006

Z Midrange: 2.2689920933387
Z Range: 1.0250181503239
Z Interquartile Range: 0.53371721365988
Z Median Abs. Deviation: 0.25921618103496

Z Mean: 2.2418717491429
Z Trim Mean (10%): 2.2434137040393
Z Standard Deviation: 0.29293388355657
Z Variance: 0.085810260135533

Z Coef. of Variation: 0.13066487129273
Z Coef. of Skewness: -0.15149159309832

Z Root Mean Square: 2.2609288356205
Z Mean Square: 5.1117991997404

Gridding Report

Acque_AO1_Superficiale_Fosforo_totale

Fri Feb 25 15:58:00 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	107.1
25%-tile:	685820.6	4481697.1	157.5
Median:	686295.7	4482087	200
75%-tile:	686554.4	4482291.4	242.9
Maximum:	686954.1	4482509.1	257.1
Midrange:	686221.1	4481914.8	182.1
Range:	1466	1188.5999999996	150
Interquartile Range:	733.80000000005	594.30000000075	85.4
Median Abs. Deviation:	475.09999999998	389.90000000037	42.9
Mean:	686115.3625	4481925.25	185.875
Trim Mean (10%):	686080.11666667	4481928.7333333	187.13333333333
Standard Deviation:	491.34506697814	368.36158526635	47.500335525131
Variance:	241419.97484375	135690.25749994	2256.281875
Coef. of Variation:			0.25554988850104

Coef. of Skewness:

-0.072241612136549

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.395
Y:		1.000	-0.412
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	9214.5803124998
Y:		135690.25749994	-7205.395000005
Z:			2256.281875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.03204574295515	-0.045402993195428	181691.62009277
Standard Error:	0.037328959088733	0.049791836659571	229081.52082529

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	4979.4897532426	2489.7448766213	0.95241
Residual:	5	13070.765246757	2614.1530493515	
Total:	7	18050.255		

Coefficient of Multiple Determination (R^2): 0.27586811118417

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	21.4
25%-tile:	399.96126062406	50.4
Median:	400.00431247669	57.1
75%-tile:	402.72925148261	104.1
Maximum:	402.72925148261	104.1
Midrange:	400.07895587358	62.75
Range:	5.3005912180544	82.7
Interquartile Range:	2.7679908585473	53.7
Median Abs. Deviation:	2.5756522121415	35.7
Mean:	400.03087121198	58.25
Trim Mean (10%):	400.01484299144	56.75
Standard Deviation:	1.8747205725248	29.677811577001
Variance:	3.5145772250477	880.7725
Coef. of Variation:	0.0046864397411253	0.50949032750217
Coef. of Skewness:	0.076886159976531	0.43863095058176
Root Mean Square:	400.03526407035	65.374574568405
Mean Square:	160028.21249984	4273.835

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 109.14316517493
Z 25%-tile: 148.2716468016
Z Median: 170.57573003748
Z 75%-tile: 192.28215582202
Z Maximum: 256.36259934134

Z Midrange: 182.75288225814
Z Range: 147.21943416641
Z Interquartile Range: 44.010509020423
Z Median Abs. Deviation: 22.07639176774

Z Mean: 173.35364676444
Z Trim Mean (10%): 172.10933487317
Z Standard Deviation: 28.140271665607
Z Variance: 791.87488941414

Z Coef. of Variation: 0.16232869738151

Z Coef. of Skewness: 0.49777875449272

Z Root Mean Square: 175.62278250826

Z Mean Square: 30843.361735944

Gridding Report Acque_AO1_Superficiale_Zinco

Fri Feb 25 15:58:40 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	17.29
25%-tile:	685820.6	4481697.1	20.13
Median:	686295.7	4482087	22.38
75%-tile:	686554.4	4482291.4	33.03
Maximum:	686954.1	4482509.1	35.07
Midrange:	686221.1	4481914.8	26.18
Range:	1466	1188.5999999996	17.78
Interquartile Range:	733.80000000005	594.30000000075	12.9
Median Abs. Deviation:	475.09999999998	389.90000000037	4.81
Mean:	686115.3625	4481925.25	24.36875
Trim Mean (10%):	686080.11666667	4481928.7333333	23.765
Standard Deviation:	491.34506697814	368.36158526635	6.224900476112
Variance:	241419.97484375	135690.25749994	38.7493859375
Coef. of Variation:			0.25544603133571
Coef. of Skewness:			0.65805405483666

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.007
Y:		1.000	-0.194
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	20.048203124958
Y:		135690.25749994	-444.6106875001
Z:			38.7493859375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00036178320970925		-0.0033529457405854
	15300.245948347		
Standard Error:	0.0056376168591605	0.0075198265543194	34597.103038873

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	11.868733067656	5.9343665338279	0.099528
Residual:	5	298.12635443235	59.625270886469	
Total:	7	309.9950875		

Coefficient of Multiple Determination (R^2): 0.038286842425062

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	5.09
25%-tile:	399.96126062406	7.99
Median:	400.00431247669	12.37
75%-tile:	402.72925148261	14.94
Maximum:	402.72925148261	14.94
Midrange:	400.07895587358	10.015
Range:	5.3005912180544	9.85
Interquartile Range:	2.7679908585473	6.95
Median Abs. Deviation:	2.5756522121415	4.38
Mean:	400.03087121198	10.0975
Trim Mean (10%):	400.01484299144	10.125
Standard Deviation:	1.8747205725248	3.8121737565331
Variance:	3.5145772250477	14.53266875
Coef. of Variation:	0.0046864397411253	0.37753639579432
Coef. of Skewness:	0.076886159976531	-0.043466971342755
Root Mean Square:	400.03526407035	10.793154080249
Mean Square:	160028.21249984	116.492175

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A01\S\ACQUE_A01_S_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 17.509176500257
Z 25%-tile: 19.363427344216
Z Median: 20.734740145277
Z 75%-tile: 22.56793711399
Z Maximum: 34.790244648915

Z Midrange: 26.149710574586
Z Range: 17.281068148658
Z Interquartile Range: 3.2045097697749
Z Median Abs. Deviation: 1.5005527708405

Z Mean: 21.73974985834
Z Trim Mean (10%): 21.385652613767
Z Standard Deviation: 3.5035901705394
Z Variance: 12.275144083101

Z Coef. of Variation: 0.16116055581915
Z Coef. of Skewness: 1.5362019732307

Z Root Mean Square: 22.020260397786
Z Mean Square: 484.8918679863

Gridding Report

Acque_AO2_Profondo_Idrocarburi_Totali

Fri Feb 25 16:11:40 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_IDROCARBURI TOT.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	10.21
Median:	686295.7	4482087	13.18
75%-tile:	686554.4	4482291.4	14.6
Maximum:	686954.1	4482509.1	18.58
Midrange:	686221.1	4481914.8	14.29
Range:	1466	1188.5999999996	8.58
Interquartile Range:	733.80000000005	594.30000000075	4.39
Median Abs. Deviation:	475.09999999998	389.90000000037	2.97
Mean:	686115.3625	4481925.25	12.79625
Trim Mean (10%):	686080.11666667	4481928.7333333	12.298333333333
Standard Deviation:	491.34506697814	368.36158526635	2.7911867435734
Variance:	241419.97484375	135690.25749994	7.7907234375
Coef. of Variation:			0.21812536825816

Coef. of Skewness:

0.80103344469874

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.664
Y:		1.000	0.303
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	911.25398437498
Y:		135690.25749994	311.0711874992
Z:			7.7907234375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0041990333285124	0.0032762099015581	-17551.95290311
Standard Error:	0.0015848744065333	0.0021140103957481	9726.1067072001

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	38.764503213784	19.382251606892	4.1132
Residual:	5	23.561284286216	4.7122568572433	
Total:	7	62.3257875		

Coefficient of Multiple Determination (R^2): 0.62196571866475

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0
25%-tile:	399.96126062406	2.95
Median:	400.00431247669	3.94
75%-tile:	402.72925148261	5.4
Maximum:	402.72925148261	5.4
Midrange:	400.07895587358	2.7
Range:	5.3005912180544	5.4
Interquartile Range:	2.7679908585473	2.45
Median Abs. Deviation:	2.5756522121415	1.46
Mean:	400.03087121198	3.0725
Trim Mean (10%):	400.01484299144	3.1966666666667
Standard Deviation:	1.8747205725248	1.976428281016
Variance:	3.5145772250477	3.90626875
Coef. of Variation:	0.0046864397411253	0.64326388316226
Coef. of Skewness:	0.076886159976531	-0.50986337155715
Root Mean Square:	400.03526407035	3.6532896134854
Mean Square:	160028.21249984	13.346525

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_IDROCARBURI TOT.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 9.9819432507416
Z 25%-tile: 11.305354458166
Z Median: 13.668233353836
Z 75%-tile: 15.586268634852
Z Maximum: 18.563165294148

Z Midrange: 14.272554272445
Z Range: 8.5812220434066
Z Interquartile Range: 4.2809141766856
Z Median Abs. Deviation: 2.1881001032751

Z Mean: 13.677708961554
Z Trim Mean (10%): 13.617905749896
Z Standard Deviation: 2.5584005219225
Z Variance: 6.5454132305731

Z Coef. of Variation: 0.18704890776034

Z Coef. of Skewness: 0.26535114798114

Z Root Mean Square: 13.91492492497

Z Mean Square: 193.62513566755

Gridding Report

Acque_AO2_Profondo_Potenziale_Redox

Fri Feb 25 16:12:50 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	147.52258064516
25%-tile:	685820.6	4481697.1	154.13781573499
Median:	686295.7	4482087	156.55746376812
75%-tile:	686554.4	4482291.4	161.7796031746
Maximum:	686954.1	4482509.1	162.90175914994
Midrange:	686221.1	4481914.8	155.21216989755
Range:	1466	1188.59999999996	15.37917850478
Interquartile Range:	733.80000000005	594.30000000075	7.641787439613
Median Abs. Deviation:	475.09999999998	389.90000000037	3.14226363009
Mean:	686115.3625	4481925.25	156.08041431941
Trim Mean (10%):	686080.11666667	4481928.7333333	156.36982912669
Standard Deviation:	491.34506697814	368.36158526635	4.532551882905
Variance:	241419.97484375	135690.25749994	20.544026571226
Coef. of Variation:			0.029039850404481

Coef. of Skewness:

-0.20154016034421

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.433
Y:		1.000	0.403
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	963.24922064558
Y:		135690.25749994	672.21844204133
Z:			20.544026571226

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0047742533222387	0.0060697277368119	-30323.674133656
Standard Error:	0.0031809766447565	0.0042429972166417	19521.116722232

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	69.438225800899	34.71911290045	1.829
Residual:	5	94.913986768923	18.982797353785	
Total:	7	164.35221256982		

Coefficient of Multiple Determination (R^2): 0.42249644659575

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	1.122155975338
25%-tile:	399.96126062406	2.047305037957
Median:	400.00431247669	2.419648033126
75%-tile:	402.72925148261	9.343806123287
Maximum:	402.72925148261	9.343806123287
Midrange:	400.07895587358	5.2329810493125
Range:	5.3005912180544	8.221650147949
Interquartile Range:	2.7679908585473	7.29650108533
Median Abs. Deviation:	2.5756522121415	1.297492057788
Mean:	400.03087121198	3.733228792427
Trim Mean (10%):	400.01484299144	3.2333113734652
Standard Deviation:	1.8747205725248	3.2735345025978
Variance:	3.5145772250477	10.716028139698
Coef. of Variation:	0.0046864397411253	0.87686415288511
Coef. of Skewness:	0.076886159976531	1.081499568604
Root Mean Square:	400.03526407035	4.9651813014536
Mean Square:	160028.21249984	24.653025356304

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 147.60323919642
Z 25%-tile: 154.07921842376
Z Median: 155.47969375837
Z 75%-tile: 159.92786338346
Z Maximum: 162.94007634036

Z Midrange: 155.27165776839
Z Range: 15.336837143942
Z Interquartile Range: 5.8486449596952
Z Median Abs. Deviation: 2.2127126617337

Z Mean: 156.51139217848
Z Trim Mean (10%): 156.58485575579
Z Standard Deviation: 3.721432699537
Z Variance: 13.849061337183

Z Coef. of Variation: 0.023777391841823

Z Coef. of Skewness: 0.083332533137598

Z Root Mean Square: 156.55562890865

Z Mean Square: 24509.664942983

Gridding Report Acque_AO2_Profondo_TOC

Fri Feb 25 16:13:34 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_TOC.dat

X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.083
25%-tile:	685820.6	4481697.1	1.333
Median:	686295.7	4482087	1.692
75%-tile:	686554.4	4482291.4	1.786
Maximum:	686954.1	4482509.1	2.857
Midrange:	686221.1	4481914.8	1.97
Range:	1466	1188.5999999996	1.774
Interquartile Range:	733.80000000005	594.30000000075	0.453
Median Abs. Deviation:	475.09999999998	389.90000000037	0.359
Mean:	686115.3625	4481925.25	1.653375
Trim Mean (10%):	686080.11666667	4481928.7333333	1.5478333333333
Standard Deviation:	491.34506697814	368.36158526635	0.5065103497215
Variance:	241419.97484375	135690.25749994	0.256552734375
Coef. of Variation:			0.30634934586619
Coef. of Skewness:			1.4272199390955

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.164
Y:		1.000	-0.141
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-40.766660937498
Y:		135690.25749994	-26.340231249895
Z:			0.256552734375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00020040322407673		-0.0002408219343935
	1218.4990141767		
Standard Error:	0.000454342887891	0.0006060326195416	2788.2256102244

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.11610369386499	0.058051846932493	0.1499
Residual:	5	1.936318181135	0.387263636227	
Total:	7	2.052421875		

Coefficient of Multiple Determination (R^2): 0.056569117333631

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.359
25%-tile:	399.96126062406	0.381
Median:	400.00431247669	0.703
75%-tile:	402.72925148261	1.428
Maximum:	402.72925148261	1.428
Midrange:	400.07895587358	0.8935
Range:	5.3005912180544	1.069
Interquartile Range:	2.7679908585473	1.047
Median Abs. Deviation:	2.5756522121415	0.344
Mean:	400.03087121198	0.71775
Trim Mean (10%):	400.01484299144	0.659166666666667
Standard Deviation:	1.8747205725248	0.43208064930057
Variance:	3.5145772250477	0.1866936875
Coef. of Variation:	0.0046864397411253	0.60199324179807
Coef. of Skewness:	0.076886159976531	0.84894564057487
Root Mean Square:	400.03526407035	0.83777010569726
Mean Square:	160028.21249984	0.70185875

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.1107993035217
Z 25%-tile: 1.3812109743284
Z Median: 1.4680413718145
Z 75%-tile: 1.6299494261567
Z Maximum: 2.8238883093899

Z Midrange: 1.9673438064558
Z Range: 1.7130890058682
Z Interquartile Range: 0.24873845182828
Z Median Abs. Deviation: 0.10670515227571

Z Mean: 1.5330278553329
Z Trim Mean (10%): 1.5086152758362
Z Standard Deviation: 0.22486641866814
Z Variance: 0.050564906244636

Z Coef. of Variation: 0.14668123471201
Z Coef. of Skewness: 1.9383741116535

Z Root Mean Square: 1.5494319318613
Z Mean Square: 2.4007393114714

Gridding Report

Acque_AO2_Profondo_Fosforo_totale

Fri Feb 25 16:14:11 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	184.6
25%-tile:	685820.6	4481697.1	214.3
Median:	686295.7	4482087	411.4
75%-tile:	686554.4	4482291.4	456.9
Maximum:	686954.1	4482509.1	484.2
Midrange:	686221.1	4481914.8	334.4
Range:	1466	1188.5999999996	299.6
Interquartile Range:	733.80000000005	594.30000000075	242.6
Median Abs. Deviation:	475.09999999998	389.90000000037	72.8
Mean:	686115.3625	4481925.25	341.6125
Trim Mean (10%):	686080.11666667	4481928.7333333	344.01666666667
Standard Deviation:	491.34506697814	368.36158526635	113.8813465575
Variance:	241419.97484375	135690.25749994	12968.96109375
Coef. of Variation:			0.33336410862455

Coef. of Skewness:

-0.25411516035919

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.541
Y:		1.000	0.612
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	30279.701718749
Y:		135690.25749994	25689.991874979
Z:			12968.96109375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.15494151159219	0.22535558875124	-1115993.0420149
Standard Error:	0.046063324439836	0.061442311344743	282682.84663023

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	83848.630617004	41924.315308502	10.532
Residual:	5	19903.058132997	3980.6116265993	
Total:	7	103751.68875		

Coefficient of Multiple Determination (R^2): 0.80816641759967

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	27.3
25%-tile:	399.96126062406	29.7
Median:	400.00431247669	60.7
75%-tile:	402.72925148261	214.2
Maximum:	402.72925148261	214.2
Midrange:	400.07895587358	120.75
Range:	5.3005912180544	186.9
Interquartile Range:	2.7679908585473	184.5
Median Abs. Deviation:	2.5756522121415	33.4
Mean:	400.03087121198	82.975
Trim Mean (10%):	400.01484299144	70.383333333333
Standard Deviation:	1.8747205725248	76.899459523458
Variance:	3.5145772250477	5913.526875
Coef. of Variation:	0.0046864397411253	0.92677866253038
Coef. of Skewness:	0.076886159976531	1.058203573678
Root Mean Square:	400.03526407035	113.1299142579
Mean Square:	160028.21249984	12798.3775

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 154.43063268167
Z 25%-tile: 251.28175054287
Z Median: 366.45781957547
Z 75%-tile: 455.59377254056
Z Maximum: 499.33440777789

Z Midrange: 326.88252022978
Z Range: 344.90377509622
Z Interquartile Range: 204.31202199769
Z Median Abs. Deviation: 97.540033890564

Z Mean: 351.91791924478
Z Trim Mean (10%): 354.35256216436
Z Standard Deviation: 111.02758898431
Z Variance: 12327.12551567

Z Coef. of Variation: 0.31549285476164

Z Coef. of Skewness: -0.29140127434407

Z Root Mean Square: 369.01673051672

Z Mean Square: 136173.34740125

Gridding Report Acque_AO2_Profondo_Zinco

Fri Feb 25 16:14:47 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_ZINCO.dat

X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	16.58
25%-tile:	685820.6	4481697.1	24.38
Median:	686295.7	4482087	29.14
75%-tile:	686554.4	4482291.4	58.67
Maximum:	686954.1	4482509.1	59.29
Midrange:	686221.1	4481914.8	37.935
Range:	1466	1188.5999999996	42.71
Interquartile Range:	733.80000000005	594.30000000075	34.29
Median Abs. Deviation:	475.09999999998	389.90000000037	12.56
Mean:	686115.3625	4481925.25	35.93875
Trim Mean (10%):	686080.11666667	4481928.7333333	35.273333333333
Standard Deviation:	491.34506697814	368.36158526635	16.699944938158
Variance:	241419.97484375	135690.25749994	278.8881609375
Coef. of Variation:			0.46467795730674
Coef. of Skewness:			0.43022169164253

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.188
Y:		1.000	-0.813
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-1543.119421875
Y:		135690.25749994	-5003.2658124995
Z:			278.8881609375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.011608794301431	-0.039511761796538	185089.67380925
Standard Error:	0.007346595182133	0.0097993749689946	45084.814532607

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	1724.8361255259	862.41806276293	8.5174
Residual:	5	506.26916197414	101.25383239483	
Total:	7	2231.1052875		

Coefficient of Multiple Determination (R^2): 0.77308593870017

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.94
25%-tile:	399.96126062406	5.74
Median:	400.00431247669	7.8
75%-tile:	402.72925148261	30.15
Maximum:	402.72925148261	30.15
Midrange:	400.07895587358	16.545
Range:	5.3005912180544	27.21
Interquartile Range:	2.7679908585473	24.41
Median Abs. Deviation:	2.5756522121415	4.86
Mean:	400.03087121198	11.6575
Trim Mean (10%):	400.01484299144	10.028333333333
Standard Deviation:	1.8747205725248	10.815087551657
Variance:	3.5145772250477	116.96611875
Coef. of Variation:	0.0046864397411253	0.92773644020216
Coef. of Skewness:	0.076886159976531	1.0665682009409
Root Mean Square:	400.03526407035	15.901679942698
Mean Square:	160028.21249984	252.863425

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\P\ACQUE_A02_P_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 10.642972695029
Z 25%-tile: 18.629607485971
Z Median: 29.970393130648
Z 75%-tile: 47.506959903805
Z Maximum: 62.534137128456

Z Midrange: 36.588554911742
Z Range: 51.891164433427
Z Interquartile Range: 28.877352417834
Z Median Abs. Deviation: 13.302472745837

Z Mean: 33.166969745928
Z Trim Mean (10%): 32.807222683603
Z Standard Deviation: 16.163556610978
Z Variance: 261.26056231628

Z Coef. of Variation: 0.4873389620697
Z Coef. of Skewness: 0.33883914996769

Z Root Mean Square: 36.895913655086
Z Mean Square: 1361.3084444436

Gridding Report

Acque_AO2_Superficiale_Idrocarburi_Totali

Fri Feb 25 16:06:41 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_IDROCARBURI TOT.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	10.31
Median:	686295.7	4482087	10.97
75%-tile:	686554.4	4482291.4	12.26
Maximum:	686954.1	4482509.1	17.67
Midrange:	686221.1	4481914.8	13.835
Range:	1466	1188.5999999996	7.67
Interquartile Range:	733.80000000005	594.30000000075	1.95
Median Abs. Deviation:	475.09999999998	389.90000000037	0.77
Mean:	686115.3625	4481925.25	11.645
Trim Mean (10%):	686080.11666667	4481928.7333333	10.915
Standard Deviation:	491.34506697814	368.36158526635	2.3756209714515
Variance:	241419.97484375	135690.25749994	5.643575
Coef. of Variation:			0.20400351837282

Coef. of Skewness:

1.9326958248604

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.712
Y:		1.000	0.210
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	831.44868749998
Y:		135690.25749994	184.00524999957
Z:			5.643575

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.00373005216547	0.0022319577054779	-12551.06868953
Standard Error:	0.0013482959823006	0.001798446432966	8274.2648519572

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	28.096426775861	14.048213387931	4.1192
Residual:	5	17.052173224139	3.4104346448277	
Total:	7	45.1486		

Coefficient of Multiple Determination (R^2): 0.62231003344204

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.31
25%-tile:	399.96126062406	0.45
Median:	400.00431247669	2.06
75%-tile:	402.72925148261	6.44
Maximum:	402.72925148261	6.44
Midrange:	400.07895587358	3.375
Range:	5.3005912180544	6.13
Interquartile Range:	2.7679908585473	5.99
Median Abs. Deviation:	2.5756522121415	1.75
Mean:	400.03087121198	2.315
Trim Mean (10%):	400.01484299144	1.9616666666667
Standard Deviation:	1.8747205725248	2.4788555827236
Variance:	3.5145772250477	6.144725
Coef. of Variation:	0.0046864397411253	1.0707799493407
Coef. of Skewness:	0.076886159976531	0.91298333759749
Root Mean Square:	400.03526407035	3.391747337288
Mean Square:	160028.21249984	11.50395

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_IDROCARBURI TOT.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 9.8450692320056
Z 25%-tile: 10.310657461825
Z Median: 11.472823654939
Z 75%-tile: 14.22628760132
Z Maximum: 17.646086702772

Z Midrange: 13.745577967389
Z Range: 7.8010174707664
Z Interquartile Range: 3.9156301394958
Z Median Abs. Deviation: 1.3200695869088

Z Mean: 12.410434152199
Z Trim Mean (10%): 12.276213368611
Z Standard Deviation: 2.3701177495573
Z Variance: 5.6174581467663

Z Coef. of Variation: 0.19097782724525

Z Coef. of Skewness:	0.77121139286775
Z Root Mean Square:	12.634727301879
Z Mean Square:	159.63633399284

Gridding Report

Acque_AO2_Superficiale_Potenziale_Redox

Fri Feb 25 16:07:47 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	148.89717218772
25%-tile:	685820.6	4481697.1	150.1902317248
Median:	686295.7	4482087	150.6485846038
75%-tile:	686554.4	4482291.4	153.95212774745
Maximum:	686954.1	4482509.1	158.33682939931
Midrange:	686221.1	4481914.8	153.61700079351
Range:	1466	1188.5999999996	9.439657211595
Interquartile Range:	733.80000000005	594.30000000075	3.761896022657
Median Abs. Deviation:	475.09999999998	389.90000000037	0.89411600476799
Mean:	686115.3625	4481925.25	151.68773254911
Trim Mean (10%):	686080.11666667	4481928.7333333	151.04464313431
Standard Deviation:	491.34506697814	368.36158526635	2.8678276165672
Variance:	241419.97484375	135690.25749994	8.2244352383457
Coef. of Variation:			0.018906127531696

Coef. of Skewness:

1.4330332878693

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.819
Y:		1.000	0.128
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	1153.7805751264
Y:		135690.25749994	135.03883406773
Z:			8.2244352383457

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0050510275721166	0.0021846449273733	-13105.31513582
Standard Error:	0.0013384488371075	0.001785311658866	8213.8345840983

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	48.991476817493	24.495738408747	7.2887
Residual:	5	16.804005089332	3.3608010178665	
Total:	7	65.795481906825		

Coefficient of Multiple Determination (R^2): 0.74460244681954

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.435763125763
25%-tile:	399.96126062406	0.698852936516
Median:	400.00431247669	1.751412416086
75%-tile:	402.72925148261	4.384701651857
Maximum:	402.72925148261	4.384701651857
Midrange:	400.07895587358	2.41023238881
Range:	5.3005912180544	3.948938526094
Interquartile Range:	2.7679908585473	3.685848715341
Median Abs. Deviation:	2.5756522121415	1.315649290323
Mean:	400.03087121198	1.8176825325555
Trim Mean (10%):	400.01484299144	1.620165913804
Standard Deviation:	1.8747205725248	1.5616865721905
Variance:	3.5145772250477	2.43886494976
Coef. of Variation:	0.0046864397411253	0.8591635471101
Coef. of Skewness:	0.076886159976531	0.845142678244
Root Mean Square:	400.03526407035	2.3964212357007
Mean Square:	160028.21249984	5.7428347389174

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 148.92775337129
Z 25%-tile: 150.26521792298
Z Median: 151.65744779253
Z 75%-tile: 155.35256392037
Z Maximum: 158.31758629102

Z Midrange: 153.62266983115
Z Range: 9.3898329197281
Z Interquartile Range: 5.0873459973867
Z Median Abs. Deviation: 1.8479523536803

Z Mean: 152.75143934567
Z Trim Mean (10%): 152.63762648882
Z Standard Deviation: 2.8823845582799
Z Variance: 8.3081407418105

Z Coef. of Variation: 0.018869770200706

Z Coef. of Skewness: 0.54721526817134

Z Root Mean Square: 152.7786318924

Z Mean Square: 23341.310362915

Gridding Report Acque_AO2_Superficiale_TOC

Fri Feb 25 16:08:30 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.423
25%-tile:	685820.6	4481697.1	1.831
Median:	686295.7	4482087	1.947
75%-tile:	686554.4	4482291.4	2.807
Maximum:	686954.1	4482509.1	3.043
Midrange:	686221.1	4481914.8	2.233
Range:	1466	1188.5999999996	1.62
Interquartile Range:	733.80000000005	594.30000000075	0.976
Median Abs. Deviation:	475.09999999998	389.90000000037	0.262
Mean:	686115.3625	4481925.25	2.076125
Trim Mean (10%):	686080.11666667	4481928.7333333	2.0238333333333
Standard Deviation:	491.34506697814	368.36158526635	0.52056926472373
Variance:	241419.97484375	135690.25749994	0.270992359375
Coef. of Variation:			0.25074081027093
Coef. of Skewness:			0.82584748384228

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.665
Y:		1.000	-0.309
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-170.1480328125
Y:		135690.25749994	-59.334256249878
Z:			0.270992359375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00078529738538513		-0.00062122795789707
Standard Error:	0.000292793665931880	0.00039054757338351	1796.8253044573

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	1.36379712709	0.68189856354502	4.2399
Residual:	5	0.80414174790995	0.16082834958199	
Total:	7	2.167938875		

Coefficient of Multiple Determination (R^2): 0.62907545171911

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.148
25%-tile:	399.96126062406	0.236
Median:	400.00431247669	0.262
75%-tile:	402.72925148261	0.471
Maximum:	402.72925148261	0.471
Midrange:	400.07895587358	0.3095
Range:	5.3005912180544	0.323
Interquartile Range:	2.7679908585473	0.235
Median Abs. Deviation:	2.5756522121415	0.114
Mean:	400.03087121198	0.27925
Trim Mean (10%):	400.01484299144	0.26916666666667
Standard Deviation:	1.8747205725248	0.11849340698959
Variance:	3.5145772250477	0.0140406875
Coef. of Variation:	0.0046864397411253	0.42432733031186
Coef. of Skewness:	0.076886159976531	0.70673396363754
Root Mean Square:	400.03526407035	0.30335004532718
Mean Square:	160028.21249984	0.09202125

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.3239410017878
Z 25%-tile: 1.5283508184683
Z Median: 1.788033674908
Z 75%-tile: 2.2909455811921
Z Maximum: 3.040800141037

Z Midrange: 2.1823705714124
Z Range: 1.7168591392493
Z Interquartile Range: 0.76259476272386
Z Median Abs. Deviation: 0.31355216751779

Z Mean: 1.9378343020344
Z Trim Mean (10%): 1.9164489451694
Z Standard Deviation: 0.49263243276373
Z Variance: 0.24268671381071

Z Coef. of Variation: 0.25421803724216
Z Coef. of Skewness: 0.69694770295603

Z Root Mean Square: 1.9994720543063
Z Mean Square: 3.997888495952

Gridding Report

Acque_AO2_Superficiale_Fosforo_totale

Fri Feb 25 16:09:08 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	51.43
25%-tile:	685820.6	4481697.1	225.7
Median:	686295.7	4482087	280.8
75%-tile:	686554.4	4482291.4	373.1
Maximum:	686954.1	4482509.1	994.4
Midrange:	686221.1	4481914.8	522.915
Range:	1466	1188.5999999996	942.97
Interquartile Range:	733.80000000005	594.30000000075	147.4
Median Abs. Deviation:	475.09999999998	389.90000000037	86.2
Mean:	686115.3625	4481925.25	336.42875
Trim Mean (10%):	686080.11666667	4481928.7333333	274.26666666667
Standard Deviation:	491.34506697814	368.36158526635	263.76193202571
Variance:	241419.97484375	135690.25749994	69570.356785938
Coef. of Variation:			0.78400532661288

Coef. of Skewness:

1.7509605496187

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.328
Y:		1.000	0.272
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	42508.877703128
Y:		135690.25749994	26411.071812485
Z:			69570.356785938

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.20783150957968	0.24312046696715	-1231907.7222411
Standard Error:	0.21522778917563	0.28708507241682	1320816.6118701

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	122046.6828931	61023.341446551	0.7022
Residual:	5	434516.1713944	86903.23427888	
Total:	7	556562.8542875		

Coefficient of Multiple Determination (R^2): 0.21928643270551

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	19.9
25%-tile:	399.96126062406	147.4
Median:	400.00431247669	219.27
75%-tile:	402.72925148261	799.8
Maximum:	402.72925148261	799.8
Midrange:	400.07895587358	409.85
Range:	5.3005912180544	779.9
Interquartile Range:	2.7679908585473	652.4
Median Abs. Deviation:	2.5756522121415	199.37
Mean:	400.03087121198	296.5925
Trim Mean (10%):	400.01484299144	258.84
Standard Deviation:	1.8747205725248	299.17122968085
Variance:	3.5145772250477	89503.42466875
Coef. of Variation:	0.0046864397411253	1.008694520869
Coef. of Skewness:	0.076886159976531	0.95656119448293
Root Mean Square:	400.03526407035	421.27251954643
Mean Square:	160028.21249984	177470.535725

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 51.242572101096
Z 25%-tile: 190.41499333867
Z Median: 277.78411070929
Z 75%-tile: 405.38629225043
Z Maximum: 969.91010422505

Z Midrange: 510.57633816307
Z Range: 918.66753212395
Z Interquartile Range: 214.97129891176
Z Median Abs. Deviation: 99.488860106625

Z Mean: 307.53067209253
Z Trim Mean (10%): 298.24978828014
Z Standard Deviation: 167.20907082681
Z Variance: 27958.873366765

Z Coef. of Variation: 0.54371510226628

Z Coef. of Skewness: 0.78857080826622

Z Root Mean Square: 350.04855041044

Z Mean Square: 122533.98764445

Gridding Report Acque_AO2_Superficiale_Zinco

Fri Feb 25 16:09:45 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	17.92
Median:	686295.7	4482087	21.55
75%-tile:	686554.4	4482291.4	23.05
Maximum:	686954.1	4482509.1	25.56
Midrange:	686221.1	4481914.8	17.78
Range:	1466	1188.5999999996	15.56
Interquartile Range:	733.80000000005	594.30000000075	5.13
Median Abs. Deviation:	475.09999999998	389.90000000037	3.63
Mean:	686115.3625	4481925.25	18.97625
Trim Mean (10%):	686080.11666667	4481928.7333333	19.375
Standard Deviation:	491.34506697814	368.36158526635	4.8361062268627
Variance:	241419.97484375	135690.25749994	23.3879234375
Coef. of Variation:			0.25485046976419
Coef. of Skewness:			-0.57191556083112

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.489
Y:		1.000	0.278
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	1162.822234375
Y:		135690.25749994	495.3666874999
Z:			23.3879234375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0054569218559165	0.0049274445885286	-25809.539975169
Standard Error:	0.0035288840030543	0.0047070590812077	21656.165453586

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	70.292312417342	35.146156208671	1.5044
Residual:	5	116.81107508266	23.362215016532	
Total:	7	187.1033875		

Coefficient of Multiple Determination (R^2): 0.37568701110418

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	3.67
25%-tile:	399.96126062406	6.74
Median:	400.00431247669	8.23
75%-tile:	402.72925148261	13.05
Maximum:	402.72925148261	13.05
Midrange:	400.07895587358	8.36
Range:	5.3005912180544	9.38
Interquartile Range:	2.7679908585473	6.31
Median Abs. Deviation:	2.5756522121415	4.56
Mean:	400.03087121198	7.9225
Trim Mean (10%):	400.01484299144	7.7766666666667
Standard Deviation:	1.8747205725248	3.3862912972749
Variance:	3.5145772250477	11.46696875
Coef. of Variation:	0.0046864397411253	0.42742711230987
Coef. of Skewness:	0.076886159976531	0.3623622343963
Root Mean Square:	400.03526407035	8.6158560224739
Mean Square:	160028.21249984	74.232975

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A02\S\ACQUE_A02_S_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 10.050475124248
Z 25%-tile: 16.765496360888
Z Median: 20.63824204519
Z 75%-tile: 23.231217970042
Z Maximum: 26.198713711597

Z Midrange: 18.124594417922
Z Range: 16.148238587349
Z Interquartile Range: 6.4657216091533
Z Median Abs. Deviation: 3.2014838434557

Z Mean: 19.736110262572
Z Trim Mean (10%): 19.896418532325
Z Standard Deviation: 4.3437773358631
Z Variance: 18.868401543558

Z Coef. of Variation: 0.2200928794009
Z Coef. of Skewness: -0.51186198837339

Z Root Mean Square: 20.208474703449
Z Mean Square: 408.38244983994

Gridding Report

Acque_AO3_Profondo_Idrocarburi_Totali

Fri Feb 25 17:00:04 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	10
Median:	686295.7	4482087	10.53
75%-tile:	686554.4	4482291.4	15.83
Maximum:	686954.1	4482509.1	33
Midrange:	686221.1	4481914.8	21.5
Range:	1466	1188.5999999996	23
Interquartile Range:	733.80000000005	594.30000000075	5.83
Median Abs. Deviation:	475.09999999998	389.90000000037	0.53
Mean:	686115.3625	4481925.25	14.07
Trim Mean (10%):	686080.11666667	4481928.7333333	11.593333333333
Standard Deviation:	491.34506697814	368.36158526635	7.4245420734211
Variance:	241419.97484375	135690.25749994	55.123825
Coef. of Variation:			0.52768600379681

Coef. of Skewness:

1.9773734680694

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.636
Y:		1.000	0.079
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	2321.91725
Y:		135690.25749994	216.92237499923
Z:			55.123825

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.010118782277332	0.003980375119319	-24768.325713757
Standard Error:	0.0051223700775772	0.0068325562897782	31435.120513594

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	194.86819014191	97.434095070955	1.9794
Residual:	5	246.12240985809	49.224481971618	
Total:	7	440.9906		

Coefficient of Multiple Determination (R^2): 0.44188740109633

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.53
25%-tile:	399.96126062406	3.2
Median:	400.00431247669	5.83
75%-tile:	402.72925148261	23
Maximum:	402.72925148261	23
Midrange:	400.07895587358	11.765
Range:	5.3005912180544	22.47
Interquartile Range:	2.7679908585473	19.8
Median Abs. Deviation:	2.5756522121415	5.3
Mean:	400.03087121198	8.14
Trim Mean (10%):	400.01484299144	6.9316666666667
Standard Deviation:	1.8747205725248	8.7816769469162
Variance:	3.5145772250477	77.11785
Coef. of Variation:	0.0046864397411253	1.0788300917588
Coef. of Skewness:	0.076886159976531	0.99959091006504
Root Mean Square:	400.03526407035	11.974032319983
Mean Square:	160028.21249984	143.37745

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 9.1528855715442
Z 25%-tile: 10.741279814029
Z Median: 12.834928786415
Z 75%-tile: 22.541314848228
Z Maximum: 32.952483473876

Z Midrange: 21.05268452271
Z Range: 23.799597902332
Z Interquartile Range: 11.800035034199
Z Median Abs. Deviation: 2.8912593114317

Z Mean: 16.598820592242
Z Trim Mean (10%): 16.139535805205
Z Standard Deviation: 7.3433994823095
Z Variance: 53.925515956784

Z Coef. of Variation: 0.44240489506475

Z Coef. of Skewness:	0.86815339156843
Z Root Mean Square:	18.150657316203
Z Mean Square:	329.44636101023

Gridding Report

Acque_AO3_Profondo_Potenziale_Redox

Fri Feb 25 17:00:54 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	178.10265873016
25%-tile:	685820.6	4481697.1	184.69436781609
Median:	686295.7	4482087	198.12869259259
75%-tile:	686554.4	4482291.4	205.29266137566
Maximum:	686954.1	4482509.1	210.10395238095
Midrange:	686221.1	4481914.8	194.10330555556
Range:	1466	1188.59999999996	32.001293650793
Interquartile Range:	733.80000000005	594.30000000075	20.598293559569
Median Abs. Deviation:	475.09999999998	389.90000000037	13.360406878307
Mean:	686115.3625	4481925.25	192.63585973363
Trim Mean (10%):	686080.11666667	4481928.7333333	192.14671112632
Standard Deviation:	491.34506697814	368.36158526635	11.386204925435
Variance:	241419.97484375	135690.25749994	129.64566260399
Coef. of Variation:			0.059107400570067

Coef. of Skewness:

0.16201534907076

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.941
Y:		1.000	-0.262
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	5266.0563566699
Y:		135690.25749994	-1098.2951501058
Z:			129.64566260399

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.021361254843874	-0.0030378748440519	-848.1212664589
Standard Error:	0.003432765296145	0.0045788495872601	21066.301174054

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	926.63089603907	463.31544801954	20.958
Residual:	5	110.53440479282	22.106880958565	
Total:	7	1037.1653008319		

Coefficient of Multiple Determination (R^2): 0.89342643385373

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.073917898193997
25%-tile:	399.96126062406	1.656418518518
Median:	400.00431247669	2.108489417989
75%-tile:	402.72925148261	4.811291005291
Maximum:	402.72925148261	4.811291005291
Midrange:	400.07895587358	2.4426044517425
Range:	5.3005912180544	4.737373107097
Interquartile Range:	2.7679908585473	3.154872486773
Median Abs. Deviation:	2.5756522121415	2.034571519795
Mean:	400.03087121198	2.162529209998
Trim Mean (10%):	400.01484299144	2.0691707960832
Standard Deviation:	1.8747205725248	1.7056746899065
Variance:	3.5145772250477	2.9093261477875
Coef. of Variation:	0.0046864397411253	0.78874064776589
Coef. of Skewness:	0.076886159976531	0.47067340203905
Root Mean Square:	400.03526407035	2.7542437676942
Mean Square:	160028.21249984	7.5858587318821

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 178.17935261759
Z 25%-tile: 183.85287769086
Z Median: 194.69384574494
Z 75%-tile: 204.96921976071
Z Maximum: 210.09614912036

Z Midrange: 194.13775086897
Z Range: 31.916796502767
Z Interquartile Range: 21.116342069849
Z Median Abs. Deviation: 10.528454468774

Z Mean: 194.40944078335
Z Trim Mean (10%): 194.40364829867
Z Standard Deviation: 10.629431464229
Z Variance: 112.98481325273

Z Coef. of Variation: 0.054675490148001

Z Coef. of Skewness: -0.020394642391399

Z Root Mean Square: 194.69980862587

Z Mean Square: 37908.015478949

Gridding Report Acque_AO3_Profondo_TOC

Fri Feb 25 17:01:42 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1
25%-tile:	685820.6	4481697.1	1
Median:	686295.7	4482087	2.667
75%-tile:	686554.4	4482291.4	3
Maximum:	686954.1	4482509.1	5.333
Midrange:	686221.1	4481914.8	3.1665
Range:	1466	1188.5999999996	4.333
Interquartile Range:	733.80000000005	594.30000000075	2
Median Abs. Deviation:	475.09999999998	389.90000000037	1.667
Mean:	686115.3625	4481925.25	2.345875
Trim Mean (10%):	686080.11666667	4481928.7333333	2.0723333333333
Standard Deviation:	491.34506697814	368.36158526635	1.3987061376054
Variance:	241419.97484375	135690.25749994	1.956378859375
Coef. of Variation:			0.59624069381591
Coef. of Skewness:			0.90169151272133

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.194
Y:		1.000	0.671
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-133.4079421875
Y:		135690.25749994	345.63770624982
Z:			1.956378859375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00022124807516416	-10998.014854706	0.0024882526629023
Standard Error:	0.000953861239777260	0.0012723232633942	5853.685417401

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	7.1164999169333	3.5582499584666	2.0846
Residual:	5	8.5345309580668	1.7069061916134	
Total:	7	15.651030875		

Coefficient of Multiple Determination (R^2): 0.45469847793226

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0
25%-tile:	399.96126062406	0
Median:	400.00431247669	0.9
75%-tile:	402.72925148261	4.333
Maximum:	402.72925148261	4.333
Midrange:	400.07895587358	2.1665
Range:	5.3005912180544	4.333
Interquartile Range:	2.7679908585473	4.333
Median Abs. Deviation:	2.5756522121415	0.9
Mean:	400.03087121198	1.30825
Trim Mean (10%):	400.01484299144	1.0221666666667
Standard Deviation:	1.8747205725248	1.7845739512556
Variance:	3.5145772250477	3.1847041875
Coef. of Variation:	0.0046864397411253	1.3640924527083
Coef. of Skewness:	0.076886159976531	1.017339646454
Root Mean Square:	400.03526407035	2.212740890841
Mean Square:	160028.21249984	4.89622225

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.99706009895247
Z 25%-tile: 1.7541014070222
Z Median: 2.5155606007197
Z 75%-tile: 3.3504001279076
Z Maximum: 5.3239873835399

Z Midrange: 3.1605237412462
Z Range: 4.3269272845874
Z Interquartile Range: 1.5962987208854
Z Median Abs. Deviation: 0.79660924517644

Z Mean: 2.6512438037987
Z Trim Mean (10%): 2.5963572674363
Z Standard Deviation: 1.1064997111013
Z Variance: 1.2243416106673

Z Coef. of Variation: 0.41735117287815
Z Coef. of Skewness: 0.61235174030536

Z Root Mean Square: 2.8728792731071
Z Mean Square: 8.2534353178483

Gridding Report

Acque_AO3_Profondo_Fosforo_totale

Fri Feb 25 17:02:31 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	23.33
25%-tile:	685820.6	4481697.1	43.33
Median:	686295.7	4482087	85
75%-tile:	686554.4	4482291.4	180
Maximum:	686954.1	4482509.1	596.7
Midrange:	686221.1	4481914.8	310.015
Range:	1466	1188.5999999996	573.37
Interquartile Range:	733.80000000005	594.30000000075	136.67
Median Abs. Deviation:	475.09999999998	389.90000000037	58.3
Mean:	686115.3625	4481925.25	148.54125
Trim Mean (10%):	686080.11666667	4481928.7333333	94.716666666667
Standard Deviation:	491.34506697814	368.36158526635	176.7276234377
Variance:	241419.97484375	135690.25749994	31232.652885938
Coef. of Variation:			1.1897545189481

Coef. of Skewness:

1.9234767577225

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.674
Y:		1.000	0.017
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	58555.982671874
Y:		135690.25749994	1082.4501874743
Z:			31232.652885938

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.25079023167589	0.067083835957133	-472587.22747708
Standard Error:	0.11853581278539	0.15811091368741	727434.27430141

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	118063.34481877	59031.672409385	2.2395
Residual:	5	131797.87826873	26359.575653746	
Total:	7	249861.2230875		

Coefficient of Multiple Determination (R^2): 0.47251567634176

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	56.67
25%-tile:	399.96126062406	95
Median:	400.00431247669	99.97
75%-tile:	402.72925148261	560.03
Maximum:	402.72925148261	560.03
Midrange:	400.07895587358	308.35
Range:	5.3005912180544	503.36
Interquartile Range:	2.7679908585473	465.03
Median Abs. Deviation:	2.5756522121415	43.3
Mean:	400.03087121198	202.9175
Trim Mean (10%):	400.01484299144	167.773333333333
Standard Deviation:	1.8747205725248	206.85867366091
Variance:	3.5145772250477	42790.51086875
Coef. of Variation:	0.0046864397411253	1.0194225419735
Coef. of Skewness:	0.076886159976531	1.131617424325
Root Mean Square:	400.03526407035	289.76891254067
Mean Square:	160028.21249984	83966.022675

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 25.552915181449
Z 25%-tile: 69.268266177567
Z Median: 121.81243449827
Z 75%-tile: 365.12387016265
Z Maximum: 596.14553874471

Z Midrange: 310.84922696308
Z Range: 570.59262356326
Z Interquartile Range: 295.85560398508
Z Median Abs. Deviation: 71.57742124094

Z Mean: 214.44761359216
Z Trim Mean (10%): 203.76226575402
Z Standard Deviation: 177.50107681531
Z Variance: 31506.632270594

Z Coef. of Variation: 0.82771299639118

Z Coef. of Skewness:	0.81744803141471
Z Root Mean Square:	278.37818026197
Z Mean Square:	77494.411245968

Gridding Report Acque_AO3_Profondo_Zinco

Fri Feb 25 17:03:15 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_ZINCO.dat

X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	21.67
Median:	686295.7	4482087	24.33
75%-tile:	686554.4	4482291.4	31.33
Maximum:	686954.1	4482509.1	53.33
Midrange:	686221.1	4481914.8	31.665
Range:	1466	1188.5999999996	43.33
Interquartile Range:	733.80000000005	594.30000000075	9.66
Median Abs. Deviation:	475.09999999998	389.90000000037	7
Mean:	686115.3625	4481925.25	25.94125
Trim Mean (10%):	686080.11666667	4481928.7333333	24.033333333333
Standard Deviation:	491.34506697814	368.36158526635	12.015120096674
Variance:	241419.97484375	135690.25749994	144.3631109375
Coef. of Variation:			0.46316658205268
Coef. of Skewness:			1.1382883671169

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.699
Y:		1.000	0.129
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	4126.8981718751
Y:		135690.25749994	568.86493749809
Z:			144.3631109375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.018171541897933	0.0084651207324808	-50381.871136573
Standard Error:	0.007420015127476	0.0098973073521982	45535.380343941

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	638.46611956269	319.23305978135	3.0907
Residual:	5	516.43876793731	103.28775358746	
Total:	7	1154.9048875		

Coefficient of Multiple Determination (R^2): 0.55283004381838

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.66
25%-tile:	399.96126062406	11.87
Median:	400.00431247669	14.33
75%-tile:	402.72925148261	25.33
Maximum:	402.72925148261	25.33
Midrange:	400.07895587358	13.995
Range:	5.3005912180544	22.67
Interquartile Range:	2.7679908585473	13.46
Median Abs. Deviation:	2.5756522121415	11
Mean:	400.03087121198	13.5475
Trim Mean (10%):	400.01484299144	13.398333333333
Standard Deviation:	1.8747205725248	8.0745166263994
Variance:	3.5145772250477	65.19781875
Coef. of Variation:	0.0046864397411253	0.59601525199479
Coef. of Skewness:	0.076886159976531	0.16189502757092
Root Mean Square:	400.03526407035	15.771257876276
Mean Square:	160028.21249984	248.732575

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\P\ACQUE_A03_P_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 10.281586865819
Z 25%-tile: 22.554321721009
Z Median: 27.637314209678
Z 75%-tile: 42.62347658395
Z Maximum: 54.250079398611

Z Midrange: 32.265833132215
Z Range: 43.968492532792
Z Interquartile Range: 20.06915486294
Z Median Abs. Deviation: 7.2550558937474

Z Mean: 31.839662633868
Z Trim Mean (10%): 31.612978097454
Z Standard Deviation: 11.768478777385
Z Variance: 138.49709273377

Z Coef. of Variation: 0.36961694326708
Z Coef. of Skewness: 0.45664295539286

Z Root Mean Square: 33.94497325632
Z Mean Square: 1152.2612093723

Gridding Report

Acque_AO3_Superficiale_Idrocarburi_Totali

Fri Feb 25 16:55:24 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10
25%-tile:	685820.6	4481697.1	10
Median:	686295.7	4482087	10
75%-tile:	686554.4	4482291.4	10
Maximum:	686954.1	4482509.1	14.17
Midrange:	686221.1	4481914.8	12.085
Range:	1466	1188.5999999996	4.17
Interquartile Range:	733.80000000005	594.30000000075	0
Median Abs. Deviation:	475.09999999998	389.90000000037	0
Mean:	686115.3625	4481925.25	10.52125
Trim Mean (10%):	686080.11666667	4481928.7333333	10
Standard Deviation:	491.34506697814	368.36158526635	1.3790978708924
Variance:	241419.97484375	135690.25749994	1.9019109375
Coef. of Variation:			0.13107737872329

Coef. of Skewness:

2.2677868380554

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.645
Y:		1.000	0.182
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	437.19192187499
Y:		135690.25749994	92.443687499806
Z:			1.9019109375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0019569383132297	0.0011409107508421	-6445.6408907373
Standard Error:	0.000895786044832630	0.0011948587240326	5497.2877490782

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	7.6883581467084	3.8441790733542	2.5536
Residual:	5	7.5269293532915	1.5053858706583	
Total:	7	15.2152875		

Coefficient of Multiple Determination (R^2): 0.50530482231824

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0
25%-tile:	399.96126062406	0
Median:	400.00431247669	0
75%-tile:	402.72925148261	4.17
Maximum:	402.72925148261	4.17
Midrange:	400.07895587358	2.085
Range:	5.3005912180544	4.17
Interquartile Range:	2.7679908585473	4.17
Median Abs. Deviation:	2.5756522121415	0
Mean:	400.03087121198	1.0425
Trim Mean (10%):	400.01484299144	0.695
Standard Deviation:	1.8747205725248	1.8056629668906
Variance:	3.5145772250477	3.26041875
Coef. of Variation:	0.0046864397411253	1.7320508075689
Coef. of Skewness:	0.076886159976531	1.1547005383793
Root Mean Square:	400.03526407035	2.085
Mean Square:	160028.21249984	4.347225

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 9.8397763800898
Z 25%-tile: 9.9409567986857
Z Median: 10.299886173805
Z 75%-tile: 12.140119157331
Z Maximum: 14.15855862274

Z Midrange: 11.999167501415
Z Range: 4.3187822426502
Z Interquartile Range: 2.1991623586452
Z Median Abs. Deviation: 0.40524341564204

Z Mean: 11.059914952724
Z Trim Mean (10%): 10.964141717269
Z Standard Deviation: 1.3779246821492
Z Variance: 1.8986764296759

Z Coef. of Variation: 0.12458727648803

Z Coef. of Skewness:	0.90429551682838
Z Root Mean Square:	11.145420368526
Z Mean Square:	124.22039519117

Gridding Report

Acque_AO3_Superficiale_Potenziale_Redox

Fri Feb 25 16:56:35 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	165.74965079365
25%-tile:	685820.6	4481697.1	170.00723448773
Median:	686295.7	4482087	178.01757316017
75%-tile:	686554.4	4482291.4	186.58124973545
Maximum:	686954.1	4482509.1	190.50161450751
Midrange:	686221.1	4481914.8	178.12563265058
Range:	1466	1188.59999999996	24.751963713855
Interquartile Range:	733.80000000005	594.30000000075	16.574015247716
Median Abs. Deviation:	475.09999999998	389.90000000037	8.563676575277
Mean:	686115.3625	4481925.25	176.30662201546
Trim Mean (10%):	686080.11666667	4481928.7333333	175.70028513709
Standard Deviation:	491.34506697814	368.36158526635	8.3435234091581
Variance:	241419.97484375	135690.25749994	69.614382879169
Coef. of Variation:			0.04732393663822

Coef. of Skewness:

0.39739425874443

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.909
Y:		1.000	-0.186
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	3725.5994835288
Y:		135690.25749994	-571.55374951052
Z:			69.614382879169

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.015309365308127	-0.00059112342972658	
Standard Error:	-7678.3130583175	0.0043089691283283	19824.639284861

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	459.02660502397	229.51330251199	11.723
Residual:	5	97.888458009402	19.57769160188	
Total:	7	556.91506303338		

Coefficient of Multiple Determination (R^2): 0.82423090250742

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	1.133323665224
25%-tile:	399.96126062406	1.858912698413
Median:	400.00431247669	2.828958633959
75%-tile:	402.72925148261	3.920364772056
Maximum:	402.72925148261	3.920364772056
Midrange:	400.07895587358	2.52684421864
Range:	5.3005912180544	2.787041106832
Interquartile Range:	2.7679908585473	2.061452073643
Median Abs. Deviation:	2.5756522121415	1.091406138097
Mean:	400.03087121198	2.435389942413
Trim Mean (10%):	400.01484299144	2.4049051836707
Standard Deviation:	1.8747205725248	1.0473477410441
Variance:	3.5145772250477	1.0969372906703
Coef. of Variation:	0.0046864397411253	0.43005340656306
Coef. of Skewness:	0.076886159976531	0.20378284149038
Root Mean Square:	400.03526407035	2.6510491248328
Mean Square:	160028.21249984	7.0280614622767

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 165.82748179049
Z 25%-tile: 171.01483699744
Z Median: 177.09315663423
Z 75%-tile: 185.58141192598
Z Maximum: 190.47062898081

Z Midrange: 178.14905538565
Z Range: 24.643147190325
Z Interquartile Range: 14.566574928541
Z Median Abs. Deviation: 7.2929453401528

Z Mean: 178.01205438318
Z Trim Mean (10%): 177.96256884559
Z Standard Deviation: 7.6274736944714
Z Variance: 58.178354959854

Z Coef. of Variation:	0.042848074086337
Z Coef. of Skewness:	0.10526906629593
Z Root Mean Square:	178.17539072689
Z Mean Square:	31746.469860679

Gridding Report Acque_AO3_Superficiale_TOC

Fri Feb 25 16:57:36 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.267
25%-tile:	685820.6	4481697.1	1.633
Median:	686295.7	4482087	1.733
75%-tile:	686554.4	4482291.4	3.15
Maximum:	686954.1	4482509.1	5.367
Midrange:	686221.1	4481914.8	3.317
Range:	1466	1188.5999999996	4.1
Interquartile Range:	733.80000000005	594.30000000075	1.517
Median Abs. Deviation:	475.09999999998	389.90000000037	0.466
Mean:	686115.3625	4481925.25	2.408375
Trim Mean (10%):	686080.11666667	4481928.7333333	2.1055
Standard Deviation:	491.34506697814	368.36158526635	1.2915535158773
Variance:	241419.97484375	135690.25749994	1.668110484375
Coef. of Variation:			0.53627591877398
Coef. of Skewness:			1.3352673155926

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.154
Y:		1.000	-0.631
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	97.509514062493
Y:		135690.25749994	-300.24775625011
Z:			1.668110484375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.00011400754618682	-0.0021799884237501	9694.7312119522
Standard Error:	0.0009246359765639	0.0012333406727253	5674.3349102646

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	5.3253185444344	2.6626592722172	1.6601
Residual:	5	8.0195653305656	1.6039130661131	
Total:	7	13.344883875		

Coefficient of Multiple Determination (R^2): 0.39905319479105

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.033
25%-tile:	399.96126062406	0.366
Median:	400.00431247669	1.483
75%-tile:	402.72925148261	2.217
Maximum:	402.72925148261	2.217
Midrange:	400.07895587358	1.125
Range:	5.3005912180544	2.184
Interquartile Range:	2.7679908585473	1.851
Median Abs. Deviation:	2.5756522121415	1.117
Mean:	400.03087121198	1.02475
Trim Mean (10%):	400.01484299144	0.991333333333333
Standard Deviation:	1.8747205725248	0.87306539703507
Variance:	3.5145772250477	0.7622431875
Coef. of Variation:	0.0046864397411253	0.85197891879489
Coef. of Skewness:	0.076886159976531	0.19896893044756
Root Mean Square:	400.03526407035	1.3462376276126
Mean Square:	160028.21249984	1.81235575

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.0705167824358
Z 25%-tile: 1.3652173113299
Z Median: 1.936931844799
Z 75%-tile: 2.889234055174
Z Maximum: 5.2877719538353

Z Midrange: 3.1791443681355
Z Range: 4.2172551713994
Z Interquartile Range: 1.5240167438441
Z Median Abs. Deviation: 0.68045057025703

Z Mean: 2.1534409932579
Z Trim Mean (10%): 2.1051453306161
Z Standard Deviation: 0.8614220116705
Z Variance: 0.74204788219046

Z Coef. of Variation: 0.4000211820837
Z Coef. of Skewness: 0.60182257607085

Z Root Mean Square: 2.319343871364
Z Mean Square: 5.3793559936338

Gridding Report

Acque_AO3_Superficiale_Fosforo_totale

Fri Feb 25 16:58:23 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	56.67
25%-tile:	685820.6	4481697.1	73.33
Median:	686295.7	4482087	120
75%-tile:	686554.4	4482291.4	297.5
Maximum:	686954.1	4482509.1	302.5
Midrange:	686221.1	4481914.8	179.585
Range:	1466	1188.5999999996	245.83
Interquartile Range:	733.80000000005	594.30000000075	224.17
Median Abs. Deviation:	475.09999999998	389.90000000037	63.33
Mean:	686115.3625	4481925.25	155.42125
Trim Mean (10%):	686080.11666667	4481928.7333333	147.36666666667
Standard Deviation:	491.34506697814	368.36158526635	95.694133236774
Variance:	241419.97484375	135690.25749994	9157.3671359375
Coef. of Variation:			0.6157081688429

Coef. of Skewness:

0.56007152312164

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.319
Y:		1.000	-0.382
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-15011.371703124
Y:		135690.25749994	-13472.241562497
Z:			9157.3671359375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.077558429662061	-0.11730651609265	579128.48761245
Standard Error:	0.073954178425585	0.098644978653339	453844.30958407

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	21956.890765727	10978.445382863	1.07
Residual:	5	51302.046321773	10260.409264355	
Total:	7	73258.9370875		

Coefficient of Multiple Determination (R^2): 0.29971620717758

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	46.67
25%-tile:	399.96126062406	106.7
Median:	400.00431247669	230.83
75%-tile:	402.72925148261	245.83
Maximum:	402.72925148261	245.83
Midrange:	400.07895587358	146.25
Range:	5.3005912180544	199.16
Interquartile Range:	2.7679908585473	139.13
Median Abs. Deviation:	2.5756522121415	124.13
Mean:	400.03087121198	157.5075
Trim Mean (10%):	400.01484299144	161.26
Standard Deviation:	1.8747205725248	83.730828365364
Variance:	3.5145772250477	7010.85161875
Coef. of Variation:	0.0046864397411253	0.53159899284392
Coef. of Skewness:	0.076886159976531	-0.17443927687743
Root Mean Square:	400.03526407035	178.38011148948
Mean Square:	160028.21249984	31819.464175

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 48.372804779834
Z 25%-tile: 111.43238685712
Z Median: 170.5001291575
Z 75%-tile: 249.41191004984
Z Maximum: 356.57411631439

Z Midrange: 202.47346054711
Z Range: 308.20131153456
Z Interquartile Range: 137.97952319272
Z Median Abs. Deviation: 65.625751135513

Z Mean: 182.76585750384
Z Trim Mean (10%): 181.06165293215
Z Standard Deviation: 82.523266219536
Z Variance: 6810.0894675404

Z Coef. of Variation: 0.45152452075357

Z Coef. of Skewness:	0.3043335504086
Z Root Mean Square:	200.53291035801
Z Mean Square:	40213.448136655

Gridding Report Acque_AO3_Superficiale_Zinco

Fri Feb 25 16:59:14 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_ZINCO.dat

X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	12.2
25%-tile:	685820.6	4481697.1	13.75
Median:	686295.7	4482087	21.5
75%-tile:	686554.4	4482291.4	46.63
Maximum:	686954.1	4482509.1	53.07
Midrange:	686221.1	4481914.8	32.635
Range:	1466	1188.5999999996	40.87
Interquartile Range:	733.80000000005	594.30000000075	32.88
Median Abs. Deviation:	475.09999999998	389.90000000037	9.3
Mean:	686115.3625	4481925.25	27.11875
Trim Mean (10%):	686080.11666667	4481928.7333333	25.28
Standard Deviation:	491.34506697814	368.36158526635	15.081392871267
Variance:	241419.97484375	135690.25749994	227.4484109375
Coef. of Variation:			0.55612418976785
Coef. of Skewness:			0.61466803799685

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.497
Y:		1.000	-0.293
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	3680.119078125
Y:		135690.25749994	-1625.8070625
Z:			227.4484109375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.014058726759259	-0.0086352786385284	29083.883739542
Standard Error:	0.011742374797407	0.015662756802785	72060.972027008

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	526.22220650178	263.11110325089	1.0172
Residual:	5	1293.3650809982	258.67301619964	
Total:	7	1819.5872875		

Coefficient of Multiple Determination (R^2): 0.28919866066155

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	1.13
25%-tile:	399.96126062406	16.73
Median:	400.00431247669	25.13
75%-tile:	402.72925148261	39.32
Maximum:	402.72925148261	39.32
Midrange:	400.07895587358	20.225
Range:	5.3005912180544	38.19
Interquartile Range:	2.7679908585473	22.59
Median Abs. Deviation:	2.5756522121415	14.19
Mean:	400.03087121198	20.5775
Trim Mean (10%):	400.01484299144	20.695
Standard Deviation:	1.8747205725248	13.829452944712
Variance:	3.5145772250477	191.25376875
Coef. of Variation:	0.0046864397411253	0.67206672067607
Coef. of Skewness:	0.076886159976531	-0.069364713985772
Root Mean Square:	400.03526407035	24.792887588984
Mean Square:	160028.21249984	614.687275

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\A03\S\ACQUE_A03_S_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 11.106231166205
Z 25%-tile: 16.137242600341
Z Median: 27.277463222285
Z 75%-tile: 38.36198105132
Z Maximum: 51.99800950162

Z Midrange: 31.552120333913
Z Range: 40.891778335415
Z Interquartile Range: 22.224738450979
Z Median Abs. Deviation: 11.109820588713

Z Mean: 27.793460649598
Z Trim Mean (10%): 27.628921973985
Z Standard Deviation: 11.582486568199
Z Variance: 134.15399510251

Z Coef. of Variation: 0.41673423522978
Z Coef. of Skewness: 0.12432418079143

Z Root Mean Square: 30.110304714221
Z Mean Square: 906.63044998325

Gridding Report

Acque_C1_Profondo_Idrocarburi_Totali

Fri Feb 25 17:14:37 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	26.86
25%-tile:	685820.6	4481697.1	32.43
Median:	686295.7	4482087	34.57
75%-tile:	686554.4	4482291.4	42
Maximum:	686954.1	4482509.1	48.03
Midrange:	686221.1	4481914.8	37.445
Range:	1466	1188.5999999996	21.17
Interquartile Range:	733.80000000005	594.30000000075	9.57
Median Abs. Deviation:	475.09999999998	389.90000000037	7.14
Mean:	686115.3625	4481925.25	35.15875
Trim Mean (10%):	686080.11666667	4481928.7333333	34.396666666667
Standard Deviation:	491.34506697814	368.36158526635	6.6191133044767
Variance:	241419.97484375	135690.25749994	43.8126609375
Coef. of Variation:			0.18826361302597

Coef. of Skewness:

0.60256869386965

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.537
Y:		1.000	0.062
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	1745.1310781251
Y:		135690.25749994	151.04493749979
Z:			43.8126609375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0075934734027663	0.002900594467348	-18175.087583771
Standard Error:	0.005068594278066	0.0067608265686484	31105.107509312

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	109.51944925348	54.759724626741	1.1362
Residual:	5	240.98183824652	48.196367649304	
Total:	7	350.5012875		

Coefficient of Multiple Determination (R^2): 0.31246518389318

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	1.29
25%-tile:	399.96126062406	5.57
Median:	400.00431247669	6.03
75%-tile:	402.72925148261	6.66
Maximum:	402.72925148261	6.66
Midrange:	400.07895587358	3.975
Range:	5.3005912180544	5.37
Interquartile Range:	2.7679908585473	1.09
Median Abs. Deviation:	2.5756522121415	0.63
Mean:	400.03087121198	4.8875
Trim Mean (10%):	400.01484299144	5.1916666666667
Standard Deviation:	1.8747205725248	2.1127514643232
Variance:	3.5145772250477	4.46371875
Coef. of Variation:	0.0046864397411253	0.43227651443954
Coef. of Skewness:	0.076886159976531	-1.038649349847
Root Mean Square:	400.03526407035	5.324600924013
Mean Square:	160028.21249984	28.351375

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 27.116173013552
Z 25%-tile: 33.255485492846
Z Median: 34.629327278642
Z 75%-tile: 40.324841371954
Z Maximum: 47.759955604581

Z Midrange: 37.438064309066
Z Range: 20.64378259103
Z Interquartile Range: 7.0693558791081
Z Median Abs. Deviation: 2.5104770795414

Z Mean: 36.393418900171
Z Trim Mean (10%): 36.325862563864
Z Standard Deviation: 4.0920327044846
Z Variance: 16.744731654571

Z Coef. of Variation: 0.11243880976693

Z Coef. of Skewness:	0.38830121849778
Z Root Mean Square:	36.62274799763
Z Mean Square:	1341.2256708979

Gridding Report

Acque_C1_Profondo_Potenziale_Redox

Fri Feb 25 17:15:27 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	196.62467532468
25%-tile:	685820.6	4481697.1	201.31166666667
Median:	686295.7	4482087	209.38314393939
75%-tile:	686554.4	4482291.4	215.78190476191
Maximum:	686954.1	4482509.1	219.34904761905
Midrange:	686221.1	4481914.8	207.98686147186
Range:	1466	1188.59999999996	22.724372294373
Interquartile Range:	733.80000000005	594.30000000075	14.470238095238
Median Abs. Deviation:	475.09999999998	389.90000000037	8.071477272727
Mean:	686115.3625	4481925.25	207.15010758339
Trim Mean (10%):	686080.11666667	4481928.7333333	206.87118962056
Standard Deviation:	491.34506697814	368.36158526635	7.6854754814322
Variance:	241419.97484375	135690.25749994	59.066533375695
Coef. of Variation:			0.037100996813812

Coef. of Skewness:

0.18629944937177

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.949
Y:		1.000	-0.311
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	3582.2354789156
Y:		135690.25749994	-879.13026005436
Z:			59.066533375695

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.014388297239669	-0.0030686605605561	4088.6256043347
Standard Error:	0.0020278786392909	0.0027049187664995	12444.748904828

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	433.95840023417	216.97920011709	28.125
Residual:	5	38.573866771418	7.7147733542835	
Total:	7	472.53226700559		

Coefficient of Multiple Determination (R^2): 0.91836776138938

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.1883333333333
25%-tile:	399.96126062406	2.6208498446
Median:	400.00431247669	2.621753246753
75%-tile:	402.72925148261	3.567142857143
Maximum:	402.72925148261	3.567142857143
Midrange:	400.07895587358	2.877738095238
Range:	5.3005912180544	1.37880952381
Interquartile Range:	2.7679908585473	0.94629301254301
Median Abs. Deviation:	2.5756522121415	0.43341991342001
Mean:	400.03087121198	2.7495198204573
Trim Mean (10%):	400.01484299144	2.7067803955303
Standard Deviation:	1.8747205725248	0.50406298304213
Variance:	3.5145772250477	0.25407949087333
Coef. of Variation:	0.0046864397411253	0.18332764117274
Coef. of Skewness:	0.076886159976531	0.71373195880396
Root Mean Square:	400.03526407035	2.7953423285817
Mean Square:	160028.21249984	7.8139387339606

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 196.62588507738
Z 25%-tile: 201.85078393608
Z Median: 208.57284108545
Z 75%-tile: 215.92398645983
Z Maximum: 219.42635795538

Z Midrange: 208.02612151638
Z Range: 22.800472878001
Z Interquartile Range: 14.073202523758
Z Median Abs. Deviation: 7.098187650567

Z Mean: 208.5791275353
Z Trim Mean (10%): 208.63281024518
Z Standard Deviation: 7.4564172385137
Z Variance: 55.598158034804

Z Coef. of Variation: 0.035748626080776

Z Coef. of Skewness: -0.072812301649939

Z Root Mean Square: 208.71236331713

Z Mean Square: 43560.85060142

Gridding Report Acque_C1_Profondo_TOC

Fri Feb 25 17:16:19 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1
25%-tile:	685820.6	4481697.1	1.429
Median:	686295.7	4482087	1.714
75%-tile:	686554.4	4482291.4	1.857
Maximum:	686954.1	4482509.1	1.879
Midrange:	686221.1	4481914.8	1.4395
Range:	1466	1188.5999999996	0.879
Interquartile Range:	733.80000000005	594.30000000075	0.428
Median Abs. Deviation:	475.09999999998	389.90000000037	0.165
Mean:	686115.3625	4481925.25	1.592
Trim Mean (10%):	686080.11666667	4481928.7333333	1.6428333333333
Standard Deviation:	491.34506697814	368.36158526635	0.30067756816896
Variance:	241419.97484375	135690.25749994	0.090407
Coef. of Variation:			0.18886781920161
Coef. of Skewness:			-0.80916791573998

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.134
Y:		1.000	0.105
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	19.782150000005
Y:		135690.25749994	11.631400000001
Z:			0.090407

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	9.6074604688944E-005		0.000108137728129
Standard Error:	-548.99147616865	0.000272783931917650	0.000363857265591391674.0289444412

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.025269817950861	0.01263490897543	0.09051
Residual:	5	0.69798618204915	0.13959723640983	
Total:	7	0.72325600000001		

Coefficient of Multiple Determination (R^2): 0.034938967600491

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0
25%-tile:	399.96126062406	0.285
Median:	400.00431247669	0.593
75%-tile:	402.72925148261	0.714
Maximum:	402.72925148261	0.714
Midrange:	400.07895587358	0.357
Range:	5.3005912180544	0.714
Interquartile Range:	2.7679908585473	0.429
Median Abs. Deviation:	2.5756522121415	0.308
Mean:	400.03087121198	0.398
Trim Mean (10%):	400.01484299144	0.41166666666667
Standard Deviation:	1.8747205725248	0.27796312705105
Variance:	3.5145772250477	0.0772635
Coef. of Variation:	0.0046864397411253	0.69839981671119
Coef. of Skewness:	0.076886159976531	-0.29705063660213
Root Mean Square:	400.03526407035	0.48545597122705
Mean Square:	160028.21249984	0.2356675

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.0087743390766
Z 25%-tile: 1.6538320337959
Z Median: 1.775340837546
Z 75%-tile: 1.8579328289067
Z Maximum: 1.9392670726126

Z Midrange: 1.4740207058446
Z Range: 0.93049273353598
Z Interquartile Range: 0.20410079511077
Z Median Abs. Deviation: 0.091528872086875

Z Mean: 1.7230474613822
Z Trim Mean (10%): 1.7397354951687
Z Standard Deviation: 0.17769937351588
Z Variance: 0.031577067347937

Z Coef. of Variation: 0.10313086406415
Z Coef. of Skewness: -1.3696823484287

Z Root Mean Square: 1.7321863703203
Z Mean Square: 3.0004696215235

Gridding Report

Acque_C1_Profondo_Fosforo_totale

Fri Feb 25 17:17:00 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	25.71
25%-tile:	685820.6	4481697.1	29.71
Median:	686295.7	4482087	35
75%-tile:	686554.4	4482291.4	35.86
Maximum:	686954.1	4482509.1	36.71
Midrange:	686221.1	4481914.8	31.21
Range:	1466	1188.5999999996	11
Interquartile Range:	733.80000000005	594.30000000075	6.15
Median Abs. Deviation:	475.09999999998	389.90000000037	5.14
Mean:	686115.3625	4481925.25	32.24875
Trim Mean (10%):	686080.11666667	4481928.7333333	32.595
Standard Deviation:	491.34506697814	368.36158526635	3.7687247096996
Variance:	241419.97484375	135690.25749994	14.2032859375
Coef. of Variation:			0.11686421054148

Coef. of Skewness:

-0.316268180782

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.385
Y:		1.000	-0.151
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-713.110546875
Y:		135690.25749994	-209.80218749949
Z:			14.2032859375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0032520794372688	-0.0023087597797234	12611.239166587
Standard Error:	0.0031180864972384	0.004159110174807	19135.170502725

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	22.428233348608	11.214116674304	0.61482
Residual:	5	91.198054151391	18.239610830278	
Total:	7	113.6262875		

Coefficient of Multiple Determination (R^2): 0.19738595568044

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	6
25%-tile:	399.96126062406	6.15
Median:	400.00431247669	6.85
75%-tile:	402.72925148261	9.29
Maximum:	402.72925148261	9.29
Midrange:	400.07895587358	7.645
Range:	5.3005912180544	3.29
Interquartile Range:	2.7679908585473	3.14
Median Abs. Deviation:	2.5756522121415	0.85
Mean:	400.03087121198	7.0725
Trim Mean (10%):	400.01484299144	6.8816666666667
Standard Deviation:	1.8747205725248	1.3198555792207
Variance:	3.5145772250477	1.74201875
Coef. of Variation:	0.0046864397411253	0.18661796807645
Coef. of Skewness:	0.076886159976531	0.96493971340879
Root Mean Square:	400.03526407035	7.1946004058599
Mean Square:	160028.21249984	51.762275

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 25.192118374597
Z 25%-tile: 28.458287751046
Z Median: 31.219253493664
Z 75%-tile: 33.562039515011
Z Maximum: 36.665689242983

Z Midrange: 30.92890380879
Z Range: 11.473570868386
Z Interquartile Range: 5.1037517639648
Z Median Abs. Deviation: 2.496494653114

Z Mean: 30.985724042848
Z Trim Mean (10%): 31.029588216723
Z Standard Deviation: 3.0727046621419
Z Variance: 9.4415139407488

Z Coef. of Variation: 0.099165172254581

Z Coef. of Skewness: -0.23569731721271

Z Root Mean Square: 31.137703968024

Z Mean Square: 969.55660840029

Gridding Report Acque_C1_Profondo_Zinco

Fri Feb 25 17:17:40 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	15.86
25%-tile:	685820.6	4481697.1	21.57
Median:	686295.7	4482087	25.34
75%-tile:	686554.4	4482291.4	29.14
Maximum:	686954.1	4482509.1	34.14
Midrange:	686221.1	4481914.8	25
Range:	1466	1188.5999999996	18.28
Interquartile Range:	733.80000000005	594.30000000075	7.57
Median Abs. Deviation:	475.09999999998	389.90000000037	3.8
Mean:	686115.3625	4481925.25	24.22125
Trim Mean (10%):	686080.11666667	4481928.7333333	23.961666666667
Standard Deviation:	491.34506697814	368.36158526635	5.2869685016557
Variance:	241419.97484375	135690.25749994	27.9520359375
Coef. of Variation:			0.21827810297387
Coef. of Skewness:			0.35659421863656

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.357
Y:		1.000	0.253
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	928.396171875
Y:		135690.25749994	492.6496874989
Z:			27.9520359375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0044535952543154	0.0046712693284544	-23967.738824602
Standard Error:	0.0042837229491066	0.0057139132347557	26288.48464922

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	51.488096347926	25.744048173963	0.74782
Residual:	5	172.12819115207	34.425638230415	
Total:	7	223.6162875		

Coefficient of Multiple Determination (R^2): 0.23025199516348

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.29
25%-tile:	399.96126062406	5.05
Median:	400.00431247669	8.57
75%-tile:	402.72925148261	13.28
Maximum:	402.72925148261	13.28
Midrange:	400.07895587358	6.785
Range:	5.3005912180544	12.99
Interquartile Range:	2.7679908585473	8.23
Median Abs. Deviation:	2.5756522121415	4.71
Mean:	400.03087121198	6.7975
Trim Mean (10%):	400.01484299144	6.8016666666667
Standard Deviation:	1.8747205725248	4.7583052392632
Variance:	3.5145772250477	22.64146875
Coef. of Variation:	0.0046864397411253	0.70000812640872
Coef. of Skewness:	0.076886159976531	-0.0068027018789533
Root Mean Square:	400.03526407035	8.2974378575558
Mean Square:	160028.21249984	68.847475

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\P\ACQUE_C1_P_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 16.095804668672
Z 25%-tile: 23.323812904252
Z Median: 26.215279550078
Z 75%-tile: 29.53922440082
Z Maximum: 34.101167580873

Z Midrange: 25.098486124772
Z Range: 18.0053629122
Z Interquartile Range: 6.2154114965678
Z Median Abs. Deviation: 3.1225539882219

Z Mean: 26.492069889499
Z Trim Mean (10%): 26.514358310904
Z Standard Deviation: 4.0290501272691
Z Variance: 16.233244928047

Z Coef. of Variation: 0.1520851388387
Z Coef. of Skewness: 0.056737717817181

Z Root Mean Square: 26.796697780849
Z Mean Square: 718.06301195815

Gridding Report

Acque_C1_Superficiale_Idrocarburi_Totali

Fri Feb 25 17:06:26 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	25.89
25%-tile:	685820.6	4481697.1	29.96
Median:	686295.7	4482087	33.7
75%-tile:	686554.4	4482291.4	39.94
Maximum:	686954.1	4482509.1	41.07
Midrange:	686221.1	4481914.8	33.48
Range:	1466	1188.5999999996	15.18
Interquartile Range:	733.80000000005	594.30000000075	9.98
Median Abs. Deviation:	475.09999999998	389.90000000037	5.57
Mean:	686115.3625	4481925.25	33.4725
Trim Mean (10%):	686080.11666667	4481928.7333333	33.47
Standard Deviation:	491.34506697814	368.36158526635	5.1245676646913
Variance:	241419.97484375	135690.25749994	26.26119375
Coef. of Variation:			0.15309784643189

Coef. of Skewness:

0.10342190488718

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.646
Y:		1.000	0.070
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-1626.92790625
Y:		135690.25749994	131.68412500034
Z:			26.26119375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0068052213214886	-0.00063666149893422	7556.108636768
Standard Error:	0.0036092000000613	0.0048141898746117	22149.051169933

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	87.900819576789	43.950409788395	1.7985
Residual:	5	122.18873042321	24.437746084642	
Total:	7	210.08955		

Coefficient of Multiple Determination (R^2): 0.41839691491932

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	3.18
25%-tile:	399.96126062406	4.2
Median:	400.00431247669	7.81
75%-tile:	402.72925148261	11.11
Maximum:	402.72925148261	11.11
Midrange:	400.07895587358	7.145
Range:	5.3005912180544	7.93
Interquartile Range:	2.7679908585473	6.91
Median Abs. Deviation:	2.5756522121415	3.61
Mean:	400.03087121198	6.575
Trim Mean (10%):	400.01484299144	6.385
Standard Deviation:	1.8747205725248	3.1328142300494
Variance:	3.5145772250477	9.814525
Coef. of Variation:	0.0046864397411253	0.4764736471558
Coef. of Skewness:	0.076886159976531	0.34657062585682
Root Mean Square:	400.03526407035	7.2832101438857
Mean Square:	160028.21249984	53.04515

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 26.066043627831
Z 25%-tile: 31.809761464625
Z Median: 32.968857420798
Z 75%-tile: 38.251228293971
Z Maximum: 42.396137581442

Z Midrange: 34.231090604637
Z Range: 16.330093953612
Z Interquartile Range: 6.4414668293463
Z Median Abs. Deviation: 2.3486357601258

Z Mean: 34.516924213186
Z Trim Mean (10%): 34.476188556968
Z Standard Deviation: 4.121480419384
Z Variance: 16.986600847366

Z Coef. of Variation:	0.11940462579831
Z Coef. of Skewness:	0.43813795240254
Z Root Mean Square:	34.762115269157
Z Mean Square:	1208.4046579862

Gridding Report

Acque_C1_Superficiale_Potenziale_Redox

Fri Feb 25 17:07:43 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	185.80761904762
25%-tile:	685820.6	4481697.1	188.88056818182
Median:	686295.7	4482087	192.70575757576
75%-tile:	686554.4	4482291.4	205.09738095238
Maximum:	686954.1	4482509.1	208.72
Midrange:	686221.1	4481914.8	197.26380952381
Range:	1466	1188.59999999996	22.912380952381
Interquartile Range:	733.80000000005	594.30000000075	16.216812770563
Median Abs. Deviation:	475.09999999998	389.90000000037	6.898138528139
Mean:	686115.3625	4481925.25	195.31947037338
Trim Mean (10%):	686080.11666667	4481928.7333333	194.67135732323
Standard Deviation:	491.34506697814	368.36158526635	8.1426549202689
Variance:	241419.97484375	135690.25749994	66.302829150579
Coef. of Variation:			0.041688905385127

Coef. of Skewness:

0.48385805974452

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.854
Y:		1.000	-0.179
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	3416.3547027446
Y:		135690.25749994	-537.41709209337
Z:			66.302829150579

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.014029303304272	-0.00064430726243472	
Standard Error:	-6542.6640526078	0.0052299125404983	24061.701655071

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	386.21987257199	193.109936286	6.6958
Residual:	5	144.20276063267	28.840552126535	
Total:	7	530.42263320467		

Coefficient of Multiple Determination (R^2): 0.72813610957466

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	3.622619047619
25%-tile:	399.96126062406	4.364329004329
Median:	400.00431247669	4.993571428571
75%-tile:	402.72925148261	13.32125
Maximum:	402.72925148261	13.32125
Midrange:	400.07895587358	8.4719345238095
Range:	5.3005912180544	9.698630952381
Interquartile Range:	2.7679908585473	8.956920995671
Median Abs. Deviation:	2.5756522121415	1.370952380952
Mean:	400.03087121198	6.5754423701297
Trim Mean (10%):	400.01484299144	5.9432783189032
Standard Deviation:	1.8747205725248	3.9248064966744
Variance:	3.5145772250477	15.404106036337
Coef. of Variation:	0.0046864397411253	0.5968885857024
Coef. of Skewness:	0.076886159976531	1.1018347893743
Root Mean Square:	400.03526407035	7.6577116947059
Mean Square:	160028.21249984	58.640548399235

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 185.84338764434
Z 25%-tile: 190.67626597973
Z Median: 196.67022564657
Z 75%-tile: 205.74500330644
Z Maximum: 209.50660545242

Z Midrange: 197.67499654838
Z Range: 23.663217808075
Z Interquartile Range: 15.068737326711
Z Median Abs. Deviation: 7.321848388371

Z Mean: 197.81551599475
Z Trim Mean (10%): 197.82148815294
Z Standard Deviation: 7.7118162653732
Z Variance: 59.472110110875

Z Coef. of Variation:	0.038984890677524
Z Coef. of Skewness:	0.070760787191084
Z Root Mean Square:	197.96578107941
Z Mean Square:	39190.45047838

Gridding Report Acque_C1_Superficiale_TOC

Fri Feb 25 17:08:31 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.53
25%-tile:	685820.6	4481697.1	1.671
Median:	686295.7	4482087	1.783
75%-tile:	686554.4	4482291.4	1.867
Maximum:	686954.1	4482509.1	2.004
Midrange:	686221.1	4481914.8	1.767
Range:	1466	1188.5999999996	0.474
Interquartile Range:	733.80000000005	594.30000000075	0.196
Median Abs. Deviation:	475.09999999998	389.90000000037	0.112
Mean:	686115.3625	4481925.25	1.757625
Trim Mean (10%):	686080.11666667	4481928.7333333	1.7545
Standard Deviation:	491.34506697814	368.36158526635	0.13417706352056
Variance:	241419.97484375	135690.25749994	0.018003484375
Coef. of Variation:			0.076339983512159
Coef. of Skewness:			0.15590270532754

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.237
Y:		1.000	0.177
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-15.5927140625
Y:		135690.25749994	8.752668750033
Z:			0.018003484375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-5.76076150678E-005	5.0725605771467E-005	-186.06527877954
Standard Error:	0.000119205797849370	0.00015900458411607731	54585954606

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.01073589703784	0.00536794851892	0.20136
Residual:	5	0.13329197796217	0.026658395592433	
Total:	7	0.14402787500001		

Coefficient of Multiple Determination (R^2): 0.074540411276911

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.057
25%-tile:	399.96126062406	0.131
Median:	400.00431247669	0.196
75%-tile:	402.72925148261	0.221
Maximum:	402.72925148261	0.221
Midrange:	400.07895587358	0.139
Range:	5.3005912180544	0.164
Interquartile Range:	2.7679908585473	0.09
Median Abs. Deviation:	2.5756522121415	0.065
Mean:	400.03087121198	0.15125
Trim Mean (10%):	400.01484299144	0.15533333333333
Standard Deviation:	1.8747205725248	0.063562469272362
Variance:	3.5145772250477	0.0040401875
Coef. of Variation:	0.0046864397411253	0.42024773072636
Coef. of Skewness:	0.076886159976531	-0.40554191948849
Root Mean Square:	400.03526407035	0.16406324999829
Mean Square:	160028.21249984	0.02691675

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.5391137101235
Z 25%-tile: 1.6878112299746
Z Median: 1.7430739011578
Z 75%-tile: 1.7794978243576
Z Maximum: 1.9996749636787

Z Midrange: 1.7693943369011
Z Range: 0.46056125355521
Z Interquartile Range: 0.091686594383018
Z Median Abs. Deviation: 0.044874145291773

Z Mean: 1.7421814525509
Z Trim Mean (10%): 1.7398716485036
Z Standard Deviation: 0.065583304365197
Z Variance: 0.0043011698114581

Z Coef. of Variation: 0.037644359184957
Z Coef. of Skewness: 0.4798697178748

Z Root Mean Square: 1.7434154362698
Z Mean Square: 3.0394973834239

Gridding Report

Acque_C1_Superficiale_Fosforo_totale

Fri Feb 25 17:10:39 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_TP.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	21.63
25%-tile:	685820.6	4481697.1	34.69
Median:	686295.7	4482087	42.91
75%-tile:	686554.4	4482291.4	51.63
Maximum:	686954.1	4482509.1	52.77
Midrange:	686221.1	4481914.8	37.2
Range:	1466	1188.5999999996	31.14
Interquartile Range:	733.80000000005	594.30000000075	16.94
Median Abs. Deviation:	475.09999999998	389.90000000037	8.72
Mean:	686115.3625	4481925.25	39.41625
Trim Mean (10%):	686080.11666667	4481928.7333333	40.155
Standard Deviation:	491.34506697814	368.36158526635	11.14770933589
Variance:	241419.97484375	135690.25749994	124.2714234375
Coef. of Variation:			0.28282013981265

Coef. of Skewness:

-0.32717328778186

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.478
Y:		1.000	-0.774
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	2619.0258593751
Y:		135690.25749994	-3180.1216874999
Z:			124.2714234375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0079719366032033	-0.021494718402754	90907.469249264
Standard Error:	0.0054663587010274	0.0072913910864	33546.120630669

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	713.88273986798	356.94136993399	6.3674
Residual:	5	280.28864763201	56.057729526403	
Total:	7	994.1713875		

Coefficient of Multiple Determination (R^2): 0.71806808045759

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	3.18
25%-tile:	399.96126062406	3.41
Median:	400.00431247669	5.38
75%-tile:	402.72925148261	16.94
Maximum:	402.72925148261	16.94
Midrange:	400.07895587358	10.06
Range:	5.3005912180544	13.76
Interquartile Range:	2.7679908585473	13.53
Median Abs. Deviation:	2.5756522121415	2.2
Mean:	400.03087121198	7.2275
Trim Mean (10%):	400.01484299144	6.28333333333333
Standard Deviation:	1.8747205725248	5.6723336247086
Variance:	3.5145772250477	32.17536875
Coef. of Variation:	0.0046864397411253	0.78482651327688
Coef. of Skewness:	0.076886159976531	1.0793403540671
Root Mean Square:	400.03526407035	9.1876071422324
Mean Square:	160028.21249984	84.412125

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_TP.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 19.889329810756
Z 25%-tile: 29.869628663519
Z Median: 36.396799122055
Z 75%-tile: 45.602280749984
Z Maximum: 52.728091618453

Z Midrange: 36.308710714604
Z Range: 32.838761807697
Z Interquartile Range: 15.732652086465
Z Median Abs. Deviation: 7.9980674718434

Z Mean: 36.867417669092
Z Trim Mean (10%): 36.963979834263
Z Standard Deviation: 9.4247209458624
Z Variance: 88.825364907377

Z Coef. of Variation: 0.25563821774704

Z Coef. of Skewness: -0.094139792574504

Z Root Mean Square: 38.053013684788

Z Mean Square: 1448.0318504947

Gridding Report Acque_C1_Superficiale_Zinco

Fri Feb 25 17:11:18 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	16.34
25%-tile:	685820.6	4481697.1	20.59
Median:	686295.7	4482087	23.47
75%-tile:	686554.4	4482291.4	25.2
Maximum:	686954.1	4482509.1	31.89
Midrange:	686221.1	4481914.8	24.115
Range:	1466	1188.5999999996	15.55
Interquartile Range:	733.80000000005	594.30000000075	4.61
Median Abs. Deviation:	475.09999999998	389.90000000037	2.88
Mean:	686115.3625	4481925.25	22.91125
Trim Mean (10%):	686080.11666667	4481928.7333333	22.51
Standard Deviation:	491.34506697814	368.36158526635	4.402341528948
Variance:	241419.97484375	135690.25749994	19.3806109375
Coef. of Variation:			0.19214759251232
Coef. of Skewness:			0.54635889848145

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.265
Y:		1.000	0.051
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-572.510453125
Y:		135690.25749994	82.133437500407
Z:			19.3806109375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0023583358313763	4.7423821998275E-005	1428.4516657002
Standard Error:	0.003921004993822	0.0052300960155268	24062.545784177

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	10.832008889439	5.4160044447194	0.18778
Residual:	5	144.21287861056	28.842575722112	
Total:	7	155.0448875		

Coefficient of Multiple Determination (R^2): 0.06986369601796

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.76
25%-tile:	399.96126062406	4.01
Median:	400.00431247669	7.13
75%-tile:	402.72925148261	13.13
Maximum:	402.72925148261	13.13
Midrange:	400.07895587358	7.945
Range:	5.3005912180544	10.37
Interquartile Range:	2.7679908585473	9.12
Median Abs. Deviation:	2.5756522121415	4.37
Mean:	400.03087121198	6.7575
Trim Mean (10%):	400.01484299144	6.3616666666667
Standard Deviation:	1.8747205725248	4.0086242964389
Variance:	3.5145772250477	16.06906875
Coef. of Variation:	0.0046864397411253	0.59321114264726
Coef. of Skewness:	0.076886159976531	0.67612777825715
Root Mean Square:	400.03526407035	7.857027109537
Mean Square:	160028.21249984	61.732875

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C1\S\ACQUE_C1_S_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 16.417656271199
Z 25%-tile: 21.338480071861
Z Median: 22.692971616728
Z 75%-tile: 23.968896500692
Z Maximum: 31.806109510232

Z Midrange: 24.111882890716
Z Range: 15.388453239033
Z Interquartile Range: 2.6304164288304
Z Median Abs. Deviation: 1.302210780882

Z Mean: 22.910500655184
Z Trim Mean (10%): 22.80077629973
Z Standard Deviation: 2.9927768705107
Z Variance: 8.9567133966641

Z Coef. of Variation: 0.13062904715849
Z Coef. of Skewness: 0.64973017960669

Z Root Mean Square: 23.105145610185
Z Mean Square: 533.84775366785

Gridding Report

Acque_C2_Profondo_Idrocarburi_Totali

Fri Feb 25 17:23:27 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	30.24
25%-tile:	685820.6	4481697.1	32.19
Median:	686295.7	4482087	33.58
75%-tile:	686554.4	4482291.4	35.55
Maximum:	686954.1	4482509.1	40.74
Midrange:	686221.1	4481914.8	35.49
Range:	1466	1188.5999999996	10.5
Interquartile Range:	733.80000000005	594.30000000075	3.36
Median Abs. Deviation:	475.09999999998	389.90000000037	1.97
Mean:	686115.3625	4481925.25	33.8125
Trim Mean (10%):	686080.11666667	4481928.7333333	33.253333333333
Standard Deviation:	491.34506697814	368.36158526635	3.1382389568036
Variance:	241419.97484375	135690.25749994	9.84854375
Coef. of Variation:			0.092812982086614

Coef. of Skewness:

1.0226543694587

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.430
Y:		1.000	0.808
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-662.31865625001
Y:		135690.25749994	933.59824999983
Z:			9.84854375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0018845613089891	0.0064174488943676	-27435.687274182
Standard Error:	0.0014916948708025	0.0019897213628798	9154.279625061

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	57.916100968316	28.958050484158	6.937
Residual:	5	20.872249031683	4.1744498063366	
Total:	7	78.788349999999		

Coefficient of Multiple Determination (R^2): 0.73508457745741

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.3
25%-tile:	399.96126062406	2.54
Median:	400.00431247669	2.62
75%-tile:	402.72925148261	7.16
Maximum:	402.72925148261	7.16
Midrange:	400.07895587358	3.73
Range:	5.3005912180544	6.86
Interquartile Range:	2.7679908585473	4.62
Median Abs. Deviation:	2.5756522121415	2.32
Mean:	400.03087121198	3.155
Trim Mean (10%):	400.01484299144	2.96333333333333
Standard Deviation:	1.8747205725248	2.4927645295936
Variance:	3.5145772250477	6.213875
Coef. of Variation:	0.0046864397411253	0.79009969242269
Coef. of Skewness:	0.076886159976531	0.65500483802452
Root Mean Square:	400.03526407035	4.0209327276143
Mean Square:	160028.21249984	16.1679

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 30.046841266306
Z 25%-tile: 31.636062260433
Z Median: 33.880166634642
Z 75%-tile: 35.767822453549
Z Maximum: 40.722431702355

Z Midrange: 35.38463648433
Z Range: 10.675590436049
Z Interquartile Range: 4.1317601931158
Z Median Abs. Deviation: 2.0914746434213

Z Mean: 34.096414193269
Z Trim Mean (10%): 33.959374915364
Z Standard Deviation: 2.8732495146468
Z Variance: 8.2555627734181

Z Coef. of Variation: 0.084268377852296

Z Coef. of Skewness:	0.58732036562285
Z Root Mean Square:	34.217262070662
Z Mean Square:	1170.8210236124

Gridding Report

Acque_C2_Profondo_Potenziale_Redox

Fri Feb 25 17:24:21 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	219.57050865801
25%-tile:	685820.6	4481697.1	220.21694775132
Median:	686295.7	4482087	227.15303030303
75%-tile:	686554.4	4482291.4	231.00022508272
Maximum:	686954.1	4482509.1	235.17121212121
Midrange:	686221.1	4481914.8	227.37086038961
Range:	1466	1188.59999999996	15.600703463203
Interquartile Range:	733.80000000005	594.30000000075	10.7832773314
Median Abs. Deviation:	475.09999999998	389.90000000037	6.936082551707
Mean:	686115.3625	4481925.25	225.82943973252
Trim Mean (10%):	686080.11666667	4481928.7333333	225.31563284682
Standard Deviation:	491.34506697814	368.36158526635	5.4776605740755
Variance:	241419.97484375	135690.25749994	30.004765364781
Coef. of Variation:			0.024255741769379

Coef. of Skewness:

0.27529423218121

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.714
Y:		1.000	-0.369
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	1920.8069630209
Y:		135690.25749994	-744.96826301427
Z:			30.004765364781

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0074395571710318	-0.0037204325447403	11796.13554986
Standard Error:	0.0033221190597506	0.0044312623128212	20387.283898309

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	136.51445744996	68.257228724979	3.2967
Residual:	5	103.52366546838	20.704733093677	
Total:	7	240.03812291834		

Coefficient of Multiple Determination (R^2): 0.56871990078176

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.43025793650801
25%-tile:	399.96126062406	1.399347889741
Median:	400.00431247669	4.565518278018
75%-tile:	402.72925148261	8.018181818182
Maximum:	402.72925148261	8.018181818182
Midrange:	400.07895587358	4.224219877345
Range:	5.3005912180544	7.587923881674
Interquartile Range:	2.7679908585473	6.618833928441
Median Abs. Deviation:	2.5756522121415	3.452663540164
Mean:	400.03087121198	3.6033264806123
Trim Mean (10%):	400.01484299144	3.3963620150347
Standard Deviation:	1.8747205725248	2.9724840757044
Variance:	3.5145772250477	8.8356615803164
Coef. of Variation:	0.0046864397411253	0.82492776929815
Coef. of Skewness:	0.076886159976531	0.42155870873127
Root Mean Square:	400.03526407035	4.6711479644942
Mean Square:	160028.21249984	21.819623306198

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 219.55641209978
Z 25%-tile: 222.46112579515
Z Median: 226.54574948684
Z 75%-tile: 228.89542522426
Z Maximum: 234.91554437864

Z Midrange: 227.23597823921
Z Range: 15.359132278859
Z Interquartile Range: 6.4342994291167
Z Median Abs. Deviation: 2.7936406604578

Z Mean: 225.82312076111
Z Trim Mean (10%): 225.79331448976
Z Standard Deviation: 3.6689174100288
Z Variance: 13.460954961612

Z Coef. of Variation: 0.016246863464038

Z Coef. of Skewness: -0.14481530175375

Z Root Mean Square: 225.8529229947

Z Mean Square: 51009.542825249

Gridding Report Acque_C2_Profondo_TOC

Fri Feb 25 17:25:01 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.167
25%-tile:	685820.6	4481697.1	1.333
Median:	686295.7	4482087	1.583
75%-tile:	686554.4	4482291.4	1.75
Maximum:	686954.1	4482509.1	2.417
Midrange:	686221.1	4481914.8	1.792
Range:	1466	1188.5999999996	1.25
Interquartile Range:	733.80000000005	594.30000000075	0.417
Median Abs. Deviation:	475.09999999998	389.90000000037	0.25
Mean:	686115.3625	4481925.25	1.573
Trim Mean (10%):	686080.11666667	4481928.7333333	1.5
Standard Deviation:	491.34506697814	368.36158526635	0.38514640073614
Variance:	241419.97484375	135690.25749994	0.14833775
Coef. of Variation:			0.24484831578902
Coef. of Skewness:			1.0082742912657

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.399
Y:		1.000	0.386
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-75.542950000002
Y:		135690.25749994	54.789187500081
Z:			0.14833775

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00026704442469755		0.00033974817591742
Standard Error:	-1337.9296463382	0.000305666128950260	0.000407717716662721875.8214371383

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.31029893265632	0.15514946632816	0.88515
Residual:	5	0.87640306734368	0.17528061346874	
Total:	7	1.186702		

Coefficient of Multiple Determination (R^2): 0.26148007895522

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0
25%-tile:	399.96126062406	0
Median:	400.00431247669	0.25
75%-tile:	402.72925148261	1
Maximum:	402.72925148261	1
Midrange:	400.07895587358	0.5
Range:	5.3005912180544	1
Interquartile Range:	2.7679908585473	1
Median Abs. Deviation:	2.5756522121415	0.25
Mean:	400.03087121198	0.3125
Trim Mean (10%):	400.01484299144	0.25
Standard Deviation:	1.8747205725248	0.40983990776887
Variance:	3.5145772250477	0.16796875
Coef. of Variation:	0.0046864397411253	1.3114877048604
Coef. of Skewness:	0.076886159976531	0.95754916255356
Root Mean Square:	400.03526407035	0.51538820320221
Mean Square:	160028.21249984	0.265625

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.1625965579468
Z 25%-tile: 1.3898036086954
Z Median: 1.5775279097007
Z 75%-tile: 1.6895030425027
Z Maximum: 2.388085476127

Z Midrange: 1.7753410170369
Z Range: 1.2254889181802
Z Interquartile Range: 0.29969943380731
Z Median Abs. Deviation: 0.14102907575056

Z Mean: 1.5579089248956
Z Trim Mean (10%): 1.5496614691543
Z Standard Deviation: 0.22310621862615
Z Variance: 0.049776384789662

Z Coef. of Variation: 0.1432087685364
Z Coef. of Skewness: 0.35513274451615

Z Root Mean Square: 1.5738032288247
Z Mean Square: 2.4768566030589

Gridding Report Acque_C2_Profondo_Zinco

Fri Feb 25 17:25:42 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 8

Original Data: 8

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	21.25
25%-tile:	685820.6	4481697.1	24.08
Median:	686295.7	4482087	28.67
75%-tile:	686554.4	4482291.4	33.25
Maximum:	686954.1	4482509.1	43.25
Midrange:	686221.1	4481914.8	32.25
Range:	1466	1188.5999999996	22
Interquartile Range:	733.80000000005	594.30000000075	9.17
Median Abs. Deviation:	475.09999999998	389.90000000037	4.59
Mean:	686115.3625	4481925.25	28.73875
Trim Mean (10%):	686080.11666667	4481928.7333333	27.568333333333
Standard Deviation:	491.34506697814	368.36158526635	6.739641009542
Variance:	241419.97484375	135690.25749994	45.4227609375
Coef. of Variation:			0.2345140623563
Coef. of Skewness:			0.98980994173363

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.627
Y:		1.000	-0.120
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	2076.9888281251
Y:		135690.25749994	-298.63431250033
Z:			45.4227609375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0085546510534729	-0.0001774095561037	-5045.6023794816
Standard Error:	0.0048518494339142	0.0064717179478814	29774.98098713

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	142.5694703931	71.284735196551	1.6141
Residual:	5	220.8126171069	44.16252342138	
Total:	7	363.3820875		

Coefficient of Multiple Determination (R^2): 0.39234039127782

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.83
25%-tile:	399.96126062406	4.59
Median:	400.00431247669	7.83
75%-tile:	402.72925148261	10
Maximum:	402.72925148261	10
Midrange:	400.07895587358	6.415
Range:	5.3005912180544	7.17
Interquartile Range:	2.7679908585473	5.41
Median Abs. Deviation:	2.5756522121415	3.24
Mean:	400.03087121198	6.3125
Trim Mean (10%):	400.01484299144	6.27833333333333
Standard Deviation:	1.8747205725248	2.7836700145671
Variance:	3.5145772250477	7.74881875
Coef. of Variation:	0.0046864397411253	0.44097742805023
Coef. of Skewness:	0.076886159976531	0.07290295954274
Root Mean Square:	400.03526407035	6.8990198579218
Mean Square:	160028.21249984	47.596475

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\P\ACQUE_C2_P_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 21.376315252679
Z 25%-tile: 25.915841572696
Z Median: 29.639776594885
Z 75%-tile: 33.401083312086
Z Maximum: 42.814762167516

Z Midrange: 32.095538710097
Z Range: 21.438446914836
Z Interquartile Range: 7.4852417393903
Z Median Abs. Deviation: 3.7568748145292

Z Mean: 29.886107548656
Z Trim Mean (10%): 29.825544838643
Z Standard Deviation: 4.1404628449489
Z Variance: 17.143432570403

Z Coef. of Variation: 0.13854138877765
Z Coef. of Skewness: 0.040101927962437

Z Root Mean Square: 30.171557085776
Z Mean Square: 910.32285698024

Gridding Report

Acque_C2_Superficiale_Idrocarburi_Totali

Fri Feb 25 17:19:22 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	29.53
25%-tile:	685820.6	4481697.1	31.14
Median:	686295.7	4482087	32.38
75%-tile:	686554.4	4482291.4	34.16
Maximum:	686954.1	4482509.1	38.27
Midrange:	686221.1	4481914.8	33.9
Range:	1466	1188.5999999996	8.74
Interquartile Range:	733.80000000005	594.30000000075	3.02
Median Abs. Deviation:	475.09999999998	389.90000000037	1.68
Mean:	686115.3625	4481925.25	32.58125
Trim Mean (10%):	686080.11666667	4481928.7333333	32.141666666667
Standard Deviation:	491.34506697814	368.36158526635	2.5313604914156
Variance:	241419.97484375	135690.25749994	6.4077859375
Coef. of Variation:			0.077693780668809

Coef. of Skewness:

1.1454344323184

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.190
Y:		1.000	-0.093
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-235.72807812501
Y:		135690.25749994	-86.647062499423
Z:			6.4077859375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0010946988976591	-0.0008943903906907	4792.2618562549
Standard Error:	0.0022756995784915	0.0030354787399551	13965.5841767

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2.6843453767469	1.3421726883735	0.13815
Residual:	5	48.577942123251	9.7155884246502	
Total:	7	51.262287499998		

Coefficient of Multiple Determination (R^2): 0.052364915957897

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.44
25%-tile:	399.96126062406	0.92
Median:	400.00431247669	4.63
75%-tile:	402.72925148261	5.26
Maximum:	402.72925148261	5.26
Midrange:	400.07895587358	2.85
Range:	5.3005912180544	4.82
Interquartile Range:	2.7679908585473	4.34
Median Abs. Deviation:	2.5756522121415	3.71
Mean:	400.03087121198	2.8125
Trim Mean (10%):	400.01484299144	2.8
Standard Deviation:	1.8747205725248	2.1508065347678
Variance:	3.5145772250477	4.62596875
Coef. of Variation:	0.0046864397411253	0.76473121236189
Coef. of Skewness:	0.076886159976531	0.013382292047893
Root Mean Square:	400.03526407035	3.5406390666093
Mean Square:	160028.21249984	12.536125

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 29.424418463881
Z 25%-tile: 31.143889603753
Z Median: 31.804328442352
Z 75%-tile: 32.252024873874
Z Maximum: 38.1482698537

Z Midrange: 33.78634415879
Z Range: 8.7238513898187
Z Interquartile Range: 1.1081352701212
Z Median Abs. Deviation: 0.5659955793234

Z Mean: 31.92609542733
Z Trim Mean (10%): 31.841384638331
Z Standard Deviation: 1.3463905147413
Z Variance: 1.8127674181853

Z Coef. of Variation: 0.042172100807189

Z Coef. of Skewness:	1.2260652714328
Z Root Mean Square:	31.954472873968
Z Mean Square:	1021.0883366531

Gridding Report

Acque_C2_Superficiale_Potenziale_Redox

Fri Feb 25 17:20:23 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	213.0132771164
25%-tile:	685820.6	4481697.1	214.08910533911
Median:	686295.7	4482087	217.3561896376
75%-tile:	686554.4	4482291.4	226.12310606061
Maximum:	686954.1	4482509.1	228.83152356902
Midrange:	686221.1	4481914.8	220.92240034271
Range:	1466	1188.5999999996	15.818246452622
Interquartile Range:	733.80000000005	594.30000000075	12.034000721501
Median Abs. Deviation:	475.09999999998	389.90000000037	3.893474690514
Mean:	686115.3625	4481925.25	218.73752064298
Trim Mean (10%):	686080.11666667	4481928.7333333	218.00922740973
Standard Deviation:	491.34506697814	368.36158526635	5.5360997328619
Variance:	241419.97484375	135690.25749994	30.648400252194
Coef. of Variation:			0.02530932835203

Coef. of Skewness:

0.72995335530873

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.870
Y:		1.000	-0.040
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	2365.5550961035
Y:		135690.25749994	-81.750003864543
Z:			30.648400252194

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.010003646796734	0.0017581162434672	-14524.663802476
Standard Error:	0.0024652529762554	0.0032883176095654	15128.841382296

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	188.17967016861	94.089835084305	8.2524
Residual:	5	57.007531848853	11.401506369771	
Total:	7	245.18720201746		

Coefficient of Multiple Determination (R^2): 0.76749385212695

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.449437830688
25%-tile:	399.96126062406	2.663158643973
Median:	400.00431247669	2.708417508418
75%-tile:	402.72925148261	2.915794853295
Maximum:	402.72925148261	2.915794853295
Midrange:	400.07895587358	1.6826163419915
Range:	5.3005912180544	2.466357022607
Interquartile Range:	2.7679908585473	0.25263620932196
Median Abs. Deviation:	2.5756522121415	0.20737734487699
Mean:	400.03087121198	2.1842022090935
Trim Mean (10%):	400.01484299144	2.3513974981275
Standard Deviation:	1.8747205725248	1.0060860042999
Variance:	3.5145772250477	1.0122090480482
Coef. of Variation:	0.0046864397411253	0.46061944270145
Coef. of Skewness:	0.076886159976531	-1.123147655822
Root Mean Square:	400.03526407035	2.4047761513823
Mean Square:	160028.21249984	5.7829483382571

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 212.94199855041
Z 25%-tile: 215.64067911519
Z Median: 218.6378245765
Z 75%-tile: 224.76863802481
Z Maximum: 228.78703311851

Z Midrange: 220.86451583446
Z Range: 15.845034568099
Z Interquartile Range: 9.1279589096224
Z Median Abs. Deviation: 4.3029329212092

Z Mean: 219.9178376645
Z Trim Mean (10%): 219.83314129781
Z Standard Deviation: 5.0311058230996
Z Variance: 25.312025803227

Z Coef. of Variation: 0.022877206671952

Z Coef. of Skewness: 0.27085083406453

Z Root Mean Square: 219.97537896054

Z Mean Square: 48389.167348835

Gridding Report Acque_C2_Superficiale_TOC

Fri Feb 25 17:21:01 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.498
25%-tile:	685820.6	4481697.1	1.559
Median:	686295.7	4482087	1.75
75%-tile:	686554.4	4482291.4	1.866
Maximum:	686954.1	4482509.1	1.918
Midrange:	686221.1	4481914.8	1.708
Range:	1466	1188.5999999996	0.42
Interquartile Range:	733.80000000005	594.30000000075	0.307
Median Abs. Deviation:	475.09999999998	389.90000000037	0.168
Mean:	686115.3625	4481925.25	1.71675
Trim Mean (10%):	686080.11666667	4481928.7333333	1.7196666666667
Standard Deviation:	491.34506697814	368.36158526635	0.15046158147514
Variance:	241419.97484375	135690.25749994	0.0226386875
Coef. of Variation:			0.087643268661797
Coef. of Skewness:			-0.15548104080886

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.150
Y:		1.000	0.400
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-11.095834374999
Y:		135690.25749994	22.181562500019
Z:			0.0226386875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-2.4988477885546E-005		0.00015711701405526
Standard Error:	-685.324983686	0.000126880264673140	0.00016924129598446778

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.030102386256711	0.015051193128356	0.49836
Residual:	5	0.15100711374329	0.030201422748657	
Total:	7	0.1811095		

Coefficient of Multiple Determination (R^2): 0.16621097323283

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.168
25%-tile:	399.96126062406	0.172
Median:	400.00431247669	0.296
75%-tile:	402.72925148261	0.368
Maximum:	402.72925148261	0.368
Midrange:	400.07895587358	0.268
Range:	5.3005912180544	0.2
Interquartile Range:	2.7679908585473	0.196
Median Abs. Deviation:	2.5756522121415	0.124
Mean:	400.03087121198	0.251
Trim Mean (10%):	400.01484299144	0.24533333333333
Standard Deviation:	1.8747205725248	0.084917607125967
Variance:	3.5145772250477	0.007211
Coef. of Variation:	0.0046864397411253	0.33831715986441
Coef. of Skewness:	0.076886159976531	0.25635721699508
Root Mean Square:	400.03526407035	0.26497547056284
Mean Square:	160028.21249984	0.070212

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.4985046887368
Z 25%-tile: 1.6067972693285
Z Median: 1.6689595792226
Z 75%-tile: 1.7675920274176
Z Maximum: 1.9159847064274

Z Midrange: 1.7072446975821
Z Range: 0.41748001769063
Z Interquartile Range: 0.16079475808909
Z Median Abs. Deviation: 0.074113852436598

Z Mean: 1.6852405317408
Z Trim Mean (10%): 1.684187016205
Z Standard Deviation: 0.10331826175168
Z Variance: 0.010674663211388

Z Coef. of Variation: 0.061307724212491
Z Coef. of Skewness: 0.25115059239684

Z Root Mean Square: 1.688404665071
Z Mean Square: 2.8507103130336

Gridding Report Acque_C2_Superficiale_Zinco

Fri Feb 25 17:21:47 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	20.28
25%-tile:	685820.6	4481697.1	25.18
Median:	686295.7	4482087	27.73
75%-tile:	686554.4	4482291.4	36.06
Maximum:	686954.1	4482509.1	45.82
Midrange:	686221.1	4481914.8	33.05
Range:	1466	1188.5999999996	25.54
Interquartile Range:	733.80000000005	594.30000000075	10.88
Median Abs. Deviation:	475.09999999998	389.90000000037	5.57
Mean:	686115.3625	4481925.25	29.335
Trim Mean (10%):	686080.11666667	4481928.7333333	28.096666666667
Standard Deviation:	491.34506697814	368.36158526635	7.8388679029564
Variance:	241419.97484375	135690.25749994	61.44785
Coef. of Variation:			0.26721895016044
Coef. of Skewness:			0.92340327189414

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.677
Y:		1.000	0.147
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	2607.5941875
Y:		135690.25749994	423.91124999942
Z:			61.44785

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.011546552802892	0.0058376263705744	-34056.737284019
Standard Error:	0.004961585517025	0.0066180911996221	30448.412805807

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	260.66882502158	130.33441251079	2.8221
Residual:	5	230.91397497843	46.182794995685	
Total:	7	491.5828		

Coefficient of Multiple Determination (R^2): 0.53026433191229

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	3.36
25%-tile:	399.96126062406	6.75
Median:	400.00431247669	7.45
75%-tile:	402.72925148261	9.76
Maximum:	402.72925148261	9.76
Midrange:	400.07895587358	6.56
Range:	5.3005912180544	6.4
Interquartile Range:	2.7679908585473	3.01
Median Abs. Deviation:	2.5756522121415	2.31
Mean:	400.03087121198	6.83
Trim Mean (10%):	400.01484299144	6.92
Standard Deviation:	1.8747205725248	2.2921932728284
Variance:	3.5145772250477	5.25415
Coef. of Variation:	0.0046864397411253	0.3356066285254
Coef. of Skewness:	0.076886159976531	-0.34023151218305
Root Mean Square:	400.03526407035	7.2043771417104
Mean Square:	160028.21249984	51.90305

Complete Spatial Randomness

Lambda:	4.5911374060869E-006
Clark and Evans:	1.7142874630939
Skellam:	36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C2\S\ACQUE_C2_S_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 20.495943107294
Z 25%-tile: 25.504433259404
Z Median: 28.654000387879
Z 75%-tile: 38.077194119875
Z Maximum: 45.761106087544

Z Midrange: 33.128524597419
Z Range: 25.26516298025
Z Interquartile Range: 12.572760860471
Z Median Abs. Deviation: 3.8870950320018

Z Mean: 31.737743945984
Z Trim Mean (10%): 31.437906368294
Z Standard Deviation: 7.140897063606
Z Variance: 50.992410873016

Z Coef. of Variation: 0.22499699650232
Z Coef. of Skewness: 0.61122455940338

Z Root Mean Square: 32.531166619933
Z Mean Square: 1058.2768016539

Gridding Report

Acque_C3_Profondo_Idrocarburi_Totali

Mon Feb 28 09:38:37 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_IDROCARBURI TOT.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 8

Original Data: 8

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	28.73
25%-tile:	685820.6	4481697.1	34.21
Median:	686295.7	4482087	35.17
75%-tile:	686554.4	4482291.4	39.71
Maximum:	686954.1	4482509.1	42.72
Midrange:	686221.1	4481914.8	35.725
Range:	1466	1188.5999999996	13.99
Interquartile Range:	733.80000000005	594.30000000075	5.5
Median Abs. Deviation:	475.09999999998	389.90000000037	4.39
Mean:	686115.3625	4481925.25	36.0875
Trim Mean (10%):	686080.11666667	4481928.7333333	36.208333333333
Standard Deviation:	491.34506697814	368.36158526635	4.098010950449
Variance:	241419.97484375	135690.25749994	16.79369375
Coef. of Variation:			0.11355762938549

Coef. of Skewness:

-0.068059842439214

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.675
Y:		1.000	0.019
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-1358.31334375
Y:		135690.25749994	29.417625000454
Z:			16.79369375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0057630436833859	-0.0011424606048468	9110.6233325804
Standard Error:	0.0027704414399704	0.0036953981847178	17001.731468515

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	62.353742942843	31.176871471422	2.1652
Residual:	5	71.995807057152	14.39916141143	
Total:	7	134.34955		

Coefficient of Multiple Determination (R^2): 0.46411575582386

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.76
25%-tile:	399.96126062406	4.54
Median:	400.00431247669	8.51
75%-tile:	402.72925148261	10.83
Maximum:	402.72925148261	10.83
Midrange:	400.07895587358	5.795
Range:	5.3005912180544	10.07
Interquartile Range:	2.7679908585473	6.29
Median Abs. Deviation:	2.5756522121415	3.97
Mean:	400.03087121198	6.16
Trim Mean (10%):	400.01484299144	6.2816666666667
Standard Deviation:	1.8747205725248	3.8443399953698
Variance:	3.5145772250477	14.77895
Coef. of Variation:	0.0046864397411253	0.62408116807952
Coef. of Skewness:	0.076886159976531	-0.20632682975952
Root Mean Square:	400.03526407035	7.2611672615358
Mean Square:	160028.21249984	52.72455

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_IDROCARBURI TOT.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 28.725093792183
Z 25%-tile: 32.51844672341
Z Median: 35.677643175632
Z 75%-tile: 38.928005781903
Z Maximum: 43.065351368381

Z Midrange: 35.895222580282
Z Range: 14.340257576198
Z Interquartile Range: 6.4095590584934
Z Median Abs. Deviation: 3.2021615173333

Z Mean: 35.732963316542
Z Trim Mean (10%): 35.718816184143
Z Standard Deviation: 3.9889311139303
Z Variance: 15.911571431681

Z Coef. of Variation: 0.11163169084506

Z Coef. of Skewness: 0.058986939324458

Z Root Mean Square: 35.954919535622

Z Mean Square: 1292.756238813

Gridding Report

Acque_C3_Profondo_Potenziale_Redox

Mon Feb 28 09:39:27 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	218.4875
25%-tile:	685820.6	4481697.1	228.211111111111
Median:	686295.7	4482087	230.300656565656
75%-tile:	686554.4	4482291.4	234.681313131313
Maximum:	686954.1	4482509.1	235.4773989899
Midrange:	686221.1	4481914.8	226.98244949495
Range:	1466	1188.59999999996	16.989898989899
Interquartile Range:	733.80000000005	594.30000000075	6.470202020202
Median Abs. Deviation:	475.09999999998	389.90000000037	4.380656565656
Mean:	686115.3625	4481925.25	228.76261753871
Trim Mean (10%):	686080.11666667	4481928.7333333	229.35600688663
Standard Deviation:	491.34506697814	368.36158526635	5.4932046614959
Variance:	241419.97484375	135690.25749994	30.17529745308
Coef. of Variation:			0.024012684942138

Coef. of Skewness:

-0.65723991275084

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.763
Y:		1.000	-0.431
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	2058.8095432283
Y:		135690.25749994	-871.55724674255
Z:			30.17529745308

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0078994040316912	-0.0045420555538688	15166.013646379
Standard Error:	0.0029130261533075	0.0038855871139017	17876.749786065

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	161.80513715395	80.902568576974	5.082
Residual:	5	79.597242470714	15.919448494143	
Total:	7	241.40237962466		

Coefficient of Multiple Determination (R^2): 0.6702715085308

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.796085858586
25%-tile:	399.96126062406	0.81947746697702
Median:	400.00431247669	1.651172438672
75%-tile:	402.72925148261	3.473042929293
Maximum:	402.72925148261	3.473042929293
Midrange:	400.07895587358	2.1345643939395
Range:	5.3005912180544	2.676957070707
Interquartile Range:	2.7679908585473	2.653565462316
Median Abs. Deviation:	2.5756522121415	0.85508658008601
Mean:	400.03087121198	1.684944673382
Trim Mean (10%):	400.01484299144	1.5350714331962
Standard Deviation:	1.8747205725248	1.0882944701036
Variance:	3.5145772250477	1.1843848536581
Coef. of Variation:	0.0046864397411253	0.64589329685181
Coef. of Skewness:	0.076886159976531	0.84690698389028
Root Mean Square:	400.03526407035	2.0058473037638
Mean Square:	160028.21249984	4.0234234060165

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 218.64706582238
Z 25%-tile: 225.54510673038
Z Median: 229.97935189926
Z 75%-tile: 233.0670923537
Z Maximum: 235.45965303029

Z Midrange: 227.05335942634
Z Range: 16.812587207903
Z Interquartile Range: 7.5219856233179
Z Median Abs. Deviation: 3.5027319414069

Z Mean: 229.13183124491
Z Trim Mean (10%): 229.24957906412
Z Standard Deviation: 4.406872216764
Z Variance: 19.420522734887

Z Coef. of Variation: 0.01923291143278

Z Coef. of Skewness: -0.38764108211252

Z Root Mean Square: 229.17420581815

Z Mean Square: 52520.816612379

Gridding Report Acque_C3_Profondo_TOC

Mon Feb 28 09:40:15 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_TOC.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 8

Original Data: 8

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.083
25%-tile:	685820.6	4481697.1	1.667
Median:	686295.7	4482087	2.333
75%-tile:	686554.4	4482291.4	2.5
Maximum:	686954.1	4482509.1	3.167
Midrange:	686221.1	4481914.8	2.125
Range:	1466	1188.5999999996	2.084
Interquartile Range:	733.80000000005	594.30000000075	0.833
Median Abs. Deviation:	475.09999999998	389.90000000037	0.666
Mean:	686115.3625	4481925.25	2.0105
Trim Mean (10%):	686080.11666667	4481928.7333333	1.9723333333333
Standard Deviation:	491.34506697814	368.36158526635	0.67118849811361
Variance:	241419.97484375	135690.25749994	0.450494
Coef. of Variation:			0.33384158075783
Coef. of Skewness:			0.12756571410961

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.228
Y:		1.000	-0.016
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	75.268043750001
Y:		135690.25749994	-3.8746624999146
Z:			0.450494

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.000317150370432854	6.276666746403E-005	-422.99980225668
Standard Error:	0.000603327741743420	0.000804758479808333	702.5205097773

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.18954061934443	0.094770309672217	0.13878
Residual:	5	3.4144113806556	0.68288227613111	
Total:	7	3.603952		

Coefficient of Multiple Determination (R^2): 0.052592437231249

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.167
25%-tile:	399.96126062406	0.667
Median:	400.00431247669	1.25
75%-tile:	402.72925148261	1.5
Maximum:	402.72925148261	1.5
Midrange:	400.07895587358	0.8335
Range:	5.3005912180544	1.333
Interquartile Range:	2.7679908585473	0.833
Median Abs. Deviation:	2.5756522121415	0.583
Mean:	400.03087121198	0.896
Trim Mean (10%):	400.01484299144	0.916833333333333
Standard Deviation:	1.8747205725248	0.5181732335812
Variance:	3.5145772250477	0.2685035
Coef. of Variation:	0.0046864397411253	0.57831834105045
Coef. of Skewness:	0.076886159976531	-0.24207120185721
Root Mean Square:	400.03526407035	1.0350456511671
Mean Square:	160028.21249984	1.0713195

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.105739057817
Z 25%-tile: 1.8551174277899
Z Median: 2.1727297134558
Z 75%-tile: 2.4488255132908
Z Maximum: 3.1610927768828

Z Midrange: 2.1334159173499
Z Range: 2.0553537190658
Z Interquartile Range: 0.59370808550097
Z Median Abs. Deviation: 0.30054658782301

Z Mean: 2.1673955945915
Z Trim Mean (10%): 2.1656125947773
Z Standard Deviation: 0.47736445278039
Z Variance: 0.22787682077832

Z Coef. of Variation: 0.22024795748944
Z Coef. of Skewness: 0.065585203901868

Z Root Mean Square: 2.2193423539943
Z Mean Square: 4.9254804842329

Gridding Report Acque_C3_Profondo_Zinco

Mon Feb 28 09:40:54 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 8

Original Data: 8

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	26.75
25%-tile:	685820.6	4481697.1	32
Median:	686295.7	4482087	32.75
75%-tile:	686554.4	4482291.4	33
Maximum:	686954.1	4482509.1	35.33
Midrange:	686221.1	4481914.8	31.04
Range:	1466	1188.5999999996	8.58
Interquartile Range:	733.80000000005	594.30000000075	1
Median Abs. Deviation:	475.09999999998	389.90000000037	0.75
Mean:	686115.3625	4481925.25	31.4775
Trim Mean (10%):	686080.11666667	4481928.7333333	31.623333333333
Standard Deviation:	491.34506697814	368.36158526635	2.862615718185
Variance:	241419.97484375	135690.25749994	8.19456875
Coef. of Variation:			0.090941647786039
Coef. of Skewness:			-0.74620296331263

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.525
Y:		1.000	-0.274
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	738.24040625003
Y:		135690.25749994	-289.25224999993
Z:			8.19456875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0028557857609011	-0.0014520064856607	4579.8635537488
Standard Error:	0.0021982883451857	0.0029322225126593	13490.524504865

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	20.227296212419	10.113648106209	1.1156
Residual:	5	45.329253787581	9.0658507575163	
Total:	7	65.55655		

Coefficient of Multiple Determination (R^2): 0.30854729561606

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.75
25%-tile:	399.96126062406	3
Median:	400.00431247669	6
75%-tile:	402.72925148261	6.25
Maximum:	402.72925148261	6.25
Midrange:	400.07895587358	3.5
Range:	5.3005912180544	5.5
Interquartile Range:	2.7679908585473	3.25
Median Abs. Deviation:	2.5756522121415	3
Mean:	400.03087121198	4
Trim Mean (10%):	400.01484299144	4.1666666666667
Standard Deviation:	1.8747205725248	2.2707377655731
Variance:	3.5145772250477	5.15625
Coef. of Variation:	0.0046864397411253	0.56768444139328
Coef. of Skewness:	0.076886159976531	-0.34029789103906
Root Mean Square:	400.03526407035	4.5995923732435
Mean Square:	160028.21249984	21.15625

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\P\ACQUE_C3_P_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 26.800397754688
Z 25%-tile: 30.791400856288
Z Median: 32.33998435758
Z 75%-tile: 32.853948496125
Z Maximum: 35.211717615574

Z Midrange: 31.006057685131
Z Range: 8.4113198608864
Z Interquartile Range: 2.0625476398368
Z Median Abs. Deviation: 0.67192562726978

Z Mean: 31.634695409672
Z Trim Mean (10%): 31.741441140099
Z Standard Deviation: 1.8039089533381
Z Variance: 3.2540875119335

Z Coef. of Variation: 0.057023117497335
Z Coef. of Skewness: -1.1049724930319

Z Root Mean Square: 31.686085923867
Z Mean Square: 1004.0080411747

Gridding Report

Acque_C3_Superficiale_Idrocarburi_Totali

Fri Feb 25 17:27:10 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_IDROCARBURI TOT.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	28.73
25%-tile:	685820.6	4481697.1	33.06
Median:	686295.7	4482087	37.46
75%-tile:	686554.4	4482291.4	43.95
Maximum:	686954.1	4482509.1	49.76
Midrange:	686221.1	4481914.8	39.245
Range:	1466	1188.5999999996	21.03
Interquartile Range:	733.80000000005	594.30000000075	10.89
Median Abs. Deviation:	475.09999999998	389.90000000037	5.17
Mean:	686115.3625	4481925.25	37.45375
Trim Mean (10%):	686080.11666667	4481928.7333333	36.856666666667
Standard Deviation:	491.34506697814	368.36158526635	6.3025608634507
Variance:	241419.97484375	135690.25749994	39.7222734375
Coef. of Variation:			0.16827582988221

Coef. of Skewness:

0.62406048206222

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.459
Y:		1.000	-0.058
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-1421.069109375
Y:		135690.25749994	-134.67431250023
Z:			39.7222734375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0061930008065971	-0.0024507959546886	15270.851007188
Standard Error:	0.0051079088147488	0.0068132669001402	31346.374184667

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	73.043501157577	36.521750578789	0.74615
Residual:	5	244.73468634242	48.946937268483	
Total:	7	317.77818749999		

Coefficient of Multiple Determination (R^2): 0.22985687511223

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	5.11
25%-tile:	399.96126062406	5.17
Median:	400.00431247669	13.55
75%-tile:	402.72925148261	15.22
Maximum:	402.72925148261	15.22
Midrange:	400.07895587358	10.165
Range:	5.3005912180544	10.11
Interquartile Range:	2.7679908585473	10.05
Median Abs. Deviation:	2.5756522121415	8.38
Mean:	400.03087121198	9.7625
Trim Mean (10%):	400.01484299144	9.62833333333333
Standard Deviation:	1.8747205725248	4.6601039419738
Variance:	3.5145772250477	21.71656875
Coef. of Variation:	0.0046864397411253	0.47734739482446
Coef. of Skewness:	0.076886159976531	0.047708235675193
Root Mean Square:	400.03526407035	10.817715794011
Mean Square:	160028.21249984	117.022975

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_IDROCARBURI TOT.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 28.922773424222
Z 25%-tile: 34.904304369825
Z Median: 36.646453064489
Z 75%-tile: 42.231307683991
Z Maximum: 50.10648012214

Z Midrange: 39.514626773181
Z Range: 21.183706697917
Z Interquartile Range: 7.3270033141657
Z Median Abs. Deviation: 2.2547034201214

Z Mean: 38.47101114808
Z Trim Mean (10%): 38.247510341577
Z Standard Deviation: 5.1970658863659
Z Variance: 27.009493827228

Z Coef. of Variation: 0.13509044164089

Z Coef. of Skewness:	0.84745000048707
Z Root Mean Square:	38.820461004256
Z Mean Square:	1507.028192583

Gridding Report

Acque_C3_Superficiale_Potenziale_Redox

Fri Feb 25 17:27:56 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_REDOX.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	210.99277777778
25%-tile:	685820.6	4481697.1	218.59466726084
Median:	686295.7	4482087	222.69042207792
75%-tile:	686554.4	4482291.4	226.20551948052
Maximum:	686954.1	4482509.1	227.87146464647
Midrange:	686221.1	4481914.8	219.43212121212
Range:	1466	1188.59999999996	16.878686868687
Interquartile Range:	733.80000000005	594.30000000075	7.610852219675
Median Abs. Deviation:	475.09999999998	389.90000000037	4.095754817078
Mean:	686115.3625	4481925.25	220.93157231453
Trim Mean (10%):	686080.11666667	4481928.7333333	221.43138934867
Standard Deviation:	491.34506697814	368.36158526635	5.3015728551151
Variance:	241419.97484375	135690.25749994	28.106674738093
Coef. of Variation:			0.023996447404844

Coef. of Skewness:

-0.54237191561162

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	0.555
Y:		1.000	-0.310
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	1444.8403484189
Y:		135690.25749994	-605.86681852302
Z:			28.106674738093

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0055439945716974	-0.0031422580476115	10500.477418146
Standard Error:	0.003938895483832	0.0052539595353806	24172.336701466

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	79.321507928544	39.660753964272	1.3626
Residual:	5	145.53188997624	29.106377995247	
Total:	7	224.85339790478		

Coefficient of Multiple Determination (R^2): 0.35276988770316

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	1.441720779221
25%-tile:	399.96126062406	1.665945165946
Median:	400.00431247669	2.995033316357
75%-tile:	402.72925148261	4.383106060606
Maximum:	402.72925148261	4.383106060606
Midrange:	400.07895587358	2.9124134199135
Range:	5.3005912180544	2.941385281385
Interquartile Range:	2.7679908585473	2.71716089466
Median Abs. Deviation:	2.5756522121415	1.388072744249
Mean:	400.03087121198	2.6214513305325
Trim Mean (10%):	400.01484299144	2.5244639674055
Standard Deviation:	1.8747205725248	1.1776827981659
Variance:	3.5145772250477	1.3869367730959
Coef. of Variation:	0.0046864397411253	0.44924839322753
Coef. of Skewness:	0.076886159976531	0.45994275809571
Root Mean Square:	400.03526407035	2.8738378262258
Mean Square:	160028.21249984	8.2589438514465

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_REDOX.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 211.20017699094
Z 25%-tile: 219.06585631952
Z Median: 222.1116911247
Z 75%-tile: 224.09551436742
Z Maximum: 227.81363479542

Z Midrange: 219.50690589318
Z Range: 16.613457804478
Z Interquartile Range: 5.0296580478943
Z Median Abs. Deviation: 2.4341417325573

Z Mean: 221.44694323601
Z Trim Mean (10%): 221.55380346985
Z Standard Deviation: 3.6447469494663
Z Variance: 13.284180325644

Z Coef. of Variation: 0.016458781937585

Z Coef. of Skewness: -0.44950547322629

Z Root Mean Square: 221.47693525263

Z Mean Square: 49052.032848897

Gridding Report Acque_C3_Superficiale_TOC

Fri Feb 25 17:28:36 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_TOC.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.359
25%-tile:	685820.6	4481697.1	1.413
Median:	686295.7	4482087	1.453
75%-tile:	686554.4	4482291.4	1.483
Maximum:	686954.1	4482509.1	1.657
Midrange:	686221.1	4481914.8	1.508
Range:	1466	1188.5999999996	0.298
Interquartile Range:	733.80000000005	594.30000000075	0.07
Median Abs. Deviation:	475.09999999998	389.90000000037	0.04
Mean:	686115.3625	4481925.25	1.456625
Trim Mean (10%):	686080.11666667	4481928.7333333	1.4395
Standard Deviation:	491.34506697814	368.36158526635	0.086124818577458
Variance:	241419.97484375	135690.25749994	0.007417484375
Coef. of Variation:			0.05912628066761
Coef. of Skewness:			1.2866728957834

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.148
Y:		1.000	-0.589
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-6.2613265624993
Y:		135690.25749994	-18.681006249997
Z:			0.007417484375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-4.540790423196E-005		-0.00014802653239415
Standard Error:	6.1036698504021E-005		8.1414788848719E-005

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.024394369759491	0.012197184879746	1.7452
Residual:	5	0.034945505240508	0.0069891010481015	
Total:	7	0.059339874999999		

Coefficient of Multiple Determination (R^2): 0.41109573890224

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	0.006
25%-tile:	399.96126062406	0.021
Median:	400.00431247669	0.054
75%-tile:	402.72925148261	0.278
Maximum:	402.72925148261	0.278
Midrange:	400.07895587358	0.142
Range:	5.3005912180544	0.272
Interquartile Range:	2.7679908585473	0.257
Median Abs. Deviation:	2.5756522121415	0.048
Mean:	400.03087121198	0.08975
Trim Mean (10%):	400.01484299144	0.0723333333333333
Standard Deviation:	1.8747205725248	0.11006446974387
Variance:	3.5145772250477	0.0121141875
Coef. of Variation:	0.0046864397411253	1.2263450667841
Coef. of Skewness:	0.076886159976531	1.0712081442645
Root Mean Square:	400.03526407035	0.14201848471238
Mean Square:	160028.21249984	0.02016925

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_TOC.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.3594885740509
Z 25%-tile: 1.4065847498945
Z Median: 1.4477134111305
Z 75%-tile: 1.4903800545477
Z Maximum: 1.6563492287765

Z Midrange: 1.5079189014137
Z Range: 0.29686065472569
Z Interquartile Range: 0.083795304653155
Z Median Abs. Deviation: 0.041579390734159

Z Mean: 1.4644311299743
Z Trim Mean (10%): 1.4592825441808
Z Standard Deviation: 0.075485789340698
Z Variance: 0.0056981043923882

Z Coef. of Variation: 0.051546151809832
Z Coef. of Skewness: 1.0788731578969

Z Root Mean Square: 1.4663753403648
Z Mean Square: 2.1502566388301

Gridding Report Acque_C3_Superficiale_Zinco

Fri Feb 25 17:29:17 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 8
Original Data: 8
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	23.29
25%-tile:	685820.6	4481697.1	26.2
Median:	686295.7	4482087	31.3
75%-tile:	686554.4	4482291.4	36.42
Maximum:	686954.1	4482509.1	46.65
Midrange:	686221.1	4481914.8	34.97
Range:	1466	1188.5999999996	23.36
Interquartile Range:	733.80000000005	594.30000000075	10.22
Median Abs. Deviation:	475.09999999998	389.90000000037	5.12
Mean:	686115.3625	4481925.25	31.66875
Trim Mean (10%):	686080.11666667	4481928.7333333	30.568333333333
Standard Deviation:	491.34506697814	368.36158526635	7.0051239059349
Variance:	241419.97484375	135690.25749994	49.0717609375
Coef. of Variation:			0.22119988651067
Coef. of Skewness:			0.92641289726287

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.177	-0.188
Y:		1.000	-0.142
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	241419.97484375	-31990.969375075	-648.23817187503
Y:		135690.25749994	-365.15131250015
Z:			49.0717609375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0031304985372108	-0.0034220692337503	17517.010392803
Standard Error:	0.0062494186601519	0.0083358882953015	38351.627419841

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.177	-0.284
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	26.23058382971	13.115291914855	0.179
Residual:	5	366.34350367029	73.268700734058	
Total:	7	392.5740875		

Coefficient of Multiple Determination (R^2): 0.066816900719943

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	397.42866026455	2.31
25%-tile:	399.96126062406	8.26
Median:	400.00431247669	10.22
75%-tile:	402.72925148261	23.36
Maximum:	402.72925148261	23.36
Midrange:	400.07895587358	12.835
Range:	5.3005912180544	21.05
Interquartile Range:	2.7679908585473	15.1
Median Abs. Deviation:	2.5756522121415	7.91
Mean:	400.03087121198	11.0375
Trim Mean (10%):	400.01484299144	10.438333333333
Standard Deviation:	1.8747205725248	7.6875886173754
Variance:	3.5145772250477	59.09901875
Coef. of Variation:	0.0046864397411253	0.69649726997739
Coef. of Skewness:	0.076886159976531	0.65170688423091
Root Mean Square:	400.03526407035	13.450852203485
Mean Square:	160028.21249984	180.925425

Complete Spatial Randomness

Lambda: 4.5911374060869E-006
Clark and Evans: 1.7142874630939
Skellam: 36.93062863969

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\ACQUE\DAT\C3\S\ACQUE_C3_S_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 23.614033305609
Z 25%-tile: 29.943182597475
Z Median: 32.137369014977
Z 75%-tile: 34.823285131754
Z Maximum: 46.51012917203

Z Midrange: 35.062081238819
Z Range: 22.896095866421
Z Interquartile Range: 4.8801025342796
Z Median Abs. Deviation: 2.3919676265703

Z Mean: 33.134270580227
Z Trim Mean (10%): 32.831250069879
Z Standard Deviation: 4.7085625883124
Z Variance: 22.170561648055

Z Coef. of Variation: 0.1421055151014
Z Coef. of Skewness: 1.1162394063967

Z Root Mean Square: 33.467154771981
Z Mean Square: 1120.0504485317

Gridding Report Sedimenti_AO1_Coliformi_totali

Thu Feb 24 17:19:00 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_AO1_COLIFORMI TOTALI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	10.5
25%-tile:	685529.5	4481572.4	37.7
Median:	686438.4	4482102.6	49.6
75%-tile:	686954.1	4482509.1	93.3
Maximum:	686954.1	4482509.1	93.3
Midrange:	686221.1	4481914.8	51.9
Range:	1466	1188.5999999996	82.8
Interquartile Range:	1424.6	936.69999999925	55.6
Median Abs. Deviation:	908.90000000002	530.19999999925	39.1
Mean:	686102.525	4481876.15	47.775
Trim Mean (10%):	685983.95	4481837.5	43.65
Standard Deviation:	621.26236959517	461.76733589524	29.861293927089
Variance:	385966.931875	213229.07249978	891.696875
Coef. of Variation:			0.62504016592546
Coef. of Skewness:			0.39005474715723

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.613
Y:		1.000	-0.823
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	11380.188125
Y:		213229.07249978	-11353.906249998
Z:			891.696875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.022882858209983	-0.047258226126843	196153.3049047
Standard Error:	0.015871793745325	0.021353931894618	98270.726361898

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	3187.9321366588	1593.9660683294	4.2073
Residual:	1	378.8553633412	378.8553633412	
Total:	3	3566.7875		

Coefficient of Multiple Determination (R^2): 0.89378246858239

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	27.2
25%-tile:	936.81743151981	27.2
Median:	937.61444634701	43.7
75%-tile:	937.61444634701	43.7
Maximum:	937.61444634701	43.7
Midrange:	937.21593893341	35.45
Range:	0.79701482720043	16.5
Interquartile Range:	0.79701482720043	16.5
Median Abs. Deviation:	0.79701482720043	16.5
Mean:	937.21593893341	35.45
Trim Mean (10%):	937.21593893341	35.45
Standard Deviation:	0.39850741360021	8.25
Variance:	0.15880815869433	68.0625
Coef. of Variation:	0.000425203410490150.2327221438646	
Coef. of Skewness:	0	1.3160176000276E-015
Root Mean Square:	937.21602365676	36.39732133001
Mean Square:	878373.87499899	1324.765

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\SEDIMENTI_A01_COLIFORMI TOTALI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 8.3544076274286
Z 25%-tile: 28.692235282596
Z Median: 43.119439441729
Z 75%-tile: 63.185519627037
Z Maximum: 92.999010327487

Z Midrange: 50.676708977458
Z Range: 84.644602700058
Z Interquartile Range: 34.49328434444
Z Median Abs. Deviation: 16.747093174126

Z Mean: 45.907510884098
Z Trim Mean (10%): 45.533653933094
Z Standard Deviation: 22.708274825253
Z Variance: 515.66574553921

Z Coef. of Variation: 0.49465271342164
Z Coef. of Skewness: 0.26342507504816

Z Root Mean Square: 51.216845872357
Z Mean Square: 2623.1653011128

Gridding Report Sedimenti_AO1_Diossine_e_Furani

Thu Feb 24 17:21:59 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_AO1_DIOSSINE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	1.35E-006
25%-tile:	685529.5	4481572.4	1.7E-006
Median:	686438.4	4482102.6	2.45E-006
75%-tile:	686954.1	4482509.1	2.65E-006
Maximum:	686954.1	4482509.1	2.65E-006
Midrange:	686221.1	4481914.8	2E-006
Range:	1466	1188.5999999996	1.3E-006
Interquartile Range:	1424.6	936.69999999925	9.5E-007
Median Abs. Deviation:	908.90000000002	530.19999999925	7.5E-007
Mean:	686102.525	4481876.15	2.0375E-006
Trim Mean (10%):	685983.95	4481837.5	2.075E-006
Standard Deviation:	621.26236959517	461.76733589524	5.3194807077383E-007
Variance:	385966.931875	213229.07249978	2.8296875E-013
Coef. of Variation:			0.26107880774176
Coef. of Skewness:			-0.10533467788368

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.887
Y:		1.000	-0.590
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	0.00029320281250001
Y:		213229.07249978	-0.00014489062500001
Z:			2.8296875E-013

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	6.8561368136039E-010		-5.0680610098123E-010
Standard Error:	1.5042732994499E-010		2.0238512484958E-010

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	1.0978439843033E-012		
		5.4892199215164E-013	16.13	
Residual:	1	3.4031015696727E-014		
		3.4031015696727E-014		
Total:	3	1.131875E-012		

Coefficient of Multiple Determination (R^2): 0.9699339452707

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	2E-007
25%-tile:	936.81743151981	2E-007
Median:	937.61444634701	3.5E-007
75%-tile:	937.61444634701	3.5E-007
Maximum:	937.61444634701	3.5E-007
Midrange:	937.21593893341	2.75E-007
Range:	0.79701482720043	1.5E-007
Interquartile Range:	0.79701482720043	1.5E-007
Median Abs. Deviation:	0.79701482720043	1.5E-007
Mean:	937.21593893341	2.75E-007
Trim Mean (10%):	937.21593893341	2.75E-007
Standard Deviation:	0.39850741360021	7.5E-008
Variance:	0.15880815869433	5.625E-015
Coef. of Variation:	0.000425203410490150.27272727272727	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	2.8504385627478E-007
Mean Square:	878373.87499899	8.125E-014

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_A01_DIOSSINE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.3203166914374E-006
Z 25%-tile: 1.6839739614062E-006
Z Median: 2.0859965726966E-006
Z 75%-tile: 2.4403082117741E-006
Z Maximum: 2.7000509057806E-006

Z Midrange: 2.010183798609E-006
Z Range: 1.3797342143432E-006
Z Interquartile Range: 7.5633425036787E-007
Z Median Abs. Deviation: 3.7758940189515E-007

Z Mean: 2.056648928825E-006
Z Trim Mean (10%): 2.061586152189E-006
Z Standard Deviation: 4.2751748999119E-007
Z Variance: 1.8277120424837E-013

Z Coef. of Variation: 0.2078709127257

Z Coef. of Skewness: -0.12269841331373
Z Root Mean Square: 2.100613248717E-006
Z Mean Square: 4.4125760206856E-012

Gridding Report Sedimenti_AO1_Idrocarburi_C>12

Thu Feb 24 17:30:09 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_A01_IDROCARBURI_12.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	39
25%-tile:	685529.5	4481572.4	57.625
Median:	686438.4	4482102.6	76
75%-tile:	686954.1	4482509.1	88.25
Maximum:	686954.1	4482509.1	88.25
Midrange:	686221.1	4481914.8	63.625
Range:	1466	1188.5999999996	49.25
Interquartile Range:	1424.6	936.69999999925	30.625
Median Abs. Deviation:	908.90000000002	530.19999999925	18.375
Mean:	686102.525	4481876.15	65.21875
Trim Mean (10%):	685983.95	4481837.5	66.8125
Standard Deviation:	621.26236959517	461.76733589524	18.653161385875
Variance:	385966.931875	213229.07249978	347.9404296875
Coef. of Variation:			0.28600918272544
Coef. of Skewness:			-0.1922686011892

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.790
Y:		1.000	-0.209
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	9151.6132812501
Y:		213229.07249978	-1799.6046875027
Z:			347.9404296875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.023172910093878	-0.002709836682599	-3688.6208852255
Standard Error:	0.018665315429088	0.025112339591843	115566.90657794

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	867.80901645496	433.90450822748	0.82814
Residual:	1	523.95270229504	523.95270229504	
Total:	3	1391.76171875		

Coefficient of Multiple Determination (R^2): 0.62353275331813

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	12.25
25%-tile:	936.81743151981	12.25
Median:	937.61444634701	18.625
75%-tile:	937.61444634701	18.625
Maximum:	937.61444634701	18.625
Midrange:	937.21593893341	15.4375
Range:	0.79701482720043	6.375
Interquartile Range:	0.79701482720043	6.375
Median Abs. Deviation:	0.79701482720043	6.375
Mean:	937.21593893341	15.4375
Trim Mean (10%):	937.21593893341	15.4375
Standard Deviation:	0.39850741360021	3.1875
Variance:	0.15880815869433	10.16015625
Coef. of Variation:	0.000425203410490150	20647773279352
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	15.763139360546
Mean Square:	878373.87499899	248.4765625

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\SEDIMENTI_A01_IDROCARBURI_12.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 39.09570837069
Z 25%-tile: 55.753705336232
Z Median: 68.277670128979
Z 75%-tile: 77.426257579477
Z Maximum: 88.115670262398

Z Midrange: 63.605689316544
Z Range: 49.019961891708
Z Interquartile Range: 21.672552243245
Z Median Abs. Deviation: 10.77770152996

Z Mean: 66.573945448865
Z Trim Mean (10%): 66.844289408034
Z Standard Deviation: 13.551390032564
Z Variance: 183.64017181467

Z Coef. of Variation: 0.20355395705025
Z Coef. of Skewness: -0.24949917129074

Z Root Mean Square: 67.939166792382
Z Mean Square: 4615.7303844431

Gridding Report Sedimenti_AO1_IPA

Thu Feb 24 17:31:27 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_AO1_IPA.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.830525
25%-tile:	685529.5	4481572.4	1.3279
Median:	686438.4	4482102.6	2.15075
75%-tile:	686954.1	4482509.1	29.0642
Maximum:	686954.1	4482509.1	29.0642
Midrange:	686221.1	4481914.8	14.9473625
Range:	1466	1188.5999999996	28.233675
Interquartile Range:	1424.6	936.69999999925	27.7363
Median Abs. Deviation:	908.90000000002	530.19999999925	1.320225
Mean:	686102.525	4481876.15	8.34334375
Trim Mean (10%):	685983.95	4481837.5	1.739325
Standard Deviation:	621.26236959517	461.76733589524	11.972478833407
Variance:	385966.931875	213229.07249978	143.34024941637
Coef. of Variation:			1.4349736978542
Coef. of Skewness:			1.1493521496598

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.346
Y:		1.000	-0.682
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	2575.4141401564
Y:		213229.07249978	-3768.565764062
Z:			143.34024941637

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0043980440721348	-0.016467790983748	70797.433854144
Standard Error:	0.013640303806795	0.018351682436523	84454.383946712

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	293.54695623106	146.77347811553	0.52454
Residual:	1	279.81404143441	279.81404143441	
Total:	3	573.36099766547		

Coefficient of Multiple Determination (R^2): 0.51197580132985

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.497375
25%-tile:	936.81743151981	0.497375
Median:	937.61444634701	26.91345
75%-tile:	937.61444634701	26.91345
Maximum:	937.61444634701	26.91345
Midrange:	937.21593893341	13.7054125
Range:	0.79701482720043	26.416075
Interquartile Range:	0.79701482720043	26.416075
Median Abs. Deviation:	0.79701482720043	26.416075
Mean:	937.21593893341	13.7054125
Trim Mean (10%):	937.21593893341	13.7054125
Standard Deviation:	0.39850741360021	13.2080375
Variance:	0.15880815869433	174.45225460141
Coef. of Variation:	0.000425203410490150.96370959283422	
Coef. of Skewness:	0	-1.9735825560335E-016
Root Mean Square:	937.21602365676	19.033932499527
Mean Square:	878373.87499899	362.29058639656

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\SEDIMENTI_A01_IPA.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: -0.90207906862663
Z 25%-tile: 1.0115070485657
Z Median: 3.5646201898312
Z 75%-tile: 12.048681506619
Z Maximum: 28.897772506928

Z Midrange: 13.997846719151
Z Range: 29.799851575555
Z Interquartile Range: 11.037174458054
Z Median Abs. Deviation: 3.1658994926941

Z Mean: 7.1755398540912
Z Trim Mean (10%): 6.5523741620801
Z Standard Deviation: 7.8109613248827
Z Variance: 61.011116818813

Z Coef. of Variation: 1.088553820857
Z Coef. of Skewness: 1.0563876137088

Z Root Mean Square: 10.606577629776
Z Mean Square: 112.49948901646

Gridding Report Sedimenti_AO1_PCB

Thu Feb 24 17:32:52 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_AO1_PCB.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	7.5695
25%-tile:	685529.5	4481572.4	11.2875
Median:	686438.4	4482102.6	20.964
75%-tile:	686954.1	4482509.1	41.625
Maximum:	686954.1	4482509.1	41.625
Midrange:	686221.1	4481914.8	24.59725
Range:	1466	1188.5999999996	34.0555
Interquartile Range:	1424.6	936.69999999925	30.3375
Median Abs. Deviation:	908.90000000002	530.19999999925	13.3945
Mean:	686102.525	4481876.15	20.3615
Trim Mean (10%):	685983.95	4481837.5	16.12575
Standard Deviation:	621.26236959517	461.76733589524	13.214312113198
Variance:	385966.931875	213229.07249978	174.618044625
Coef. of Variation:			0.64898519820237
Coef. of Skewness:			0.73391055383874

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.626
Y:		1.000	-0.555
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	5140.0950625002
Y:		213229.07249978	-3384.1114875004
Z:			174.618044625

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.011470302019479	-0.012948276066492	50183.128061683
Standard Error:	0.013823013902262	0.018597500835984	85585.639435743

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	411.11178673319	205.5558933666	0.71532
Residual:	1	287.36039176681	287.36039176681	
Total:	3	698.4721785		

Coefficient of Multiple Determination (R^2): 0.58858720416907

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	3.718
25%-tile:	936.81743151981	3.718
Median:	937.61444634701	20.661
75%-tile:	937.61444634701	20.661
Maximum:	937.61444634701	20.661
Midrange:	937.21593893341	12.1895
Range:	0.79701482720043	16.943
Interquartile Range:	0.79701482720043	16.943
Median Abs. Deviation:	0.79701482720043	16.943
Mean:	937.21593893341	12.1895
Trim Mean (10%):	937.21593893341	12.1895
Standard Deviation:	0.39850741360021	8.4715
Variance:	0.15880815869433	71.76631225
Coef. of Variation:	0.000425203410490150.69498338734156	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	14.844198277442
Mean Square:	878373.87499899	220.3502225

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\SEDIMENTI_A01_PCB.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 7.5694608238378
Z 25%-tile: 12.566636845889
Z Median: 18.411202831282
Z 75%-tile: 26.293433239967
Z Maximum: 41.475975690378

Z Midrange: 24.522718257108
Z Range: 33.90651486654
Z Interquartile Range: 13.726796394079
Z Median Abs. Deviation: 6.4930387552396

Z Mean: 20.064445627243
Z Trim Mean (10%): 19.699734698508
Z Standard Deviation: 9.0661242800065
Z Variance: 82.194609460524

Z Coef. of Variation: 0.45185022544041
Z Coef. of Skewness: 0.57670037737172

Z Root Mean Square: 22.01764264832
Z Mean Square: 484.7765877891

Gridding Report Sedimenti_AO1_Zinco

Thu Feb 24 17:34:41 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_A01_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	54.85
25%-tile:	685529.5	4481572.4	59.675
Median:	686438.4	4482102.6	67.95
75%-tile:	686954.1	4482509.1	97.45
Maximum:	686954.1	4482509.1	97.45
Midrange:	686221.1	4481914.8	76.15
Range:	1466	1188.5999999996	42.6
Interquartile Range:	1424.6	936.69999999925	37.775
Median Abs. Deviation:	908.90000000002	530.19999999925	13.1
Mean:	686102.525	4481876.15	69.98125
Trim Mean (10%):	685983.95	4481837.5	63.8125
Standard Deviation:	621.26236959517	461.76733589524	16.536563418301
Variance:	385966.931875	213229.07249978	273.4579296875
Coef. of Variation:			0.2362999148815
Coef. of Skewness:			0.89332116503706

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.548
Y:		1.000	-0.578
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	5624.8267187502
Y:		213229.07249978	-4412.5528125003
Z:			273.4579296875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.012091107076837	-0.017584232551103	70584.594690565
Standard Error:	0.018440569327282	0.024809965894923	114175.38379068

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	582.42071554256	291.21035777128	0.56943
Residual:	1	511.41100320743	511.41100320743	
Total:	3	1093.83171875		

Coefficient of Multiple Determination (R^2): 0.532459157619

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	4.825
25%-tile:	936.81743151981	4.825
Median:	937.61444634701	29.5
75%-tile:	937.61444634701	29.5
Maximum:	937.61444634701	29.5
Midrange:	937.21593893341	17.1625
Range:	0.79701482720043	24.675
Interquartile Range:	0.79701482720043	24.675
Median Abs. Deviation:	0.79701482720043	24.675
Mean:	937.21593893341	17.1625
Trim Mean (10%):	937.21593893341	17.1625
Standard Deviation:	0.39850741360021	12.3375
Variance:	0.15880815869433	152.21390625
Coef. of Variation:	0.000425203410490150	71886380189366
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	21.136823614252
Mean Square:	878373.87499899	446.7653125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\SEDIMENTI_A01_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 54.88721780325
Z 25%-tile: 60.734125652532
Z Median: 66.082035474251
Z 75%-tile: 76.48082937474
Z Maximum: 97.248088352103

Z Midrange: 76.067653077677
Z Range: 42.360870548852
Z Interquartile Range: 15.746703722207
Z Median Abs. Deviation: 6.724422023303

Z Mean: 69.281916673247
Z Trim Mean (10%): 68.70606774981
Z Standard Deviation: 10.994926840277
Z Variance: 120.88841622304

Z Coef. of Variation: 0.15869836413637
Z Coef. of Skewness: 0.77830758439234

Z Root Mean Square: 70.148930099766
Z Mean Square: 4920.8723941418

Gridding Report Sedimenti_AO2_Coliformi_totali

Thu Feb 24 17:37:02 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\SEDIMENTI_A02_COLIFORMI TOTALI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	4.5
25%-tile:	685529.5	4481572.4	19.95
Median:	686438.4	4482102.6	24.5
75%-tile:	686954.1	4482509.1	27
Maximum:	686954.1	4482509.1	27
Midrange:	686221.1	4481914.8	15.75
Range:	1466	1188.5999999996	22.5
Interquartile Range:	1424.6	936.69999999925	7.05
Median Abs. Deviation:	908.90000000002	530.19999999925	4.55
Mean:	686102.525	4481876.15	18.9875
Trim Mean (10%):	685983.95	4481837.5	22.225
Standard Deviation:	621.26236959517	461.76733589524	8.7378755284108
Variance:	385966.931875	213229.07249978	76.35046875
Coef. of Variation:			0.46019094290511
Coef. of Skewness:			-0.88359897941997

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.755
Y:		1.000	0.233
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	4096.2678125
Y:		213229.07249978	940.30062499781
Z:			76.35046875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.011506543793902	0.00719207696254	-40109.67941651
Standard Error:	0.0077278234491406	0.010397023693379	47847.069822667

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	215.58957867158	107.79478933579	1.2002
Residual:	1	89.812296328424	89.812296328424	
Total:	3	305.401875		

Coefficient of Multiple Determination (R^2): 0.70592093997974

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	2.5
25%-tile:	936.81743151981	2.5
Median:	937.61444634701	15.45
75%-tile:	937.61444634701	15.45
Maximum:	937.61444634701	15.45
Midrange:	937.21593893341	8.975
Range:	0.79701482720043	12.95
Interquartile Range:	0.79701482720043	12.95
Median Abs. Deviation:	0.79701482720043	12.95
Mean:	937.21593893341	8.975
Trim Mean (10%):	937.21593893341	8.975
Standard Deviation:	0.39850741360021	6.475
Variance:	0.15880815869433	41.925625
Coef. of Variation:	0.000425203410490150.72144846796657	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	11.066898842946
Mean Square:	878373.87499899	122.47625

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\SEDIMENTI_A02_COLIFORMI TOTALI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 4.5608369254405
Z 25%-tile: 16.008075643215
Z Median: 22.312523073659
Z 75%-tile: 26.105965344684
Z Maximum: 28.082231701613

Z Midrange: 16.321534313527
Z Range: 23.521394776172
Z Interquartile Range: 10.097889701469
Z Median Abs. Deviation: 4.3057710032008

Z Mean: 20.327428226913
Z Trim Mean (10%): 20.69647127856
Z Standard Deviation: 6.7448735642319
Z Variance: 45.493319397474

Z Coef. of Variation: 0.33181145637015
Z Coef. of Skewness: -0.78264127740403

Z Root Mean Square: 21.417228058686
Z Mean Square: 458.69765771778

Gridding Report Sedimenti_AO2_Diossine_e_Furani

Thu Feb 24 17:43:20 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A02\SEDIMENTI_A02_DIOSSINE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.000250825
25%-tile:	685529.5	4481572.4	0.000251025
Median:	686438.4	4482102.6	0.000500525
75%-tile:	686954.1	4482509.1	0.00082565
Maximum:	686954.1	4482509.1	0.00082565
Midrange:	686221.1	4481914.8	0.0005382375
Range:	1466	1188.5999999996	0.000574825
Interquartile Range:	1424.6	936.69999999925	0.000574625
Median Abs. Deviation:	908.9000000002	530.19999999925	0.0002497
Mean:	686102.525	4481876.15	0.00045700625
Trim Mean (10%):	685983.95	4481837.5	0.000375775
Standard Deviation:	621.26236959517	461.76733589524	0.0002359719682604
Variance:	385966.931875	213229.07249978	5.5682769804688E-008
Coef. of Variation:			0.51634297837371
Coef. of Skewness:			0.62171174034899

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.591
Y:		1.000	0.124
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	0.086622357968748
Y:		213229.07249978	0.013552904062489
Z:			5.5682769804688E-008

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	2.3922343604458E-007		1.2160485440278E-007
Standard Error:	2.9766001396121E-007		4.0047216892235E-007

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	8.9482553372304E-008		
		4.4741276686152E-008	0.33577	
Residual:	1	1.3324852584645E-007		
		1.3324852584645E-007		
Total:	3	2.2273107921875E-007		

Coefficient of Multiple Determination (R^2): 0.40175153681369

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.0002497
25%-tile:	936.81743151981	0.0002497
Median:	937.61444634701	0.000574625
75%-tile:	937.61444634701	0.000574625
Maximum:	937.61444634701	0.000574625
Midrange:	937.21593893341	0.0004121625
Range:	0.79701482720043	0.000324925
Interquartile Range:	0.79701482720043	0.000324925
Median Abs. Deviation:	0.79701482720043	0.000324925
Mean:	937.21593893341	0.0004121625
Trim Mean (10%):	937.21593893341	0.0004121625
Standard Deviation:	0.39850741360021	0.0001624625
Variance:	0.15880815869433	2.639406390625E-008
Coef. of Variation:	0.000425203410490150	0.39417098838444
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	0.00044302594767406
Mean Square:	878373.87499899	1.962719903125E-007

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A02\SEDIMENTI_A02_DIOSSINE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.00025326925942626
Z 25%-tile: 0.00037827095398102
Z Median: 0.00044653826611298
Z 75%-tile: 0.00061804167030527
Z Maximum: 0.00082251963370683

Z Midrange: 0.00053789444656655
Z Range: 0.00056925037428057
Z Interquartile Range: 0.00023977071632425
Z Median Abs. Deviation: 0.00010430932202014

Z Mean: 0.00049420516524642
Z Trim Mean (10%): 0.00048984646994604
Z Standard Deviation: 0.00015529993715214
Z Variance: 2.4118070479457E-008

Z Coef. of Variation: 0.31424183329751

Z Coef. of Skewness:	0.51205560417574
Z Root Mean Square:	0.00051803167454867
Z Mean Square:	2.683568158357E-007

Gridding Report Sedimenti_AO2_Idrocarburi_C>12

Thu Feb 24 17:44:44 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A02\SEDIMENTI_A02_IDROCARBURI_12.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	21.0625
25%-tile:	685529.5	4481572.4	31
Median:	686438.4	4482102.6	39.875
75%-tile:	686954.1	4482509.1	44
Maximum:	686954.1	4482509.1	44
Midrange:	686221.1	4481914.8	32.53125
Range:	1466	1188.5999999996	22.9375
Interquartile Range:	1424.6	936.69999999925	13
Median Abs. Deviation:	908.90000000002	530.19999999925	8.875
Mean:	686102.525	4481876.15	33.984375
Trim Mean (10%):	685983.95	4481837.5	35.4375
Standard Deviation:	621.26236959517	461.76733589524	8.8160869251542
Variance:	385966.931875	213229.07249978	77.723388671875
Coef. of Variation:			0.25941589113097
Coef. of Skewness:			-0.35576808543418

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.901
Y:		1.000	0.063
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	4936.450390625
Y:		213229.07249978	257.74296874814
Z:			77.723388671875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.01329750738227	0.0044527099678127	-29045.96357055
Standard Error:	0.0053921002601898	0.0072545386849522	33385.363852848

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	267.16779786767	133.58389893384	3.055
Residual:	1	43.725756819826	43.725756819826	
Total:	3	310.8935546875		

Coefficient of Multiple Determination (R^2): 0.85935457277724

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	4.125
25%-tile:	936.81743151981	4.125
Median:	937.61444634701	9.9375
75%-tile:	937.61444634701	9.9375
Maximum:	937.61444634701	9.9375
Midrange:	937.21593893341	7.03125
Range:	0.79701482720043	5.8125
Interquartile Range:	0.79701482720043	5.8125
Median Abs. Deviation:	0.79701482720043	5.8125
Mean:	937.21593893341	7.03125
Trim Mean (10%):	937.21593893341	7.03125
Standard Deviation:	0.39850741360021	2.90625
Variance:	0.15880815869433	8.4462890625
Coef. of Variation:	0.000425203410490150.41333333333333	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	7.6082038369776
Mean Square:	878373.87499899	57.884765625

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A02\SEDIMENTI_A02_IDROCARBURI_12.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 21.108550812406
Z 25%-tile: 29.525472298982
Z Median: 36.529519693235
Z 75%-tile: 42.119431099782
Z Maximum: 44.832092532073

Z Midrange: 32.97032167224
Z Range: 23.723541719667
Z Interquartile Range: 12.593958800799
Z Median Abs. Deviation: 6.0659937107358

Z Mean: 35.33844182232
Z Trim Mean (10%): 35.567756516249
Z Standard Deviation: 7.2114018996129
Z Variance: 52.00431735774

Z Coef. of Variation: 0.20406677622832
Z Coef. of Skewness: -0.39562033631165

Z Root Mean Square: 36.066740742507
Z Mean Square: 1300.8097877872

Gridding Report Sedimenti_AO2_IPA

Thu Feb 24 17:46:37 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A02\SEDIMENTI_A02_IPA.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.3588
25%-tile:	685529.5	4481572.4	0.88835
Median:	686438.4	4482102.6	0.958825
75%-tile:	686954.1	4482509.1	4.9900875
Maximum:	686954.1	4482509.1	4.9900875
Midrange:	686221.1	4481914.8	2.67444375
Range:	1466	1188.5999999996	4.6312875
Interquartile Range:	1424.6	936.69999999925	4.1017375
Median Abs. Deviation:	908.90000000002	530.19999999925	0.600025
Mean:	686102.525	4481876.15	1.799015625
Trim Mean (10%):	685983.95	4481837.5	0.9235875
Standard Deviation:	621.26236959517	461.76733589524	1.8569055525797
Variance:	385966.931875	213229.07249978	3.4480982312012
Coef. of Variation:			1.032178668587
Coef. of Skewness:			1.0994746598068

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.360
Y:		1.000	-0.768
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	415.66397617191
Y:		213229.07249978	-658.92897390611
Z:			3.4480982312012

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0006768589128618	-0.0029019120094308	12543.414635372
Standard Error:	0.0018267128019278	0.0024576617734137	11310.151630019

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	8.7740311989046	4.3870155994523	0.87419
Residual:	1	5.0183617259001	5.0183617259001	
Total:	3	13.792392924805		

Coefficient of Multiple Determination (R^2): 0.63615003188642

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.600025
25%-tile:	936.81743151981	0.600025
Median:	937.61444634701	4.1017375
75%-tile:	937.61444634701	4.1017375
Maximum:	937.61444634701	4.1017375
Midrange:	937.21593893341	2.35088125
Range:	0.79701482720043	3.5017125
Interquartile Range:	0.79701482720043	3.5017125
Median Abs. Deviation:	0.79701482720043	3.5017125
Mean:	937.21593893341	2.35088125
Trim Mean (10%):	937.21593893341	2.35088125
Standard Deviation:	0.39850741360021	1.75085625
Variance:	0.15880815869433	3.0654976081641
Coef. of Variation:	0.000425203410490150	7.4476592554388
Coef. of Skewness:	0	3.3096246312498E-016
Root Mean Square:	937.21602365676	2.9312352788143
Mean Square:	878373.87499899	8.5921402597656

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A02\SEDIMENTI_A02_IPA.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.071970923037994
Z 25%-tile: 0.57585685108761
Z Median: 1.1008167333295
Z 75%-tile: 2.4584552213911
Z Maximum: 4.964914243254

Z Midrange: 2.518442583146
Z Range: 4.892943320216
Z Interquartile Range: 1.8825983703035
Z Median Abs. Deviation: 0.67769770168679

Z Mean: 1.5991557341296
Z Trim Mean (10%): 1.515985307635
Z Standard Deviation: 1.2782615141069
Z Variance: 1.633952498447

Z Coef. of Variation: 0.7993352284746
Z Coef. of Skewness: 0.89370143200327

Z Root Mean Square: 2.0472546398644
Z Mean Square: 4.1912515604465

Gridding Report Sedimenti_AO2_PCB

Thu Feb 24 17:47:43 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A02\SEDIMENTI_A02_PCB.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	5.40625
25%-tile:	685529.5	4481572.4	9.508375
Median:	686438.4	4482102.6	14.968
75%-tile:	686954.1	4482509.1	16.22
Maximum:	686954.1	4482509.1	16.22
Midrange:	686221.1	4481914.8	10.813125
Range:	1466	1188.5999999996	10.81375
Interquartile Range:	1424.6	936.69999999925	6.711625
Median Abs. Deviation:	908.90000000002	530.19999999925	5.459625
Mean:	686102.525	4481876.15	11.52565625
Trim Mean (10%):	685983.95	4481837.5	12.2381875
Standard Deviation:	621.26236959517	461.76733589524	4.3417493660525
Variance:	385966.931875	213229.07249978	18.850787557617
Coef. of Variation:			0.37670300691577
Coef. of Skewness:			-0.28445074392244

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.996
Y:		1.000	0.207
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-2686.3897257813
Y:		213229.07249978	415.20893593795
Z:			18.850787557617

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0068747072054562	0.000251185568770243602	4969887454
Standard Error:	0.000860961742993550	0.0011583390459047	5330.6725888308

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	74.288370341442	37.144185170721	33.32
Residual:	1	1.1147798890269	1.1147798890269	
Total:	3	75.403150230469		

Coefficient of Multiple Determination (R^2): 0.98521573852525

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	1.252
25%-tile:	936.81743151981	1.252
Median:	937.61444634701	4.102125
75%-tile:	937.61444634701	4.102125
Maximum:	937.61444634701	4.102125
Midrange:	937.21593893341	2.6770625
Range:	0.79701482720043	2.850125
Interquartile Range:	0.79701482720043	2.850125
Median Abs. Deviation:	0.79701482720043	2.850125
Mean:	937.21593893341	2.6770625
Trim Mean (10%):	937.21593893341	2.6770625
Standard Deviation:	0.39850741360021	1.4250625
Variance:	0.15880815869433	2.0308031289063
Coef. of Variation:	0.000425203410490150.53232320874092	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	3.0327325562622
Mean Square:	878373.87499899	9.1974667578125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A02\SEDIMENTI_A02_PCB.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 5.4065410571033
Z 25%-tile: 7.4026078007324
Z Median: 10.81349695988
Z 75%-tile: 14.50459494163
Z Maximum: 16.657898389175

Z Midrange: 11.032219723139
Z Range: 11.251357332072
Z Interquartile Range: 7.1019871408971
Z Median Abs. Deviation: 3.537440507506

Z Mean: 10.930098154268
Z Trim Mean (10%): 10.924695411763
Z Standard Deviation: 3.650445229946
Z Variance: 13.325750376836

Z Coef. of Variation: 0.33398101082199
Z Coef. of Skewness: 0.038416005648722

Z Root Mean Square: 11.52357566204
Z Mean Square: 132.79279603877

Gridding Report Sedimenti_AO2_Zinco

Thu Feb 24 17:50:01 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A02\SEDIMENTI_A02_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	41.975
25%-tile:	685529.5	4481572.4	52.9125
Median:	686438.4	4482102.6	76.3
75%-tile:	686954.1	4482509.1	77.6125
Maximum:	686954.1	4482509.1	77.6125
Midrange:	686221.1	4481914.8	59.79375
Range:	1466	1188.5999999996	35.6375
Interquartile Range:	1424.6	936.69999999925	24.7
Median Abs. Deviation:	908.90000000002	530.19999999925	23.3875
Mean:	686102.525	4481876.15	62.2
Trim Mean (10%):	685983.95	4481837.5	64.60625
Standard Deviation:	621.26236959517	461.76733589524	15.261581155798
Variance:	385966.931875	213229.07249978	232.915859375
Coef. of Variation:			0.24536304109
Coef. of Skewness:			-0.18354624650827

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.341
Y:		1.000	0.841
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	3232.8746874998
Y:		213229.07249978	5929.6746874954
Z:			232.915859375

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.012458639999047	0.030651304416328	-145861.05456259
Standard Error:	0.0053805321822384	0.0072389749778696	33313.739722573

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	888.12509573145	444.06254786572	10.199
Residual:	1	43.538341768552	43.538341768552	
Total:	3	931.6634375		

Coefficient of Multiple Determination (R^2): 0.95326816528791

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	24.7
25%-tile:	936.81743151981	24.7
Median:	937.61444634701	34.325
75%-tile:	937.61444634701	34.325
Maximum:	937.61444634701	34.325
Midrange:	937.21593893341	29.5125
Range:	0.79701482720043	9.625
Interquartile Range:	0.79701482720043	9.625
Median Abs. Deviation:	0.79701482720043	9.625
Mean:	937.21593893341	29.5125
Trim Mean (10%):	937.21593893341	29.5125
Standard Deviation:	0.39850741360021	4.8125
Variance:	0.15880815869433	23.16015625
Coef. of Variation:	0.000425203410490150.16306649724693	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	29.902304468051
Mean Square:	878373.87499899	894.1478125

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A02\SEDIMENTI_A02_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 41.949491825378
Z 25%-tile: 55.283852709422
Z Median: 67.701298309088
Z 75%-tile: 76.908438316796
Z Maximum: 82.272526172066

Z Midrange: 62.111008998722
Z Range: 40.323034346688
Z Interquartile Range: 21.624585607374
Z Median Abs. Deviation: 10.063380686335

Z Mean: 65.415782275705
Z Trim Mean (10%): 65.801988242872
Z Standard Deviation: 12.482145723753
Z Variance: 155.80396186899

Z Coef. of Variation: 0.19081245059708
Z Coef. of Skewness: -0.43878436627764

Z Root Mean Square: 66.596009885063
Z Mean Square: 4435.0285326114

Gridding Report Sedimenti_AO3_Coliformi_totali

Thu Feb 24 17:52:58 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_COLIFORMI TOTALI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	16
25%-tile:	685529.5	4481572.4	23
Median:	686438.4	4482102.6	30
75%-tile:	686954.1	4482509.1	30
Maximum:	686954.1	4482509.1	30
Midrange:	686221.1	4481914.8	23
Range:	1466	1188.5999999996	14
Interquartile Range:	1424.6	936.69999999925	7
Median Abs. Deviation:	908.90000000002	530.19999999925	7
Mean:	686102.525	4481876.15	24.75
Trim Mean (10%):	685983.95	4481837.5	26.5
Standard Deviation:	621.26236959517	461.76733589524	5.804093383122
Variance:	385966.931875	213229.07249978	33.6875
Coef. of Variation:			0.23450882356048
Coef. of Skewness:			-0.49338220021816

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.183
Y:		1.000	-0.974
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	660.23125000009
Y:		213229.07249978	-2611.6124999985
Z:			33.6875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	5.7075971171393E-005		-0.012143800139539
	54412.598240049		
Standard Error:	0.0022686735048498	0.0030522762764577	14046.565673476

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	127.00956415147	63.504782075733	8.2043
Residual:	1	7.7404358485342	7.7404358485342	
Total:	3	134.75		

Coefficient of Multiple Determination (R^2): 0.94255706234854

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	7
25%-tile:	936.81743151981	7
Median:	937.61444634701	14
75%-tile:	937.61444634701	14
Maximum:	937.61444634701	14
Midrange:	937.21593893341	10.5
Range:	0.79701482720043	7
Interquartile Range:	0.79701482720043	7
Median Abs. Deviation:	0.79701482720043	7
Mean:	937.21593893341	10.5
Trim Mean (10%):	937.21593893341	10.5
Standard Deviation:	0.39850741360021	3.5
Variance:	0.15880815869433	12.25
Coef. of Variation:	0.000425203410490150.33333333333333	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	11.067971810589
Mean Square:	878373.87499899	122.5

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A03\SEDIMENTI_A03_COLIFORMI TOTALI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 15.826250958489
Z 25%-tile: 20.204905414148
Z Median: 23.876022698987
Z 75%-tile: 28.021841370508
Z Maximum: 31.158914416939

Z Midrange: 23.492582687714
Z Range: 15.33266345845
Z Interquartile Range: 7.8169359563601
Z Median Abs. Deviation: 3.8922711599617

Z Mean: 23.914756922496
Z Trim Mean (10%): 23.964286728322
Z Standard Deviation: 4.5062124101354
Z Variance: 20.305950285258

Z Coef. of Variation: 0.18842810841604
Z Coef. of Skewness: -0.07959656536185

Z Root Mean Square: 24.335602498137
Z Mean Square: 592.22154894733

Gridding Report Sedimenti_AO3_Diossine_e_Furani

Thu Feb 24 17:55:06 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_DIOSSINE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0
25%-tile:	685529.5	4481572.4	0.0006
Median:	686438.4	4482102.6	0.000907
75%-tile:	686954.1	4482509.1	0.002505
Maximum:	686954.1	4482509.1	0.002505
Midrange:	686221.1	4481914.8	0.0012525
Range:	1466	1188.5999999996	0.002505
Interquartile Range:	1424.6	936.69999999925	0.001905
Median Abs. Deviation:	908.90000000002	530.19999999925	0.000907
Mean:	686102.525	4481876.15	0.001003
Trim Mean (10%):	685983.95	4481837.5	0.0007535
Standard Deviation:	621.26236959517	461.76733589524	0.00092650391256594
Variance:	385966.931875	213229.07249978	8.584095E-007
Coef. of Variation:			0.92373271442267
Coef. of Skewness:			0.72711490816889

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.807
Y:		1.000	0.571
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-0.46433582500001
Y:		213229.07249978	0.24416212499994
Z:			8.584095E-007

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-1.0761450418026E-006		8.7339664737748E-007
Standard Error:	6.220258774605E-007	8.3687442245736E-007	3.8512934186752

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2.8517514450028E-006		
		1.4258757225014E-006	2.4504	
Residual:	1	5.818865549972E-007	5.818865549972E-007	
Total:	3	3.433638E-006		

Coefficient of Multiple Determination (R^2): 0.83053351722074

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.0006
25%-tile:	936.81743151981	0.0006
Median:	937.61444634701	0.001598
75%-tile:	937.61444634701	0.001598
Maximum:	937.61444634701	0.001598
Midrange:	937.21593893341	0.001099
Range:	0.79701482720043	0.000998
Interquartile Range:	0.79701482720043	0.000998
Median Abs. Deviation:	0.79701482720043	0.000998
Mean:	937.21593893341	0.001099
Trim Mean (10%):	937.21593893341	0.001099
Standard Deviation:	0.39850741360021	0.000499
Variance:	0.15880815869433	2.49001E-007
Coef. of Variation:	0.000425203410490150.4540491355778	
Coef. of Skewness:	0	-3.1206135560122E-016
Root Mean Square:	937.21602365676	0.0012069805300832
Mean Square:	878373.87499899	1.456802E-006

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_DIOSSINE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.0718699676902E-006
Z 25%-tile: 0.00038479850948871
Z Median: 0.00081713421410926
Z 75%-tile: 0.0014196346478363
Z Maximum: 0.0024995188935062

Z Midrange: 0.0012502953817369
Z Range: 0.0024984470235385
Z Interquartile Range: 0.0010348361383476
Z Median Abs. Deviation: 0.00049529334644881

Z Mean: 0.00095826154944201
Z Trim Mean (10%): 0.00092952026028289
Z Standard Deviation: 0.00070546035346696
Z Variance: 4.9767431031372E-007

Z Coef. of Variation: 0.73618768683533

Z Coef. of Skewness:	0.59961903979502
Z Root Mean Square:	0.0011899325642459
Z Mean Square:	1.4159395074527E-006

Gridding Report Sedimenti_AO3_Idrocarburi_C>12

Thu Feb 24 17:56:10 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_IDROCARBURI_12.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	48
25%-tile:	685529.5	4481572.4	50
Median:	686438.4	4482102.6	58.5
75%-tile:	686954.1	4482509.1	90.5
Maximum:	686954.1	4482509.1	90.5
Midrange:	686221.1	4481914.8	69.25
Range:	1466	1188.5999999996	42.5
Interquartile Range:	1424.6	936.69999999925	40.5
Median Abs. Deviation:	908.90000000002	530.19999999925	10.5
Mean:	686102.525	4481876.15	61.75
Trim Mean (10%):	685983.95	4481837.5	54.25
Standard Deviation:	621.26236959517	461.76733589524	17.060553918323
Variance:	385966.931875	213229.07249978	291.0625
Coef. of Variation:			0.27628427398094
Coef. of Skewness:			0.98211476753186

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.717
Y:		1.000	0.481
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	7603.0562499998
Y:		213229.07249978	3789.6999999963
Z:			291.0625

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.022689920926298	0.023191649930972	-119447.96463395
Standard Error:	0.0090294150295081	0.012148186694093	55905.916357699

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	1041.6358340266	520.81791701331	4.2476
Residual:	1	122.61416597338	122.61416597338	
Total:	3	1164.25		

Coefficient of Multiple Determination (R^2): 0.89468398885687

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	10.5
25%-tile:	936.81743151981	10.5
Median:	937.61444634701	40.5
75%-tile:	937.61444634701	40.5
Maximum:	937.61444634701	40.5
Midrange:	937.21593893341	25.5
Range:	0.79701482720043	30
Interquartile Range:	0.79701482720043	30
Median Abs. Deviation:	0.79701482720043	30
Mean:	937.21593893341	25.5
Trim Mean (10%):	937.21593893341	25.5
Standard Deviation:	0.39850741360021	15
Variance:	0.15880815869433	225
Coef. of Variation:	0.000425203410490150.58823529411765	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	29.584624384974
Mean Square:	878373.87499899	875.25

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A03\SEDIMENTI_A03_IDROCARBURI_12.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 44.577957272677
Z 25%-tile: 53.163647580719
Z Median: 63.709971158971
Z 75%-tile: 77.836944367757
Z Maximum: 90.432640631606

Z Midrange: 67.505298952142
Z Range: 45.854683358928
Z Interquartile Range: 24.673296787039
Z Median Abs. Deviation: 11.952671106773

Z Mean: 65.650546814282
Z Trim Mean (10%): 65.442627792977
Z Standard Deviation: 14.146512971011
Z Variance: 200.12382923899

Z Coef. of Variation: 0.21548202806338
Z Coef. of Skewness: 0.25873205529251

Z Root Mean Square: 67.157413040209
Z Mean Square: 4510.1181262533

Gridding Report Sedimenti_AO3_IPA

Thu Feb 24 17:57:06 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_IPA.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	2.98815
25%-tile:	685529.5	4481572.4	14.84695
Median:	686438.4	4482102.6	33.59815
75%-tile:	686954.1	4482509.1	75.77
Maximum:	686954.1	4482509.1	75.77
Midrange:	686221.1	4481914.8	39.379075
Range:	1466	1188.5999999996	72.78185
Interquartile Range:	1424.6	936.69999999925	60.92305
Median Abs. Deviation:	908.90000000002	530.19999999925	30.61
Mean:	686102.525	4481876.15	31.8008125
Trim Mean (10%):	685983.95	4481837.5	24.22255
Standard Deviation:	621.26236959517	461.76733589524	27.632059484894
Variance:	385966.931875	213229.07249978	763.53071137672
Coef. of Variation:			0.86891048726802
Coef. of Skewness:			0.66616110629617

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.953
Y:		1.000	-0.081
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	16366.237198437
Y:		213229.07249978	-1032.276766878
Z:			763.53071137672

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.042858792818871	0.0056783061114133	-54823.18971937
Standard Error:	0.01344351515482	0.018086922728871	83235.9606179

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2782.3243179504	1391.1621589752	5.1184
Residual:	1	271.7985275565	271.7985275565	
Total:	3	3054.1228455069		

Coefficient of Multiple Determination (R^2): 0.9110060265073

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	11.8588
25%-tile:	936.81743151981	11.8588
Median:	937.61444634701	42.17185
75%-tile:	937.61444634701	42.17185
Maximum:	937.61444634701	42.17185
Midrange:	937.21593893341	27.015325
Range:	0.79701482720043	30.31305
Interquartile Range:	0.79701482720043	30.31305
Median Abs. Deviation:	0.79701482720043	30.31305
Mean:	937.21593893341	27.015325
Trim Mean (10%):	937.21593893341	27.015325
Standard Deviation:	0.39850741360021	15.156525
Variance:	0.15880815869433	229.72025007563
Coef. of Variation:	0.000425203410490150.56103433884286	
Coef. of Skewness:	0	3.9182533350352E-016
Root Mean Square:	937.21602365676	30.976572356077
Mean Square:	878373.87499899	959.54803493125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A03\SEDIMENTI_A03_IPA.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 1.6577220420093
Z 25%-tile: 15.070966945675
Z Median: 33.869740142739
Z 75%-tile: 57.632302994753
Z Maximum: 75.651882778163

Z Midrange: 38.654802410086
Z Range: 73.994160736154
Z Interquartile Range: 42.561336049077
Z Median Abs. Deviation: 20.897500805913

Z Mean: 36.274303176018
Z Trim Mean (10%): 36.064652837331
Z Standard Deviation: 22.822113080089
Z Variance: 520.84884544036

Z Coef. of Variation: 0.62915372817353
Z Coef. of Skewness: 0.13711652160096

Z Root Mean Square: 42.856433780076
Z Mean Square: 1836.6739163461

Gridding Report Sedimenti_AO3_PCB

Thu Feb 24 17:58:26 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_PCB.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	2.51
25%-tile:	685529.5	4481572.4	7.67
Median:	686438.4	4482102.6	19.28
75%-tile:	686954.1	4482509.1	94.525
Maximum:	686954.1	4482509.1	94.525
Midrange:	686221.1	4481914.8	48.5175
Range:	1466	1188.5999999996	92.015
Interquartile Range:	1424.6	936.69999999925	86.855
Median Abs. Deviation:	908.90000000002	530.19999999925	16.77
Mean:	686102.525	4481876.15	30.99625
Trim Mean (10%):	685983.95	4481837.5	13.475
Standard Deviation:	621.26236959517	461.76733589524	37.177792325359
Variance:	385966.931875	213229.07249978	1382.1882421875
Coef. of Variation:			1.199428715582
Coef. of Skewness:			1.0653520907867

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.755
Y:		1.000	0.416
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	17446.72034375
Y:		213229.07249978	7146.0535624925
Z:			1382.1882421875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.051053766260023	0.045754931905174	-240065.05956054
Standard Error:	0.020916795283455	0.028141483508637	129507.01720615

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	4870.7744591025	2435.3872295513	3.7013
Residual:	1	657.97850964749	657.97850964749	
Total:	3	5528.75296875		

Coefficient of Multiple Determination (R^2): 0.8809897071968

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	16.77
25%-tile:	936.81743151981	16.77
Median:	937.61444634701	86.855
75%-tile:	937.61444634701	86.855
Maximum:	937.61444634701	86.855
Midrange:	937.21593893341	51.8125
Range:	0.79701482720043	70.085
Interquartile Range:	0.79701482720043	70.085
Median Abs. Deviation:	0.79701482720043	70.085
Mean:	937.21593893341	51.8125
Trim Mean (10%):	937.21593893341	51.8125
Standard Deviation:	0.39850741360021	35.0425
Variance:	0.15880815869433	1227.97680625
Coef. of Variation:	0.000425203410490150.67633293124246	
Coef. of Skewness:	0	2.5362740221341E-016
Root Mean Square:	937.21602365676	62.550075639443
Mean Square:	878373.87499899	3912.5119625

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A03\SEDIMENTI_A03_PCB.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: -5.2424766091588
Z 25%-tile: 11.746327303355
Z Median: 34.227409714481
Z 75%-tile: 65.981807726348
Z Maximum: 94.323341707219

Z Midrange: 44.54043254903
Z Range: 99.565818316377
Z Interquartile Range: 54.235480422993
Z Median Abs. Deviation: 25.69347845696

Z Mean: 39.316763409273
Z Trim Mean (10%): 38.742055104354
Z Standard Deviation: 30.734449673992
Z Variance: 944.60639676315

Z Coef. of Variation: 0.78171362566286
Z Coef. of Skewness: 0.31154407402115

Z Root Mean Square: 49.904050754863
Z Mean Square: 2490.4142817439

Gridding Report Sedimenti_AO3_Zinco

Thu Feb 24 17:59:19 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\A03\SEDIMENTI_A03_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	46.6
25%-tile:	685529.5	4481572.4	53.9
Median:	686438.4	4482102.6	59.2
75%-tile:	686954.1	4482509.1	84.65
Maximum:	686954.1	4482509.1	84.65
Midrange:	686221.1	4481914.8	65.625
Range:	1466	1188.5999999996	38.05
Interquartile Range:	1424.6	936.69999999925	30.75
Median Abs. Deviation:	908.90000000002	530.19999999925	12.6
Mean:	686102.525	4481876.15	61.0875
Trim Mean (10%):	685983.95	4481837.5	56.55
Standard Deviation:	621.26236959517	461.76733589524	14.320456303833
Variance:	385966.931875	213229.07249978	205.07546875
Coef. of Variation:			0.23442531293363
Coef. of Skewness:			0.82257923588019

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.903
Y:		1.000	0.236
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	8037.2878124999
Y:		213229.07249978	1558.9418749971
Z:			205.07546875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.022392341630411	0.01273467698694	-72377.599610887
Standard Error:	0.0037345743334664	0.0050245011529157	23122.738254479

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	799.32679462465	399.66339731232	19.054
Residual:	1	20.975080375356	20.975080375356	
Total:	3	820.301875		

Coefficient of Multiple Determination (R^2): 0.97443004701732

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	7.3
25%-tile:	936.81743151981	7.3
Median:	937.61444634701	25.45
75%-tile:	937.61444634701	25.45
Maximum:	937.61444634701	25.45
Midrange:	937.21593893341	16.375
Range:	0.79701482720043	18.15
Interquartile Range:	0.79701482720043	18.15
Median Abs. Deviation:	0.79701482720043	18.15
Mean:	937.21593893341	16.375
Trim Mean (10%):	937.21593893341	16.375
Standard Deviation:	0.39850741360021	9.075
Variance:	0.15880815869433	82.355625
Coef. of Variation:	0.000425203410490150.55419847328244	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	18.721545075127
Mean Square:	878373.87499899	350.49625

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\A03\SEDIMENTI_A03_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 45.300331170954
Z 25%-tile: 53.066300946295
Z Median: 63.116745206549
Z 75%-tile: 75.090253484264
Z Maximum: 84.577754289153

Z Midrange: 64.939042730053
Z Range: 39.277423118198
Z Interquartile Range: 22.023952537969
Z Median Abs. Deviation: 10.85537438472

Z Mean: 64.053687552522
Z Trim Mean (10%): 63.965350117118
Z Standard Deviation: 12.269782538602
Z Variance: 150.54756354458

Z Coef. of Variation: 0.19155466308698
Z Coef. of Skewness: 0.12672809994341

Z Root Mean Square: 65.218267783043
Z Mean Square: 4253.4224526207

Gridding Report Sedimenti_C1_Benzene

Thu Feb 24 18:05:38 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_BENZENE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.000925
25%-tile:	685529.5	4481572.4	0.00109
Median:	686438.4	4482102.6	0.0014
75%-tile:	686954.1	4482509.1	0.00155
Maximum:	686954.1	4482509.1	0.00155
Midrange:	686221.1	4481914.8	0.0012375
Range:	1466	1188.5999999996	0.000625
Interquartile Range:	1424.6	936.69999999925	0.00046
Median Abs. Deviation:	908.90000000002	530.19999999925	0.00031
Mean:	686102.525	4481876.15	0.00124125
Trim Mean (10%):	685983.95	4481837.5	0.001245
Standard Deviation:	621.26236959517	461.76733589524	0.00024668742874334
Variance:	385966.931875	213229.07249978	6.08546875E-008
Coef. of Variation:			0.19874113091105
Coef. of Skewness:			-0.027589488269033

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.848
Y:		1.000	-0.636
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	0.12996771875
Y:		213229.07249978	-0.072459062499999
Z:			6.08546875E-008

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	2.9856275511532E-007		-2.6428841870889E-007
Standard Error:	8.78190092836E-008	1.1815180901321E-007	0.54373424763181

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2.3182033926946E-007		
		1.1591016963473E-007	9.9936	
Residual:	1	1.1598410730536E-008		
		1.1598410730536E-008		
Total:	3	2.4341875E-007		

Coefficient of Multiple Determination (R^2): 0.95235202411262

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.00015
25%-tile:	936.81743151981	0.00015
Median:	937.61444634701	0.000165
75%-tile:	937.61444634701	0.000165
Maximum:	937.61444634701	0.000165
Midrange:	937.21593893341	0.0001575
Range:	0.79701482720043	1.5E-005
Interquartile Range:	0.79701482720043	1.5E-005
Median Abs. Deviation:	0.79701482720043	1.5E-005
Mean:	937.21593893341	0.0001575
Trim Mean (10%):	937.21593893341	0.0001575
Standard Deviation:	0.39850741360021	7.5E-006
Variance:	0.15880815869433	5.625E-011
Coef. of Variation:	0.000425203410490150	0.047619047619048
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	0.00015767847031221
Mean Square:	878373.87499899	2.48625E-008

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_BENZENE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.00091028384061522
Z 25%-tile: 0.0010781722808631
Z Median: 0.0012542188538484
Z 75%-tile: 0.0014143901713462
Z Maximum: 0.0015523177630202

Z Midrange: 0.0012313008018177
Z Range: 0.00064203392240499
Z Interquartile Range: 0.00033621789048305
Z Median Abs. Deviation: 0.00016838690367994

Z Mean: 0.0012457837101948
Z Trim Mean (10%): 0.0012471302565412
Z Standard Deviation: 0.00019588551690385
Z Variance: 3.837113573269E-008

Z Coef. of Variation:	0.15723878495186
Z Coef. of Skewness:	-0.063942922458925
Z Root Mean Square:	0.0012610900793835
Z Mean Square:	1.5903481883194E-006

Gridding Report Sedimenti_C1_Coliformi_totali

Thu Feb 24 18:06:42 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_COLIFORMI TOTALI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	27.5
25%-tile:	685529.5	4481572.4	30
Median:	686438.4	4482102.6	47.5
75%-tile:	686954.1	4482509.1	48.333333333333
Maximum:	686954.1	4482509.1	48.333333333333
Midrange:	686221.1	4481914.8	37.916666666667
Range:	1466	1188.5999999996	20.833333333333
Interquartile Range:	1424.6	936.69999999925	18.333333333333
Median Abs. Deviation:	908.90000000002	530.19999999925	17.5
Mean:	686102.525	4481876.15	38.333333333333
Trim Mean (10%):	685983.95	4481837.5	38.75
Standard Deviation:	621.26236959517	461.76733589524	9.6285166735761
Variance:	385966.931875	213229.07249978	92.708333333333
Coef. of Variation:			0.25117869583242
Coef. of Skewness:			-0.022366457113219

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.925
Y:		1.000	0.432
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-5533.02083333334
Y:		213229.07249978	1919.3958333334
Z:			92.7083333333333

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.013467253083217	0.0056409934440508	-16003.984361836
Standard Error:	0.0044270792873458	0.0059561982162159	27410.405163394

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	341.3581837514	170.67909187857	5.7906
Residual:	1	29.475149576187	29.475149576187	
Total:	3	370.83333333333		

Coefficient of Multiple Determination (R^2): 0.92051645058107

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.83333333333333
25%-tile:	936.81743151981	0.83333333333333
Median:	937.61444634701	2.5
75%-tile:	937.61444634701	2.5
Maximum:	937.61444634701	2.5
Midrange:	937.21593893341	1.66666666666667
Range:	0.79701482720043	1.66666666666667
Interquartile Range:	0.79701482720043	1.66666666666667
Median Abs. Deviation:	0.79701482720043	1.66666666666667
Mean:	937.21593893341	1.66666666666667
Trim Mean (10%):	937.21593893341	1.66666666666667
Standard Deviation:	0.39850741360021	0.833333333333335
Variance:	0.15880815869433	0.694444444444447
Coef. of Variation:	0.000425203410490150	5.000000000000001
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	1.8633899812498
Mean Square:	878373.87499899	3.47222222222222

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C1\SEDIMENTI_C1_COLIFORMI TOTALI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 26.32929875781
Z 25%-tile: 30.498762766655
Z Median: 37.071235632168
Z 75%-tile: 45.270217170758
Z Maximum: 49.883749310453

Z Midrange: 38.106524034132
Z Range: 23.554450552643
Z Interquartile Range: 14.771454404103
Z Median Abs. Deviation: 7.3465585940427

Z Mean: 37.681000694911
Z Trim Mean (10%): 37.644019448405
Z Standard Deviation: 7.7406303207523
Z Variance: 59.91735776255

Z Coef. of Variation: 0.20542528536929
Z Coef. of Skewness: 0.082932086434583

Z Root Mean Square: 38.467845938295
Z Mean Square: 1479.7751711324

Gridding Report Sedimenti_C1_Diossine_e_Furani

Thu Feb 24 18:12:09 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_DIOSSINE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.000628
25%-tile:	685529.5	4481572.4	0.00106
Median:	686438.4	4482102.6	0.00144
75%-tile:	686954.1	4482509.1	0.00265
Maximum:	686954.1	4482509.1	0.00265
Midrange:	686221.1	4481914.8	0.001639
Range:	1466	1188.5999999996	0.002022
Interquartile Range:	1424.6	936.69999999925	0.00159
Median Abs. Deviation:	908.90000000002	530.19999999925	0.000812
Mean:	686102.525	4481876.15	0.0014445
Trim Mean (10%):	685983.95	4481837.5	0.00125
Standard Deviation:	621.26236959517	461.76733589524	0.00075295467991108
Variance:	385966.931875	213229.07249978	5.6694075E-007
Coef. of Variation:			0.5212562685435
Coef. of Skewness:			0.67389233772394

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.716
Y:		1.000	0.813
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-0.33494581250001
Y:		213229.07249978	0.28275157499992
Z:			5.6694075E-007

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-7.0688955437412E-007		1.1433572798688E-006
Standard Error:	1.3535699339802E-007		1.8210947450933E-007

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2.2402091166402E-006		
		1.1201045583201E-006	40.651	
Residual:	1	2.7553883359818E-008		
		2.7553883359818E-008		
Total:	3	2.267763E-006		

Coefficient of Multiple Determination (R^2): 0.98784975177749

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.000432
25%-tile:	936.81743151981	0.000432
Median:	937.61444634701	0.00121
75%-tile:	937.61444634701	0.00121
Maximum:	937.61444634701	0.00121
Midrange:	937.21593893341	0.000821
Range:	0.79701482720043	0.000778
Interquartile Range:	0.79701482720043	0.000778
Median Abs. Deviation:	0.79701482720043	0.000778
Mean:	937.21593893341	0.000821
Trim Mean (10%):	937.21593893341	0.000821
Standard Deviation:	0.39850741360021	0.000389
Variance:	0.15880815869433	1.51321E-007
Coef. of Variation:	0.000425203410490150	4.7381242387333
Coef. of Skewness:	0	4.3913855105722E-016
Root Mean Square:	937.21602365676	0.00090849435881573
Mean Square:	878373.87499899	8.25362E-007

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_DIOSSINE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.00058462231886178
Z 25%-tile: 0.00097444301554818
Z Median: 0.0013945019352869
Z 75%-tile: 0.001888236782898
Z Maximum: 0.0026487679176846

Z Midrange: 0.0016166951182732
Z Range: 0.0020641455988228
Z Interquartile Range: 0.00091379376734977
Z Median Abs. Deviation: 0.00045004533531838

Z Mean: 0.0014649111927376
Z Trim Mean (10%): 0.0014484682704692
Z Standard Deviation: 0.00059298128624659
Z Variance: 3.5162680583866E-007

Z Coef. of Variation: 0.40478992118181

Z Coef. of Skewness:	0.39130866809196
Z Root Mean Square:	0.0015803770462919
Z Mean Square:	2.4975916084464E-006

Gridding Report Sedimenti_C1_Idrocarburi_C>12

Thu Feb 24 18:13:01 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_IDROCARBURI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	43.175
25%-tile:	685529.5	4481572.4	59.6
Median:	686438.4	4482102.6	69.5
75%-tile:	686954.1	4482509.1	83.5
Maximum:	686954.1	4482509.1	83.5
Midrange:	686221.1	4481914.8	63.3375
Range:	1466	1188.5999999996	40.325
Interquartile Range:	1424.6	936.69999999925	23.9
Median Abs. Deviation:	908.90000000002	530.19999999925	14
Mean:	686102.525	4481876.15	63.94375
Trim Mean (10%):	685983.95	4481837.5	64.55
Standard Deviation:	621.26236959517	461.76733589524	14.692923200898
Variance:	385966.931875	213229.07249978	215.8819921875
Coef. of Variation:			0.229778879107
Coef. of Skewness:			-0.10952390653274

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.941
Y:		1.000	0.310
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-8586.20609375
Y:		213229.07249978	2100.2346875006
Z:			215.8819921875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.021470419062854	0.0045254017442823	-5487.4377708089
Standard Error:	0.0076555235779351	0.010299751352869	47399.422822383

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	775.38834053673	387.69417026837	4.3986
Residual:	1	88.13962821327	88.13962821327	
Total:	3	863.52796875		

Coefficient of Multiple Determination (R^2): 0.89793077768997

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	14
25%-tile:	936.81743151981	14
Median:	937.61444634701	16.425
75%-tile:	937.61444634701	16.425
Maximum:	937.61444634701	16.425
Midrange:	937.21593893341	15.2125
Range:	0.79701482720043	2.425
Interquartile Range:	0.79701482720043	2.425
Median Abs. Deviation:	0.79701482720043	2.425
Mean:	937.21593893341	15.2125
Trim Mean (10%):	937.21593893341	15.2125
Standard Deviation:	0.39850741360021	1.2125
Variance:	0.15880815869433	1.47015625
Coef. of Variation:	0.000425203410490150	0.079704190632703
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	15.260744165997
Mean Square:	878373.87499899	232.8903125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C1\SEDIMENTI_C1_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 43.209845040222
Z 25%-tile: 51.20853130075
Z Median: 62.284699346243
Z 75%-tile: 71.768313003065
Z Maximum: 83.443160324285

Z Midrange: 63.326502682254
Z Range: 40.233315284063
Z Interquartile Range: 20.559781702315
Z Median Abs. Deviation: 10.265467844808

Z Mean: 62.221684556516
Z Trim Mean (10%): 62.089119991917
Z Standard Deviation: 11.842694180571
Z Variance: 140.24940545452

Z Coef. of Variation: 0.19033065827419
Z Coef. of Skewness: 0.11176261207677

Z Root Mean Square: 63.338672503496
Z Mean Square: 4011.7874345051

Gridding Report Sedimenti_C1_IPA

Thu Feb 24 18:15:17 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_IPA.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.20914625
25%-tile:	685529.5	4481572.4	0.892475
Median:	686438.4	4482102.6	9.01161625
75%-tile:	686954.1	4482509.1	20.3386316
Maximum:	686954.1	4482509.1	20.3386316
Midrange:	686221.1	4481914.8	10.273888925
Range:	1466	1188.5999999996	20.12948535
Interquartile Range:	1424.6	936.69999999925	19.4461566
Median Abs. Deviation:	908.9000000002	530.19999999925	8.80247
Mean:	686102.525	4481876.15	7.612967275
Trim Mean (10%):	685983.95	4481837.5	4.952045625
Standard Deviation:	621.26236959517	461.76733589524	8.1221969573572
Variance:	385966.931875	213229.07249978	65.970083414103
Coef. of Variation:			1.0668897768718
Coef. of Skewness:			0.6318232355958

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.064
Y:		1.000	-0.895
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	324.27531324078
Y:		213229.07249978	-3356.5464662273
Z:			65.970083414103

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0013213917731815	-0.01594875675681	72394.57572676
Standard Error:	0.0058497684418314	0.0078702860502419	36219.031260849

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	212.41689895249	106.20844947624	2.0638
Residual:	1	51.463434703927	51.463434703927	
Total:	3	263.88033365641		

Coefficient of Multiple Determination (R^2): 0.80497434579215

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	8.11914125
25%-tile:	936.81743151981	8.11914125
Median:	937.61444634701	20.12948535
75%-tile:	937.61444634701	20.12948535
Maximum:	937.61444634701	20.12948535
Midrange:	937.21593893341	14.1243133
Range:	0.79701482720043	12.0103441
Interquartile Range:	0.79701482720043	12.0103441
Median Abs. Deviation:	0.79701482720043	12.0103441
Mean:	937.21593893341	14.1243133
Trim Mean (10%):	937.21593893341	14.1243133
Standard Deviation:	0.39850741360021	6.00517205
Variance:	0.15880815869433	36.062091350101
Coef. of Variation:	0.000425203410490150	4.2516559371421
Coef. of Skewness:	0	-4.5934804856428E-016
Root Mean Square:	937.21602365676	15.347909223952
Mean Square:	878373.87499899	235.55831754666

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C1\SEDIMENTI_C1_IPA.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: -1.7737062644091
Z 25%-tile: 0.54347289718078
Z Median: 5.0238947026595
Z 75%-tile: 11.040144604971
Z Maximum: 20.262116349726

Z Midrange: 9.2442050426587
Z Range: 22.035822614136
Z Interquartile Range: 10.49667170779
Z Median Abs. Deviation: 4.9157304303551

Z Mean: 6.1807661057389
Z Trim Mean (10%): 5.9051485206713
Z Standard Deviation: 6.0642340868636
Z Variance: 36.774935060278

Z Coef. of Variation: 0.98114602350554
Z Coef. of Skewness: 0.50309305794015

Z Root Mean Square: 8.658914753832
Z Mean Square: 74.976804714129

Gridding Report Sedimenti_C1_PCB

Thu Feb 24 18:16:09 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_PCB.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	6.42
25%-tile:	685529.5	4481572.4	7.11949
Median:	686438.4	4482102.6	7.7469
75%-tile:	686954.1	4482509.1	11.30113
Maximum:	686954.1	4482509.1	11.30113
Midrange:	686221.1	4481914.8	8.860565
Range:	1466	1188.5999999996	4.88113
Interquartile Range:	1424.6	936.69999999925	4.18164
Median Abs. Deviation:	908.90000000002	530.19999999925	1.3269
Mean:	686102.525	4481876.15	8.14688
Trim Mean (10%):	685983.95	4481837.5	7.433195
Standard Deviation:	621.26236959517	461.76733589524	1.8806196990221
Variance:	385966.931875	213229.07249978	3.53673045235
Coef. of Variation:			0.2308392536802
Coef. of Skewness:			0.94284499614129

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.777
Y:		1.000	0.090
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	907.81065274999
Y:		213229.07249978	78.40359874983
Z:			3.53673045235

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0024655560638379	0.00096812318808631	-6022.485578647
Standard Error:	0.0018031940082687	0.0024260195579151	11164.534255379

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	9.256950301114	4.628475150557	0.94652
Residual:	1	4.8899715082861	4.8899715082861	
Total:	3	14.1469218094		

Coefficient of Multiple Determination (R^2): 0.65434378063524

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	1.3269
25%-tile:	936.81743151981	1.3269
Median:	937.61444634701	4.18164
75%-tile:	937.61444634701	4.18164
Maximum:	937.61444634701	4.18164
Midrange:	937.21593893341	2.75427
Range:	0.79701482720043	2.85474
Interquartile Range:	0.79701482720043	2.85474
Median Abs. Deviation:	0.79701482720043	2.85474
Mean:	937.21593893341	2.75427
Trim Mean (10%):	937.21593893341	2.75427
Standard Deviation:	0.39850741360021	1.42737
Variance:	0.15880815869433	2.0373851169
Coef. of Variation:	0.000425203410490150.51823895260813	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	3.1021586596755
Mean Square:	878373.87499899	9.6233883498

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C1\SEDIMENTI_C1_PCB.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 6.4304718850505
Z 25%-tile: 7.3052146408267
Z Median: 8.031997570535
Z 75%-tile: 9.699143392892
Z Maximum: 11.281832464631

Z Midrange: 8.8561521748405
Z Range: 4.8513605795801
Z Interquartile Range: 2.3939287520653
Z Median Abs. Deviation: 0.93915975566188

Z Mean: 8.4775758330939
Z Trim Mean (10%): 8.4415897483861
Z Standard Deviation: 1.4103567815802
Z Variance: 1.9891062513492

Z Coef. of Variation: 0.16636321624804
Z Coef. of Skewness: 0.45883534834913

Z Root Mean Square: 8.5940908918399
Z Mean Square: 73.858398257206

Gridding Report Sedimenti_C1_Zinco

Thu Feb 24 18:16:53 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C1\SEDIMENTI_C1_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	31.3
25%-tile:	685529.5	4481572.4	42.4
Median:	686438.4	4482102.6	53.9
75%-tile:	686954.1	4482509.1	54.32
Maximum:	686954.1	4482509.1	54.32
Midrange:	686221.1	4481914.8	42.81
Range:	1466	1188.5999999996	23.02
Interquartile Range:	1424.6	936.69999999925	11.92
Median Abs. Deviation:	908.90000000002	530.19999999925	11.5
Mean:	686102.525	4481876.15	45.48
Trim Mean (10%):	685983.95	4481837.5	48.15
Standard Deviation:	621.26236959517	461.76733589524	9.4815715996875
Variance:	385966.931875	213229.07249978	89.9002
Coef. of Variation:			0.20847782760966
Coef. of Skewness:			-0.46711606996615

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.875
Y:		1.000	-0.631
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	5154.2150000001
Y:		213229.07249978	-2761.2294999998
Z:			89.9002

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.011914170603243	-0.0099403465385683	36422.539591976
Standard Error:	0.0016648066558486	0.0022398330344462	10307.704469166

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	355.43259543907	177.71629771953	42.636
Residual:	1	4.1682045609305	4.1682045609305	
Total:	3	359.6008		

Coefficient of Multiple Determination (R^2): 0.98840880064524

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.42
25%-tile:	936.81743151981	0.42
Median:	937.61444634701	11.1
75%-tile:	937.61444634701	11.1
Maximum:	937.61444634701	11.1
Midrange:	937.21593893341	5.76
Range:	0.79701482720043	10.68
Interquartile Range:	0.79701482720043	10.68
Median Abs. Deviation:	0.79701482720043	10.68
Mean:	937.21593893341	5.76
Trim Mean (10%):	937.21593893341	5.76
Standard Deviation:	0.39850741360021	5.34
Variance:	0.15880815869433	28.5156
Coef. of Variation:	0.000425203410490150.927083333333333	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	7.8545018938186
Mean Square:	878373.87499899	61.6932

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C1\SEDIMENTI_C1_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 31.320836664278
Z 25%-tile: 39.926958841386
Z Median: 46.664016076844
Z 75%-tile: 52.717399668228
Z Maximum: 56.725353733965

Z Midrange: 44.023095199122
Z Range: 25.404517069687
Z Interquartile Range: 12.790440826842
Z Median Abs. Deviation: 6.3544973624381

Z Mean: 45.811917907524
Z Trim Mean (10%): 46.014689008538
Z Standard Deviation: 7.6291980484081
Z Variance: 58.204662861833

Z Coef. of Variation: 0.1665330419872
Z Coef. of Skewness: -0.32748475266247

Z Root Mean Square: 46.442830288728
Z Mean Square: 2156.9364852276

Gridding Report Sedimenti_C2_Benzene

Fri Feb 25 08:33:20 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_BENZENE.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.000725
25%-tile:	685529.5	4481572.4	0.0007275
Median:	686438.4	4482102.6	0.000805
75%-tile:	686954.1	4482509.1	0.0008075
Maximum:	686954.1	4482509.1	0.0008075
Midrange:	686221.1	4481914.8	0.00076625
Range:	1466	1188.5999999996	8.25E-005
Interquartile Range:	1424.6	936.69999999925	8E-005
Median Abs. Deviation:	908.90000000002	530.19999999925	7.75E-005
Mean:	686102.525	4481876.15	0.00076625
Trim Mean (10%):	685983.95	4481837.5	0.00076625
Standard Deviation:	621.26236959517	461.76733589524	4.0019526483955E-005
Variance:	385966.931875	213229.07249978	1.6015625E-009
Coef. of Variation:			0.052227767026369
Coef. of Skewness:			-2.116961907401E-015

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.161
Y:		1.000	0.941
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	0.0040008437499993
Y:		213229.07249978	0.017393749999989
Z:			1.6015625E-009

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	2.1984843885933E-008	-0.40131056412753	8.634619617135E-008
Standard Error:	5.5763725035588E-009		7.5024588002276E-009

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	6.3594845657295E-009		
		3.1797422828648E-009	67.993	
Residual:	1	4.6765434270108E-011		
		4.6765434270108E-011		
Total:	3	6.4062499999996E-009		

Coefficient of Multiple Determination (R^2): 0.99270002977247

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	8E-005
25%-tile:	936.81743151981	8E-005
Median:	937.61444634701	8E-005
75%-tile:	937.61444634701	8E-005
Maximum:	937.61444634701	8E-005
Midrange:	937.21593893341	8E-005
Range:	0.79701482720043	1.0842021724855E-019
Interquartile Range:	0.79701482720043	1.0842021724855E-019
Median Abs. Deviation:	0.79701482720043	1.0842021724855E-019
Mean:	937.21593893341	8E-005
Trim Mean (10%):	937.21593893341	8E-005
Standard Deviation:	0.39850741360021	5.4210108624275E-020
Variance:	0.15880815869433	2.9387358770557E-039
Coef. of Variation:	0.000425203410490156	7.762635780344E-016
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	8E-005
Mean Square:	878373.87499899	6.4E-009

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_BENZENE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.00071739549961159
Z 25%-tile: 0.00074515823077304
Z Median: 0.00077929908811463
Z 75%-tile: 0.00080614584740067
Z Maximum: 0.00081859030372734

Z Midrange: 0.00076799290166947
Z Range: 0.00010119480411575
Z Interquartile Range: 6.0987616627629E-005
Z Median Abs. Deviation: 2.8877494554102E-005

Z Mean: 0.00077452581197585
Z Trim Mean (10%): 0.00077522175665045
Z Standard Deviation: 3.2549020210868E-005
Z Variance: 1.0594387166875E-009

Z Coef. of Variation:	0.04202444864663
Z Coef. of Skewness:	-0.28598609949052
Z Root Mean Square:	0.00077520943759318
Z Mean Square:	6.0094967213353E-007

Gridding Report Sedimenti_C2_Coliformi_totali

Fri Feb 25 08:34:20 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_COLIFORMI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	30
25%-tile:	685529.5	4481572.4	30
Median:	686438.4	4482102.6	30
75%-tile:	686954.1	4482509.1	107.5
Maximum:	686954.1	4482509.1	107.5
Midrange:	686221.1	4481914.8	68.75
Range:	1466	1188.5999999996	77.5
Interquartile Range:	1424.6	936.69999999925	77.5
Median Abs. Deviation:	908.90000000002	530.19999999925	0
Mean:	686102.525	4481876.15	49.375
Trim Mean (10%):	685983.95	4481837.5	30
Standard Deviation:	621.26236959517	461.76733589524	33.558484396647
Variance:	385966.931875	213229.07249978	1126.171875
Coef. of Variation:			0.67966550676753
Coef. of Skewness:			1.1547005383793

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.791
Y:		1.000	0.283
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	16499.265625
Y:		213229.07249978	4387.4687499946
Z:			1126.171875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.046740210314029	0.0318576630677	-174801.30145114
Standard Error:	0.023924933101252	0.032188636031002	148132.00018506

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	3643.8466223031	1821.9233111516	2.1164
Residual:	1	860.84087769687	860.84087769687	
Total:	3	4504.6875		

Coefficient of Multiple Determination (R^2): 0.80890108854457

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0
25%-tile:	936.81743151981	0
Median:	937.61444634701	77.5
75%-tile:	937.61444634701	77.5
Maximum:	937.61444634701	77.5
Midrange:	937.21593893341	38.75
Range:	0.79701482720043	77.5
Interquartile Range:	0.79701482720043	77.5
Median Abs. Deviation:	0.79701482720043	77.5
Mean:	937.21593893341	38.75
Trim Mean (10%):	937.21593893341	38.75
Standard Deviation:	0.39850741360021	38.75
Variance:	0.15880815869433	1501.5625
Coef. of Variation:	0.000425203410490151	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	54.800775541957
Mean Square:	878373.87499899	3003.125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C2\SEDIMENTI_C2_COLIFORMI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 21.356740918115
Z 25%-tile: 30.787459563566
Z Median: 50.072343442747
Z 75%-tile: 80.090627487981
Z Maximum: 107.20555509339

Z Midrange: 64.281148005752
Z Range: 85.848814175274
Z Interquartile Range: 49.303167924415
Z Median Abs. Deviation: 21.438512470321

Z Mean: 56.377669537754
Z Trim Mean (10%): 55.539630917506
Z Standard Deviation: 27.00574661224
Z Variance: 729.31035008449

Z Coef. of Variation: 0.47901495101983
Z Coef. of Skewness: 0.42976097765885

Z Root Mean Square: 62.512014625932
Z Mean Square: 3907.7519725927

Gridding Report Sedimenti_C2_Diossine_e_Furani

Fri Feb 25 08:35:13 2022

Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_DIOSSINE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.0005061
25%-tile:	685529.5	4481572.4	0.0005875
Median:	686438.4	4482102.6	0.001087
75%-tile:	686954.1	4482509.1	0.00195
Maximum:	686954.1	4482509.1	0.00195
Midrange:	686221.1	4481914.8	0.00122805
Range:	1466	1188.5999999996	0.0014439
Interquartile Range:	1424.6	936.69999999925	0.0013625
Median Abs. Deviation:	908.90000000002	530.19999999925	0.0005809
Mean:	686102.525	4481876.15	0.00103265
Trim Mean (10%):	685983.95	4481837.5	0.00083725
Standard Deviation:	621.26236959517	461.76733589524	0.00057443414983791
Variance:	385966.931875	213229.07249978	3.299745925E-007
Coef. of Variation:			0.55627187317863
Coef. of Skewness:			0.70950139240517

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.214
Y:		1.000	-0.332
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-0.07634266375
Y:		213229.07249978	-0.088067432499871
Z:			3.299745925E-007

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-2.6033949611702E-007		-4.7365972599019E-007
Standard Error:	8.4488954227508E-007		1.1367154862084E-006

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2.4635081618746E-007		
		1.2317540809373E-007	0.11474	
Residual:	1	1.0735475538125E-006		
		1.0735475538125E-006		
Total:	3	1.31989837E-006		

Coefficient of Multiple Determination (R^2): 0.18664377635944

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.0004995
25%-tile:	936.81743151981	0.0004995
Median:	937.61444634701	0.0014439
75%-tile:	937.61444634701	0.0014439
Maximum:	937.61444634701	0.0014439
Midrange:	937.21593893341	0.0009717
Range:	0.79701482720043	0.0009444
Interquartile Range:	0.79701482720043	0.0009444
Median Abs. Deviation:	0.79701482720043	0.0009444
Mean:	937.21593893341	0.0009717
Trim Mean (10%):	937.21593893341	0.0009717
Standard Deviation:	0.39850741360021	0.0004722
Variance:	0.15880815869433	2.2297284E-007
Coef. of Variation:	0.000425203410490150	4.8595245446125
Coef. of Skewness:	0	-3.682677423447E-016
Root Mean Square:	937.21602365676	0.0010803581489488
Mean Square:	878373.87499899	1.16717373E-006

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENTI\DAT\C2\SEDIMENTI_G2_DIOSSINE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.00051031546191455
Z 25%-tile: 0.0007918615072985
Z Median: 0.00091661807416208
Z 75%-tile: 0.0010651558372659
Z Maximum: 0.0019450415589972

Z Midrange: 0.0012276785104559
Z Range: 0.0014347260970826
Z Interquartile Range: 0.00027329432996735
Z Median Abs. Deviation: 0.00013231166414825

Z Mean: 0.00099622196777658
Z Trim Mean (10%): 0.00097732280484011
Z Standard Deviation: 0.00032292484145464
Z Variance: 1.0428045322851E-007

Z Coef. of Variation: 0.32414948866804

Z Coef. of Skewness:	1.0985852242509
Z Root Mean Square:	0.0010472529122944
Z Mean Square:	1.0967386623091E-006

Gridding Report Sedimenti_C2_Idrocarburi_C>12

Fri Feb 25 08:35:55 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	44
25%-tile:	685529.5	4481572.4	60.32
Median:	686438.4	4482102.6	62
75%-tile:	686954.1	4482509.1	87.95
Maximum:	686954.1	4482509.1	87.95
Midrange:	686221.1	4481914.8	65.975
Range:	1466	1188.5999999996	43.95
Interquartile Range:	1424.6	936.69999999925	27.63
Median Abs. Deviation:	908.90000000002	530.19999999925	18
Mean:	686102.525	4481876.15	63.5675
Trim Mean (10%):	685983.95	4481837.5	61.16
Standard Deviation:	621.26236959517	461.76733589524	15.735284196671
Variance:	385966.931875	213229.07249978	247.59916875
Coef. of Variation:			0.24753662164897
Coef. of Skewness:			0.44694749408424

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.158
Y:		1.000	0.785
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-1548.5371875002
Y:		213229.07249978	5706.5111249961
Z:			247.59916875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00040413049388461		0.02646601414021
Standard Error:	-118276.55511175	0.02149226776656	98907.347602652

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	606.61678092338	303.30839046169	0.79032
Residual:	1	383.77989407662	383.77989407662	
Total:	3	990.396675		

Coefficient of Multiple Determination (R^2): 0.6124988060197

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	1.68
25%-tile:	936.81743151981	1.68
Median:	937.61444634701	43.95
75%-tile:	937.61444634701	43.95
Maximum:	937.61444634701	43.95
Midrange:	937.21593893341	22.815
Range:	0.79701482720043	42.27
Interquartile Range:	0.79701482720043	42.27
Median Abs. Deviation:	0.79701482720043	42.27
Mean:	937.21593893341	22.815
Trim Mean (10%):	937.21593893341	22.815
Standard Deviation:	0.39850741360021	21.135
Variance:	0.15880815869433	446.688225
Coef. of Variation:	0.000425203410490150.92636423405654	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	31.100039389043
Mean Square:	878373.87499899	967.21245

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C2\SEDIMENTI_C2_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 44.128974895132
Z 25%-tile: 58.637861336054
Z Median: 63.024267162899
Z 75%-tile: 72.154865934713
Z Maximum: 87.872229358493

Z Midrange: 66.000602126813
Z Range: 43.743254463361
Z Interquartile Range: 13.517004598658
Z Median Abs. Deviation: 6.6715071484034

Z Mean: 65.082250139666
Z Trim Mean (10%): 64.925706539237
Z Standard Deviation: 10.776267065505
Z Variance: 116.12793186708

Z Coef. of Variation: 0.16557920235362
Z Coef. of Skewness: 0.28687605725175

Z Root Mean Square: 65.968380419024
Z Mean Square: 4351.8272151091

Gridding Report Sedimenti_C2_IPA

Fri Feb 25 08:36:37 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_IPA.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.4182545
25%-tile:	685529.5	4481572.4	0.9394
Median:	686438.4	4482102.6	1.4540625
75%-tile:	686954.1	4482509.1	4.49503032
Maximum:	686954.1	4482509.1	4.49503032
Midrange:	686221.1	4481914.8	2.45664241
Range:	1466	1188.5999999996	4.07677582
Interquartile Range:	1424.6	936.69999999925	3.55563032
Median Abs. Deviation:	908.90000000002	530.19999999925	1.035808
Mean:	686102.525	4481876.15	1.82668683
Trim Mean (10%):	685983.95	4481837.5	1.19673125
Standard Deviation:	621.26236959517	461.76733589524	1.5834981385223
Variance:	385966.931875	213229.07249978	2.5074663547035
Coef. of Variation:			0.8668689742085
Coef. of Skewness:			0.97307207455912

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.116
Y:		1.000	-0.769
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	113.88459387628
Y:		213229.07249978	-562.50703003932
Z:			2.5074663547035

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-6.3002900504295E-005		-0.0026340370720959
Standard Error:	11850.481073508	0.0022300479020938	10262.673321339

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	5.8980004788	2.9490002394	0.71372
Residual:	1	4.131864940014	4.131864940014	
Total:	3	10.029865418814		

Coefficient of Multiple Determination (R^2): 0.58804383035256

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.5146625
25%-tile:	936.81743151981	0.5146625
Median:	937.61444634701	4.07677582
75%-tile:	937.61444634701	4.07677582
Maximum:	937.61444634701	4.07677582
Midrange:	937.21593893341	2.29571916
Range:	0.79701482720043	3.56211332
Interquartile Range:	0.79701482720043	3.56211332
Median Abs. Deviation:	0.79701482720043	3.56211332
Mean:	937.21593893341	2.29571916
Trim Mean (10%):	937.21593893341	2.29571916
Standard Deviation:	0.39850741360021	1.78105666
Variance:	0.15880815869433	3.1721628261304
Coef. of Variation:	0.000425203410490150.77581643740779	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	2.9055962017668
Mean Square:	878373.87499899	8.4424892877215

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C2\SEDIMENTI_C2_IPA.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.21886318745033
Z 25%-tile: 0.72237402342622
Z Median: 1.2757532401943
Z 75%-tile: 2.2945385807823
Z Maximum: 4.4718249747678

Z Midrange: 2.3453440811091
Z Range: 4.2529617873175
Z Interquartile Range: 1.5721645573561
Z Median Abs. Deviation: 0.68846675842606

Z Mean: 1.5862359614043
Z Trim Mean (10%): 1.5211155611375
Z Standard Deviation: 1.0786003166915
Z Variance: 1.1633786431669

Z Coef. of Variation: 0.67997469666276
Z Coef. of Skewness: 0.7985084901561

Z Root Mean Square: 1.9182083224768
Z Mean Square: 3.6795231684192

Gridding Report Sedimenti_C2_PCB

Fri Feb 25 08:37:19 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_PCB.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	12.0289308
25%-tile:	685529.5	4481572.4	12.430545
Median:	686438.4	4482102.6	12.50025525
75%-tile:	686954.1	4482509.1	21.85110275
Maximum:	686954.1	4482509.1	21.85110275
Midrange:	686221.1	4481914.8	16.940016775
Range:	1466	1188.5999999996	9.82217195
Interquartile Range:	1424.6	936.69999999925	9.42055775
Median Abs. Deviation:	908.90000000002	530.19999999925	0.47132445
Mean:	686102.525	4481876.15	14.70270845
Trim Mean (10%):	685983.95	4481837.5	12.465400125
Standard Deviation:	621.26236959517	461.76733589524	4.1310457160269
Variance:	385966.931875	213229.07249978	17.065538707905
Coef. of Variation:			0.28097174953006
Coef. of Skewness:			1.1480750852861

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.533
Y:		1.000	-0.344
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-1368.4359419937
Y:		213229.07249978	-655.63790005392
Z:			17.065538707905

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0040657908223362	-0.0040468399200675	20941.687359839
Standard Error:	0.0048513306779612	0.0065269865875094	30037.171424649

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	32.867052377044	16.433526188522	0.46429
Residual:	1	35.395102454574	35.395102454574	
Total:	3	68.262154831618		

Coefficient of Multiple Determination (R^2): 0.48148278439374

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.47132445
25%-tile:	936.81743151981	0.47132445
Median:	937.61444634701	9.42055775
75%-tile:	937.61444634701	9.42055775
Maximum:	937.61444634701	9.42055775
Midrange:	937.21593893341	4.9459411
Range:	0.79701482720043	8.9492333
Interquartile Range:	0.79701482720043	8.9492333
Median Abs. Deviation:	0.79701482720043	8.9492333
Mean:	937.21593893341	4.9459411
Trim Mean (10%):	937.21593893341	4.9459411
Standard Deviation:	0.39850741360021	4.47461665
Variance:	0.15880815869433	20.022194164457
Coef. of Variation:	0.000425203410490150	90470479925448
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	6.6696722205163
Mean Square:	878373.87499899	44.484527529126

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C2\SEDIMENTI_C2_PCB.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 11.447865096937
Z 25%-tile: 12.092689635851
Z Median: 12.698341614137
Z 75%-tile: 15.591047762802
Z Maximum: 21.817031465125

Z Midrange: 16.632448281031
Z Range: 10.369166368188
Z Interquartile Range: 3.498358126951
Z Median Abs. Deviation: 0.76545998679923

Z Mean: 14.171639481158
Z Trim Mean (10%): 13.941840259896
Z Standard Deviation: 2.8491857438727
Z Variance: 8.1178594030873

Z Coef. of Variation: 0.20104842122613
Z Coef. of Skewness: 1.2006528199614

Z Root Mean Square: 14.455214456624
Z Mean Square: 208.95322498699

Gridding Report Sedimenti_C2_Zinco

Fri Feb 25 08:38:00 2022
Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C2\SEDIMENTI_C2_ZINCO.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	38.964
25%-tile:	685529.5	4481572.4	40.75
Median:	686438.4	4482102.6	43.33
75%-tile:	686954.1	4482509.1	65.5
Maximum:	686954.1	4482509.1	65.5
Midrange:	686221.1	4481914.8	52.232
Range:	1466	1188.5999999996	26.536
Interquartile Range:	1424.6	936.69999999925	24.75
Median Abs. Deviation:	908.90000000002	530.19999999925	4.366
Mean:	686102.525	4481876.15	47.136
Trim Mean (10%):	685983.95	4481837.5	42.04
Standard Deviation:	621.26236959517	461.76733589524	10.715464432305
Variance:	385966.931875	213229.07249978	114.821178
Coef. of Variation:			0.22733079667993
Coef. of Skewness:			1.0833622662028

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.649
Y:		1.000	0.802
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-4321.3240000001
Y:		213229.07249978	3968.5570999985
Z:			114.821178

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0089099316890793	0.016294937007319	-66871.626956031
Standard Error:	0.0055672855590754	0.0074902332133316	34470.029319502

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	412.67156621612	206.33578310806	4.4266
Residual:	1	46.613145783884	46.613145783884	
Total:	3	459.284712		

Coefficient of Multiple Determination (R^2): 0.89850925892808

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	1.786
25%-tile:	936.81743151981	1.786
Median:	937.61444634701	22.17
75%-tile:	937.61444634701	22.17
Maximum:	937.61444634701	22.17
Midrange:	937.21593893341	11.978
Range:	0.79701482720043	20.384
Interquartile Range:	0.79701482720043	20.384
Median Abs. Deviation:	0.79701482720043	20.384
Mean:	937.21593893341	11.978
Trim Mean (10%):	937.21593893341	11.978
Standard Deviation:	0.39850741360021	10.192
Variance:	0.15880815869433	103.876864
Coef. of Variation:	0.000425203410490150.85089330439138	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	15.727343958851
Mean Square:	878373.87499899	247.349348

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C2\SEDIMENTI_C2_ZINCO.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 36.861877960641
Z 25%-tile: 40.612012115016
Z Median: 45.285821310587
Z 75%-tile: 52.876627251762
Z Maximum: 65.459571915045

Z Midrange: 51.160724937843
Z Range: 28.597693954404
Z Interquartile Range: 12.264615136745
Z Median Abs. Deviation: 5.4582753612989

Z Mean: 47.42408606007
Z Trim Mean (10%): 47.029842288453
Z Standard Deviation: 8.1639378131189
Z Variance: 66.649880616473

Z Coef. of Variation: 0.17214749911633
Z Coef. of Skewness: 0.71115424729028

Z Root Mean Square: 48.121656447481
Z Mean Square: 2315.6938192494

Gridding Report Sedimenti_C3_Benzene

Fri Feb 25 08:39:34 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_BENZENE.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.000735
25%-tile:	685529.5	4481572.4	0.0008025
Median:	686438.4	4482102.6	0.0008475
75%-tile:	686954.1	4482509.1	0.001
Maximum:	686954.1	4482509.1	0.001
Midrange:	686221.1	4481914.8	0.0008675
Range:	1466	1188.5999999996	0.000265
Interquartile Range:	1424.6	936.69999999925	0.0001975
Median Abs. Deviation:	908.90000000002	530.19999999925	0.0001125
Mean:	686102.525	4481876.15	0.00084625
Trim Mean (10%):	685983.95	4481837.5	0.000825
Standard Deviation:	621.26236959517	461.76733589524	9.7379733517812E-005
Variance:	385966.931875	213229.07249978	9.4828125E-009
Coef. of Variation:			0.11507206324114
Coef. of Skewness:			0.58853030604428

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.741
Y:		1.000	0.521
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	0.044804031249999
Y:		213229.07249978	0.023427437499975
Z:			9.4828125E-009

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	1.3441416774138E-007		1.4194114621656E-007
Standard Error:	1.8928077954744E-008		2.5465860634729E-008

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	3.7392441486403E-008		
		1.8696220743202E-008	34.699	
Residual:	1	5.388085135963E-010	5.388085135963E-010	
Total:	3	3.793125E-008		

Coefficient of Multiple Determination (R^2): 0.98579512898741

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.0001125
25%-tile:	936.81743151981	0.0001125
Median:	937.61444634701	0.0001975
75%-tile:	937.61444634701	0.0001975
Maximum:	937.61444634701	0.0001975
Midrange:	937.21593893341	0.000155
Range:	0.79701482720043	8.5E-005
Interquartile Range:	0.79701482720043	8.5E-005
Median Abs. Deviation:	0.79701482720043	8.5E-005
Mean:	937.21593893341	0.000155
Trim Mean (10%):	937.21593893341	0.000155
Standard Deviation:	0.39850741360021	4.25E-005
Variance:	0.15880815869433	1.80625E-009
Coef. of Variation:	0.000425203410490150.2741935483871	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	0.00016072103160445
Mean Square:	878373.87499899	2.583125E-008

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C3\SEDIMENTI_C3_BENZENE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.00072902400516868
Z 25%-tile: 0.00079888893336003
Z Median: 0.000868330005212
Z 75%-tile: 0.00093987062575671
Z Maximum: 0.0010005568214331

Z Midrange: 0.00086479041330087
Z Range: 0.0002715328162644
Z Interquartile Range: 0.00014098169239668
Z Median Abs. Deviation: 7.0439370045236E-005

Z Mean: 0.00086872944455796
Z Trim Mean (10%): 0.00086907997157872
Z Standard Deviation: 8.3432414609514E-005
Z Variance: 6.9609678075739E-009

Z Coef. of Variation: 0.09603958416762
Z Coef. of Skewness: -0.020345653166271

Z Root Mean Square: 0.00087272665574598
Z Mean Square: 7.6165181564956E-007

Gridding Report Sedimenti_C3_Coliformi_totali

Fri Feb 25 08:40:21 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_COLIFORMI TOTALI.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	30
25%-tile:	685529.5	4481572.4	48.5
Median:	686438.4	4482102.6	50.5
75%-tile:	686954.1	4482509.1	62.5
Maximum:	686954.1	4482509.1	62.5
Midrange:	686221.1	4481914.8	46.25
Range:	1466	1188.5999999996	32.5
Interquartile Range:	1424.6	936.69999999925	14
Median Abs. Deviation:	908.90000000002	530.19999999925	12
Mean:	686102.525	4481876.15	47.875
Trim Mean (10%):	685983.95	4481837.5	49.5
Standard Deviation:	621.26236959517	461.76733589524	11.626344008329
Variance:	385966.931875	213229.07249978	135.171875
Coef. of Variation:			0.24284791662305
Coef. of Skewness:			-0.40801305611407

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.865
Y:		1.000	-0.334
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-6251.3343749999
Y:		213229.07249978	-1793.9812499972
Z:			135.171875

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.017794127339582	-0.012703907311931	69193.809827009
Standard Error:	0.0017468798637629	0.0023502544348435	10815.863401042

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	536.09818893857	268.04909446929	58.407
Residual:	1	4.589311061427	4.589311061427	
Total:	3	540.6875		

Coefficient of Multiple Determination (R^2): 0.99151208218901

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	12
25%-tile:	936.81743151981	12
Median:	937.61444634701	18.5
75%-tile:	937.61444634701	18.5
Maximum:	937.61444634701	18.5
Midrange:	937.21593893341	15.25
Range:	0.79701482720043	6.5
Interquartile Range:	0.79701482720043	6.5
Median Abs. Deviation:	0.79701482720043	6.5
Mean:	937.21593893341	15.25
Trim Mean (10%):	937.21593893341	15.25
Standard Deviation:	0.39850741360021	3.25
Variance:	0.15880815869433	10.5625
Coef. of Variation:	0.000425203410490150.21311475409836	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	15.592466129513
Mean Square:	878373.87499899	243.125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C3\SEDIMENTI_C3_COLIFORMI TOTALI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 29.990929966892
Z 25%-tile: 36.615497665205
Z Median: 45.258273567693
Z 75%-tile: 53.576025659178
Z Maximum: 62.489854198692

Z Midrange: 46.240392082792
Z Range: 32.4989242318
Z Interquartile Range: 16.960527993972
Z Median Abs. Deviation: 8.4872492833883

Z Mean: 45.406409228334
Z Trim Mean (10%): 45.315816184757
Z Standard Deviation: 10.030452261466
Z Variance: 100.60997256954

Z Coef. of Variation: 0.22090388629996
Z Coef. of Skewness: 0.093837852254862

Z Root Mean Square: 46.50109645568
Z Mean Square: 2162.3519715805

Gridding Report Sedimenti_C3_Diossine_e_Furani

Fri Feb 25 08:41:01 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_DIOSSINE.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.001016
25%-tile:	685529.5	4481572.4	0.0011735
Median:	686438.4	4482102.6	0.0015965
75%-tile:	686954.1	4482509.1	0.001715
Maximum:	686954.1	4482509.1	0.001715
Midrange:	686221.1	4481914.8	0.0013655
Range:	1466	1188.5999999996	0.000699
Interquartile Range:	1424.6	936.69999999925	0.0005415
Median Abs. Deviation:	908.90000000002	530.19999999925	0.000423
Mean:	686102.525	4481876.15	0.00137525
Trim Mean (10%):	685983.95	4481837.5	0.001385
Standard Deviation:	621.26236959517	461.76733589524	0.00028902649100039
Variance:	385966.931875	213229.07249978	8.35363125E-008
Coef. of Variation:			0.21016287293248
Coef. of Skewness:			-0.046894819829798

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.880
Y:		1.000	-0.295
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	0.15808599375
Y:		213229.07249978	-0.039313875000035
Z:			8.35363125E-008

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	3.9490182242701E-007		-8.6419613456528E-008
Standard Error:	2.1702351614498E-007		2.9198372015484E-007

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	2.6331235233742E-007		
		1.3165617616871E-007	1.8587	
Residual:	1	7.0832897662582E-008		
		7.0832897662582E-008		
Total:	3	3.3414525E-007		

Coefficient of Multiple Determination (R^2): 0.78801764303822

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.0001185
25%-tile:	936.81743151981	0.0001185
Median:	937.61444634701	0.0001575
75%-tile:	937.61444634701	0.0001575
Maximum:	937.61444634701	0.0001575
Midrange:	937.21593893341	0.000138
Range:	0.79701482720043	3.9E-005
Interquartile Range:	0.79701482720043	3.9E-005
Median Abs. Deviation:	0.79701482720043	3.9E-005
Mean:	937.21593893341	0.000138
Trim Mean (10%):	937.21593893341	0.000138
Standard Deviation:	0.39850741360021	1.95E-005
Variance:	0.15880815869433	3.8025E-010
Coef. of Variation:	0.000425203410490150.14130434782609	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	0.00013937090801168
Mean Square:	878373.87499899	1.942425E-008

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep: First
X Duplicate Tolerance: 0.00017
Y Duplicate Tolerance: 0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_DIOSSINE.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.0010164675660914
Z 25%-tile: 0.0011864277815709
Z Median: 0.0014209271806266
Z 75%-tile: 0.0015972594546844
Z Maximum: 0.0017198871693057

Z Midrange: 0.0013681773676986
Z Range: 0.00070341960321432
Z Interquartile Range: 0.00041083167311356
Z Median Abs. Deviation: 0.00020275619853777

Z Mean: 0.0013979393117777
Z Trim Mean (10%): 0.0014006717209972
Z Standard Deviation: 0.00022384542506845
Z Variance: 5.0106774324073E-008

Z Coef. of Variation: 0.16012528096358

Z Coef. of Skewness:	-0.13780499323475
Z Root Mean Square:	0.0014157475388422
Z Mean Square:	2.0043410937376E-006

Gridding Report Sedimenti_C3_Idrocarburi_C>12

Fri Feb 25 08:41:39 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_IDROCARBURI.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	31.675
25%-tile:	685529.5	4481572.4	41.8975
Median:	686438.4	4482102.6	64.5
75%-tile:	686954.1	4482509.1	77.25
Maximum:	686954.1	4482509.1	77.25
Midrange:	686221.1	4481914.8	54.4625
Range:	1466	1188.5999999996	45.575
Interquartile Range:	1424.6	936.69999999925	35.3525
Median Abs. Deviation:	908.90000000002	530.19999999925	22.6025
Mean:	686102.525	4481876.15	53.830625
Trim Mean (10%):	685983.95	4481837.5	53.19875
Standard Deviation:	621.26236959517	461.76733589524	17.997040587882
Variance:	385966.931875	213229.07249978	323.89346992187
Coef. of Variation:			0.33432717134312
Coef. of Skewness:			0.063666134822143

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.132
Y:		1.000	0.998
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-1476.8045156253
Y:		213229.07249978	8293.7082812457
Z:			323.89346992187

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0014677536200471	0.038968431701701	-175604.8834971
Standard Error:	0.002762299748663	0.0037164016652397	17102.868591041

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	1284.0986067152	642.04930335759	55.951
Residual:	1	11.475272972326	11.475272972326	
Total:	3	1295.5738796875		

Coefficient of Multiple Determination (R^2): 0.99114271046041

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	32.825
25%-tile:	936.81743151981	32.825
Median:	937.61444634701	35.3525
75%-tile:	937.61444634701	35.3525
Maximum:	937.61444634701	35.3525
Midrange:	937.21593893341	34.08875
Range:	0.79701482720043	2.5275
Interquartile Range:	0.79701482720043	2.5275
Median Abs. Deviation:	0.79701482720043	2.5275
Mean:	937.21593893341	34.08875
Trim Mean (10%):	937.21593893341	34.08875
Standard Deviation:	0.39850741360021	1.26375
Variance:	0.15880815869433	1.5970640625
Coef. of Variation:	0.000425203410490150	0.037072347915368
Coef. of Skewness:	0	8.3612327304559E-015
Root Mean Square:	937.21602365676	34.112167046744
Mean Square:	878373.87499899	1163.639940625

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C3\SEDIMENTI_C3_IDROCARBURI.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 30.935588533148
Z 25%-tile: 43.623530132426
Z Median: 58.355085768194
Z 75%-tile: 69.898745846951
Z Maximum: 79.061085441236

Z Midrange: 54.998336987192
Z Range: 48.125496908087
Z Interquartile Range: 26.275215714525
Z Median Abs. Deviation: 12.740089535951

Z Mean: 56.8535077639
Z Trim Mean (10%): 57.038540421325
Z Standard Deviation: 14.257717631165
Z Variance: 203.28251205005

Z Coef. of Variation: 0.25077991124795
Z Coef. of Skewness: -0.17431586083155

Z Root Mean Square: 58.614024406364
Z Mean Square: 3435.6038571098

Gridding Report Sedimenti_C3_IPA

Fri Feb 25 08:42:37 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_IPA.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	0.86784
25%-tile:	685529.5	4481572.4	1.1063285
Median:	686438.4	4482102.6	1.21954975
75%-tile:	686954.1	4482509.1	1.3384675
Maximum:	686954.1	4482509.1	1.3384675
Midrange:	686221.1	4481914.8	1.10315375
Range:	1466	1188.5999999996	0.4706275
Interquartile Range:	1424.6	936.69999999925	0.232139
Median Abs. Deviation:	908.90000000002	530.19999999925	0.11891775
Mean:	686102.525	4481876.15	1.1330464375
Trim Mean (10%):	685983.95	4481837.5	1.162939125
Standard Deviation:	621.26236959517	461.76733589524	0.17373035044847
Variance:	385966.931875	213229.07249978	0.030182234666949
Coef. of Variation:			0.15333030024065
Coef. of Skewness:			-0.44609940103432

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.451
Y:		1.000	-0.347
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-48.671781073435
Y:		213229.07249978	-27.832591496861
Z:			0.030182234666949

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.00014754582243467		-0.000165661017173
Standard Error:	844.8367689368	0.000221167292042660	0.000297558761623081369.3644704101

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	0.04716529730318	0.02358264865159	0.32057
Residual:	1	0.073563641364617	0.073563641364617	
Total:	3	0.1207289386678		

Coefficient of Multiple Determination (R^2): 0.39067101743487

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	0.11322125
25%-tile:	936.81743151981	0.11322125
Median:	937.61444634701	0.4706275
75%-tile:	937.61444634701	0.4706275
Maximum:	937.61444634701	0.4706275
Midrange:	937.21593893341	0.291924375
Range:	0.79701482720043	0.35740625
Interquartile Range:	0.79701482720043	0.35740625
Median Abs. Deviation:	0.79701482720043	0.35740625
Mean:	937.21593893341	0.291924375
Trim Mean (10%):	937.21593893341	0.291924375
Standard Deviation:	0.39850741360021	0.178703125
Variance:	0.15880815869433	0.031934806884766
Coef. of Variation:	0.000425203410490150	0.61215554542165
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	0.34227861108154
Mean Square:	878373.87499899	0.11715464760391

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C3\SEDIMENTI_C3_IPA.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 0.86950651506365
Z 25%-tile: 1.0140208228907
Z Median: 1.1387522425805
Z 75%-tile: 1.1831337612747
Z Maximum: 1.3360864057762

Z Midrange: 1.1027964604199
Z Range: 0.46657989071255
Z Interquartile Range: 0.16911293838402
Z Median Abs. Deviation: 0.061673474956776

Z Mean: 1.1024951627777
Z Trim Mean (10%): 1.1036090194927
Z Standard Deviation: 0.1132782668513
Z Variance: 0.012831965740835

Z Coef. of Variation: 0.10274717810635
Z Coef. of Skewness: -0.46354314198967

Z Root Mean Square: 1.1082993953301
Z Mean Square: 1.228327549689

Gridding Report Sedimenti_C3_PCB

Fri Feb 25 08:43:14 2022
Elapsed time for gridding: 0.01 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_PCB.dat
X Column: B
Y Column: C
Z Column: D

Data Counts

Active Data: 4
Original Data: 4
Excluded Data: 0
Deleted Duplicates: 0
Retained Duplicates: 0
Artificial Data: 0
Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	5.87407375
25%-tile:	685529.5	4481572.4	11.1309025
Median:	686438.4	4482102.6	13.61098
75%-tile:	686954.1	4482509.1	50.697195
Maximum:	686954.1	4482509.1	50.697195
Midrange:	686221.1	4481914.8	28.285634375
Range:	1466	1188.5999999996	44.82312125
Interquartile Range:	1424.6	936.69999999925	39.5662925
Median Abs. Deviation:	908.9000000002	530.19999999925	7.73690625
Mean:	686102.525	4481876.15	20.3282878125
Trim Mean (10%):	685983.95	4481837.5	12.37094125
Standard Deviation:	621.26236959517	461.76733589524	17.754639877804
Variance:	385966.931875	213229.07249978	315.22723719051
Coef. of Variation:			0.87339573512367
Coef. of Skewness:			1.0679145909685

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	-0.435
Y:		1.000	0.829
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	-4796.5632444455
Y:		213229.07249978	6800.4650301371
Z:			315.22723719051

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	-0.0083325030865269	0.029619493155557	-127013.62031178
Standard Error:	0.014013595161707	0.018853909109673	86765.629492139

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	965.57011778532	482.78505889266	1.6347
Residual:	1	295.3388309767	295.3388309767	
Total:	3	1260.908948762		

Coefficient of Multiple Determination (R^2): 0.76577307087346

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	2.4800775
25%-tile:	936.81743151981	2.4800775
Median:	937.61444634701	44.82312125
75%-tile:	937.61444634701	44.82312125
Maximum:	937.61444634701	44.82312125
Midrange:	937.21593893341	23.651599375
Range:	0.79701482720043	42.34304375
Interquartile Range:	0.79701482720043	42.34304375
Median Abs. Deviation:	0.79701482720043	42.34304375
Mean:	937.21593893341	23.651599375
Trim Mean (10%):	937.21593893341	23.651599375
Standard Deviation:	0.39850741360021	21.171521875
Variance:	0.15880815869433	448.2333385036
Coef. of Variation:	0.000425203410490150.89514123503117	
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	31.743211738876
Mean Square:	878373.87499899	1007.6314914991

Complete Spatial Randomness

Lambda:	2.2955687030434E-006
Clark and Evans:	2.8399769100918
Skellam:	50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

Duplicate Filtering

Duplicate Points to Keep:	First
X Duplicate Tolerance:	0.00017
Y Duplicate Tolerance:	0.00014

No duplicate data were found.

Breakline Filtering

Breakline Filtering: Not In Use

Gridding Rules

Gridding Method: Kriging
Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

Grid File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche
surfer\SEDIMENT\DAT\C3\SEDIMENTI_C3_PCB.grd
Grid Size: 81 rows x 100 columns
Total Nodes: 8100
Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

X Minimum: 685000
X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 5.572547129337
Z 25%-tile: 10.740712446396
Z Median: 17.59070501632
Z 75%-tile: 29.730015012126
Z Maximum: 50.616508921906

Z Midrange: 28.094528025622
Z Range: 45.043961792569
Z Interquartile Range: 18.989302565729
Z Median Abs. Deviation: 8.0509554710223

Z Mean: 21.435501503515
Z Trim Mean (10%): 20.757788122102
Z Standard Deviation: 12.817911862774
Z Variance: 164.29886452183

Z Coef. of Variation: 0.59797583278709
Z Coef. of Skewness: 0.77381921229309

Z Root Mean Square: 24.975579857714
Z Mean Square: 623.77958922905

Gridding Report Sedimenti_C3_Zinco

Fri Feb 25 08:43:56 2022

Elapsed time for gridding: 0.02 seconds

Data Source

Source Data File Name: Y:\5352_ENI_Carte tematiche geostatistiche inquinanti\carte tematiche surfer\SEDIMENTI\DAT\C3\SEDIMENTI_C3_ZINCO.dat

X Column: B

Y Column: C

Z Column: D

Data Counts

Active Data: 4

Original Data: 4

Excluded Data: 0

Deleted Duplicates: 0

Retained Duplicates: 0

Artificial Data: 0

Superseded Data: 0

Univariate Statistics

	X	Y	Z
Minimum:	685488.1	4481320.5	21
25%-tile:	685529.5	4481572.4	23.425
Median:	686438.4	4482102.6	57.75
75%-tile:	686954.1	4482509.1	65.175
Maximum:	686954.1	4482509.1	65.175
Midrange:	686221.1	4481914.8	43.0875
Range:	1466	1188.5999999996	44.175
Interquartile Range:	1424.6	936.69999999925	41.75
Median Abs. Deviation:	908.90000000002	530.19999999925	34.325
Mean:	686102.525	4481876.15	41.8375
Trim Mean (10%):	685983.95	4481837.5	40.5875
Standard Deviation:	621.26236959517	461.76733589524	19.818350871099
Variance:	385966.931875	213229.07249978	392.76703125
Coef. of Variation:			0.47369825804838
Coef. of Skewness:			0.04656339404001

Inter-Variable Correlation

	X	Y	Z
X:	1.000	-0.182	0.101
Y:		1.000	0.954
Z:			1.000

Inter-Variable Covariance

	X	Y	Z
X:	385966.931875	-52158.436250084	1241.9134374997
Y:		213229.07249978	8733.7881249944
Z:			392.76703125

Planar Regression: $Z = AX + BY + C$

Fitted Parameters

	A	B	C
Parameter Value:	0.0089852682019995	0.042856066075256	-198198.55813657
Standard Error:	0.0044102040524441	0.0059334942532879	27305.921598529

Inter-Parameter Correlations

	A	B	C
A:	1.000	-0.182	-0.288
B:		1.000	0.994
C:			1.000

ANOVA Table

Source	df	Sum of Squares	Mean Square	F
Regression:	2	1541.8172551534	770.90862757671	26.355
Residual:	1	29.250869846572	29.250869846572	
Total:	3	1571.068125		

Coefficient of Multiple Determination (R^2): 0.98138153948826

Nearest Neighbor Statistics

	Separation	Delta Z
Minimum:	936.81743151981	34.325
25%-tile:	936.81743151981	34.325
Median:	937.61444634701	44.175
75%-tile:	937.61444634701	44.175
Maximum:	937.61444634701	44.175
Midrange:	937.21593893341	39.25
Range:	0.79701482720043	9.85
Interquartile Range:	0.79701482720043	9.85
Median Abs. Deviation:	0.79701482720043	9.85
Mean:	937.21593893341	39.25
Trim Mean (10%):	937.21593893341	39.25
Standard Deviation:	0.39850741360021	4.925
Variance:	0.15880815869433	24.255625
Coef. of Variation:	0.000425203410490150	12547770700637
Coef. of Skewness:	0	0
Root Mean Square:	937.21602365676	39.557782104157
Mean Square:	878373.87499899	1564.818125

Complete Spatial Randomness

Lambda: 2.2955687030434E-006
Clark and Evans: 2.8399769100918
Skellam: 50.676844535188

Exclusion Filtering

Exclusion Filter String: Not In Use

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Gridding Rules

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Kriging Type: Point

Polynomial Drift Order: 0
Kriging std. deviation grid: no

Semi-Variogram Model

Component Type: Linear
Anisotropy Angle: 0
Anisotropy Ratio: 1
Variogram Slope: 1

Search Parameters

No Search (use all data): true

Output Grid

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surfer\SEDIMENT\DAT\C3\SEDIMENTI_C3_ZINCO.grd
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Filled Nodes: 8100
Blanked Nodes: 0

Grid Geometry

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X Maximum: 687500
X Spacing: 25.25252525252525

Y Minimum: 4481000
Y Maximum: 4483000
Y Spacing: 25

Grid Statistics

Z Minimum: 17.574792425899
Z 25%-tile: 31.500784308295
Z Median: 47.784097573498
Z 75%-tile: 60.96176711345
Z Maximum: 68.024744185875

Z Midrange: 42.799768305887
Z Range: 50.449951759976
Z Interquartile Range: 29.460982805156
Z Median Abs. Deviation: 14.17333288556

Z Mean: 45.686682381673
Z Trim Mean (10%): 46.007439739197
Z Standard Deviation: 15.963978557893
Z Variance: 254.84861139686

Z Coef. of Variation: 0.34942302057583
Z Coef. of Skewness: -0.27130356010435

Z Root Mean Square: 48.395470433097
Z Mean Square: 2342.1215584408