

Appendix G

GOAL Chain of Custody Documentation

Connell Wagner Pty Ltd

ABN 54 005 139 873

1st Floor

180 Quay Street

Rockhampton

Telephone: +61 7 4922 9252

Facsimile: +61 7 4921 3891

Email: cwrok@conwag.com

www.conwag.com

Connell Wagner

MACKAY

Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-08-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Jilalan	Sampling Location:	Sarina	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	Mackay harrison@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-09-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analyses Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , Alkalinity)	ESP	CEC	
0.2-0.5 GQAL4	1	29-8	soil	jar	/	/	/	/	/	/	
GQAL1 0-0.1	2	28-8	soil	jar	/	/	/	/	/	/	
GQAL7 0.5-0.6	3	30-8	soil	jar	/	/	/	/	/	/	
GQAL6 1.1-1.2	4	29-8	soil	jar	/	/	/	/	/	/	
GQAL8 0-0.1	5	30-8	soil	jar	/	/	/	/	/	/	
GQAL7 0.8-0.9	6	30-8	soil	jar	/	/	/	/	/	/	

Environmental Division
Brisbane

Work Order

EB0709854



Telephone : + 61-7-3243 7222

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:			
Name (and initial):	Monique H. H. H.	Date:	30-8-07
Company:	Connell Hatch	Time:	1600
Name (and initial):		Date:	
Company:		Time:	
Name (and initial):		Date:	
Company:		Time:	

MACKAY**Chain of Custody (CoC)**

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-8-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Jilska	Sampling Location:	Serling	Sampled By:	MAH
Sample Device:		Report Format	email pdf	Send Report To:	harris@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hotel	Data Needed By	21-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , NO ₃)	ESP	CEC	
GQAL2 0.8-0.9	7	28-8	soil	jar	/	/	/	/	/	/	
GQAL8 0.8-0.9	8	30-8	soil	jar	/	/	/	/	/	/	
GQAL4 1.1-1.2	9	29-8	soil	jar	/	/	/	/	/	/	
GQAL4 0-0.1	10	29-8	soil	jar	/	/	/	/	/	/	
GQAL2 0-0.1	11	28-8	soil	jar	/	/	/	/	/	/	
GQAL2 0.2-0.3	12	28-8	soil	jar	/	/	/	/	/	/	

Split Samples**Analysis**

Split Sample One:

Split Sample Two

Split Sample Three

Split Sample Four

Split Sample Five

Quality Assurance

Relinquished by:

Name (and initial):	manageth	Date:	30-8-07	Name (and initial):	J M. Call	Date:	31-8-07
Company:	Connell Wagner	Time:	1600	Company:	ALS	Time:	1605
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

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Connell Wagner**MACKAY****Chain of Custody (CoC)**

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-8-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR 7906
Project Name:	Jilstar	Sampling Location:	Series	Sampled By:	M.H.
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-09-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Mg, K, Na)	Anions (Cl, SO ₄ , Alkalinity)	ESP	CEC		
COAL 6 0.5-0.6	13	29-8	soil	Jar	/	/	/	/	/	/		
COAL 8 0.5-0.6	14	30-8	soil	Jar	/	/	/	/	/	/		
COAL 2 0.5-0.6	15	28-8	soil	Jar	/	/	/	/	/	/		
COAL 7 0.2-0.3	16	30-8	soil	Jar	/	/	/	/	/	/		
COAL 3 0-0.1	17	29-8	soil	Jar	/	/	/	/	/	/		
COAL 8 0.2-0.3	18	30-8	soil	Jar	/	/	/	/	/	/		

Split Samples**Analysis**

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	M.H. Harrison	Date:	30-8-07	Name (and initial):	J.H.C. Gil
Company:	Connell Hatch	Time:	1600	Company:	AIS
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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Connell Wagner

MACKAY

Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-08-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	—	Project Number:	HR 7900
Project Name:	Jilaka	Sampling Location:	Spring	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required					
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Mg, K, Na)	Anions (Cl, SO ₄ , NO ₃)	ESP	CEC
QAAL5 0.5-0.6	19	29-8	soil	Jar	/	/	/	/	/	/
QAAL1 1.1-1.2	20	28-8	soil	Jar	/	/	/	/	/	/
QAAL1 0.8-0.9	21	28-8	soil	Jar	/	/	/	/	/	/
QAAL5 0.2-0.3	22	29-8	soil	Jar	/	/	/	/	/	/
QAAL12 0.5-0.6	23	30-8	soil	Jar	/	/	/	/	/	/
QAAL2 1.1-1.2	24	28-8	soil	Jar	/	/	/	/	/	/

Split Samples

Analysis

Split Sample One:	
Split Sample Two:	
Split Sample Three:	
Split Sample Four:	
Split Sample Five:	

Quality Assurance

Relinquished by:					
Name (and initial):	M Harrison	Date:	30-8-07	Name (and initial):	JM C All
Company:	Connell Hatch	Time:	1600	Company:	AIS
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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Chain of Custody (CoC)

MACKAY

Client	Connell Wagner	Phone	07 3135 8000	Date & Time:	30-8-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Jilala	Sampling Location:	Spring	Sampled By:	MLA
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-09-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	PH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , NO ₃)	GSP	CEC	
QA12 0-0.1	25	30-8	soil	jar	/	/	/	/	/	/	
QA15 0-0.1	26	29-8	soil	jar	/	/	/	/	/	/	
QA12 0.2-0.3	27	30-8	soil	jar	/	/	/	/	/	/	
QA13 0.2-0.3	28	29-8	soil	jar	/	/	/	/	/	/	
QA13 0.5-0.6	29	29-8	soil	jar	/	/	/	/	/	/	
QA16 0.2-0.3	30	29-8	soil	jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	M Harrison	Date:	30-8-07	Name (and initial):	J H C Gal
Company:	Connell Hatch	Time:	1400	Company:	ALS
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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Chain of Custody (CoC)

MACKAY

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-8-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Silica	Sampling Location:	Sevin	Sampled By:	MA
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATIA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major cations (Ca, Mg, K, Na)	Anions (Cl, SO ₄ , Alk)	ESP	CEC	
QA41 0.5-0.6	31	28-8	soil	jar	/	/	/	/	/	/	
QA42 0.8-0.9	32	29-8	soil	jar	/	/	/	/	/	/	
QA43 1.1-1.2	33	29-8	soil	jar	/	/	/	/	/	/	
QA43 0.8-0.9	34	29-8	soil	jar	/	/	/	/	/	/	
QA46 0.8-0.9	SNR	29-8	soil	jar	/	/	/	/	/	/	
QA45 0.8-0.9	35	29-8	soil	jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	M Harrison	Date:	30-8-07	Name (and initial):	J M Call	Date:	31-8-07
Company:	Connell Hatch	Time:	1600	Company:	ALS	Time:	11-07
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

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Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-8-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	—	Project Number:	HR7906
Project Name:	Jidalan	Sampling Location:	Spring	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-8-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Mg, K, Na)	Anions (Cl, SO ₄ , NO ₃)	ESP	CEC	
Q04C3 0.0-0.1	36	30-8	soil	jar	/	/	/	/	/	/	
Q04C5 1.1-1.2	37	29-8	soil	jar	/	/	/	/	/	/	
Q04C4 0.5-0.7	38	29-8	soil	jar	/	/	/	/	/	/	
Q04C7 1.1-1.2	39	30-8	soil	jar	/	/	/	/	/	/	
Q04C6 0-0.1	40	29-8	soil	jar	/	/	/	/	/	/	
Q04C1 0.2-0.3	41	28-8	soil	jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:

Split Sample Two

Split Sample Three

Split Sample Four

Split Sample Five

Quality Assurance

Relinquished by:

Name (and initial):	M Harrison	Date:	30-8-07	Name (and initial):	J + M Call	Date:	31-8-07
Company:	Connell Hatch	Time:	1600	Company:	ALS	Time:	#05
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

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Connell Wagner

Chain of Custody (CoC)

MACKAY

Client	Connell Wagner	Phone	07 31358000	Date & Time:	30-8-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Jilkalan	Sampling Location:	Spring	Sampled By:	MLH
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	21-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , NO ₃)	GSP	CEC		
GOAL 8 1-1-1	42	30/8	soil	jar	-	-	-	-	-	-		
GOAL 1 08-08	43	28/8										
GOAL 4 02-03	44	27/8										

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	M Harrison	Date:	30-8-07	Name (and initial):	J M Gail	Date:	31-8-07
Company:	Connell Hatch	Time:	1600	Company:	ALS	Time:	11-05
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	



ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Comprehensive report

Client Details

Client : CONNELL WAGNER PTY LTD
Contact : MS MONIQUE HARRISON
Address : LOCKED BAG 1800 SPRING HILL QLD
AUSTRALIA 4004

Project : HR7906 JILALAN
Order number : - Not provided -
C-O-C Number : - Not provided -
Site : SARINA
Sampler : MH

E-mail : harrisonm@conwag.com
Telephone : 32461000
Facsimile : 32461001

Laboratory Details

Laboratory : Environmental Division Brisbane
Manager : Tim Kilmister
Address : 32 Shand Street Stafford QLD Australia 4053

Quote number : EB20070203
Work order : EB0709854

E-mail : Services.Brisbane@alsenviro.com
Telephone : +61-7-3243 7222
Facsimile : +61-7-3243 7218

Dates

Date Samples Received : 31 Aug 2007
Scheduled Reporting Date : **14 Sep 2007**

SRA Issue Date : 3 Sep 2007
Client Requested Date : 21 Sep 2007

Delivery Details

Mode of Delivery : Carrier.
No. of coolers/boxes : 1 LARGE
Security Seal : Intact.

Temperature : 12.6 C - Ice present
No. of samples - Received 43
- Analysed 42

Comments

1 Samples received in appropriately pretreated and preserved containers.

1 Sample(s) have been received within recommended holding times.

1 Please direct any turn around / technical queries to the laboratory contact designated above.

1 Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.

1 Please direct any queries related to sample condition / numbering / breakages to Maggie Kahi.

1 Analytical work for this work order will be conducted at ALSE Brisbane.

1 Please see scanned COC for sample discrepancies: extra samples , samples not received etc.

1 When the sampling time is not supplied on the COC documentation, ALSE defaults the sampling time to that of the COC 'relinquishment' time (if supplied). If this also is not supplied, ALSE defaults the sampling time to the 'time of receipt at Laboratory'.

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SAMPLE RECEIPT NOTIFICATION (SRN) - continued

Client : CONNELL WAGNER PTY LTD
Project : HR7906 JILALAN

Work Order : EB0709854
ALS Quote Reference : EB20070203



Summary of Sample(s) / Container(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as moisture and preparation tasks, that form an implicit part of that package.

ALS Sample ID.	Client Sample ID - Sample Date	Requested Analysis									
		EA002 - SOIL pH (1:5)	EA010 (solids): Electrical Conductivity (EC) (µS/cm)	EA055-103 - SOIL Moisture Content	ED007 - SOIL CEC / Exchangeable Cations (ED007)	ED037 - SOIL Alkalinity in Soil	ED033S - SOIL Cations - Soluble	Major Anions - SOIL Cl, SO4 only			
EB0709854-001	GQAL4 - 0.2-0.3 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-002	GQAL1 - 0-0.1 - 28 Aug 2007	1	1	1	1	1	1	1			
EB0709854-003	GQAL7 - 0.5-0.6 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-004	GQAL6 - 1.1-1.2 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-005	GQAL8 - 0-0.1 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-006	GQAL7 - 0.8-0.9 - 30 Aug 2007	1	1	1	1		1				
EB0709854-007	GQAL2 - 0.8-0.9 - 28 Aug 2007	1	1	1	1		1				
EB0709854-008	GQAL8 - 0.8-0.9 - 30 Aug 2007	1	1	1	1		1				
EB0709854-009	GQAL4 - 1.1-1.2 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-010	GQAL4 - 0-0.1 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-011	GQAL2 - 0-0.1 - 28 Aug 2007	1	1	1	1	1	1	1			
EB0709854-012	GQAL2 - 0.2-0.3 - 28 Aug 2007	1	1	1	1		1				
EB0709854-013	GQAL6 - 0.5-0.6 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-014	GQAL8 - 0.5-0.6 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-015	GQAL2 - 0.5-0.6 - 28 Aug 2007	1	1	1	1	1	1	1			
EB0709854-016	GQAL7 - 0.2-0.3 - 30 Aug 2007	1	1	1	1		1				
EB0709854-017	GQAL3 - 0-0.1 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-018	GQAL8 - 0.2-0.3 - 30 Aug 2007	1	1	1	1		1				
EB0709854-019	GQAL5 - 0.5-0.8 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-020	GQAL1 - 1.1-1.2 - 28 Aug 2007	1	1	1	1	1	1	1			
EB0709854-021	GQAL1 - 0.8-0.9 - 28 Aug 2007	1	1	1	1		1				
EB0709854-022	GQAL5 - 0.2-0.3 - 29 Aug 2007	1	1	1	1		1				
EB0709854-023	GQAL12 - 0.5-0.6 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-024	GQAL2 - 1.1-1.2 - 28 Aug 2007	1	1	1	1	1	1	1			
EB0709854-025	GQAL12 - 0-0.1 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-026	GQAL5 - 0-0.1 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-027	GQAL12 - 0.2-0.3 - 30 Aug 2007	1	1	1	1		1				
EB0709854-028	GQAL3 - 0.2-0.3 - 29 Aug 2007	1	1	1	1		1				
EB0709854-029	GQAL3 - 0.5-0.6 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-030	GQAL6 - 0.2-0.3 - 29 Aug 2007	1	1	1	1		1				
EB0709854-031	GQAL1 - 0.5-0.6 - 28 Aug 2007	1	1	1	1	1	1	1			
EB0709854-032	GQAL4 - 0.8-0.9 - 29 Aug 2007	1	1	1	1		1				
EB0709854-033	GQAL3 - 1.1-1.2 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-034	GQAL3 - 0.8-0.9 - 29 Aug 2007	1	1	1	1		1				
EB0709854-035	GQAL5 - 0.8-0.9 - 29 Aug 2007	1	1	1	1		1				
EB0709854-036	GQAL7 - 0.0-0.1 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-037	GQAL5 - 1.1-1.2 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-038	GQAL4 - 0.5-0.7 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-039	GQAL7 - 1.1-1.2 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-040	GQAL6 - 0-0.1 - 29 Aug 2007	1	1	1	1	1	1	1			
EB0709854-041	GQAL1 - 0.2-0.3 - 28 Aug 2007	1	1	1	1		1				
EB0709854-042	GQAL8 - 1.1-1.2 - 30 Aug 2007	1	1	1	1	1	1	1			
EB0709854-043	GQAL1 - 0.8-0.9 - 28 Aug 2007										
Total(s) :		42	42	42	42	26	42	26			

SAMPLE RECEIPT NOTIFICATION (SRN) - continued

Client : CONNELL WAGNER PTY LTD
Project : HR7906 JILALAN

Work Order : EB0709854
ALS Quote Reference : EB20070203



Requested Reports

1	ACCOUNTS PAYABLE		
	- A4 - AU Tax Invoice	Email	grayl@conwag.com
1	MR LLOYD BLOMFIELD		
	- A4 - AU Certificate of Analysis - NEPM format	Email	lloyd.blomfield@alsenviro.com
	- A4 - AU Quality Control Report - NEPM format	Email	lloyd.blomfield@alsenviro.com
	- A4 - AU Interpretive Quality Control Report - NEPM format	Email	lloyd.blomfield@alsenviro.com
	- EDI Format - ENMRG	Email	lloyd.blomfield@alsenviro.com
	- EDI Format - XTab	Email	lloyd.blomfield@alsenviro.com
	- Default - Chain of Custody	Email	lloyd.blomfield@alsenviro.com
	- A4 - AU Sample Receipt Notification - Comprehensive format	Email	lloyd.blomfield@alsenviro.com
1	MS MONIQUE HARRISON		
	- A4 - AU Certificate of Analysis - NEPM format	Email	harrisonm@conwag.com
	- A4 - AU Quality Control Report - NEPM format	Email	harrisonm@conwag.com
	- A4 - AU Interpretive Quality Control Report - NEPM format	Email	harrisonm@conwag.com
	- EDI Format - ENMRG	Email	harrisonm@conwag.com
	- EDI Format - XTab	Email	harrisonm@conwag.com
	- Default - Chain of Custody	Email	harrisonm@conwag.com
	- A4 - AU Sample Receipt Notification - Comprehensive format	Email	harrisonm@conwag.com

Sample Container(s) / Preservation Non-Compliance Log

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

1 No sample container / preservation non-compliance exist.

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www.conwag.com

MACKIN

MK0504003

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	4-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Jilskin	Sampling Location:	Soil	Sampled By:	WLT
Sample Device:		Report Format	email pdf	Send Report To:	harrison@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	28-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	PH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , HCO ₃)	ESP	CEC	
✓ GQAL13 0-0.1	1	1/9/07	soil	Jar	/	/	/	/	/	/	
✓ GQAL13 0.2-0.3	2	1/9/07	soil	Jar	/	/	/	/	/	/	
✓ GQAL13 0.5-0.6	3	1/9/07	soil	Jar	/	/	/	/	/	/	
✓ GQAL13 0.8-0.9	4	1/9/07	soil	Jar	/	/	/	/	/	/	
✓ GQAL13 1.1-1.2	5	1/9/07	soil	Jar	/	/	/	/	/	/	
✓ GQAL10 0-0.1	6	30/8/07	soil	Jar	/	/	/	/	/	/	

Split Samples

Analysis

Environmental Division
Brisbane

Work Order

EB0710054



Telephone : +61-7-3243 7222

Quality Assurance

Relinquished by:

Name (and initial):	J Kippie	Date:	5.9.07	Name (and initial):		Date:	
Company:	Connell Hatch	Time:	10am	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

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MACKAY

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	4-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	H27906
Project Name:	Jilalan	Sampling Location:	Scrub	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	28-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , NO ₃)	ESP	CEC		
QCAL10 0-2-0-3	7	30-8-07	soil	jar	/	/	/	/	/	/		
QCAL10 0-5-0-6	8	30-8-07	soil	jar	/	/	/	/	/	/		
QCAL10 0-8-0-9	9	30-8-07	soil	jar	/	/	/	/	/	/		
QCAL10 1-1-1-2	10	30-8-07	soil	jar	/	/	/	/	/	/		
QCAL9 0-0-0-1	11	30-8-07	soil	jar	/	/	/	/	/	/		
QCAL9 0-2-0-3	12	30-8-07	soil	jar	/	/	/	/	/	/		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:

Name (and initial):	J. Reich	Date:	5-9-07	Name (and initial):		Date:	
Company:	Connell Hatch	Time:	10am	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

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Email: cwrok@conwag.com
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MACKAY

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31258000	Date & Time:	4.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax		Project Number:	HR7906
Project Name:	Jilalan	Sampling Location:	Soring	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	28.9.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, mg)	Anions (Cl, SO ₄ , Alkalinity)	ESP	CEC		
GOAL 9 0.5-0.6	13	30.8.07	soil	jar	/	/	/	/	/	/		
GOAL 9 0.8-0.9	14	30.8.07	soil	jar	/	/	/	/	/	/		
GOAL 9 1.1-1.2	15	30.8.07	soil	jar	/	/	/	/	/	/		
GOAL 11 0.0-0.1	16	30.8.07	soil	jar	/	/	/	/	/	/		
GOAL 11 0.2-0.3	17	30.8.07	soil	jar	/	/	/	/	/	/		
GOAL 11 0.5-0.6	18	30.8.07	soil	jar	/	/	/	/	/	/		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:

Name (and initial):	Thick Connell Hatch	Date:	5.9.07	Name (and initial):		Date:	
Company:		Time:	10am	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

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 www.conwag.com

MACKAY

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	0731358000	Date & Time:	4-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR7906
Project Name:	Jiblan	Sampling Location:	Sacra	Sampled By:	MH
Sample Device:		Report Format	Email pdf	Send Report To:	hollis@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	28-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH(1:5)	EC(1:5)	Major Cations (Ca, Mg, K, Na)	Anions (Cl, SO ₄ , NO ₃)	ESP	CEC	
19 GAAL11	GAAL11	30-8-07	soil	jar	/	/	/	/	/	/	
1-1-12	20	30-8-07	soil	jar	/	/	/	/	/	/	
21 GAAL12	GAAL12	30-8-07	soil	jar	/	/	/	/	/	/	
GAAL12	22	30-8-07	soil	jar	/	/	/	/	/	/	
GAAL16	23	4-9-07	soil	jar	/	/	/	/	/	/	
GAAL16	24	4-9-07	soil	jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:			
Name (and initial):	J. Krick	Date:	5-9-07
Company:	Connell Hatch	Time:	10am
Name (and initial):		Date:	
Company:		Time:	

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Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	4.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	-	Project Number:	HR 7906
Project Name:	Jibalan	Sampling Location:	Swina	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	harrisonm@conwag.com
QC Level	Nata	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	28.9.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Major Cations (Ca, Na, K, Mg)	Anions (Cl, SO ₄ , Alkalinity)	ESD	CEC	Evaporation Aggregate Test	
QUAL16 0.5-0.6	25	4.9.07	soil	jar	/	/	/	/	/	/	/	
QUAL16 0.8-0.9	26	4.9.07	soil	jar	/	/	/	/	/	/	/	
QUAL16 1.1-1.2	27	4.9.07	soil	jar	/	/	/	/	/	/	/	
QUAL1 0.2-0.3	28	28.9.07	soil	zip lock								/
QUAL1 0.5-0.6	29	28.9.07	soil	zip lock								/
QUAL1 0.8-0.9	30	28.9.07	soil	zip lock								/

Split Samples

Split Samples	Analysis
Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	J. Knick	Date:	5.9.07	Name (and initial):	
Company:	Connell Hatch	Time:	10am	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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Chain of Custody (CoC)

Client	Connell Wagner	Phone	07 31358000	Date & Time:	4.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax		Project Number:	HR7900
Project Name:	Jilalan	Sampling Location:	Saring	Sampled By:	MH
Sample Device:		Report Format	email pdf	Send Report To:	harrison@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	28.9.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emerson Aggregates test						
QAL2 0.1-1.2	31	28.8.07	soil	zip lock	/						
QAL2 0.0-0.1	32	28.8.07	soil	zip lock	/						
QAL2 0.2-0.3	33	28.8.07	soil	zip lock	/						
QAL2 0.5-0.6	34	28.8.07	soil	zip lock	/						
QAL2 0.8-0.9	35	28.8.07	soil	zip lock	/						
QAL2 0.1-1.2	36	28.8.07	soil	zip lock	/						

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	J. Wick	Date:	28.9.07	Name (and initial):	
Company:	Connell Hatch	Time:	10am	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	



Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax		Project Number:	HR79 CE
Project Name:	31 Lagoon Road Toad Upgrade	Sampling Location:	Seiner	Sampled By:	Connell Hatch
Sample Device:		Report Format	email pdf	Send Report To:	monique harrison harrison@conwag.com.au
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emerson Aggregate Test						
1 GRAL 7 0-0.1		30-08-07	SOIL	Plastic Bag	✓						
2 GRAL 7 0.2-0.3		30-08-07	SOIL	Plastic Bag	✓						
3 GRAL 7 0.5-0.6		30-08-07	SOIL	Plastic Bag							✓
4 GRAL 7 0.8-0.9		30-08-07	SOIL	Plastic Bag							✓
5 GRAL 7 1.1-1.2		30-08-07	SOIL	Plastic Bag							✓
6 GRAL 8 0-0.1		30-08-07	SOIL	Plastic Bag	✓						

Environmental Division
Brisbane

Work Order

EB0710168



Telephone : + 61-7-3243 7222

Split Samples

Anal:

ME

Split Sample One:

Split Sample Two

Split Sample Three

Split Sample Four

Split Sample Five

Quality Assurance

Relinquished by:

Name (and initial):	Jared Kirk	Date:	6-9-07	Name (and initial):	J M Call	Date:	7-9-07
Company:	Connell Hatch	Time:	4pm	Company:		Time:	11-30
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax		Project Number:	HR7906
Project Name:	Jilgaon Road Road Upgrade	Sampling Location:	Siding	Sampled By:	Connell Hatch
Sample Device:		Report Format	email pdf	Send Report To:	Manique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON AGGREGATE TEST							
7 GRAL 8 0.2-0.3		30-08-07	SOIL	Plastic Bag								
8 GRAL 8 0.5-0.6		30-08-07	SOIL	Plastic Bag	✓							
GRAL 8 0.8-0.9	9	30-08-07	SOIL	Plastic Bag	✓							
GRAL 8 1.1-1.2	10	30-08-07	SOIL	Plastic Bag								✓
GRAL 9 0.8-0.9	11	30-08-07	SOIL	Plastic Bag	✓							
GRAL 9 0.5-0.6	12	30-08-07	SOIL	Plastic Bag	✓							

Split Samples

Analysis

Split Sample One:	
Split Sample Two:	
Split Sample Three:	
Split Sample Four:	
Split Sample Five:	

Quality Assurance

Relinquished by:							
Name (and initial):	Janet P. Wick	Date:	6-9-07	Name (and initial):	J. M. Gill	Date:	7-9-07
Company:	Connell Hatch	Time:	4pm	Company:		Time:	11:30
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax		Project Number:	HR7906
Project Name:	Bulatan	Sampling Location:	Saguna	Sampled By:	Connell Hatch
Sample Device:		Report Format	email pdf	Send Report To:	Marjorie Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	8-10-07

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis											
Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON AGGREGATE TEST						HOLD
GRAL 4 1.1-1.2	13	30-08-07	SOIL	Plastic Bag	✓						
GRAL 4 0-0-1	14	29-08-07	SOIL	Plastic Bag	✓						
GRAL 4 0.2-0.3	15	29-08-07	SOIL	Plastic Bag							✓
GRAL 4 0.5-0.6	16	29-08-07	SOIL	Plastic Bag							✓
GRAL 4 0.8-0.9	17	29-08-07	SOIL	Plastic Bag	✓						
GRAL 4 1.1-1.2	18	29-08-07	SOIL	Plastic Bag	✓						

Split Samples	Analysis
Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance					
Relinquished by:					
Name (and initial):	Jaret Kirk	Date:	6-9-07	Name (and initial):	J-M CaV
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax		Project Number:	HR7906
Project Name:	Julating Road Road Upgrade	Sampling Location:	Soiling	Sampled By:	Connell Hatch
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON DISPERSION TEST						
GRAL 5 0-0-1	19	29-08-07	Soil	Plastic Bag							✓
GRAL 5 0-2-0.3	20	29-08-07	Soil	Plastic Bag	✓						
GRAL 5 0-5-0.6	21	29-08-07	Soil	Plastic Bag							✓
GRAL 5 0-8-0.9	22	29-08-07	Soil	Plastic Bag	✓						
GRAL 5 1-1-1.2	23	29-08-07	Soil	Plastic Bag							✓
GRAL 5 0-0-1	24	29-08-07	Soil	Plastic Bag	✓						

Split Samples

Split Samples	Analysis
Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Janet Hatch	Date:	6-9-07	Name (and initial):	J M Gell
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Analysis Required							
COALCO-C-1	2528	29-8-07	soil	plastic bag	✓							
COALCO	2528	29-8-07	soil	plastic bag	✓							
COALCO	2528	29-8-07	soil	plastic bag	✓							
COALCO	2528	29-8-07	soil	plastic bag								✓
COALCO	2528	29-8-07	soil	plastic bag								✓
COALCO	2528	29-8-07	soil	plastic bag	✓							

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Joel Wick	Date:	6-9-07	Name (and initial):	J.M. Call
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	8-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Analysis Required							
COAL10 02-03	31		soil	ziplock bag	✓							
COAL10 05-06	32		soil	ziplock bag								✓
COAL10 08-09	33		soil	ziplock bag	✓							✓
COAL10 11-12	34		soil	ziplock bag	✓							
COAL11 01-01	35		soil	ziplock bag								✓
COAL11 02-03	36		soil	ziplock bag								✓

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Janet Kruck	Date:	8-9-07	Name (and initial):	J M Gail	Date:	7-9-07
Company:	Connell Hatch	Time:	4pm	Company:		Time:	11:30
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HRTA 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Test							
UGAL12 C-01	36 37		soil	ziplock bag	✓							
UGAL12 C-2-0-3	37 38		soil	zip lock bag	✓							
UGAL12 C-5-0-6	38 39		soil	ziplock bag	✓							
UGAL12 C-2-0-4	39 40		soil	ziplock bag	✓							
UGAL12 C-1-1-2	40 41		soil	ziplock bag	✓							
UGAL13 C-0-1	41 42		soil	ziplock bag								✓

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Jared Kitch	Date:	6-9-07	Name (and initial):	J M Call	Date:	7-9-07
Company:	Connell Hatch	Time:	4pm	Company:		Time:	11:30
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HRTA 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emerson Aggregate Test							
GCAL13 02-0-5	42 48		soil	zip lock bag								✓
GCAL13 05-0-6	44		soil	zip lock bag	✓							
GCAL13 08-0-9	44 46		soil	zip lock bag	✓							
GCAL13 11-12	45 46		soil	zip lock bag								✓
GCAL13 02-0-3	49	4.9.07	soil	zip lock bag								✓
GCAL13 02-0-3	49	4.9.07	soil	zip lock bag								✓

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Jared M. G.	Date:	6.9.07	Name (and initial):	J.M. Gil
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HRT9 OG
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@connwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Energy Analyzed Test						
QCAL16 C-5-C6	45 49	6-9-07	soil	ziplock bag							✓
QCAL16 C-8-C9	47 50	6-9-07	soil	ziplock bag	✓						
QCAL16 C-11-12	50 51	6-9-07	soil	ziplock bag	✓						
QCAL17 C-0-01	52 52	6-9-07	soil	ziplock bag	✓						✓
QCAL17 C-2-C3	52 53	6-9-07	soil	ziplock bag	✓						✓
QCAL17 C-5-C8	52 54	6-9-07	soil	ziplock bag						LABELED C-5-C6	✓

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Jared Kuck	Date:	6-9-07	Name (and initial):	J.H. Gill
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HRT9 OG
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6-9-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emerson Hydroprobe Test	pH (1:5)	EC (1:5)	Cations (Na, Mg, Ca, K)	Anions (Cl, SO ₄ , Alkalinity)	CEC	ESP →	HOLD
GOAL 17 0.8-0.9	4 S	6-9-07	soil	ziplock bag								✓
GOAL 14 0.0-0.1	0.0-0.1		soil	jar		✓	✓	✓				
GOAL 14 0.2-0.3	0.2-0.3		soil	jar		✓	✓	✓		✓		
GOAL 14 0.5-0.6	4 S		soil	jar		✓	✓	✓	✓	✓	✓	NAI
GOAL 14 0.8-0.9	4 S		soil	jar		✓	✓	✓		✓		
GOAL 14 1.1-1.2	0.9		soil	jar		✓	✓	✓	✓	✓	✓	

Split Samples**Analysis**

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Joel Kitch	Date:	6-9-07	Name (and initial):	J M. Call	Date:	7-9-07
Company:	Connell Hatch	Time:	4pm	Company:		Time:	11:30
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	SILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@connwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cations (Na, Mg, Ca, K)	Anions (Cl, SO ₄ , Alkalinity)	CEC	ESP	
00AL15 0-0.1	661		soil	Jar	/	/	/	/	/	/	
00AL15 0-2-0.3	662		soil	Jar	/	/	/	/	/	/	
00AL15 0.3-0.8	663		soil	Jar	/	/	/	/	/	/	
00AL15 0.8-0.9	664		soil	Jar	/	/	/	/	/	/	
00AL15 1.1-1.2	665		soil	Jar	/	/	/	/	/	/	
00AL15 0-0.1	666	6-9-07	soil	Jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:	
Split Sample Two:	
Split Sample Three:	
Split Sample Four:	
Split Sample Five:	

Quality Assurance

Relinquished by:					
Name (and initial):	Jared Hinch	Date:	6-9-07	Name (and initial):	JM Call
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	6-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	3-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	PH (1:5)	EC (1:5)	Cation ² (Na, Mg, Ca, K)	Anions ³ (Cl, SO ₄ , Alkalinity)	CEC	ESP	
CGAL17 0-2-0-3	6667	6-9-07	soil	Jar	/	/	/	/	/	/	
CGAL17 0-5-0-6	6668	6-9-07	soil	Jar	/	/	/	/	/	/	
CGAL17 0-8-0-9	6669	6-9-07	soil	Jar	/	/	/	/	/	/	
CGAL17 1-1-12	6670	6-9-07	soil	Jar							
CGAL11 0-5-0-6	6670	"	"	BAG							
CGAL11 0-8-0-9	7-71	"	"	"							
CGAL11 1-1-12	7-72	"	"	"							

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Joel Krich	Date:	6-9-07	Name (and initial):	J-M-Call
Company:	Connell Hatch	Time:	4pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	



Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)
Comprehensive Report

Work Order : EB0710168

Client	: CONNELL HATCH	Laboratory	: Environmental Division Brisbane
Contact	: MS MONIQUE HARRISON	Contact	: Tim Kilmister
Address	: LOCKED BAG 1800 SPRING HILL QLD AUSTRALIA 4004	Address	: 32 Shand Street Stafford QLD Australia 4053
E-mail	: harrisonm@conwag.com	E-mail	: Services.Brisbane@alsenviro.com
Telephone	: +61 31358000	Telephone	: +61-7-3243 7222
Facsimile	: +61 07 31358400	Facsimile	: +61-7-3243 7218
Project	: HR7906 Jilalan Rail Tunnel Upgrade	Page	: 1 of 4
Order number	: ----	Quote number	: ----
C-O-C number	: ----		
Site	: Sarina		
Sampler	: Connell Hatch	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement

Dates

Date Samples Received	: 07-SEP-2007	Issue Date	: 11-SEP-2007 10:54
Client Requested Due Date	: 03-OCT-2007	Scheduled Reporting Date	: 21-SEP-2007

Delivery Details

Mode of Delivery	: Carrier	Temperature	: 18.6,19.4,18.6,19.0C
No. of coolers/boxes	: 1 LARGE, 4 MEDIUM	No. of samples received	: 71
Security Seal	: Intact.	No. of samples analysed	: 44

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times.**
- **Emerson analysis will be subcontracted to Golder Associates.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Please direct any queries related to sample condition / numbering / breakages to Maggie Kahi.
- Analytical work for this work order will be conducted at ALSE Brisbane.
- Please see scanned COC for sample discrepancies: extra samples , samples not received etc.
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exist.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes.

Matrix: SOIL

Client sample ID

Client sampling date
/ time

Laboratory
sample ID

			(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids): Electrical Conductivity (1:5) <small>Electrical Conductivity (dS/m)</small>	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble	SOIL - Major Anions Cl, SO4 only
GQAL 10 0.2-0.3	29-AUG-2007 15:00	EB0710168-030	✓							
GQAL 10 0.5-0.6	29-AUG-2007 15:00	EB0710168-031	✓							
GQAL 10 0.8-0.9	29-AUG-2007 15:00	EB0710168-032	✓							
GQAL 10 0-0.1	30-AUG-2007 15:00	EB0710168-029	✓							
GQAL 10 1.1-1.2	29-AUG-2007 15:00	EB0710168-033	✓							
GQAL 11 0.2-0.3	29-AUG-2007 15:00	EB0710168-035	✓							
GQAL 11 0.5-0.6	30-AUG-2007 15:00	EB0710168-069	✓							
GQAL 11 0.8-0.9	30-AUG-2007 15:00	EB0710168-070	✓							
GQAL 11 0-0.1	29-AUG-2007 15:00	EB0710168-034	✓							
GQAL 11 1.1-1.2	30-AUG-2007 15:00	EB0710168-071	✓							
GQAL 12 0.2-0.3	29-AUG-2007 15:00	EB0710168-037	✓							
GQAL 12 0.5-0.6	29-AUG-2007 15:00	EB0710168-038	✓							
GQAL 12 0.8-0.9	29-AUG-2007 15:00	EB0710168-039	✓							
GQAL 12 0-0.1	29-AUG-2007 15:00	EB0710168-036	✓							
GQAL 12 1.1-1.2	29-AUG-2007 15:00	EB0710168-040	✓							
GQAL 13 0.2-0.3	29-AUG-2007 15:00	EB0710168-042	✓							
GQAL 13 0.5-0.6	29-AUG-2007 15:00	EB0710168-043	✓							
GQAL 13 0.8-0.9	29-AUG-2007 15:00	EB0710168-044	✓							
GQAL 13 0-0.1	29-AUG-2007 15:00	EB0710168-041	✓							
GQAL 13 1.1-1.2	29-AUG-2007 15:00	EB0710168-045	✓							
GQAL 14 0.2-0.3	06-SEP-2007 15:00	EB0710168-056		✓	✓	✓	✓		✓	
GQAL 14 0.5-0.6	06-SEP-2007 15:00	EB0710168-057		✓	✓		✓	✓	✓	✓
GQAL 14 0.8-0.9	06-SEP-2007 15:00	EB0710168-058		✓	✓	✓	✓		✓	
GQAL 14 0-0.1	06-SEP-2007 15:00	EB0710168-055		✓	✓	✓			✓	
GQAL 14 1.1-1.2	06-SEP-2007 15:00	EB0710168-059		✓	✓		✓	✓	✓	✓
GQAL 15 0.2-0.3	06-SEP-2007 15:00	EB0710168-061		✓	✓	✓	✓		✓	
GQAL 15 0.5-0.6	06-SEP-2007 15:00	EB0710168-062		✓	✓		✓	✓	✓	✓
GQAL 15 0.8-0.9	06-SEP-2007 15:00	EB0710168-063		✓	✓	✓	✓		✓	
GQAL 15 0-0.1	06-SEP-2007 15:00	EB0710168-060		✓	✓		✓	✓	✓	✓
GQAL 15 1.1-1.2	06-SEP-2007 15:00	EB0710168-064		✓	✓		✓	✓	✓	✓
GQAL 16 0.2-0.3	04-SEP-2007 15:00	EB0710168-047	✓							
GQAL 16 0.5-0.6	04-SEP-2007 15:00	EB0710168-048	✓							
GQAL 16 0-0.1	04-SEP-2007 15:00	EB0710168-046	✓							
GQAL 16 1.1-1.2	04-SEP-2007 15:00	EB0710168-050	✓							
GQAL 17 0.2-0.3	06-SEP-2007 15:00	EB0710168-052	✓							
		EB0710168-066		✓	✓	✓	✓		✓	



			(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids) Electrical Conductivity (1:5) <small>Electrical Conductivity (dS/m)</small>	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble	SOIL - Major Anions Cl, SO4 only
GQAL 17 0.5-0.6	06-SEP-2007 15:00	EB0710168-067		✓	✓		✓	✓	✓	✓
GQAL 17 0.5-0.8	06-SEP-2007 15:00	EB0710168-053	✓							
GQAL 17 0.8-0.9	06-SEP-2007 15:00	EB0710168-054	✓							
		EB0710168-068		✓	✓		✓	✓	✓	✓
GQAL 17 0-0.1	06-SEP-2007 15:00	EB0710168-051	✓							
		EB0710168-065		✓	✓		✓	✓	✓	✓
GQAL 4 0.2-0.3	29-AUG-2007 15:00	EB0710168-015	✓							
GQAL 4 0.5-0.6	29-AUG-2007 15:00	EB0710168-016	✓							
GQAL 4 0.8-0.9	29-AUG-2007 15:00	EB0710168-017	✓							
GQAL 4 0-0.1	29-AUG-2007 15:00	EB0710168-014	✓							
GQAL 4 1.1-1.2	29-AUG-2007 15:00	EB0710168-018	✓							
GQAL 5 0.2-0.3	29-AUG-2007 15:00	EB0710168-020	✓							
GQAL 5 0.5-0.6	29-AUG-2007 15:00	EB0710168-021	✓							
GQAL 5 0.8-0.9	29-AUG-2007 15:00	EB0710168-022	✓							
GQAL 5 0-0.1	29-AUG-2007 15:00	EB0710168-019	✓							
GQAL 5 1.1-1.2	29-AUG-2007 15:00	EB0710168-023	✓							
GQAL 6 0.2-0.3	29-AUG-2007 15:00	EB0710168-025	✓							
GQAL 6 0.5-0.6	29-AUG-2007 15:00	EB0710168-026	✓							
GQAL 6 0.8-0.9	29-AUG-2007 15:00	EB0710168-027	✓							
GQAL 6 0-0.1	29-AUG-2007 15:00	EB0710168-024	✓							
GQAL 6 1.1-1.2	29-AUG-2007 15:00	EB0710168-028	✓							
GQAL 7 0.2-0.3	30-AUG-2007 15:00	EB0710168-002	✓							
GQAL 7 0.5-0.6	30-AUG-2007 15:00	EB0710168-003	✓							
GQAL 7 0.8-0.9	30-AUG-2007 15:00	EB0710168-004	✓							
GQAL 7 0-0.1	30-AUG-2007 15:00	EB0710168-001	✓							
GQAL 7 1.1-1.2	30-AUG-2007 15:00	EB0710168-005	✓							
GQAL 8 0.2-0.3	30-AUG-2007 15:00	EB0710168-007	✓							
GQAL 8 0.5-0.6	30-AUG-2007 15:00	EB0710168-008	✓							
GQAL 8 0.8-0.9	30-AUG-2007 15:00	EB0710168-009	✓							
GQAL 8 0-0.1	30-AUG-2007 15:00	EB0710168-006	✓							
GQAL 8 1.1-1.2	30-AUG-2007 15:00	EB0710168-010	✓							
GQAL 9 0.5-0.6	30-AUG-2007 15:00	EB0710168-012	✓							
GQAL 9 0.8-0.9	30-AUG-2007 15:00	EB0710168-011	✓							
GQAL 9 1.1-1.2	30-AUG-2007 15:00	EB0710168-013	✓							
GQAL16 0.8-0.1	04-SEP-2007 15:00	EB0710168-049	✓							



Requested Deliverables

MS MONIQUE HARRISON

- A4 - AU Certificate of Analysis - NATA	Email	harrisonm@conwag.com
- A4 - AU Interpretive Quality Control Report	Email	harrisonm@conwag.com
- A4 - AU Quality Control Report - NATA	Email	harrisonm@conwag.com
- A4 - AU Sample Receipt Notification - Comprehensive format	Email	harrisonm@conwag.com
- A4 - AU Tax Invoice	Email	harrisonm@conwag.com
- Default - Chain of Custody	Email	harrisonm@conwag.com
- EDI Format - ENMRG	Email	harrisonm@conwag.com
- EDI Format - XTab	Email	harrisonm@conwag.com
- Trigger - Subcontract Report	Email	harrisonm@conwag.com

Connell Wagner Pty Ltd
ABN 54 005 139 873
1st Floor
180 Quay Street
Rockhampton

Telephone: +61 7 4922 9252
Facsimile: +61 7 4921 3891
Email: cwrok@conwag.com
www.conwag.com



Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 06
Project Name:	JILALAN RAIL YAAD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.2007

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis										
Sample					Analysis Required					
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON DISPERSION TEST					HOLD
SOIL 18 0-0.1	1	7.9.07	SOIL	Plastic Bag	✓					
SOIL 18 0.2-0.3	2	7.9.07	SOIL	Plastic Bag	✓					
SOIL 18 0.5-0.6	3	7.9.07	SOIL	Plastic Bag						✓
SOIL 18 0.8-0.9	4	7.9.07	SOIL	Plastic Bag	✗					✓
SOIL 18 1.1-1.2	5	7.9.07	SOIL	Plastic Bag	✓					
SOIL 19 0-0.1	6	7.9.07	SOIL	Plastic Bag	✓					

Split Samples	Analysis
Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Environmental Division
Brisbane
Work Order

AB

EB0710298



Telephone : +61-7-3243 7222

Quality Assurance							
Relinquished by:							
Name (and initial):	Janet Krick	Date:	10.9.07	Name (and initial):	A Boyle	Date:	11/9/07
Company:	Connell Hatch	Time:	3.02pm	Company:	AKS	Time:	11.00
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@connwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.2007

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON DISPERSION TEST							
GOAL 19 0.2-0.3	7	7.9.07	SOIL	Plastic Bag	✓							
GOAL 19 0.5-0.6	8	7.9.07	SOIL	Plastic Bag	✓							
GOAL 19 0.8-0.9	9	7.9.07	SOIL	Plastic Bag								✓
GOAL 20 0.2-0.3	10	7.9.07	SOIL	Plastic Bag	✓							
GOAL 20 0.2-0.3	11	7.9.07	SOIL	Plastic Bag	✓							
GOAL 21 0-0.1	12	7.9.07	SOIL	Plastic Bag	✓							

Split Samples**Analysis**

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Just Krick	Date:	10.9.07	Name (and initial):	HR
Company:	Connell Hatch	Time:	3.00pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Connell Wagner Pty Ltd
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Email: cwrok@conwag.com
www.conwag.com

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 06
Project Name:	SILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.2007

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON DISPERSION TEST							
GAAL 21 0.2-0.3	13	7.9.07	SOIL	Plastic Bag								✓
GAAL 21 0.5-0.6	14	7.9.07	SOIL	Plastic Bag								✓
GAAL 21 0.8-0.9	15	7.9.07	SOIL	Plastic Bag	✓							
GAAL 21 1.1-1.2	16	7.9.07	SOIL	Plastic Bag								✓
GAAL 22 0-0.1	17	7.9.07	SOIL	Plastic Bag	✓							
GAAL 22 0.2-0.3	18	7.9.07	SOIL	Plastic Bag								✓

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	James Krick	Date:	10.9.07	Name (and initial):	AK
Company:	Connell Hatch	Time:	3.00pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@connwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.2007

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Eriksen Dispersion TEST							
GOAL 22 0.5-0.6	19	7.9.07	SOIL	Plastic Bag								✓
GOAL 22 0.8-0.9	20	7.9.07	SOIL	Plastic Bag								✓
GOAL 22 1.1-1.2	21	7.9.07	SOIL	Plastic Bag	✓							
GOAL 23 0-0.1	22	7.9.07	SOIL	Plastic Bag	✓							
GOAL 23 0.2-0.3	23	7.9.07	SOIL	Plastic Bag								✓
GOAL 23 0.5-0.6	24	7.9.07	SOIL	Plastic Bag								✓

Split Samples**Analysis**

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Janet Kvich	Date:	10.9.07	Name (and initial):	dh
Company:	Connell Hatch	Time:	3.00pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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 www.conwag.com

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 OG
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Savina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.2007

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	EMERSON DISPERSION TEST						
GAAL 23 08-09	25	7.9.07	SOIL	Plastic Bag							
GAAL 03 11-12	26	7.9.07	SOIL	Plastic Bag	✓						

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	David Koeh	Date:	10.9.07	Name (and initial):	DR	Date:	
Company:	Connell Hatch	Time:	3.00pm	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	PH (1:5)	EC (1:5)	Cation (Mg, Na, K, Ca)	Anion (Nitrate, Sulfate, Cl)	ESP	CEC	
27 GQAL18 0-01		7.9.07	soil	Jar	✓	✓	✓	✓	✓	✓	
28 GQAL18 0-2-03		7.9.07	soil	Jar	✓	✓	✓	✓	✓	✓	
29 GQAL18 0-5-06		7.9.07	soil	Jar	✓	✓	✓	✓	✓	✓	
30 GQAL18 0-8-09		7.9.07	soil	Jar	✓	✓	✓	✓	✓	✓	
31 GQAL18 1-1-12		7.9.07	soil	Jar	✓	✓	✓	✓	✓	✓	
32 GQAL18 0-0-1		7.9.07	soil	Jar	✓	✓	✓	✓	✓	✓	

Split Samples**Analysis**

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Jane Kijack	Date:	10.9.07	Name (and initial):	13/2
Company:	Connell Hatch	Time:	3pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HRT9 06
Project Name:	SILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required				
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	PH(1:5)	EC(1:5)	Cations (mg, Na, K, Ca)	Anions (mg, NO ₃ , SO ₄ , Cl)	ESP
33	WAL19	02-03	soil	Jar	/	/	/	/	/
34	WAL19	02-06	soil	Jar	/	/	/	/	/
35	WAL19	08-09	soil	Jar	/	/	/	/	/
	WAL19	11-12	soil	Jar	/	/	/	/	/
36	WAL20	02-01	soil	Jar	/	/	/	/	/
37	WAL20	02-03	soil	Jar	/	/	/	/	/

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:

Name (and initial):	Jared K. O'Connell	Date:	10-9-07	Name (and initial):	4/2	Date:	
Company:	Connell Hatch	Time:	3pm	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HRT9 06
Project Name:	SILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cation (mg Na, K, Ca)	Anion (mg NO ₃ , SO ₄ , Cl)	ESP	CEC	
38 GQAL21 C-C-1		7.9.07	soil	Jar	/	/	/	/	/	/	
39 GQAL21 C2-03		7.9.07	soil	Jar	/	/	/	/	/	/	
40 GQAL21 C5-06		7.9.07	soil	Jar	/	/	/	/	/	/	
41 GQAL21 C8-04		7.9.07	soil	Jar	/	/	/	/	/	/	
42 GQAL21 1-1-12		7.9.07	soil	Jar	/	/	/	/	/	/	
43 GQAL22 C-C-1		7.9.07	soil	Jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Janet H. H.	Date:	10.9.07	Name (and initial):	djh
Company:	Connell Hatch	Time:	3pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

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www.conwag.com

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cation (mg, Na, K, Ca)	Anion (mg, NO ₃ , PO ₄)	ESP	EC		
44 GQAL22 0.2-0.3		7.9.07	soil	Jar	/	/	/	/	/	/		
45 GQAL22 0.5-0.6		7.9.07	soil	Jar	/	/	/	/	/	/		
46 GQAL22 0.8-0.9		7.9.07	soil	Jar	/	/	/	/	/	/		
47 GQAL22 1.1-1.2		7.9.07	soil	Jar	/	/	/	/	/	/		
48 GQAL23 0.0-0.1		7.9.07	soil	Jar	/	/	/	/	/	/		
49 GQAL23 0.2-0.3		7.9.07	soil	Jar	/	/	/	/	/	/		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Jared M. Clark	Date:	10.9.07	Name (and initial):	JM	Date:	
Company:	Connell Hatch	Time:	3pm	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	10.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	6.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (K5)	EC (1:5)	Cations (mg, Na, K, Ca)	Anions (mg, Cl, SO ₄)	ESP	CEC	
50 GQAL23 0.3-0.6		7.9.07	soil	Jar	/	/	/	/	/	/	
51 GQAL23 0.3-0.6		7.9.07	soil	Jar	/	/	/	/	/	/	
52 GQAL23 1.1-1.2		7.9.07	soil	Jar	/	/	/	/	/	/	

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	James Keck	Date:	10.9.07	Name (and initial):	JBZ	Date:	
Company:	Connell Hatch	Time:	3pm	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	



Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)
Comprehensive Report

Work Order : EB0710298

Client	: CONNELL WAGNER PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: MS MONIQUE HARRISON	Contact	: Tim Kilmister
Address	: LOCKED BAG 1800 SPRING HILL QLD AUSTRALIA 4004	Address	: 32 Shand Street Stafford QLD Australia 4053
E-mail	: harrisonm@conwag.com	E-mail	: Services.Brisbane@alsenviro.com
Telephone	: +61 32461000	Telephone	: +61-7-3243 7222
Facsimile	: +61 07 32461001	Facsimile	: +61-7-3243 7218
Project	: JILALAN RAIL ARD UPGRADE	Page	: 1 of 3
Order number	: HR7906	Quote number	: ES20070069 (SY/104/07)
C-O-C number	: ----	QC Level	: NEPM 1999 Schedule B(3) and ALS QCS3 requirement
Site	: SARINA		
Sampler	: MONIQUE HARRISON		

Dates

Date Samples Received	: 11-SEP-2007	Issue Date	: 12-SEP-2007 14:21
Client Requested Due Date	: 20-SEP-2007	Scheduled Reporting Date	: 20-SEP-2007

Delivery Details

Mode of Delivery	: Carrier	Temperature	: 16.6 C - Ice bricks present
No. of coolers/boxes	: 2 MEDIUM	No. of samples received	: 52
Security Seal	: Intact.	No. of samples analysed	: 40

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times.**
- **Emerson analysis will be subcontracted to Golder Associates.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Please direct any queries related to sample condition / numbering / breakages to Maggie Kahi.
- Analytical work for this work order will be conducted at ALSE Brisbane.
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exist.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes.

Matrix: **SOIL**

Client sample ID

Client sampling date
/ time

Laboratory
sample ID

			(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids): Electrical Conductivity (1:5) <small>Electrical Conductivity (dS/m)</small>	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble	SOIL - Major Anions Cl, SO4 only
GQAL 18 0.2-0.3	07-SEP-2007 15:00	EB0710298-002	✓							
		EB0710298-028		✓	✓	✓	✓		✓	
GQAL 18 0.5-0.6	07-SEP-2007 15:00	EB0710298-003	✓							
		EB0710298-029		✓	✓		✓	✓	✓	✓
GQAL 18 0.8-0.9	07-SEP-2007 15:00	EB0710298-004	✓							
		EB0710298-030		✓	✓	✓	✓		✓	
GQAL 18 0-0.1	07-SEP-2007 15:00	EB0710298-001	✓							
		EB0710298-027		✓	✓		✓	✓	✓	✓
GQAL 18 1.1-1.2	07-SEP-2007 15:00	EB0710298-005	✓							
		EB0710298-031		✓	✓		✓	✓	✓	✓
GQAL 19 0.2-0.3	07-SEP-2007 15:00	EB0710298-007	✓							
		EB0710298-033		✓	✓	✓	✓		✓	
GQAL 19 0.5-0.6	07-SEP-2007 15:00	EB0710298-008	✓							
		EB0710298-034		✓	✓		✓	✓	✓	✓
GQAL 19 0.8-0.9	07-SEP-2007 15:00	EB0710298-009	✓							
		EB0710298-035		✓	✓		✓	✓	✓	✓
GQAL 19 0-0.1	07-SEP-2007 15:00	EB0710298-006	✓							
		EB0710298-032		✓	✓	✓	✓		✓	
GQAL 20 0.2-0.3	07-SEP-2007 15:00	EB0710298-011	✓							
		EB0710298-037		✓	✓		✓	✓	✓	✓
GQAL 20 0-0.1	07-SEP-2007 15:00	EB0710298-010	✓							
		EB0710298-036		✓	✓		✓	✓	✓	✓
GQAL 21 0.2-0.3	07-SEP-2007 15:00	EB0710298-013	✓							
		EB0710298-039		✓	✓	✓	✓		✓	
GQAL 21 0.5-0.6	07-SEP-2007 15:00	EB0710298-014	✓							
		EB0710298-040		✓	✓		✓	✓	✓	✓
GQAL 21 0.8-0.9	07-SEP-2007 15:00	EB0710298-015	✓							
		EB0710298-041		✓	✓	✓	✓		✓	
GQAL 21 0-0.1	07-SEP-2007 15:00	EB0710298-012	✓							
		EB0710298-038		✓	✓		✓	✓	✓	✓
GQAL 21 1.1-1.2	07-SEP-2007 15:00	EB0710298-016	✓							
		EB0710298-042		✓	✓		✓	✓	✓	✓
GQAL 22 0.2-0.3	07-SEP-2007 15:00	EB0710298-018	✓							
		EB0710298-044		✓	✓	✓	✓		✓	
GQAL 22 0.5-0.6	07-SEP-2007 15:00	EB0710298-019	✓							
		EB0710298-045		✓	✓		✓	✓	✓	✓



			(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids) Electrical Conductivity (1:5) <small>Electrical Conductivity (EC)</small>	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble	SOIL - Major Anions Cl, SO4 only
GQAL 22 0.8-0.9	07-SEP-2007 15:00	EB0710298-020	✓							
		EB0710298-046		✓	✓	✓	✓		✓	
GQAL 22 0-0.1	07-SEP-2007 15:00	EB0710298-017	✓							
		EB0710298-043		✓	✓		✓	✓	✓	✓
GQAL 22 1.1-1.2	07-SEP-2007 15:00	EB0710298-021	✓							
		EB0710298-047		✓	✓		✓	✓	✓	✓
GQAL 23 0.0-0.1	07-SEP-2007 15:00	EB0710298-048		✓	✓		✓	✓	✓	✓
GQAL 23 0.2-0.3	07-SEP-2007 15:00	EB0710298-049		✓	✓	✓	✓		✓	
GQAL 23 0.5-0.6	07-SEP-2007 15:00	EB0710298-050		✓	✓		✓	✓	✓	✓
GQAL 23 0.8-0.9	07-SEP-2007 15:00	EB0710298-051		✓	✓	✓	✓		✓	
GQAL 23 1.1-1.2	07-SEP-2007 15:00	EB0710298-052		✓	✓		✓	✓	✓	✓
GQAL23 0.2-0.3	07-SEP-2007 15:00	EB0710298-023	✓							
GQAL23 0.5-0.6	07-SEP-2007 15:00	EB0710298-024	✓							
GQAL23 0.8-0.9	07-SEP-2007 15:00	EB0710298-025	✓							
GQAL23 0-0.1	07-SEP-2007 15:00	EB0710298-022	✓							
GQAL23 1.1-1.2	07-SEP-2007 15:00	EB0710298-026	✓							

Requested Deliverables

MR LLOYD BLOMFIELD

- A4 - AU Certificate of Analysis - NATA	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Interpretive Quality Control Report	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Quality Control Report - NATA	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Sample Receipt Notification - Comprehensive format	Email	lloyd.blomfield@alsenviro.com
- Default - Chain of Custody	Email	lloyd.blomfield@alsenviro.com
- EDI Format - ENMRG	Email	lloyd.blomfield@alsenviro.com
- EDI Format - XTab	Email	lloyd.blomfield@alsenviro.com
- Trigger - Subcontract Report	Email	lloyd.blomfield@alsenviro.com

MS MONIQUE HARRISON

- A4 - AU Certificate of Analysis - NATA	Email	harrisonm@conwag.com
- A4 - AU Interpretive Quality Control Report	Email	harrisonm@conwag.com
- A4 - AU Quality Control Report - NATA	Email	harrisonm@conwag.com
- A4 - AU Sample Receipt Notification - Comprehensive format	Email	harrisonm@conwag.com
- A4 - AU Tax Invoice	Email	harrisonm@conwag.com
- Default - Chain of Custody	Email	harrisonm@conwag.com
- EDI Format - ENMRG	Email	harrisonm@conwag.com
- EDI Format - XTab	Email	harrisonm@conwag.com
- Trigger - Subcontract Report	Email	harrisonm@conwag.com

Connell Wagner Pty Ltd
ABN 54 005 139 873
1st Floor
180 Quay Street
Rockhampton

Telephone: +61 7 4922 9252
Facsimile: +61 7 4921 3891
Email: cwrok@conwag.com
www.conwag.com

Connell Wagner

MACKAY

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	11.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YAAD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	7.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cations (Ca, Mg, Na, K)	Anions (Nitrate, Cl, SO4)	ESD	CEC	
0-0.1 GICAL24	1	11.9.07	soil	Jar	/	/	/	/	/	/	
0-2-0.3 GICAL24	2	11.9.07	soil	Jar	/	/	/	/	/	/	
0.5-0.6 GICAL24	3	11.9.07	soil	Jar	/	/	/	/	/	/	
0.8-0.9 GICAL24	4	11.9.07	soil	Jar	/	/	/	/	/	/	
1.1-1.2 GICAL24	5	11.9.07	soil	Jar	/	/	/	/	/	/	
0-0.1 GICAL25	6	11.9.07	soil	Jar	/	/	/	/	/	/	

Split Samples

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Environmental Division
Brisbane
Work Order

EB0710323



Telephone : +61-7-3243 7222

Quality Assurance

Relinquished by:							
Name (and initial):	Jared Price	Date:	11.9.07	Name (and initial):		Date:	
Company:	Connell Hatch	Time:	3pm	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	11.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HRT9 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	7.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analyses Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cations (Na, Mg, Ca, K)	Anions (Alkalinity, Cl, SO ₄)	ESP	CEC	Emulsion	Hold
QAAL25 0.2-0.3	7	11.9.07	soil	Jar	/	/	/	/	/	/		
QAAL25 0.3-0.6	8	11.9.07	soil	Jar	/	/	/	/	/	/		
QAAL25 0.6-0.9	9	11.9.07	soil	Jar	/	/	/	/	/	/		
QAAL25 1.1-1.2	10	11.9.07	soil	Jar	/	/	/	/	/	/		
QAAL24 0-0.1	11	11.9.07	soil	zip lock								/
QAAL24 0.2-0.3	12	11.9.07	soil	zip lock								/

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Jared Kitch	Date:	11.9.07	Name (and initial):	
Company:	Connell Hatch	Time:	3pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	11-9-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	7-10-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emission Aggregate Test						
COAL21 0-5-06	13	11-9-07	soil	ziplock	/						
COAL21 0-8-07	14	11-9-07	soil	ziplock	/						
COAL24 1-1-1-2	15	11-9-07	soil	ziplock							/
COAL25 0-0-1	16	11-9-07	soil	zip lock	/						
COAL25 0-2-0-3	17	11-9-07	soil	ziplock	/						
COAL25 0-5-06	18	11-9-07	soil	ziplock							/

Split Samples**Analysis**

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Janet Kinde	Date:	11-9-07	Name (and initial):	
Company:	Connell Hatch	Time:	3pm	Company:	
Name (and initial):		Date:		Name (and initial):	
Company:		Time:		Company:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	11.9.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	HR79 06
Project Name:	JILALAN RAIL YAAD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	7.10.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container							
QCAL25 08-09	19	11.9.07	soil	zip lock	Emergency Response Test						
QCAL25 08-1-12	20	11.9.07	soil	zip lock	/						

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Jared Kitch	Date:	11.9.07	Name (and initial):		Date:	
Company:	Connell Hatch	Time:	3pm	Company:		Time:	
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	



Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)
Comprehensive Report

Work Order : **EB0710323**

Client : **CONNELL WAGNER PTY LTD**
Contact : **MS MONIQUE HARRISON**
Address : **LOCKED BAG 1800 SPRING HILL**
QLD AUSTRALIA 4004
E-mail : **harrisonm@conwag.com**
Telephone : **+61 32461000**
Facsimile : **+61 07 32461001**

Laboratory : **Environmental Division Brisbane**
Contact : **Tim Kilmister**
Address : **32 Shand Street Stafford QLD Australia**
4053
E-mail : **Services.Brisbane@alsenviro.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**

Project : **HR7906 JILALAN RAIL YARD**
UPGRADE

Page : **1 of 2**

Order number : **----**

C-O-C number : **----**

Site : **SARINA**

Sampler : **CONNELL HATCH**

Quote number : **EB20070203 (BN/212/07)**

QC Level : **NEPM 1999 Schedule B(3) and ALS**
QCS3 requirement

Dates

Date Samples Received : **12-SEP-2007**

Client Requested Due Date : **21-SEP-2007**

Issue Date : **12-SEP-2007 16:44**

Scheduled Reporting Date : **21-SEP-2007**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **2 LARGE 1 MEDIUM**
Security Seal : **Intact.**

Temperature : **3.6 C - Ice present**
No. of samples received : **20**
No. of samples analysed : **15**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times.**
- **Emerson analysis will be subcontracted to Golder Associates.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Please direct any queries related to sample condition / numbering / breakages to Maggie Kahi.
- Analytical work for this work order will be conducted at ALSE Brisbane.
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exist.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes.

Matrix: **SOIL**

Client sample ID

Client sampling date
/ time

Laboratory
sample ID

			(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids): Electrical Conductivity (1:5) <small>Electrical Conductivity (EC) (µS/cm)</small>	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble	SOIL - Major Anions Cl, SO4 only
GQAL 24 0.2-0.3	11-SEP-2007 15:00	EB0710323-002		✓	✓	✓	✓		✓	
		EB0710323-012	✓							
GQAL 24 0.5-0.6	11-SEP-2007 15:00	EB0710323-003		✓	✓		✓	✓	✓	✓
		EB0710323-013	✓							
GQAL 24 0.8-0.9	11-SEP-2007 15:00	EB0710323-004		✓	✓	✓	✓		✓	
		EB0710323-014	✓							
GQAL 24 0-0.1	11-SEP-2007 15:00	EB0710323-001		✓	✓		✓	✓	✓	✓
		EB0710323-011	✓							
GQAL 24 1.1-1.2	11-SEP-2007 15:00	EB0710323-005		✓	✓		✓	✓	✓	✓
		EB0710323-015	✓							
GQAL 25 0.2-0.3	11-SEP-2007 15:00	EB0710323-007		✓	✓	✓	✓		✓	
		EB0710323-017	✓							
GQAL 25 0.5-0.6	11-SEP-2007 15:00	EB0710323-008		✓	✓		✓	✓	✓	✓
		EB0710323-018	✓							
GQAL 25 0.8-0.9	11-SEP-2007 15:00	EB0710323-009		✓	✓	✓	✓		✓	
		EB0710323-019	✓							
GQAL 25 0-0.1	11-SEP-2007 15:00	EB0710323-006		✓	✓		✓	✓	✓	✓
		EB0710323-016	✓							
GQAL 25 1.1-1.2	11-SEP-2007 15:00	EB0710323-010		✓	✓		✓	✓	✓	✓
		EB0710323-020	✓							

Requested Deliverables

ACCOUNTS PAYABLE

- A4 - AU Tax Invoice

Email grayl@conwag.com

MS MONIQUE HARRISON

- A4 - AU Certificate of Analysis - NATA
- A4 - AU Interpretive Quality Control Report
- A4 - AU Quality Control Report - NATA
- A4 - AU Sample Receipt Notification - Comprehensive format
- Default - Chain of Custody
- EDI Format - ENMRG
- EDI Format - XTab
- Trigger - Subcontract Report

Email harrisonm@conwag.com
Email harrisonm@conwag.com
Email harrisonm@conwag.com
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Email harrisonm@conwag.com
Email harrisonm@conwag.com
Email harrisonm@conwag.com
Email harrisonm@conwag.com

Connell Wagner Pty Ltd

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1st Floor

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Rockhampton

Telephone: +61 7 4922 9252

Facsimile: +61 7 4921 3891

Email: cwrok@conwag.com

www.conwag.com

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	12-11-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	30420 HR 79 06
Project Name:	JILALAN RAIL YAAD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	20-11-06

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emerson Aggregates 70% 10% 20%							plon
QCAL28 0-0.1	6	6-11-07	Soil	2-ploc bag	✓							
QCAL28 0.5-0.6	9	"	"	"	✓							
QCAL28 0.8-0.9	10	"	"	"	✓							
QCAL28 1.1-1.2	11	"	"	"	✓							
QCAL29 8-2-03	12	7-11-07	"	"	✓							
QCAL29 0.5-0.6	13	7-11-07	"	"	✓							

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Janet Krick	Date:	12-11-07	Name (and initial):	N. Krick	Date:	12/11/07
Company:	Connell Hatch	Time:	2:30	Company:	ALS	Time:	1650
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Connell Wagner Pty Ltd
 ABN 54 005 139 873
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 180 Quay Street
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Telephone: +61 7 4922 9252
 Facsimile: +61 7 4921 3891
 Email: cwrok@conwag.com
 www.conwag.com

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	12.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	30420 HRTA 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	20.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emerson Approved Test						
QCAL26 0-0.1	14	6.11.07	soil	zip lock bag	✓						✓
QCAL26 0.2-0.3	15	"	"	"	✓						✓
QCAL26 0.5-0.6	16	"	"	"	✓						✓
QCAL26 0.8-0.9	17	"	"	"	✓						✓
QCAL26 1.1-1.2	18	"	"	"	✓						✓
QCAL29 0.8-0.9	19	"	"	"							✓

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Jared Kwick	Date:	12.11.07	Name (and initial):	N. KING	Date:	14.11.07
Company:	Connell Hatch	Time:	2.30pm	Company:	ALS	Time:	1050
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	12.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	30420 HR 79-06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@connwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	20.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	Emulsion Analysis Test							
QAL27 0-0.1	20	6.11.07	soil	ziplock bag	✓							
QAL27 0.2-0.3	21	6.11.07	soil	"								✓
QAL27 0.5-0.6	22	"	soil	"	✓							
QAL27 0.8-0.9	23	"	soil	"								✓
QAL27 1.1-1.2	24	"	soil	"	✓							
QAL29 1.1-1.2	25	7.11.07	"	"	✓							

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Janet King	Date:	12.11.07	Name (and initial):	N. King	Date:	14/11/07
Company:	Connell Hatch	Time:	2:30pm	Company:	ALB	Time:	1050
Name (and initial):		Date:		Name (and initial):		Date:	
Company:		Time:		Company:		Time:	



Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)
Comprehensive Report

Work Order : **EB0713369**

Client : **CONNELL WAGNER PTY LTD**
Contact : **MS MONIQUE HARRISON**
Address : **LOCKED BAG 1800 SPRING HILL
QLD AUSTRALIA 4004**
E-mail : **harrisonm@conwag.com**
Telephone : **+61 07 32461000**
Facsimile : **+61 07 32461001**
Project : **30420 JILALAN RAIL YARD UPGRADE**
Order number : **----**
C-O-C number : **----**
Site : **SARINA**
Sampler : **----**

Laboratory : **Environmental Division Brisbane**
Contact : **Tim Kilmister**
Address : **32 Shand Street Stafford QLD Australia
4053**
E-mail : **Services.Brisbane@alsenviro.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**
Page : **1 of 3**
Quote number : **EB20070203 (BN/212/07)**
QC Level : **NEPM 1999 Schedule B(3) and ALS
QCS3 requirement**

Dates

Date Samples Received : **14-NOV-2007**
Client Requested Due Date : **20-NOV-2007**
Issue Date : **16-NOV-2007 10:26**
Scheduled Reporting Date : **21-NOV-2007**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **3 MEDIUM**
Security Seal : **Intact.**
Temperature : **7.4 C - Ice bricks present**
No. of samples received : **25**
No. of samples analysed : **20**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times.**
- **Emerson Aggregate analysis will be subcontracted to Golder Associates.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Please direct any queries related to sample condition / numbering / breakages to Maggie Kahi.
- Analytical work for this work order will be conducted at ALS Brisbane.
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exist.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	(On Hold) SOIL No analysis requested	SOIL - EA029 SPOCAS
EB0713369-001	12-NOV-2007 15:00	ASS7 0.0m		✓
EB0713369-002	12-NOV-2007 15:00	ASS7 0.5m		✓
EB0713369-003	12-NOV-2007 15:00	ASS7 1m		✓
EB0713369-004	12-NOV-2007 15:00	ASS7 1.5m		✓
EB0713369-005	12-NOV-2007 15:00	ASS7 2.0m		✓
EB0713369-006	12-NOV-2007 15:00	ASS7 2.5m		✓
EB0713369-007	12-NOV-2007 15:00	ASS7 3.0m		✓
EB0713369-008	06-NOV-2007 15:00	GQAL 28 0-0.1	✓	
EB0713369-009	06-NOV-2007 15:00	GQAL 28 0.5-0.6	✓	
EB0713369-010	06-NOV-2007 15:00	GQAL 28 0.8-0.9	✓	
EB0713369-011	06-NOV-2007 15:00	GQAL 28 1.1-1.2	✓	
EB0713369-012	07-NOV-2007 15:00	GQAL 29 0.2-0.3	✓	
EB0713369-013	07-NOV-2007 15:00	GQAL 29 0.5-0.6	✓	
EB0713369-014	06-NOV-2007 15:00	GQAL 26 0-0.1	✓	
EB0713369-015	06-NOV-2007 15:00	GQAL 26 0.2-0.3	✓	
EB0713369-016	06-NOV-2007 15:00	GQAL 26 0.5-0.6	✓	
EB0713369-017	06-NOV-2007 15:00	GQAL 26 0.8-0.9	✓	
EB0713369-018	06-NOV-2007 15:00	GQAL 26 1.1-1.2	✓	
EB0713369-019	06-NOV-2007 15:00	GQAL 29 0.8-0.9	✓	
EB0713369-020	06-NOV-2007 15:00	GQAL 27 0-0.1	✓	
EB0713369-021	06-NOV-2007 15:00	GQAL 27 0.2-0.3	✓	
EB0713369-022	06-NOV-2007 15:00	GQAL 27 0.5-0.6	✓	
EB0713369-023	06-NOV-2007 15:00	GQAL 27 0.8-0.9	✓	
EB0713369-024	06-NOV-2007 15:00	GQAL 27 1.1-1.2	✓	
EB0713369-025	07-NOV-2007 15:00	GQAL 29 1.1-1.2	✓	



Requested Deliverables

MR LLOYD BLOMFIELD

- A4 - AU Certificate of Analysis - NATA	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Interpretive Quality Control Report - No Anonymous	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Quality Control Report - NATA - No Anonymous	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Sample Receipt Notification - Environmental	Email	lloyd.blomfield@alsenviro.com
- Default - Chain of Custody	Email	lloyd.blomfield@alsenviro.com
- EDI Format - ENMRG	Email	lloyd.blomfield@alsenviro.com
- EDI Format - XTab	Email	lloyd.blomfield@alsenviro.com
- Trigger - Subcontract Report	Email	lloyd.blomfield@alsenviro.com

MS MONIQUE HARRISON

- A4 - AU Certificate of Analysis - NATA	Email	harrisonm@conwag.com
- A4 - AU Interpretive Quality Control Report - No Anonymous	Email	harrisonm@conwag.com
- A4 - AU Quality Control Report - NATA - No Anonymous	Email	harrisonm@conwag.com
- A4 - AU Sample Receipt Notification - Environmental	Email	harrisonm@conwag.com
- A4 - AU Tax Invoice	Email	harrisonm@conwag.com
- Default - Chain of Custody	Email	harrisonm@conwag.com
- EDI Format - ENMRG	Email	harrisonm@conwag.com
- EDI Format - XTab	Email	harrisonm@conwag.com
- Trigger - Subcontract Report	Email	harrisonm@conwag.com

M K/bll 01

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR 79 06 30420
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH(1:5)	EC(1:5)	Cations Na, Ca, Mg, K	Anions SO ₄ , Alkalinity, Cl	CEC	ESP		
QCAL30	0-0-17	8-11-07	soil	jar	✓	✓	✓	✓	✓	✓		
QCAL30	0-2-03 8	8-11-07	"	"	✓	✓	✓		✓			
QCAL30	0-5-06 9	8-11-07	"	"	✓	✓	✓	✓	✓	✓		
QCAL30	0-8-09 10	8-11-07	"	"	✓	✓	✓		✓			
QCAL30	1-1-102 11	8-11-07	"	"	✓	✓	✓	✓	✓	✓		
QCAL31	0-0-1 12	9-11-07	"	"	✓	✓	✓	✓	✓	✓		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Jared Knick	Date:	16.11.07	Name (and initial):		Date:	
Company:	Connell Hatch	Time:	10:30am	Company:		Time:	
Name (and initial):	J. H. G. I.	Date:	20.11.07	Name (and initial):		Date:	
Company:	ALS	Time:	1040	Company:		Time:	

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M 16/11/07

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR 79 06 30120
Project Name:	JILALAN RAIL YAAD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	0°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cations Mg, Ca, K	Anions SO ₄ , Nitrate, Cl	CEC	ESP	
QQAL31 0.2-0.3	13	9.11.07	soil	jar	✓	✓	✓		✓		
QQAL31 0.5-0.6	14	9.11.07	soil	"	✓	✓	✓	✓	✓	✓	
QQAL31 0.8-0.9	15	9.11.07	soil	"	✓	✓	✓	✓	✓	✓	
QQAL31 1.1-1.2	16	9.11.07	soil	"	✓	✓	✓	✓	✓	✓	
QQAL32 0-0.1	17	11.11.07	soil	"	✓	✓	✓	✓	✓	✓	
QQAL32 0.2-0.3	18	11.11.07	soil	"	✓	✓	✓		✓		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Jared Kirdz	Date:	16.11.07	Name (and initial):	
Company:	Connell Wagner	Time:	10:30	Company:	
Name (and initial):	J-M-Gall	Date:	20.11.07	Name (and initial):	
Company:	ALS	Time:	10:40	Company:	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR7930420 HR7930420
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only				
Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	°C

Sample Analysis											
Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/water)	Sample Container	pH (1:5)	EC (1:5)	Cations Na, Mg, K, Ca	Anions SO ₄ , ALK, Cl, NO ₃	ESP	CEC	
QCAL32 0.5-0.6	19	11.11.07	soil	jar	/	/	/	/	/	/	
QCAL32 0.8-0.9	20	11.11.07	"	jar	/	/	/	/	/	/	
QCAL32 1.1-1.2	21	11.11.07	"	"	/	/	/	/	/	/	
QCAL33 0-0.1	22	12.11.07	"	"	/	/	/	/	/	/	
QCAL33 0.2-0.3	23	12.11.07	"	"	/	/	/	/	/	/	
QCAL33 0.5-0.6	24	12.11.07	"	"	/	/	/	/	/	/	

Split Samples	Analysis
Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance							
Relinquished by:							
Name (and initial)	J. Krick	Date	16.11.07	Name (and initial)		Date	
Company	Connell Wagner	Time	10.30	Company		Time	
Name (and initial)	J. H. Gill	Date	20.11.07	Name (and initial)		Date	
Company	ALJ	Time	10.40	Company		Time	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 30420 06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cations Ag, Na, K, Ca	Anions SO ₄ , Cl, ALE	CEC	ESP		
GQAL33 0.8-0.9	25	12.11.07	Soil	jar	/	/	/	/	/	/		
GQAL33 1.0-1.2	26	12.11.07	"	jar	/	/	/	/	/	/		
GQAL34 0-0.1	27	13.11.07	"	"	/	/	/	/	/	/		
GQAL34 0.2-0.3	28	13.11.07	"	"	/	/	/	/	/	/		
GQAL34 0.5-0.6	29	13.11.07	"	"	/	/	/	/	/	/		
GQAL34 0.8-0.9	30	13.11.07	"	"	/	/	/	/	/	/		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial):	Janet Hinch	Date:	16.11.07	Name (and initial):		Date:	
Company:	Connell Wagner	Time:	10:30am	Company:		Time:	
Name (and initial):	JM GIL	Date:	20.11.07	Name (and initial):		Date:	
Company:	ALS	Time:	10:40	Company:		Time:	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16-11-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR79 ³⁰⁴²⁰ 06
Project Name:	SILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30-11-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH(1:5)	EC(1:5)	Cations Na, Mg, K, Ca	Anions SO ₄ , Cl, NO ₃	CEC	ESP		
GPAL34 1.1-1.2	31	13-11-07	soil	# jar	/	/	/	/	/	/		
GPAL35 0.0-0.1	32	14-11-07	"	"	/	/	/	/	/	/		
GPAL35 0.5-0.6	33	14-11-07	"	"	/	/	/	/	/	/		
GPAL35 0.8-0.9	34	14-11-07	"	"	/	/	/		/			
GPAL35 1.1-1.2	35	14-11-07	"	"	/	/	/	/	/	/		
GPAL35 0.2-0.3	GPAL35 0.2-0.3	14-11-07	"	"	/	/	/		/			

Split Samples

Analysis

Split Sample One:	
Split Sample Two:	
Split Sample Three:	
Split Sample Four:	
Split Sample Five:	

Quality Assurance

Relinquished by:					
Name (and initial):	Janet Kende	Date:	16-11-07	Name (and initial):	
Company:	Connell Wagner	Time:	10:30	Company:	
Name (and initial):	J-M-Gil	Date:	20-11-07	Name (and initial):	
Company:	ALS	Time:	10:40	Company:	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16-11-07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	HR-19-06
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30-11-07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container	pH (1:5)	EC (1:5)	Cations Na, Mg, Ca, K	Anions SO ₄ , NO ₃ , Cl	CEC	ESP		
QCAL36 0-0.1	37	14-11-07	soil	jar	/	/	/	/	/	/		
QCAL36 0.2-0.3	38	"	"	"	/	/	/	/	/	/		
QCAL36 0.5-0.6	39	"	"	"	/	/	/	/	/	/		
QCAL36 0.8-0.9	40	"	"	"	/	/	/	/	/	/		
QCAL36 1.1-1.2	41	"	"	"	/	/	/	/	/	/		

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:					
Name (and initial):	Jared Kirch	Date:	16-11-07	Name (and initial):	
Company:	Connell Wagner	Time:	10:30	Company:	
Name (and initial):	J.H. Gill	Date:	20-11-07	Name (and initial):	
Company:	ALS	Time:	10:40	Company:	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number	30420
Project Name	JILALAN RAIL YARD UPGRADE	Sampling Location	Sarina	Sampled By	CONNELL HATCH
Sample Device		Report Format	email pdf	Send Report To	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30-11-07

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis											
Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container							
QCAL30 0-2-0-3	42	8-11-07	soil	ziplock	✓						
QCAL30 0-8-0-9	43	"	"	"	✓						
QCAL30 1-1-1-2	44	"	"	"	✓						
QCAL31 0-0-1	45	9-11-07	"	"	✓						
QCAL31 0-2-0-3	46	"	"	"							✓
QCAL31 0-5-0-6	47	"	"	"	✓						

Split Samples	Analysis
Split Sample One	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance							
Relinquished by:							
Name (and initial)	Jared Krick	Date	16-11-07	Name (and initial)		Date	
Company	Connell Wagner	Time	3pm	Company		Time	
Name (and initial)	J. M. Call	Date	20-11-07	Name (and initial)		Date	
Company	ALS	Time	040	Company		Time	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number	30420
Project Name	JILALAN RAIL YARD UPGRADE	Sampling Location	Sarina	Sampled By	CONNELL HATCH
Sample Device		Report Format	email pdf	Send Report To	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: °C

Sample Analysis												
Sample					Analysis Required							
Sample ID	Lab ID	Date	Matrix (soil/water)	Sample Container								
GQAL30 0-8-0-9	48	9.11.07	soil	2. plastic								
GQAL31 1.1-1.2	49	9.11.07	"	"	✓							
GQAL32 0.0-0.1	50	11.11.07	"	"	✓							
GQAL32 0-2-0-3	51	"	"	"								✓
GQAL32 0-5-0-6	52	"	"	"	✓							
GQAL32 0-8-0-9	53	"	"	"								✓

Split Samples	Analysis
Split Sample One	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance							
Relinquished by:							
Name (and initial)	James Kruck	Date	16.11.07	Name (and initial)		Date	
Company	Connell Wagner	Time	3pm	Company		Time	
Name (and initial)	J.M. Cal	Date	12.11.07	Name (and initial)		Date	
Company	ALS	Time	10.40	Company		Time	

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Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number	30420
Project Name	JILALAN RAIL YAAD UPGRADE	Sampling Location	Sarina	Sampled By	CONNELL HATCH
Sample Device		Report Format	email pdf	Send Report To	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30-11-07

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: °C

Sample Analysis									
Sample					Analysis Required				
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container					
QCAL32 1-1-1.2	54	11.11.07	soil	2, plastic	✓				
QCAL33 0-0.1	55	12.11.07	"	"	✓				
QCAL33 0-2-0.3	56	"	"	"					✓
QCAL33 0.5-0.6	57	"	"	"	✓				
QCAL33 0.8-0.9	58	"	"	"					✓
QCAL33 1.1-1.2	59	"	"	"	✓				

Split Samples	Analysis
Split Sample One	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance							
Relinquished by:							
Name (and initial)	Tony Krick	Date	16.11.07	Name (and initial)		Date	
Company	Connell Wagner	Time	3pm	Company		Time	
Name (and initial)	J.M.Gill	Date	20.11.07	Name (and initial)		Date	
Company	ALS	Time	10.40	Company		Time	

10/13

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MK161101

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number	30420
Project Name	JILALAN RAIL YARD UPGRADE	Sampling Location	Sarina	Sampled By	CONNELL HATCH
Sample Device		Report Format	email pdf	Send Report To	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30-11-07

Laboratory Use Only			
Chilled:	Yes	No	Laboratory Batch Number:
Cooler Seal:	Broken	Intact	Temperature: C°

Sample Analysis										
Sample					Analysis Required					
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container						
QCAL 34 0-0-1	60	13-11-07	soil	2-plock	✓					
QCAL 34 0-2-0-3	61	"	"	"						✓
QCAL 34 0-5-0-5	62	"	"	"	✓					
QCAL 34 0-8-0-9	63	"	"	"						✓
QCAL 34 1-1-1-2	64	"	"	"	✓					
QCAL 35 0-0-0-1	65	14-11-07	soil	2-plock	✓					

Split Samples	Analysis
Split Sample One	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance							
Relinquished by:							
Name (and initial)	Jared Kruck	Date	16.11.07	Name (and initial)		Date	
Company	Connell Wagner	Time	3pm	Company		Time	
Name (and initial)	J-M Gill	Date	20-11-07	Name (and initial)		Date	
Company	ALS	Time	1040	Company		Time	

MK161101

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358001	Project Number:	30420
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@connwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required									
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container										
QAL35 0-0.3	66	14/11/07	soil	34 lock										
QAL35 0.5-0.6	67	"	soil	2p lock										
QAL35 0.8-0.9	68	"	soil	"										
QAL35 1.1-1.2	69	"	soil	"										
QAL36 0-0.1	70	"	soil	"										
QAL36 0.2-0.3	71	"	soil	"										

Split Samples

Analysis

Split Sample One:	
Split Sample Two:	
Split Sample Three:	
Split Sample Four:	
Split Sample Five:	

Quality Assurance

Relinquished by:							
Name (and initial):	Jared Kruck	Date:	16.11.07	Name (and initial):		Date:	
Company:	Connell Wagner	Time:	3pm	Company:		Time:	
Name (and initial):	J.M. Gil	Date:	20.11.07	Name (and initial):		Date:	
Company:	ALS	Time:	10.40	Company:		Time:	

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mk161101

Connell Wagner

Chain of Custody (CoC)

Client	Connell Wagner	Phone	31358540	Date & Time:	16.11.07
Postal Address	Locked Bag 1800 Spring Hill Q 4004	Fax	31358	Project Number:	30420..
Project Name:	JILALAN RAIL YARD UPGRADE	Sampling Location:	Sarina	Sampled By:	CONNELL HATCH
Sample Device:		Report Format	email pdf	Send Report To:	Monique Harrison harrisonm@conwag.com
QC Level	NATA	Send Invoice To (care of Connell Wagner)	Connell Hatch	Data Needed By	30.11.07

Laboratory Use Only

Chilled:	Yes	No	Laboratory Batch Number:	
Cooler Seal:	Broken	Intact	Temperature:	C°

Sample Analysis

Sample					Analysis Required						
Sample ID	Lab ID	Date	Matrix (soil/ water)	Sample Container							
COAL 36 0.5-0.6	72		soil	ziplock	✓						
COAL 36 0.8-0.9	73	16.11.07	"								✓
COAL 36 1.1-1.2	74	16.11.07	soil	ziplock	✓						

Split Samples

Analysis

Split Sample One:	
Split Sample Two	
Split Sample Three	
Split Sample Four	
Split Sample Five	

Quality Assurance

Relinquished by:							
Name (and initial)	Jared P. C.	Date:	16.11.07	Name (and initial)		Date:	
Company	Connell Wagner	Time:	3.30pm	Company		Time:	
Name (and initial)	J.M. G.U.	Date:	20.11.07	Name (and initial)		Date:	
Company	ALS	Time:	10.40	Company		Time:	

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Environmental Division

SAMPLE RECEIPT NOTIFICATION (SRN)
Comprehensive Report

Work Order : **EB0713560**

Client : **CONNELL WAGNER PTY LTD**
Contact : **MS MONIQUE HARRISON**

Address : **LOCKED BAG 1800 SPRING HILL**
QLD AUSTRALIA 4004

E-mail : **harrisonm@conwag.com**
Telephone : **+61 07 32461000**
Facsimile : **+61 07 32461001**

Project : **30420 JILALAN RAIL YARD UPGRADE**
Order number : **----**
C-O-C number : **----**
Site : **Sarina**
Sampler : **CONNELL HATCH**

Laboratory : **Environmental Division Brisbane**
Contact : **Tim Kilmister**

Address : **32 Shand Street Stafford QLD Australia**
4053

E-mail : **Services.Brisbane@alsenviro.com**
Telephone : **+61-7-3243 7222**
Facsimile : **+61-7-3243 7218**

Page : **1 of 4**

Quote number : **EB20070203 (BN/212/07)**

QC Level : **NEPM 1999 Schedule B(3) and ALS**
QCS3 requirement

Dates

Date Samples Received : **20-NOV-2007**
Client Requested Due Date : **30-NOV-2007**

Issue Date : **21-NOV-2007 13:38**
Scheduled Reporting Date : **29-NOV-2007**

Delivery Details

Mode of Delivery : **Carrier**
No. of coolers/boxes : **1 LARGE ,1 MEDIUM ,1**
SMALL
Security Seal : **Intact.**

Temperature : **6.4 C, 16.2 C - Ice present**
No. of samples received : **74**
No. of samples analysed : **62**

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Requested Deliverables
- **Samples received in appropriately pretreated and preserved containers.**
- **Sample(s) have been received within recommended holding times.**
- **Emerson Aggregate analysis will be subcontracted to Golder Associates.**
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Please direct any queries related to sample condition / numbering / breakages to Maggie Kahi.
- Analytical work for this work order will be conducted at ALS Brisbane.
- Sample Disposal - Aqueous (14 days), Solid (90 days) from date of completion of work order.



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exist.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes.

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids): Electrical Conductivity (1:5) Electrical Conductivity (1:5)	SOIL - EA029 SPOCAS	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble
EB0713560-001	13-NOV-2007 15:00	ASS8 0m				✓				
EB0713560-002	13-NOV-2007 15:00	ASS8 1.5m				✓				
EB0713560-003	13-NOV-2007 15:00	ASS8 2m				✓				
EB0713560-004	13-NOV-2007 15:00	ASS8 0.5m				✓				
EB0713560-005	13-NOV-2007 15:00	ASS8 1m				✓				
EB0713560-006	13-NOV-2007 15:00	ASS8 2.5				✓				
EB0713560-007	08-NOV-2007 15:00	GQAL30 0-0.1		✓	✓			✓	✓	✓
EB0713560-008	08-NOV-2007 15:00	GQAL30 0.2-0.3		✓	✓		✓	✓		✓
EB0713560-009	08-NOV-2007 15:00	GQAL30 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-010	08-NOV-2007 15:00	GQAL30 0.8-0.9		✓	✓		✓	✓		✓
EB0713560-011	08-NOV-2007 15:00	GQAL30 1.1-1.2		✓	✓			✓	✓	✓
EB0713560-012	09-NOV-2007 15:00	GQAL31 0-0.1		✓	✓			✓	✓	✓
EB0713560-013	09-NOV-2007 15:00	GQAL31 0.2-0.3		✓	✓		✓	✓		✓
EB0713560-014	09-NOV-2007 15:00	GQAL31 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-015	09-NOV-2007 15:00	GQAL31 0.8-0.9		✓	✓		✓	✓		✓
EB0713560-016	09-NOV-2007 15:00	GQAL31 1.1-1.2		✓	✓			✓	✓	✓
EB0713560-017	11-NOV-2007 15:00	GQAL32 0-0.1		✓	✓			✓	✓	✓
EB0713560-018	11-NOV-2007 15:00	GQAL32 0.2-0.3		✓	✓		✓	✓		✓
EB0713560-019	11-NOV-2007 15:00	GQAL32 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-020	11-NOV-2007 15:00	GQAL32 0.8-0.9		✓	✓		✓	✓		✓
EB0713560-021	11-NOV-2007 15:00	GQAL32 1.1-1.2		✓	✓			✓	✓	✓
EB0713560-022	12-NOV-2007 15:00	GQAL33 0-0.1		✓	✓			✓	✓	✓
EB0713560-023	12-NOV-2007 15:00	GQAL33 0.2-0.3		✓	✓		✓	✓		✓
EB0713560-024	12-NOV-2007 15:00	GQAL33 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-025	12-NOV-2007 15:00	GQAL33 0.8-0.9		✓	✓		✓	✓		✓
EB0713560-026	12-NOV-2007 15:00	GQAL33 1.1-1.2		✓	✓			✓	✓	✓
EB0713560-027	13-NOV-2007 15:00	GQAL34 0-0.1		✓	✓			✓	✓	✓
EB0713560-028	13-NOV-2007 15:00	GQAL34 0.2-0.3		✓	✓		✓	✓		✓
EB0713560-029	13-NOV-2007 15:00	GQAL34 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-030	13-NOV-2007 15:00	GQAL34 0.8-0.9		✓	✓		✓	✓		✓
EB0713560-031	13-NOV-2007 15:00	GQAL34 1.1-1.2		✓	✓			✓	✓	✓
EB0713560-032	14-NOV-2007 15:00	GQAL35 0-0.1		✓	✓			✓	✓	✓
EB0713560-033	14-NOV-2007 15:00	GQAL35 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-034	14-NOV-2007 15:00	GQAL35 0.8-0.9		✓	✓		✓	✓		✓
EB0713560-035	14-NOV-2007 15:00	GQAL35 1.1-1.2		✓	✓			✓	✓	✓



			(On Hold) SOIL No analysis requested	SOIL - EA002 pH (1:5)	SOIL - EA010 (solids): Electrical Conductivity (1:5) Electrical Conductivity (1:5)	SOIL - EA029 SPOCAS	SOIL - EA055-103 Moisture Content	SOIL - ED007 CEC / Exchangeable Cations (ED007)	SOIL - ED037 Alkalinity in Soil	SOIL - ED093S Cations - Soluble
EB0713560-036	14-NOV-2007 15:00	GQAL36 0.2-0.3		✓	✓		✓	✓		✓
EB0713560-037	14-NOV-2007 15:00	GQAL36 0.0-0.1		✓	✓			✓	✓	✓
EB0713560-038	14-NOV-2007 15:00	GQAL36 0.2-0.3		✓	✓		✓			✓
EB0713560-039	14-NOV-2007 15:00	GQAL36 0.5-0.6		✓	✓			✓	✓	✓
EB0713560-040	14-NOV-2007 15:00	GQAL36 0.8-0.9		✓	✓		✓			✓
EB0713560-041	14-NOV-2007 15:00	GQAL36 1.1-1.2		✓	✓			✓	✓	✓
EB0713560-042	08-NOV-2007 15:00	GQAL30 0.2-0.3	✓							
EB0713560-043	08-NOV-2007 15:00	GQAL30 0.8-0.9	✓							
EB0713560-044	08-NOV-2007 15:00	GQAL30 1.1-1.2	✓							
EB0713560-045	09-NOV-2007 15:00	GQAL31 0.0-0.1	✓							
EB0713560-046	09-NOV-2007 15:00	GQAL31 0.2-0.3	✓							
EB0713560-047	09-NOV-2007 15:00	GQAL31 0.5-0.6	✓							
EB0713560-048	09-NOV-2007 15:00	GQAL31 0.8-0.9	✓							
EB0713560-049	09-NOV-2007 15:00	GQAL31 1.1-1.2	✓							
EB0713560-050	11-NOV-2007 15:00	GQAL32 0.0-0.1	✓							
EB0713560-051	11-NOV-2007 15:00	GQAL32 0.2-0.3	✓							
EB0713560-052	11-NOV-2007 15:00	GQAL32 0.5-0.6	✓							
EB0713560-053	11-NOV-2007 15:00	GQAL32 0.8-0.9	✓							
EB0713560-054	11-NOV-2007 15:00	GQAL33 1.1-1.2	✓							
EB0713560-055	12-NOV-2007 15:00	GQAL33 0.0-0.1	✓							
EB0713560-056	12-NOV-2007 15:00	GQAL33 0.2-0.3	✓							
EB0713560-057	12-NOV-2007 15:00	GQAL33 0.5-0.6	✓							
EB0713560-058	12-NOV-2007 15:00	GQAL33 0.8-0.9	✓							
EB0713560-059	12-NOV-2007 15:00	GQAL33 1.1-1.2	✓							
EB0713560-060	13-NOV-2007 15:00	GQAL34 0.0-0.1	✓							
EB0713560-061	13-NOV-2007 15:00	GQAL34 0.2-0.3	✓							
EB0713560-062	13-NOV-2007 15:00	GQAL34 0.5-0.6	✓							
EB0713560-063	13-NOV-2007 15:00	GQAL34 0.8-0.9	✓							
EB0713560-064	13-NOV-2007 15:00	GQAL34 1.1-1.2	✓							
EB0713560-065	14-NOV-2007 15:00	GQAL35 0.0-0.1	✓							
EB0713560-066	14-NOV-2007 15:00	GQAL35 0.2-0.3	✓							
EB0713560-067	14-NOV-2007 15:00	GQAL35 0.5-0.6	✓							
EB0713560-068	14-NOV-2007 15:00	GQAL35 0.8-0.9	✓							
EB0713560-069	14-NOV-2007 15:00	GQAL35 1.1-1.2	✓							
EB0713560-070	14-NOV-2007 15:00	GQAL36 0.0-0.1	✓							
EB0713560-071	14-NOV-2007 15:00	GQAL36 0.2-0.3	✓							
EB0713560-072	14-NOV-2007 15:00	GQAL36 0.5-0.6	✓							
EB0713560-073	14-NOV-2007 15:00	GQAL36 0.8-0.9	✓							
EB0713560-074	14-NOV-2007 15:00	GQAL36 1.1-1.2	✓							



Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - Major Anions Cl, SO4 only
EB0713560-007	08-NOV-2007 15:00	GQAL30 0-0.1	✓
EB0713560-009	08-NOV-2007 15:00	GQAL30 0.5-0.6	✓
EB0713560-011	08-NOV-2007 15:00	GQAL30 1.1-1.2	✓
EB0713560-012	09-NOV-2007 15:00	GQAL31 0-0.1	✓
EB0713560-014	09-NOV-2007 15:00	GQAL31 0.5-0.6	✓
EB0713560-016	09-NOV-2007 15:00	GQAL31 1.1-1.2	✓
EB0713560-017	11-NOV-2007 15:00	GQAL32 0-0.1	✓
EB0713560-019	11-NOV-2007 15:00	GQAL32 0.5-0.6	✓
EB0713560-021	11-NOV-2007 15:00	GQAL32 1.1-1.2	✓
EB0713560-022	12-NOV-2007 15:00	GQAL33 0-0.1	✓
EB0713560-024	12-NOV-2007 15:00	GQAL33 0.5-0.6	✓
EB0713560-026	12-NOV-2007 15:00	GQAL33 1.1-1.2	✓
EB0713560-027	13-NOV-2007 15:00	GQAL34 0-0.1	✓
EB0713560-029	13-NOV-2007 15:00	GQAL34 0.5-0.6	✓
EB0713560-031	13-NOV-2007 15:00	GQAL34 1.1-1.2	✓
EB0713560-032	14-NOV-2007 15:00	GQAL35 0-0.1	✓
EB0713560-033	14-NOV-2007 15:00	GQAL35 0.5-0.6	✓
EB0713560-035	14-NOV-2007 15:00	GQAL35 1.1-1.2	✓
EB0713560-037	14-NOV-2007 15:00	GQAL36 0-0.1	✓
EB0713560-039	14-NOV-2007 15:00	GQAL36 0.5-0.6	✓
EB0713560-041	14-NOV-2007 15:00	GQAL36 1.1-1.2	✓

Requested Deliverables

MR LLOYD BLOMFIELD

- A4 - AU Certificate of Analysis - NATA	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Interpretive Quality Control Report - No Anonymous	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Quality Control Report - NATA - No Anonymous	Email	lloyd.blomfield@alsenviro.com
- A4 - AU Sample Receipt Notification - Environmental	Email	lloyd.blomfield@alsenviro.com
- Default - Chain of Custody	Email	lloyd.blomfield@alsenviro.com
- EDI Format - ENMRG	Email	lloyd.blomfield@alsenviro.com
- EDI Format - XTab	Email	lloyd.blomfield@alsenviro.com
- Trigger - Subcontract Report	Email	lloyd.blomfield@alsenviro.com

MS MONIQUE HARRISON

- A4 - AU Certificate of Analysis - NATA	Email	harrisonm@conwag.com
- A4 - AU Interpretive Quality Control Report - No Anonymous	Email	harrisonm@conwag.com
- A4 - AU Quality Control Report - NATA - No Anonymous	Email	harrisonm@conwag.com
- A4 - AU Sample Receipt Notification - Environmental	Email	harrisonm@conwag.com
- A4 - AU Tax Invoice	Email	harrisonm@conwag.com
- Default - Chain of Custody	Email	harrisonm@conwag.com
- EDI Format - ENMRG	Email	harrisonm@conwag.com
- EDI Format - XTab	Email	harrisonm@conwag.com
- Trigger - Subcontract Report	Email	harrisonm@conwag.com