

#### LA-UR-14-24719

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Title:	Maintenance Connection (MC) MC Tablet Hybrid Software Training for Sampler Inspections
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## **Maintenance Connection (MC)**

#### MC Tablet Hybrid Software Training for Sampler Inspections



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#### **Training objectives**

- To provide an overview of the MC Tablet Hybrid software.
- To communicate changes in Work Order (WO) generation and distribution.
- Provide step by step process for electronic WO data entry for sampler inspection forms.



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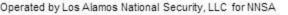


#### What is MC Tablet Hybrid?

- Offline windows based software option for use with MC.
- Stores a snapshot of MC
  - Your electronic view of the WO looks like what we see in MC.
- Allows electronic data entry of WOs, which can be directly uploaded into MC.
- Panasonic Toughbooks will be used to run the software.
  - Wireless capability has been disabled and can be only be connected to the yellow network via Ethernet port in TA-00 Bldg 1237 (Pueblo Complex)
  - Route Leads will be assigned a secureDoc account and a LANL
     WIN domain account



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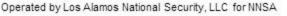


### Why Are We Using MC Tablet Hybrid?

- Process Improvement Projects
  - 2011
    - Decrease Maintenance Cycle Time for Storm Water Control Measures
  - 2012
    - 7-Day Holding Time Sample Retrieval and Analysis Process
    - Telemetry Improvement Project
  - 2013
    - Field Based PV Charging of Automated Samplers
  - 2014
    - Work order Data Management Process



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#### Work Order Data Management Process Improvement Project Overview

- The purpose of this process improvement is to ultimately go "paperless"
  - All prepopulated information on the hard copy forms is stored in MC.
  - WOs are currently issued in MC and distributed in hard copy form.
  - During the 2014 field season WOs for a select number of sampling locations per Route will be issued in MC and distributed both electronically via MC Tablet Hybrid and in hard copy form.
  - In future field seasons all WOs will be distributed electronically.



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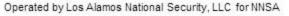


#### What is the new WO distribution process?

- An account in MC will be set up for each Route.
- Each Route will be assigned the following
  - A Toughbook installed with MC Tablet Hybrid software and an executable backup batch file
  - A flash drive that the executable batch file will be routinely saved to throughout the work day
- Hard copy WO distribution will continue as in previous years.
- Route Leads will need to connect their Toughbook to the yellow network daily to synchronize ('sync') with MC.



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# What is the new WO distribution process? (Continued)

 During the 'sync' any work orders that have been issued in MC to the Route since the last connection will be downloaded to the Toughbook. Any works order on the Toughbook that have been placed in a "completed" status will be uploaded from the Toughbook back to MC.



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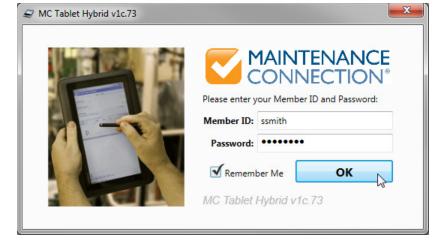


#### **Tablet Hybrid tutorial**

- Connect to the yellow network using open Ethernet ports in the Pueblo Complex.
- Route Leads will log in using their unique secureDoc and WIN account passwords
- Open the Tablet Hybrid program by clicking on the shortcut icon







Log in using the Route's Member ID and password

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#### **Tablet Hybrid Home Page**

 Menu: Access work order page, Asset page, Update base data, or return to home page.



- Sync: Synchronize tablet hybrid software with Maintenance connection
- Previous/Next: Use these buttons to scroll through calendar on Home page
- Display: Displays WOs by either target date or assign date

- It is recommended to always leave this selection on target date



#### **Tablet Hybrid Home Page Continued**

- Menu Dropdown:
  - 'Home' will return to the calendar (home page).
  - 'Work Orders' will list all work orders currently sync'd to the device.
  - 'Assets" will go to the asset hierarchy.
  - 'Update Base Data' sync's any specification or equipment configuration changes that have occurred in MC. This should be done on a weekly basis while connected to the yellow network.
- Image: C'd
   Image: Home

   Image: Work Orders
   Image: Work Orders

   Image: I

- Forget Automatic login will reset the login preferences.
- 'Release All Work Orders' will upload all work orders back to MC regardless of status.



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# Work Order Details Page Crosswalk to Current Hard Copy

Maintenance Connection Tablet Hybrid v1c.73 - 55	штн	<u>_ 8</u>	×
🔾 🍸 📝 🦂 臧 🔬	V		
Back Set Tasks Capture New New New Complete Signature Labor Material Other	Attach File		
quest Info		Work Order: SMPLR-32337	
C Tablet Hybrid sampler inspection test		Status: Issued / Responded	
		Priority: 2 (Normal)	
		Asset: SS092701	Click on
		55092701	Olick off
			the
📋 Details 🔤 🥥 🗰 💡			
Request Info	Work		racecar
Problem: EQUIP MALF	Name: Smith, Shannon	rocedure: SOP-10013-1 tablet 12c Target H	
The equipment malfunctioned between inspec	tion on Phone: (505) 920-9419 🔮 Call	ISCO Sampler Inspection and Water Retrieval	ICON Asse
Requester ID: 184219	Email: ssmith@adelanteconsulting.com	rget Date: 6/30/2014	_
Categories	Asset		to 🦼
Category: SAMPLERINSPECT	Customer:	In Service:	10
Sampler Inspection		Serial:	
Department: REN Rendija Canyon	Repair Center: SMPLR 8 Ind Permit Sampler Insp & Maint	& & X	open the
32227.pdf - Adobe Acrobat			-
ile Edit View Window Help		× peable:	asset
SOP-10013-1 Sampler Insp	pection and Sample Retrieval		details
Work Order ID: SMPLR-32337	Project ID: P-SMPLR-2847		naga
R003 : R-SMA-1.95 : SS092701	Date: Time:	a	page.
Project: Tablet sampler inspection Route: 1, R003-13-0006-72-R1.98-R5	Name/Z#:	- 11	
Target Date: 5/31/2013	Name/Z#: Lead Signature:	—	
Earliest Sample Collect Date: 9/3/2011	"I confirm the information as recorded is true, accurate and con	iplete."	

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### Asset Details Page Crosswalk to Current Hard Copy

Back New WO			_	
			Asset:	SS092701
				SS092701
			Classification:	STATION
			T	Station
6668	at .	183	In Service:	
10 0 V			Priority:	
Details				
General Info				
Model:		Customer:		
Serial:				
Department:	REN	Vicinity: 1, R003	-13-0006-72-R1	.95-R5
	Rendija Canyon	32227.pdf - Adobe Acro		
Warrenty Info		File Edit View Windo		×
Manufacturer:	·			
		SOP-10013-1		Sampler Inspection an
Warrenty Ends:		Work Order ID: SN	1PLR-32337	<u> </u>
Additional Info		R003 : R-SMA-1.95 : SS		
	- -	Project: Tablet sample Route: 1, R003-13-00		
Contact:		Target Date: 5/31/201		
Operator:		Earliest Sample Collect Date	e: 9/3/2011	
operation		Next Scheduled Battery Re		12
Constallant		Bottle Set Configuration 1 Trip level 0.08 # 7		
7 day hold time	ons	Program Time with Toggle a		L
ady noid time		8.50 x 11.00 in	m	

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#### **Asset History Page**

🗲' Maintenance Connection Tablet Hybrid v1c.73 - SSMITH	
Co Back New WO	
Comparison of the second secon	Asset: R-SMA-2.05 R-SMA-2.05 Classification: SMA SMA In Service: Priority:
🚳 💟 🥕 👺 History 💡 🖏	
WO # Reason Status Status Date Procedure	
BMP-32029 MC tablet control measure inspection example Issued 6/24/2014 Storm Water Control Measures Inspection Form           None	
BMP-38659 IP Rain Event on May 23, 2014 at RG-NCOM Issued / Finalized 6/2/2014 Storm Water Control Measures Inspection Form	
Vone	
COMP-36760 Annual Erosion Evaluation Inspection Closed 3/6/2014 Annual Erosion Evaluation Inspection	
none	
BMP-35486 IP Rain Event on September 12, 2013 at RG-NCOM Closed 2/20/2014 Storm Water Control Measures Inspection Form	
This also serves as the Significant Event inspection for the rain events %0D%0Aoccurring 9-10-13 through 9-14-2013	

- Quick view of previous inspections to the Asset (SMA) including finding written in the labor report (hard copy additional notes section)
- Click on the clipboard icon for detailed view of previous work orders.

• Use the • Los Alamos button to return to the Asset details of the current WO.

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#### Asset Specifications Crosswalk to Current Hard Copy

Co Lo Back New WO				
Specifications   Speci	Nume	SOP-100 Work Or R003 : R-S Project: Route: Target Da Earliest San Next Sched Bottle Set O Trip level	Classification: In Service: Nobe Acrobat Window He 13-1 rder ID: Si SMA-1.95 : Si Tablet sampl 1, R003-13-00 te: <b>5/31/20</b> mple Collect Di Nuled Battery R	Station  Station  Station  Sampl  MPLR-32337  S092701  ler inspection 006-72-R1.95-R5  13 ate: 9/3/2011  teplacement: 7/22/2012  12c-6 glass / 6 poly 7 day hold time

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#### **Asset Specifications Crosswalk Continued**

Back New WO		.73 - SSMITH									Σ
30						<u> </u>		Classification	SS092701 SS092701 STATION Station		2
9 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					_		7.pdf - Adob dit View	e Acrobat Window Help			
Name	ecifications 2 12 12 12 12 12 12 12 12 12 12 12 12 1	Date Value	Numeric Value	Minimum	Maximum	Los Alemos Neli	onal Laboratory				1
Program	Time with Toggle and	l Reset				SOP-10013- Work Orde	-1 er ID: SMPLR-		spection and Sample Project ID	Retrieval : P-SMPLR-2847	
Retrieved Collection	Date	9/3/2011 12:00:00 AM				Glass Botti Bottle # Bo	es: 0L-Min 0L-I		es contain water OR	to record ISCO mess es: 1 L-Min 2 L-Max Comments	sage
Frip level	0.08 ft				/	1 0	JP DG JP DG	te time voiume		comments	
Battery Schedule		7/22/2012 12:00:00 AM				4 0					
Glass Bottle				0	0	7 0	DP DG DP DG DP DG				_
oly Bottle				1	2		11.00 in	< <	m		-

To return to the Work Order click

at the top left corner.



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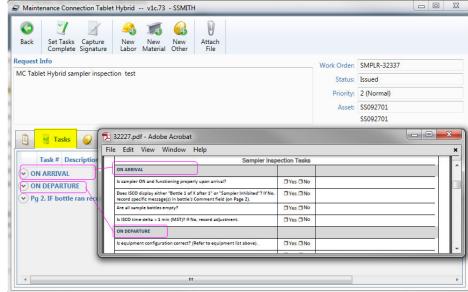
Back

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#### **Work Order Tasks Overview**

- Click on the Tasks tab to open the tasks.
- Each task that is on the hard copy will be displayed. Tasks are displayed in alternating white or grey.
- Section headers on the hard copy are also section headers in MC.







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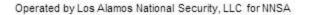


#### **Inspection Tasks Crosswalk – Page 1**

-	-	-		v1c.73 -	-		File Edit View	Window Help							×	
0	1	1	<u></u>	10		VI	Next Scheduled Batte	ry Replacement: 7/22/2012		Equipment	MFG	Model	Serial No.		EL	
Back	Set Tasks	Capture	New	New	New A	ttach		ion 12c- 6 glass / 6 poly	1	ISCO 3700 Sampler	Teledyne	3700	204M00458	וו		
	Complete S	ignature				File	Trip level 0.08 ft	7 day hold time		Actuator	ISCO	1640	213F01940			
equest I	Info						Program Time with To	oggle and Reset							=	
IC Table	et Hybrid samp	ler inspecti	on test						Sampler Ins	pection Tasks						
		10					ON ARRIVAL									
							Is sampler ON and fun	nctioning properly upon arrival?		OYes ONO						
							Does ISCO display eith	er "Bottle 1 of X after 1" or "Samp ge(s) in bottle's Comment field (on	ler Inhibited 3 If No,	OYes ONo	/					
							Are all sample bottles		reen -	OYes ONo		1				
							Ja SCO time delta < 1 :	min (MST)? If No, record adjustme	nt.	OYes ONo		1				
(h)	Tasks	<u>م</u>	Ø				ON DEPARTURE		/							
		2 4	U				Is equipment configur	ation correct? (Refer to equipmen	t list above).	OYes ONo						
	Task # Descri	intion						e. Is voltage acceptable?		OYes ONo						
		puon			$\bigwedge$	U				5.65.6						
∧ ON	ARRIVAL				/										_	
			r [204M004		/											
	IS sam	pler ON and	functionin	g proper	y upon arriv	al?							\			
G					Initials:		Rating:	Comments:								
U	Complete	E Fa	lied	/	mitials:				Observa	tions and not	es go in thi	S				
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Kead	<u> </u>	extboxes		45.01				l					•			
	ISCO 3	extboxes	r [204M004		after 1" or	'Sampler		ecord specific message	(s) in bottle's (	Comment field (	(on Page 2).		•			
2	ISCO 3	extboxes	r [204M004 either "Bot		after 1" or ' Initials:	'Sampler	Inhibited"? If No, re Rating:	ecord specific message( Comments:	(s) in bottle's (	Comment field (	(on Page 2).		•			
2	20 ISCO 3 Does I!	TOO Sample SCO display	r [204M004 either "Bot	tle 1 of X	Initials:	'Sampler			(s) in bottle's (	Comment field I	(on Page 2).		•			
2	20 ISCO 3 Does I Complete	TOO Sample SCO display	r [204M004 either "Bot			'Sampler			(s) in bottle's (	Comment field (	(on Page 2).		*			
2	20 ISCO 3 Does I Complete	TOO Sample SCO display	r [204M004 either "Bot	tle 1 of X	Initials:	Sampler			(s) in bottle's (	Comment field (	(on Page 2).		*			
2	20 ISCO 3 Does I! Complete Initia	TOO Sample SCO display	r [204M004 either "Bot	ttle 1 of X	Initials:	'Sampler			(s) in bottle's (	Comment field I	(on Page 2).		*			
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#### **Inspection Tasks Data Entry Example – Page 1**

	File Edit View Window Help	"I confirm the information as recorded is true, accurate
Back Set Tasks Capture Ne Complete Signature Lat Request Info MC Tablet Hybrid sampler inspection te	Next Scheduled Battery Replacement:         7/22/2012           Bottle Set Configuration         12c-6 glass / 6 poly           Trip level         0.08 ft         7 day hold time           Program         Time with Toggle and Reset	Equipment MFG Model Serait N ISCO 3/00 Sampler Teletytre 3/700 204M00 Actuator ISCO 1640 213F015
	T	pection Tasks
	ON ARRIVAL	
	Is sampler ON and functioning properly upon arrival?	ØYes □No
Tasks 🥥 🌵	Does ISCO display either "Bottle 1 of X after 1" or "Sampler Inhibited"? If No record specific message(s) in bottle's Comment field (on Page 2). Are all sample bottles empty?	Gyes No Sampler Inhibited
Task # Description	Is ISCO time delta < 1 min (MST)? if No, record adjustment.	DYes Stro 13:25 to 13:28
ON ARRIVAL	8.50 × 11.00 in <	13.23 77 13.20
10 ISCO 3700 Sampler [20		····/
61	ning properly upon arrival?	/
Complete 🔲 Failed	Initials: Rating: Con	mments:
Initial: Final:	Min: Max:	
Readings:		
✓ 20 ISCO 3700 Sampler (204M) Does ISCO display either "	00458] Bottle 1 of X after 1" or "Sampler Inhibited"7If No, record specific	message(s) in bottle's Comment field (on Page 2).
Does ISCO display either " Complete Failed Initial: Final: Readings:	Bottle 1 of X after 1" or "Sampler Inhibited"?If No, record specific	message(s) in bottle's Comment field (on Page 2).
Complete Failed	Bottle 1 of X after 1" or "Sampler Inhibited"?/If No, record specific Initials: Rating: Cou Min: Max:	
Does ISCO display either	Bottle 1 of X after 1" or "Sampler Inhibited"?/If No, record specific Initials: Rating: Cou Min: Max: http?	
Does is CO display either       Complete       Initial:       Final:       Readings:       30       Are all sample bottles emption	Bottle 1 of X after 1" or "Sampler Inhibited"?/If No, record specific Initials: Raying: Cou Min: Max: pty?	mments: Sampler Inhibited
Does ISCO display either       Complete       Initial:       Failed       30       Are all sample bottles emplored       Complete       Failed	Bottle 1 of X after 1" or "Sampler Inhibited"2/If No, record specific Initials: Raying: Cou Min: Max: pty? Initials: Rating: Cou	mments: Sampler Inhibited
Does ISCO display either         Complete         Failed         Initial:         Final:         Complete         Complete         Complete         Failed         Complete         Failed         Initial:         Final:         Readings:         Initial:         Final:         Readings:         ISCO 3700 Sampler [204M]	Bottle 1 of X after 1" or "Sampler Inhibited"2/If No, record specific Initials: Raying: Cou Min: Max: pty? Initials: Rating: Cou Min: Max:	mments: Sampler Inhibited
Does ISCO display either         Complete         Failed         Initial:         Final:         Complete         Complete         Complete         Failed         Complete         Failed         Initial:         Final:         Readings:         Initial:         Final:         Readings:         ISCO 3700 Sampler [204M]	Bottle 1 of X after 1" or "Sampler Inhibited"2/If No, record specific Initials: Rating: Cou Min: Max: pty? Initials: Rating: Cou Min: Max: 00458] (MST)? If No, record adjustment.	mments: Sampler Inhibited
Does ISCO display either         Imitial:         Initial:         Failed         Initial:         Failed         Initial:         Failed         Initial:         Failed         Initial:         Failed         Initial:         Final:         Readings:         Is ISCO 3700 Sampler J204M         Is ISCO time delta < 1 min	Bottle 1 of X after 1" or "Sampler Inhibited"2/If No, record specific Initials: Raying: Cou Min: Max: hty? Initials: Rating: Cou Min: Max: 00458] (MST)? If No, record adjustment.	mments:



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#### **Inspection Tasks Crosswalk – Page 2**

🥩 Mainte	enance Connection Table	t Hybrid v1c.73 - SSMITH	
0	7 8	32227.pdf - Adobe Acrobat       File Edit View Window Help	
Back	Set Tasks Capture Complete Signature	Los Alamos National Laboratory Page 1 of 2 for SMPLR-32337	
Request I	nfo		Work Order: SMPLR-32337
MC Table	et Hybrid sampler inspec	Conclusion of conclusion in Restand	Status: Issued
		SOP-10013-1 Sampler inspection and sample Retrieval Work Order ID: SMPLR-32337 Project ID: P-SMPLR-2847	
			Priority: 2 (Normal)
		Complete if sample bottles contain water OR to record ISCO message	Asset: SS092701
		Glass Bottles: 0 L-Min 0 L-Max Poly Bottles: 1 L-Min 2 L-Max	SS092701
1		Bottle # Bottle Type Date Time Volume Comments	
	🚽 Tasks 🥥 👎		
1	Task # Description		
ON ON	ARRIVAL		
$\leq$	DEPARTURE		ſ
~	and the second	pottle type (P or G) in Initials field, collection date and time in Readings Initial fields, volume in Readings Final field. Record	d any ISCO marcagas in Commonts Field
O''y		otte type (/ of o/ in initials new, conection date and time in readings within news, volume in readings i mai new, record	any 1500 messages in comments rieu
2	10 Bottle #1?		L. L
	Complete	ailed Initials: Rating: Comments:	A
	Initial:	Final: Min: Max:	
Read	ings:		
1			



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#### **Inspection Tasks Data Entry Example – Page 2**

Back Set Tasks Capture New	File Edit View Window Help	×
Complete Signature Labor		
lequest Info	Glass Bottles:     0 L-Min 0 L-Max     Poly Bottles:     1 L-Min 2 L-Max       Bottle # Bottle Type     Date     Time     Volume     Comments	
MC Tablet Hybrid sampler inspection test		=
	Sample collected	
	SAMPS Collected	
	and all and all and all all all all all all all all all al	
📋 🛃 Tasks 🥥 🌵 📝	4 GP DG GISING 22:15 DL Program Finished	
🛐 🎽 Tasks 🥥 😻 🔰		
Task # Description		
Pg 2. IF bottle ran record bottle type	e (P or G) in Initials tield, collection date and time in Readings Initial fields, volume in Readings Final field. Record any ISCO messages in Com	ments Field
✓ 210 Bottle #1?		[
Complete Eailed	Initials: G Rating: Comments: Sample collected	
Initial: Final:	Min: Max:	7
Readings: /5/14 22:12 1 L	•	
220 Bottle #2?		
Complete 📃 Failed	Initials: G Rating: Comments: Sample collected	
Initial: Final:	Min: Max	
Readings: /2014 22:13 1L		
✓ 230 Bottle #3?		
Complete 🗌 Failed	Initials: P Rating: Comments: Sample missed: No liquid detected	
Initial: Final:	Min: Max	
Readings: /5/14 22:14 OL		
☑ 260 Bottle #4?		
Complete 🗌 Failed	Initials: P Rating: Comments: Program Finished.	
Initial: Final:	Min: Max	
Readings: /5/14 22:15 0L	•	

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#### **Completing the Work Order Crosswalk**

#### After you have completed data entry click the Complete tab.

Back Set T Com Request Info	asks Capture plete Signature	New Labor Project I	D: P-SMPLR-2847	Help	× ×	5 SMPLR-32337	
	d sampler inspectio	Name/Z# Lead Sign 8.50 x 1	: ature:	Time:		SS092701	
Status Dates	🥥 🤨 Compl	ete y					
Requested:	6/9/2014	15	5	3:39 PM	• by:	SMS	
Issued:	6/9/2014	15	5	3:40 PM	by:	SMS	
Responded:	) Select a date	15	5		• by:		
Completed:	) Select a date	15	5		• by:		
$\bigcap$							
l							
Meter Readin	as 🔁 32	227.1.pdf:1 - Adobe /	Acrobat				
Meter Readin		<b>227.1.pdf:1 - Adobe /</b> Edit View Windo				×	9.0

Only fill out the "Completed" fields if you are done with all date entry

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#### **Completing the Work Order Crosswalk (Cont'd)**

- Click on the buttons to auto-populate the Responded and Completed date and time fields. You can navigate through the fields to adjust as necessary.
- The "Responded" date must be the same date and time as what is written on the hard copy (i.e. date of inspection) and initials of the individual who signed the hard copy.



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#### **Signing the Work Order**

Maintenance Connection Tablet Hybrid v1c.73 - SSMITH	
0 7 8 4 16 18	
pture Signature	🔁 32227.1.pdf - Adobe Acrobat
	File Edit View Window Help *
OK Cancel	Project ID: P-SMPLR-2847
escription: Shannon Smith 184219	Date: Time:
	Name/Z#:
	Name/Z#:
56	Lead Signature:
T Enter Signature Mere	"I confirm the information as recorded is true, accurate and complete."
	8.50 x 11.00 in <
	3:40 PM 👻 by: SMS
Kesponded: 0/10/2014 [15]	2:33 PM 💌 by: SMS
Completed: 9 6/10/2014 15	2:33 PM 👻 by: SMS



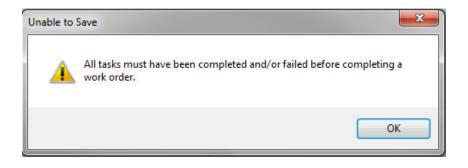
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#### **Exiting the Work Order**

- Click on the back button order page.
  - If the work order is in "completed' status, unanswered tasks are not allowed (this includes "N/A"). If any exist you will see the following error.



to return to the main work

You must navigate back to the start page and finish answering tasks, then click on the back button.

Back



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#### **Releasing a Work Order**

- Connect to the yellow network and navigate back to the work order page by choosing the Converse orders option from the menu dropdown.
- Confirm that only the work orders you are ready to release are in the Issued/Completed status.
  - Any work order in Issued/Completed status will be uploaded to MC during the sync.
  - Any data entry done on work orders in Issued or Issued/Responded status will sync to MC, but the work order will remain downloaded on the tablet.



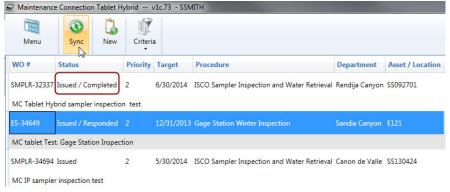
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#### **Releasing a Work Order Continued**

- Click the Sync button to start the data transfer.
- Close the browser window in the upper right corner to exit out of MC Tablet Hybrid.



1 Menu	3 Sync	<b>New</b>	Criteria	a			
WO #	Status		Priority	Target	Procedure	Department	Asset / Location
ES-34649 MC tablet T	Issued / Res			12/31/2013	Gage Station Winter Inspection	Sandia Canyon	E121
SMPLR-34694 Issued MC IP sampler inspection test		2	5/30/2014	ISCO Sampler Inspection and Water Retrieval	Canon de Valle	SS130424	



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#### What's next?

- Each Route team will need to request an account in Maintenance Connection by going to: <u>http://envweb.lanl.gov/mc\_web/onsite/default.htm</u>
- Click on Would you like to Sign Up? Click Here at the bottom of the page.
- Choose I am NOT a Member of the Maintenance Connection. and click OK.
- The Connection Key is 'LANL'. Click OK.
- Fill out all required information on the Sign Up page.
  - The Member ID and password you choose will be used by all Route members.
  - Choose 'Ind Permit BMP Insp & Maint' from the Repair Center dropdown.
- Click OK.



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#### **Available Resources**

- Project team members will be available to participate at inspections/during data entry.
- A field guide will be provided to help trouble shoot issues.



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