

Appendix A: Backscattered Electron Photomicrographs and EDS microanalyses

Key to Archive Plates A1-A92

WP3-LP3 Plate Archive		Plate A5	<i>a</i> LP4-5-SOI5s
			<i>b</i> LP4-6-SOI1
Plate A1	<i>a</i> LP3-1-SOI1		<i>c</i> LP4-6-SOI2
	<i>b</i> LP3-1-SOI2s		<i>d</i> LP4-6-SOI3s
	<i>c</i> LP3-2-SOI1		<i>e</i> LP4-6-SOI4s
	<i>d</i> LP3-2-SOI2s		<i>f</i> LP4-6-SOI5
	<i>e</i> LP3-2-SOI3		<i>g</i> LP4-6-SOI6s
	<i>f</i> LP3-3-SOI1		<i>h</i> LP4-6-SOI7s
	<i>g</i> LP3-3-SOI2s		
	<i>h</i> LP3-3-SOI3s	Plate A6	<i>a</i> LP4-7-SOI1
			<i>b</i> LP4-7-SOI2
Plate A2	<i>a</i> LP3-3-SOI4s		<i>c</i> LP4-7-SOI3
	<i>b</i> LP3-3-SOI5		<i>d</i> LP4-7-SOI4
	<i>c</i> LP3-3-SOI6s		<i>e</i> LP4-7-SOI5s
	<i>d</i> LP3-4-SOI1s		<i>f</i> LP4-7-SOI6s
	<i>e</i> LP3-4-SOI2		<i>g</i> LP4-8-SOI1
	<i>f</i> LP3-4-SOI3		<i>h</i> LP4-8-SOI2s
	<i>g</i> LP3-4-SOI4s		
		Plate A7	<i>a</i> LP4-8-SOI3s
			<i>b</i> LP4-8-SOI4s
			<i>c</i> LP4-9-SOI1
			<i>d</i> LP4-9-SOI2s
			<i>e</i> LP4-9-SOI3s
			<i>f</i> LP4-10-SOI1s
			<i>g</i> LP4-10-SOI2
			<i>h</i> LP4-10-SOI3s
		Plate A8	<i>a</i> LP4-10-SOI4s
			<i>b</i> LP4-11-SOI1s
			<i>c</i> LP4-11-SOI2s
			<i>d</i> LP4-11-SOI3s
			<i>e</i> LP4-12-SOI1
			<i>f</i> LP4-12-SOI2
			<i>g</i> LP4-12-SOI3s
			<i>h</i> LP4-12-SOI4s
WP3-LP4 Plate Archive			
Plate A3	<i>a</i> LP4-1-SOI1		
	<i>b</i> LP4-1-SOI2		
	<i>c</i> LP4-1-SOI3s		
	<i>d</i> LP4-1-SOI4bs		
	<i>e</i> LP4-1-SOI4s		
	<i>f</i> LP4-2-SOI1s		
	<i>g</i> LP4-2-SOI2s		
	<i>h</i> LP4-3-SOI1s		
Plate A4	<i>a</i> LP4-3-SOI2s		
	<i>b</i> LP4-4-SOI1s		
	<i>c</i> LP4-4-SOI2s		
	<i>d</i> LP4-4-SOI3s		
	<i>e</i> LP4-5-SOI1		
	<i>f</i> LP4-5-SOI2		
	<i>g</i> LP4-5-SOI3		
	<i>h</i> LP4-5-SOI4s		

Plate A9	<i>a</i>	LP4-12-SOI5s	Plate A14	<i>a</i>	LP4-21-SOI5s
	<i>b</i>	LP4-12-SOI6s		<i>b</i>	LP4-22-SOI1
	<i>c</i>	LP4-13-SOI1s		<i>c</i>	LP4-22-SOI2s
	<i>d</i>	LP4-13-SOI2s		<i>d</i>	LP4-22-SOI3s
	<i>e</i>	LP4-13-SOI3s		<i>e</i>	LP4-22-SOI4
	<i>f</i>	LP4-14-SOI1		<i>f</i>	LP4-22-SOI5s
	<i>g</i>	LP4-14-SOI2s		<i>g</i>	LP4-23-SOI3s
	<i>h</i>	LP4-14-SOI3s		<i>h</i>	LP4-23-SOI4s
Plate A10	<i>a</i>	LP4-15-SOI2s	Plate A15	<i>a</i>	LP4-23-SOI5s
	<i>b</i>	LP4-15-SOI4		<i>b</i>	LP4-23-SOI6s
	<i>c</i>	LP4-15-SOI5		<i>c</i>	LP4-23-SOI7
	<i>d</i>	LP4-15-SOI6		<i>d</i>	LP4-23-SOI8s
	<i>e</i>	LP4-15-SOI7		<i>e</i>	LP4-23-SOI9s
	<i>f</i>	LP4-15-SOI8		<i>f</i>	LP4-23-SOI10
	<i>g</i>	LP4-15-SOI9s		<i>g</i>	LP4-23-SOI11s
	<i>h</i>	LP4-15-SOI10s		<i>h</i>	LP4-23-SOI12
Plate A11	<i>a</i>	LP4-16-SOI1	Plate A16	<i>a</i>	LP4-23-SOI13s
	<i>b</i>	LP4-16-SOI2		<i>b</i>	LP4-23-SOI14s
	<i>c</i>	LP4-16-SOI3s		<i>c</i>	LP4-24-SOI1
	<i>d</i>	LP4-16-SOI4		<i>d</i>	LP4-24-SOI2
	<i>e</i>	LP4-16-SOI5s		<i>e</i>	LP4-24-SOI3
	<i>f</i>	LP4-16-SOI6s		<i>f</i>	LP4-24-SOI4
	<i>g</i>	LP4-16-SOI7s		<i>g</i>	LP4-24-SOI5
	<i>h</i>	LP4-17-SOI1		<i>h</i>	LP4-24-SOI6
Plate A12	<i>a</i>	LP4-17-SOI2s	Plate A17	<i>a</i>	LP4-24-SOI7s
	<i>b</i>	LP4-18-SOI1		<i>b</i>	LP4-24-SOI8
	<i>c</i>	LP4-18-SOI2s		<i>c</i>	LP4-24-SOI9s
	<i>d</i>	LP4-18-SOI3s		<i>d</i>	LP4-24-SOI11s
	<i>e</i>	LP4-18-SOI4		<i>e</i>	LP4-24-SOI12s
	<i>f</i>	LP4-18-SOI5s		<i>f</i>	LP4-24-SOI13
	<i>g</i>	LP4-20-SOI1s		<i>g</i>	LP4-24-SOI14
	<i>h</i>	LP4-20-SOI2		<i>h</i>	LP4-24-SOI15s
Plate A13	<i>a</i>	LP4-20-SOI3s	Plate A18	<i>a</i>	LP4-24-SOI16
	<i>b</i>	LP4-20-SOI4s		<i>b</i>	LP4-24-SOI17s
	<i>c</i>	LP4-20-SOI5s		<i>c</i>	LP4-24-SOI8
	<i>d</i>	LP4-20-SOI6s		<i>d</i>	LP4-24-SOI19
	<i>e</i>	LP4-21-SOI1s		<i>e</i>	LP4-24-SOI20
	<i>f</i>	LP4-21-SOI2s		<i>f</i>	LP4-24-SOI21
	<i>g</i>	LP4-21-SOI3s		<i>g</i>	LP4-24-SOI22
	<i>h</i>	LP4-21-SOI4s		<i>h</i>	LP4-24-SOI23s

Plate A19

a LP4-24-SOI24s
b LP4-24-SOI25
c LP4-24-SOI26s
d LP4-24-SOI27s
e LP4-24-SOI28s
f LP4-24-SOI29
g LP4-24-SOI30
h LP4-24-SOI31

Plate A24

a LP4-25-SOI20s
b LP4-25-SOI21s
c LP4-25-SOI22s
d LP4-25-SOI23s
e LP4-25-SOI24s
f LP4-25-SOI25s
g LP4-25-SOI26s
h LP4-25-SOI27

Plate A20

a LP4-24-SOI32s
b LP4-24-SOI33
c LP4-24-SOI34s
d LP4-24-SOI35
e LP4-24-SOI36
f LP4-24-SOI37
g LP4-24-SOI38s
h LP4-24-SOI39

Plate A25

a LP4-25-SOI29s
b LP4-25-SOI30s
c LP4-25-SOI31
d LP4-25-SOI32s
e LP4-25-SOI33s
f LP4-25-SOI34s
g LP4-25-SOI35s
h LP4-25-SOI36s

Plate A21

a LP4-24-SOI40
b LP4-24-SOI41s
c LP4-24-SOI42s
d LP4-24-SOI43s
e LP4-24-SOI44
f LP4-24-SOI45
g LP4-25-SOI1
h LP4-25-SOI2

Plate A26

a LP4-25-SOI37
b LP4-25-SOI38s
c LP4-25-SOI39s
d LP4-25-SOI40s
e LP4-25-SOI41s
f LP4-25-SOI42s
g LP4-25-SOI43s
h LP4-25-SOI44

Plate A22

a LP4-25-SOI3
b LP4-25-SOI4
c LP4-25-SOI5
d LP4-25-SOI6
e LP4-25-SOI7
f LP4-25-SOI8
g LP4-25-SOI9
h LP4-25-SOI10

Plate A27

a LP4-25-SOI45
b LP4-26-SOI1
c LP4-27-SOI1
d LP4-27-SOI2
e LP4-27-SOI3
f LP4-27-SOI4
g LP4-27-SOI5
h LP4-27-SOI6

Plate A23

a LP4-25-SOI11
b LP4-25-SOI12
c LP4-25-SOI13
d LP4-25-SOI14s
e LP4-25-SOI15s
f LP4-25-SOI16s
g LP4-25-SOI17
h LP4-25-SOI18s

Plate A28

a LP4-28-SOI2s

WP5 Plate Archive

Plate A29

- a* Gov1-SOI1
- b* Gov1-SOI2
- c* Gov3-SOI1
- d* Gov3-SOI2
- e* Gov3-SOI3
- f* Gov3-SOI4
- g* Gov4-SOI1
- h* Gov4-SOI2

Plate A34

- a* Gov9-SOI18s
- b* Gov10-SOI1
- c* Gov10-SOI2
- d* Gov10-SOI3
- e* Gov10-SOI4
- f* Gov10-SOI5
- g* Gov10-SOI6
- h* Gov10-SOI7

Plate A30

- a* Gov4-SOI3
- b* Gov4-SOI4
- c* Gov4-SOI5
- d* Gov4-SOI6s
- e* Gov4-SOI7s
- f* Gov5-SOI1
- g* Gov5-SOI2
- h* Gov5-SOI3s

Plate A35

- a* Gov10-SOI8
- b* Gov10-SOI9
- c* Gov10-SOI10s
- d* Gov10-SOI11
- e* Gov10-SOI12s
- f* Gov10-SOI13s
- g* Gov10-SOI14s
- h* Gov10-SOI15

Plate A31

- a* Gov6-SOI1
- b* Gov6-SOI2
- c* Gov6-SOI3
- d* Gov6-SOI4s
- e* Gov7-SOI1
- f* Gov7-SOI2
- g* Gov7-SOI3s
- h* Gov8-SOI1s

Plate A36

- a* Gov10-SOI16
- b* Gov10-SOI17s
- c* Gov11-SOI1
- d* Gov11-SOI2
- e* Gov11-SOI3
- f* Gov11-SOI4s
- g* Gov12-SOI1
- h* Gov12-SOI2

Plate A32

- a* Gov8-SOI2s
- b* Gov9-SOI1
- c* Gov9-SOI2s
- d* Gov9-SOI4s
- e* Gov9-SOI6s
- f* Gov9-SOI7
- g* Gov9-SOI8
- h* Gov9-SOI9

Plate A37

- a* Gov12-SOI3s
- b* Gov12-SOI4s
- c* Gov12-SOI5s
- d* Gov12-SOI6
- e* Gov12-SOI7
- f* Gov12-SOI8
- g* Gov12-SOI9
- h* Gov12-SOI10

Plate A33

- a* Gov9-SOI10
- b* Gov9-SOI11s
- c* Gov9-SOI12
- d* Gov9-SOI13
- e* Gov9-SOI14
- f* Gov9-SOI15
- g* Gov9-SOI16
- h* Gov9-SOI17

Plate A38

- a* Gov12-SOI11
- b* Gov12-SOI12
- c* Gov12-SOI13
- d* Gov12-SOI14
- e* Gov12-SOI15
- f* Gov12-SOI16
- g* Gov12-SOI17s
- h* Gov12-SOI18s

Plate A39

- a* Gov12-SOI19s
- b* Gov13-SOI1
- c* Gov13-SOI2
- d* Gov13-SOI3
- e* Gov13-SOI4
- f* Gov13-SOI5
- g* Gov13-SOI6
- h* Gov13-SOI7

Plate A44

- a* Gov14-SOI6
- b* Gov14-SOI7
- c* Gov14-SOI8
- d* Gov14-SOI9
- e* Gov14-SOI10
- f* Gov14-SOI11
- g* Gov14-SOI12
- h* Gov14-SOI13

Plate A40

- a* Gov13-SOI8
- b* Gov13-SOI9
- c* Gov13-SOI10
- d* Gov13-SOI11
- e* Gov13-SOI12
- f* Gov13-SOI13
- g* Gov13-SOI14s
- h* Gov13-SOI15s

Plate A45

- a* Gov14-SOI14
- b* Gov14-SOI15
- c* Gov14-SOI16
- d* Gov14-SOI17
- e* Gov14-SOI18s
- f* Gov14-SOI19s
- g* Gov15-SOI1
- h* Gov15-SOI2

Plate A41

- a* Gov13-SOI16s
- b* Gov13-SOI17
- c* Gov13-SOI18s
- d* Gov13-SOI19s
- e* Gov13-SOI20s
- f* Gov13-SOI21
- g* Gov13-SOI22
- h* Gov13-SOI23

Plate A46

- a* Gov15-SOI3
- b* Gov15-SOI4
- c* Gov15-SOI5
- d* Gov15-SOI6
- e* Gov15-SOI7
- f* Gov15-SOI8
- g* Gov15-SOI9
- h* Gov15-SOI10

Plate A42

- a* Gov13-SOI24
- b* Gov13-SOI25s
- c* Gov13-SOI26
- d* Gov13-SOI27
- e* Gov13-SOI28
- f* Gov13-SOI29
- g* Gov13-SOI30
- h* Gov13-SOI31

Plate A47

- a* Gov15-SOI11
- b* Gov15-SOI12
- c* Gov15-SOI13
- d* Gov15-SOI14
- e* Gov15-SOI15
- f* Gov15-SOI16
- g* Gov15-SOI17
- h* Gov15-SOI18

Plate A43

- a* Gov13-SOI32
- b* Gov13-SOI33
- c* Gov13-SOI34
- d* Gov14-SOI1
- e* Gov14-SOI2
- f* Gov14-SOI3
- g* Gov14-SOI4
- h* Gov14-SOI5

Plate A48

- a* Gov15-SOI19
- b* Gov15-SOI20
- c* Gov15-SOI21
- d* Gov15-SOI22
- e* Gov15-SOI23
- f* Gov15-SOI24
- g* Gov15-SOI25
- h* Gov15-SOI26

Plate A49	<i>a</i> Gov15-SOI27	Plate A54	<i>a</i> Gov17-SOI35s
	<i>b</i> Gov15-SOI28		<i>b</i> Gov17-SOI36
	<i>c</i> Gov15-SOI29		<i>c</i> Gov17-SOI37
	<i>d</i> Gov15-SOI30		<i>d</i> Gov17-SOI38
	<i>e</i> Gov15-SOI31		<i>e</i> Gov17-SOI39
	<i>f</i> Gov15-SOI32		<i>f</i> Gov17-SOI40
	<i>g</i> Gov17-SOI1		<i>g</i> Gov17-SOI41
	<i>h</i> Gov17-SOI2		<i>h</i> Gov17-SOI42
Plate A50	<i>a</i> Gov17-SOI3s	Plate A55	<i>a</i> Gov17-SOI43
	<i>b</i> Gov17-SOI4s		<i>b</i> Gov17-SOI44
	<i>c</i> Gov17-SOI5		<i>c</i> Gov17-SOI45
	<i>d</i> Gov17-SOI6s		<i>d</i> Gov17-SOI46
	<i>e</i> Gov17-SOI7s		<i>e</i> Gov17-SOI47
	<i>f</i> Gov17-SOI8		<i>f</i> Gov17-SOI48s
	<i>g</i> Gov17-SOI9		<i>g</i> Gov17-SOI49s
	<i>h</i> Gov17-SOI10s		<i>h</i> Gov17-SOI50s
Plate A51	<i>a</i> Gov17-SOI11	Plate A56	<i>a</i> Gov17-SOI51s
	<i>b</i> Gov17-SOI12s		<i>b</i> Gov17-SOI52s
	<i>c</i> Gov17-SOI13		<i>c</i> Gov18-SOI1
	<i>d</i> Gov17-SOI14s		<i>d</i> Gov18-SOI2
	<i>e</i> Gov17-SOI15		<i>e</i> Gov18-SOI3s
	<i>f</i> Gov17-SOI16s		<i>f</i> Gov18-SOI4
	<i>g</i> Gov17-SOI17		<i>g</i> Gov18-SOI5s
	<i>h</i> Gov17-SOI18s		<i>h</i> Gov18-SOI6
Plate A52	<i>a</i> Gov17-SOI19s	Plate A57	<i>a</i> Gov18-SOI7
	<i>b</i> Gov17-SOI20		<i>b</i> Gov18-SOI8s
	<i>c</i> Gov17-SOI21		<i>c</i> Gov18-SOI9
	<i>d</i> Gov17-SOI22s		<i>d</i> Gov18-SOI10
	<i>e</i> Gov17-SOI23		<i>e</i> Gov18-SOI11
	<i>f</i> Gov17-SOI24s		<i>f</i> Gov18-SOI12
	<i>g</i> Gov17-SOI25		<i>g</i> Gov18-SOI13s
	<i>h</i> Gov17-SOI26		<i>h</i> Gov18-SOI14
Plate A53	<i>a</i> Gov17-SOI27s	Plate A58	<i>a</i> Gov18-SOI15
	<i>b</i> Gov17-SOI28		<i>b</i> Gov18-SOI16s
	<i>c</i> Gov17-SOI29s		<i>c</i> Gov18-SOI17
	<i>d</i> Gov17-SOI30		<i>d</i> Gov18-SOI18
	<i>e</i> Gov17-SOI31		<i>e</i> Gov18-SOI19
	<i>f</i> Gov17-SOI32		<i>f</i> Gov18-SOI20
	<i>g</i> Gov17-SOI33s		<i>g</i> Gov18-SOI21
	<i>h</i> Gov17-SOI34		<i>h</i> Gov18-SOI22s

Plate A59

- a* Gov18-SOI23s
- b* Gov19-SOI1
- c* Gov19-SOI2
- d* Gov19-SOI3s
- e* Gov19-SOI4
- f* Gov19-SOI5
- g* Gov19-SOI6
- h* Gov19-SOI7

Plate A64

- a* Gov19-SOI40s
- b* Gov20-SOI1
- c* Gov20-SOI2
- d* Gov20-SOI3
- e* Gov20-SOI4s
- f* Gov20-SOI5
- g* Gov20-SOI6
- h* Gov20-SOI7s

Plate A60

- a* Gov19-SOI8
- b* Gov19-SOI9
- c* Gov19-SOI10
- d* Gov19-SOI11s
- e* Gov19-SOI12
- f* Gov19-SOI13s
- g* Gov19-SOI14s
- h* Gov19-SOI15

Plate A65

- a* Gov20-SOI8
- b* Gov20-SOI9
- c* Gov20-SOI10
- d* Gov20-SOI11
- e* Gov20-SOI12
- f* Gov20-SOI13
- g* Gov20-SOI14
- h* Gov20-SOI15

Plate A61

- a* Gov19-SOI16
- b* Gov19-SOI17
- c* Gov19-SOI18
- d* Gov19-SOI19s
- e* Gov19-SOI20
- f* Gov19-SOI21s
- g* Gov19-SOI22
- h* Gov19-SOI23s

Plate A66

- a* Gov20-SOI16
- b* Gov20-SOI17
- c* Gov20-SOI18
- d* Gov20-SOI19
- e* Gov20-SOI20
- f* Gov20-SOI21
- g* Gov20-SOI22
- h* Gov20-SOI23

Plate A62

- a* Gov19-SOI24s
- b* Gov19-SOI25
- c* Gov19-SOI26s
- d* Gov19-SOI27
- e* Gov19-SOI28
- f* Gov19-SOI29
- g* Gov19-SOI30s
- h* Gov19-SOI31

Plate A67

- a* Gov20-SOI24
- b* Gov20-SOI25
- c* Gov20-SOI26
- d* Gov20-SOI27s
- e* Gov20-SOI28s
- f* Gov20-SOI29s
- g* Gov20-SOI30s
- h* Gov20-SOI31

Plate A63

- a* Gov19-SOI32s
- b* Gov19-SOI33s
- c* Gov19-SOI34
- d* Gov19-SOI35s
- e* Gov19-SOI36
- f* Gov19-SOI37s
- g* Gov19-SOI38
- h* Gov19-SOI39s

Plate A68

- a* Gov20-SOI32
- b* Gov20-SOI33s
- c* Gov20-SOI34
- d* Gov20-SOI35
- e* Gov20-SOI36
- f* Gov20-SOI37
- g* Gov20-SOI38
- h* Gov20-SOI39

Plate A69

a Gov20-SOI40s
b Gov20-SOI41s
c Gov20-SOI42
d Gov20-SOI43
e Gov20-SOI44s
f Gov20-SOI45s
g Gov20-SOI46
h Gov20-SOI48

Plate A74

a Gov22-SOI11
b Gov22-SOI12
c Gov22-SOI13s
d Gov22-SOI14
e Gov22-SOI15
f Gov22-SOI16s
g Gov22-SOI17
h Gov22-SOI18

Plate A70

a Gov20-SOI49
b Gov20-SOI50s
c Gov20-SOI51
d Gov20-SOI52
e Gov20-SOI53
f Gov20-SOI54s
g Gov20-SOI55
h Gov20-SOI56

Plate A75

a Gov22-SOI19s
b Gov22-SOI20
c Gov22-SOI21
d Gov22-SOI22
e Gov22-SOI23s
f Gov23-SOI1s
g Gov23-SOI2s
h Gov23-SOI3s

Plate A71

a Gov20-SOI57
b Gov20-SOI58
c Gov20-SOI59s
d Gov20-SOI60
e Gov20-SOI61
f Gov20-SOI62
g Gov20-SOI63
h Gov20-SOI64s

Plate A76

a Gov23-SOI4s
b Gov23-SOI5s
c Gov23-SOI6
d Gov23-SOI7s
e Gov23-SOI8
f Gov23-SOI9s
g Gov23-SOI10s
h Gov23-SOI11s

Plate A72

a Gov20-SOI65
b Gov20-SOI66
c Gov20-SOI67
d Gov20-SOI68
e Gov20-SOI69
f Gov20-SOI70
g Gov22-SOI1
h Gov22-SOI2

Plate A77

a Gov23-SOI12s
b Gov23-SOI13s
c Gov23-SOI14s
d Gov23-SOI15s
e Gov23-SOI16s
f Gov23-SOI17
g Gov23-SOI18s
h Gov23-SOI19

Plate A73

a Gov22-SOI3
b Gov22-SOI4
c Gov22-SOI5
d Gov22-SOI6
e Gov22-SOI7
f Gov22-SOI8s
g Gov22-SOI9
h Gov22-SOI10

Plate A78

a Gov23-SOI20s
b Gov23-SOI21s
c Gov23-SOI22s
d Gov23-SOI23s
e Gov23-SOI24s
f Gov23-SOI25s
g Gov23-SOI26
h Gov23-SOI27s

Plate A79

- a* Gov23-SOI28s
- b* Gov23-SOI29s
- c* Gov23-SOI30s
- d* Gov23-SOI31
- e* Gov23-SOI32s
- f* Gov23-SOI33
- g* Gov23-SOI34s
- h* Gov23-SOI35s

Plate A84

- a* Gov25c-SOI1s
- b* Gov25c-SOI2
- c* Gov25c-SOI3s
- d* Gov26a-SOI1s
- e* Gov26a-SOI2
- f* Gov26a-SOI3s
- g* Gov26a-SOI4s
- h* Gov26a-SOI5s

Plate A80

- a* Gov23-SOI36s
- b* Gov23-SOI37
- c* Gov23-SOI38s
- d* Gov23-SOI39s
- e* Gov24a-SOI1s
- f* Gov24a-SOI2
- g* Gov24a-SOI3
- h* Gov24a-SOI4

Plate A85

- a* Gov26a-SOI6s
- b* Gov26a-SOI7
- c* Gov26a-SOI8s
- d* Gov26a-SOI9
- e* Gov26a-SOI10s
- f* Gov26b-SOI3s
- g* Gov26b-SOI4s
- h* Gov27a-SOI1

Plate A81

- a* Gov24a-SOI5s
- b* Gov24b-SOI2
- c* Gov24b-SOI3
- d* Gov24b-SOI4
- e* Gov24b-SOI5
- f* Gov24b-SOI6
- g* Gov24b-SOI7s
- h* Gov24b-SOI8s

Plate A86

- a* Gov27a-SOI2
- b* Gov27a-SOI3
- c* Gov27a-SOI4
- d* Gov27a-SOI5
- e* Gov27a-SOI6
- f* Gov27a-SOI7s
- g* Gov27b-SOI1
- h* Gov27b-SOI2

Plate A82

- a* Gov24c-SOI1
- b* Gov24c-SOI2s
- c* Gov24c-SOI3s
- d* Gov24c-SOI4s
- e* Gov24c-SOI5s
- f* Gov24c-SOI6
- g* Gov24c-SOI7
- h* Gov25a-SOI1

Plate A87

- a* Gov27b-SOI3
- b* Gov27b-SOI4
- c* Gov27b-SOI5
- d* Gov27b-SOI6s
- e* Gov28-SOI1
- f* Gov28-SOI2s
- g* Gov28-SOI3s
- h* Gov28-SOI4

Plate A83

- a* Gov25a-SOI2s
- b* Gov25a-SOI3s
- c* Gov25a-SOI4s
- d* Gov25a-SOI5
- e* Gov25a-SOI6s
- f* Gov25a-SOI7
- g* Gov25a-SOI8s
- h* Gov25b-SOI1

Plate A88

- a* Gov28-SOI5s
- b* Gov36-SOI1
- c* Gov36-SOI2
- d* Gov36-SOI3s
- e* Gov36-SOI4
- f* Gov36-SOI5
- g* Gov36-SOI6s
- h* Gov36-SOI7s

Plate A89

- a* Gov36-SOI8
- b* Gov36-SOI9
- c* Gov36-SOI10
- d* Gov36-SOI11s
- e* Gov36-SOI12
- f* Gov36-SOI13
- g* Gov36-SOI14
- h* Gov36-SOI15

Plate A90

- a* Gov36-SOI16s
- b* Gov36-SOI17
- c* Gov36-SOI18s
- d* Gov36-SOI19
- e* Gov36-SOI20
- f* Gov36-SOI21s
- g* Gov37-SOI1
- h* Gov37-SOI2s

Plate A91

- a* Gov37-SOI3
- b* Gov37-SOI4s
- c* Gov37-SOI5
- d* Gov37-SOI6s
- e* Gov37-SOI7s
- f* Gov37-SOI8s
- g* Gov37-SOI9
- h* Gov37-SOI10s

Plate A92

- a* Gov37-SOI11
- b* Gov37-SOI12s
- c* Gov38a-SOI1
- d* Gov38a-SOI2

*Table A1. Archive of EDS analyses from WP3-LP3.
Elements presented as weight%. For locations of analyses see plates A1-A2.*

sample	site	no.	oxygen by	type	phase	notes	wt%																															
							O	Na	Mg	Al	Si	P	S	K	Ca	Ti	V	Cr	Mn	Fe	Cu	Zn	Ge	As	Mo	Ag	Sn	Sb	Ba	Pb	Total							
LP3-1	SOI 2	1	analysed	point	gahnite		31.74		0.37	27.95								1.49		35.23													96.79					
LP3-1	SOI 2	2	analysed	point	willemite?	zinc silicate	26.17		0.34		12.58										58.66											97.76						
LP3-1	SOI 2	3	analysed	point	zincite		18.07												0.22	0.40	79.96											98.66						
LP3-1	SOI 2	4	analysed	point	zincite		17.42											0.26	0.35	78.78													96.82					
LP3-1	SOI 2	5	analysed	point	gahnite		32.16		0.60	28.19								0.52		2.00		35.05											98.64					
LP3-1	SOI 2	6	analysed	point	gahnite		32.83		0.44	28.46											2.05		34.70											98.47				
LP3-1	SOI 2	7	analysed	point	willemite?	zinc silicate	26.94		0.98	0.18	12.69										0.41		56.58											98.10				
LP3-1	SOI 2	8	analysed	point	willemite/gahnite	mixed?	23.74			1.24	10.14												53.60											88.84				
LP3-1	SOI 2	9	analysed	point	ateration		59.41		0.66	8.23	25.53							0.96	5.34	0.70												4.82		124.16				
LP3-1	SOI 2	10	analysed	point	gahnite		32.21			25.16	1.41										0.23	0.35										0.45		98.76				
LP3-1	SOI 2	11	analysed	point	glass	altered zone	38.17		0.50	6.19	21.68									0.86	5.48	0.71										4.50		96.03				
LP3-1	SOI 2	12	analysed	point	glass		36.15		0.55	5.43	20.28										0.74	5.19	0.67										4.43		92.97			
LP3-2	SOI 2	1	analysed	point	zincite		19.57			0.46													0.81	1.06	77.05									98.95				
LP3-2	SOI 2	2	analysed	point	gahnite		33.89			28.88													0.84		35.29										98.91			
LP3-2	SOI 2	3	analysed	point	willemite		30.07		0.61	0.50	13.22											0.39	0.57	57.45											102.81			
LP3-2	SOI 2	4	analysed	point	willemite/glass		36.45			6.66	16.08									0.89	4.23	1.09			1.57	4.64	8.76						7.24		87.97			
LP3-2	SOI 2	5	analysed	point	glass		39.47		0.27	6.61	20.75									0.63	5.74	1.26			1.93	5.32	7.55						10.47		100.35			
LP3-2	SOI 2	6	analysed	point	gahnite/glass		33.53		0.38	12.34	3.74										0.59	3.41			15.30	1.66	31.38							1.84		1.10	105.27	
LP3-2	SOI 2	7	analysed	point	glass		38.03		0.27	5.17	20.89									0.28	0.58	5.55	1.29		1.66	5.50	9.06							10.68		98.95		
LP3-2	SOI 2	8	analysed	point	willemite		29.07			0.55	12.81												0.22		58.12											100.77		
LP3-3	SOI 2	1	analysed	area	bulk		44.71	1.24	0.78	13.72	23.21									1.55	4.14	0.60														100.04		
LP3-3	SOI 3	1	analysed	point	plagioclase	bytownite	46.34	1.22		17.26	22.84									0.32	11.19					1.10											100.27	
LP3-3	SOI 3	2	analysed	point	plagioclase	bytownite	46.79	1.23		17.70	22.39									0.24	11.88					1.08												101.31
LP3-3	SOI 3	3	analysed	point	hercynite		35.31		2.93	21.02	0.77											0.15	0.97	0.49			40.07										101.73	
LP3-3	SOI 3	4	analysed	point	hercynite		37.61	0.26	3.20	22.00	3.47										0.39	0.18	0.63	0.30			34.93										102.97	
LP3-3	SOI 3	5	analysed	point	glass		46.54	1.30	0.43	7.76	32.40										3.48	0.77	1.12			3.53											97.56	
LP3-3	SOI 3	6	analysed	point	glass		46.41	1.05	0.38	8.02	31.50										3.32	0.97	1.19			3.53											96.58	
LP3-3	SOI 3	7	analysed	point	glass		47.64	1.24	0.27	8.45	30.52										2.96	2.09	0.90			3.49												97.80
LP3-3	SOI 4	1	analysed	point	Al-magnetite		37.74	0.98	1.90	9.76	6.16									1.15		1.32			0.19		50.08										109.28	
LP3-3	SOI 4	2	analysed	point	Al-magnetite		36.63	0.54	1.74	16.18	2.56									0.20	0.49	2.56				0.19		40.96										102.06
LP3-3	SOI 4	3	analysed	point	Al-magnetite		37.71	0.54	1.19	13.34	3.20											0.97	2.35				44.29											103.59
LP3-3	SOI 4	4	analysed	point	Al-magnetite		41.32	1.02	1.26	16.13	6.00										0.46	1.11	2.27				40.54											110.12
LP3-3	SOI 4	5	analysed	point	Mg-hercynite		40.44	0.37	4.99	26.15	3.01										0.75		0.43			0.21		22.80										99.15
LP3-3	SOI 4	6	analysed	point	Mg-hercynite		38.89	0.36	5.01	24.75	3.44										0.99		0.61			0.18		23.05										97.30
LP3-3	SOI 4	7	analysed	point	Mg-hercynite		38.69	2.35	1.34	13.94	17.37										2.98	1.08	0.57				10.45											88.79
LP3-3	SOI 6	1	analysed	point	Al-magnetite		32.25		1.16	5.25	0.30											0.21	3.03				56.59											98.81
LP3-3	SOI 6	2	analysed	point	Al-magnetite		41.79		1.29	3.51	0.47											0.46	1.33				62.66											111.49
LP3-3	SOI 6	3	analysed	point	Al-magnetite		35.44		1.08	2.59	0.44											0.40	1.92				62.47											104.34
LP3-3	SOI 6	4	analysed	point	Al-magnetite		39.13	0.80	1.25	8.74	3.51											1.13	1.02				56.41											111.98

sample	site	no.	oxygen by	type	phase	notes	wt%																												
							O	Na	Mg	Al	Si	P	S	K	Ca	Ti	V	Cr	Mn	Fe	Cu	Zn	Ge	As	Mo	Ag	Sn	Sb	Ba	Pb	Total				
LP3-3	SOI 6	5	analysed	point	Mg-hercynite?		45.41	0.70	7.50	26.87	6.25	0.12			2.75					0.23														104.01	
LP3-4	SOI 1	1	analysed	point	mellilite		40.91	1.49	4.62	6.29	18.15			0.19	27.07																			100.63	
LP3-4	SOI 1	2	analysed	point	mellilite		40.45	1.35	3.85	6.60	17.28			0.22	26.36																			99.00	
LP3-4	SOI 1	3	analysed	point	mellilite		40.38	2.01	1.67	7.44	16.87			0.23	24.76																			99.30	
LP3-4	SOI 1	4	analysed	point	mellilite		39.33	2.11	1.05	7.03	17.71			0.56	23.48	0.31																		98.29	
LP3-4	SOI 1	5	analysed	point	mellilite		39.82	1.64	3.44	6.91	17.17			0.36	25.65																0.56			98.89	
LP3-4	SOI 1	6	analysed	point	mellilite		39.83	1.46	4.27	6.43	17.63			0.17	26.08																			97.96	
LP3-4	SOI 1	7	analysed	point	mellilite		40.64	1.43	4.50	6.39	17.69			0.14	26.46																			99.12	
LP3-4	SOI 1	8	analysed	point	glass		41.59	0.43		7.60	19.65	0.17	0.11	2.03	18.82	1.23																		97.22	
LP3-4	SOI 1	9	analysed	point	glass		42.13	0.64		7.73	20.52	0.16	0.18	2.39	19.27	1.46																		99.34	
LP3-4	SOI 4	1	analysed	point	Al-diopside	"= fassaite	40.53	0.28	1.32	8.20	15.11	0.14			17.20	2.08			0.18															103.06	
LP3-4	SOI 4	2	analysed	point	Al-diopside	"= fassaite	41.02	0.34	1.47	7.82	15.77			0.14	16.99	2.05																			103.18
LP3-4	SOI 4	3	analysed	point	glass		43.46	1.23		8.90	21.89	0.16	0.23	2.62	18.39	1.28																			101.48
LP3-4	SOI 4	4	analysed	point	mellilite		42.50	1.30	5.65	5.73	18.95			0.13	28.31																				104.34
LP3-4	SOI 4	5	analysed	point	mellilite		42.15	1.46	4.45	6.51	18.09			0.17	27.60																				103.41

*Table A2. Archive of EDS analyses from WP3-LP4.
Elements presented as weight%. For locations of analyses see plates A3-A28.*

*Table A3. Archive of EDS analyses from WP5.
Elements presented as weight%. For locations of analyses see plates A29-A92.*

Table with columns: sample, site, no., oxygen by, type, phase, notes, wt% (O, F, Na, Mg, Al, Si, P, S, Cl, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ge, As, Zr, Mo, Sn, Sb, Ba, W, Pb, Total). Rows list analytical data for Gov11, Gov12, and Gov12 SOI 11 samples.

Table with columns: sample, site, no., oxygen by, type, phase, notes, wt% (O, F, Na, Mg, Al, Si, P, S, Cl, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ge, As, Zr, Mo, Sn, Sb, Ba, W, Pb), Total. Rows include analyses for Gov14, Gov17, and SOI 3, 4, 6, 7.

sample	site	no.	oxygen by	type	phase	notes	wt%																												
							O	F	Na	Mg	Al	Si	P	S	Cl	K	Ca	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ge	As	Zr	Mo	Sn	Sb	Ba	W	Pb
Gov37	SOI 4	3	analysed	point	magnetite		25.06			0.65	0.11	<	<							0.28	70.91														97.02
Gov37	SOI 4	4	analysed	point	magnetite		26.11			0.52	0.42	<	<							0.28	71.78														99.11
Gov37	SOI 4	5	analysed	point	mixture	material on grain boundary	9.48			0.28	5.29	0.12	0.19							0.21	42.13													57.71	
Gov37	SOI 4	6	analysed	point	altered fayalite?	material on grain boundary	29.54			0.53	11.63	0.11	0.08							0.16	46.86													88.91	
Gov37	SOI 4	7	analysed	point	altered fayalite?	material on grain boundary	29.93			0.59	11.97	0.17	<							<	46.80													89.46	
Gov37	SOI 4	8	analysed	area	altered fayalite?	small area of grain boundary	23.73			0.65	9.71	0.10	0.09							<	52.85													87.13	
Gov37	SOI 4	9	analysed	area	bulk	area type 1c	25.89			0.64	3.52	<	<							0.27	65.33													95.63	
Gov37	SOI 6	1	analysed	area	bulk	area type 1c	26.85			0.69	2.42	0.23				0.22					68.58													98.99	
Gov37	SOI 6	2	analysed	point	magnetite		25.95			0.71	<	<				<					70.62													97.28	
Gov37	SOI 6	3	analysed	point	magnetite		25.78			0.60	<	<				<					72.16													98.54	
Gov37	SOI 6	4	analysed	point	magnetite		25.52			0.59	<	<				<					71.84													97.94	
Gov37	SOI 6	5	analysed	point	magnetite		26.32			0.72	3.99	0.25				0.14					69.20													100.61	
Gov37	SOI 7	1	analysed	point	high Zn brass	contamination?	0.80		2.82	<	<	<				<	<				3.45			50.84	34.17							18.02	110.10		
Gov37	SOI 7	2	analysed	area	bulk	area type 2a	30.04		0.34	0.23	1.56	12.03				0.31	0.30				57.05			<	<							<	101.87		
Gov37	SOI 8	1	analysed	point	magnetite	rim	25.91		<	0.29	0.30	0.20	<	<		<	0.12	<			71.09													97.90	
Gov37	SOI 8	2	analysed	point	magnetite	coarse dendrite	26.61		<	<	1.35	1.48	<	<		<	<	0.17			68.55													98.17	
Gov37	SOI 8	3	analysed	point	glass		32.15		0.29	0.30	1.34	17.09	0.16	0.21		0.31	0.38	<			47.45													99.69	
Gov37	SOI 8	4	analysed	point	glass		32.33		0.20	0.25	1.44	17.12	0.20	0.19		0.31	0.43	<			46.51													98.99	
Gov37	SOI 8	5	analysed	point	magnetite	dendrite in plate zone	26.16		<	<	1.51	1.98	<	<		<	<	0.25			67.81													97.72	
Gov37	SOI 10	1	analysed	point	olivine	feathery dendrites	29.41			0.22	1.22	11.25	<		0.21	0.23					56.98													99.53	
Gov37	SOI 10	2	analysed	point	olivine	feathery dendrites	31.63			0.19	1.34	13.19	0.17		0.27	0.40					54.08													101.28	
Gov37	SOI 12	1	analysed	point	magnetite	dendrite	27.71			0.24	6.65	3.14			0.13	0.23	0.43			0.32	57.27													96.12	
Gov37	SOI 12	2	analysed	point	magnetite	dendrite	27.25				7.20	1.75					0.48			0.23	59.21													96.11	
Gov37	SOI 12	3	analysed	point	magnetite	dendrite	26.7			0.31	6.97	2.65	0.15	0.15		0.14	0.34	0.36			56.52													94.31	
Gov37	SOI 12	4	analysed	point	wustite		24.01				1.09	2.95	0.17				0.25			0.28	68.48													97.22	
Gov37	SOI 12	5	analysed	point	wustite		24.53				1.30	4.33	0.25	0.22		0.18	0.44			0.29	63.83													95.38	
Gov37	SOI 12	6	analysed	point	glass		30.48			0.42	3.84	13.41	0.77	0.63		0.48	1.15			0.47	44.99													96.64	
Gov37	SOI 12	7	analysed	point	glass		31.16		0.32	0.29	3.31	13.11	0.76	0.61		0.39	1.09			0.47	47.74													99.25	
Gov37	SOI 12	8	analysed	point	glass		30.51		0.40	0.36	3.54	14.03	0.82	0.68		0.42	1.17			0.59	43.36													95.88	
Gov37	SOI 12	9	analysed	area	bulk		28.19			0.34	3.78	8.98	0.48	0.38		0.34	0.67			0.29	53.75													97.21	
Gov37	SOI 12	10	analysed	point	hole		19.36		0.30	0.23	5.49	13.67	0.32		0.13	0.38	2.76				22.83													65.46	

